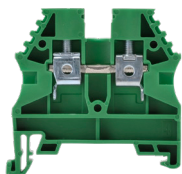




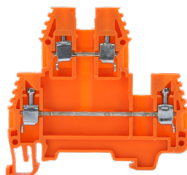
# KONNECT-IT® Component Family Overview

## Terminal Blocks



### Single-Level Terminal Blocks

Single-level terminal blocks can handle currents up to 175A, can accept a wide range of wiring sizes from 26 AWG to 2/0 AWG and have a 100kA SCCR rating. Single-level terminal blocks are available in a variety of colors.



### Double-Level Terminal Blocks

Double-level terminal blocks come in 20A and 30A versions and a variety of colors. Optional features include LED indications, diode and direct cross level connections and double level terminal blocks with an added grounding leg.



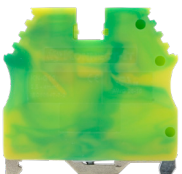
### Triple-Level Terminal Blocks

Triple-level terminal blocks can handle up to 24A and can accept a wide range of wiring sizes from 24 AWG to 12 AWG. Optional features include NPN and PNP sensor blocks with LED indication as well as triple level terminal blocks with an added grounding leg.



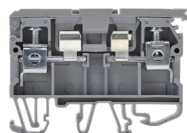
### Miniature Terminal Blocks

Available in two conductor cross section sizes, 20A and 30A capacities, and mountable on 15mm DIN rails. All Konnect-IT mini terminal block models have the same overall dimensions. Miniature grounding blocks are also available.



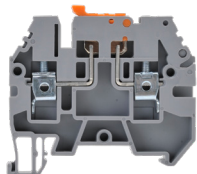
### Ground Terminal Blocks

Available with screw-down or snap-on clamping ground connection. These terminal blocks offer low contact resistance and corrosion-free connection points. The yellow-green color of the housing provides for easy identification.



### Fuse Holder Terminal Blocks

Fuse holder terminal blocks can be used with 5mm x 20mm glass fuses up to 6.3A. Fuses are easily installed and removed. Fuse holder terminal blocks are an ideal solution when there is a need to change fuses while the system is powered.



### Disconnect Terminal Blocks

Disconnect terminal blocks are an easy solution to enable circuits to be opened or to perform tests while the system is powered.

## Accessories



### End Brackets

End brackets prevent terminal blocks and other DIN rail mounted components and devices from sliding along the rail. They are available in configurations for 35mm and 15mm DIN rails.



### End Covers

Used to electrically and visually separate the last live open terminal in an assembly. This is a vital function since terminal blocks are supplied with one open side.



### Separators

Separators allow visual and electrical separation of terminal block groups and provide the necessary electrical spacing between adjacent insulated jumpers or between exposed ends of cut jumpers.



### Jumpers

Using screw-down technology to electrically interconnect two or more consecutive terminal blocks, jumpers can carry up to 100% of the rated terminal block current.



### Marking Tags

Provide system organization and efficient identification of the terminals and other components. They are available in blank or pre-printed configurations and fit onto the terminal blocks.



### Top Covers

#### and Label Holders

Top covers serve as protective covers for uninsulated jumpers. They are available blank or printed with the electrical symbols. Label holders attach to end brackets or DIN rail mounts and provide for easy identification of terminal block assemblies.



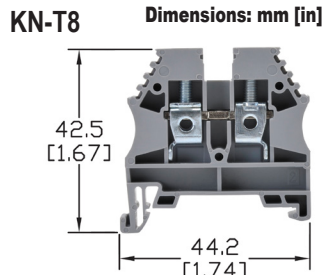
### Approvals / Conformities

- UL (E179129)
- CSA C22.2
- VDE (IEC 60947-7-1/ IEC 60947-7-1)
- TSE/CE (EN 60947-1-1/ EN 60947-7-2)

*Note: Terminal blocks international colors meet the requirements of 2011 NEC250.119 and 2012 NFPA 79 section 13.2*



- Screw connection terminal
- UL E179129 (For copper wire only. One conductor in terminal only.)
- VDE (IEC 60947-7-1)
- CE (EN 60947-7-1)



See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings

<sup>1</sup>UL Usage Group: B, C for 300V or D for 600V

# Single-Level Terminal Blocks

## Ordering Information

| Colors | Part Number                   | Qty | Price    | Part Number                  | Qty | Price    | Part Number                 | Qty | Price    |
|--------|-------------------------------|-----|----------|------------------------------|-----|----------|-----------------------------|-----|----------|
| Gray   | <a href="#">KN-T12GRY-100</a> | 100 | \$-4yvj: | <a href="#">KN-T10GRY-80</a> | 80  | \$-4yvi: | <a href="#">KN-T8GRY-60</a> | 60  | \$4yvz:  |
|        | <a href="#">KN-T12GRY-25</a>  | 25  | \$1h1z:  | <a href="#">KN-T10GRY-20</a> | 20  | \$-4z f: | <a href="#">KN-T8GRY-20</a> | 20  | \$4z_e:  |
| Blue   | <a href="#">KN-T12BLU-100</a> | 100 | \$4yvk:  | <a href="#">KN-T10BLU-80</a> | 80  | \$4yvp:  | <a href="#">KN-T8BLU-60</a> | 60  | \$;4yv[: |
|        | <a href="#">KN-T12BLU-25</a>  | 25  | \$;1h1]: | <a href="#">KN-T10BLU-20</a> | 20  | \$4z_g:  | <a href="#">KN-T8BLU-20</a> | 20  | \$4z_k:  |
| Brown  | <a href="#">KN-T12BRN-100</a> | 100 | \$4yvh:  | <a href="#">KN-T10BRN-80</a> | 80  | \$4yvy:  | <a href="#">KN-T8BRN-60</a> | 60  | \$4yx0:  |
|        | <a href="#">KN-T12BRN-25</a>  | 25  | \$1h1_:  | <a href="#">KN-T10BRN-20</a> | 20  | \$4z_d:  | <a href="#">KN-T8BRN-20</a> | 20  | \$;4z_t: |
| Black  | <a href="#">KN-T12BLK-100</a> | 100 | \$4yve:  | <a href="#">KN-T10BLK-80</a> | 80  | \$4yvu:  | <a href="#">KN-T8BLK-60</a> | 60  | \$;4yv!: |
|        | <a href="#">KN-T12BLK-25</a>  | 25  | \$;1h1[: | <a href="#">KN-T10BLK-20</a> | 20  | \$4z_a:  | <a href="#">KN-T8BLK-20</a> | 20  | \$4z_p:  |
| Green  | <a href="#">KN-T12GRN-100</a> | 100 | \$-4yvl: | <a href="#">KN-T10GRN-80</a> | 80  | \$4yvyq: | <a href="#">KN-T8GRN-60</a> | 60  | \$;4yv[: |
|        | <a href="#">KN-T12GRN-25</a>  | 25  | \$1h1#:  | <a href="#">KN-T10GRN-20</a> | 20  | \$4z_h:  | <a href="#">KN-T8GRN-20</a> | 20  | \$-4z_l: |
| Orange | <a href="#">KN-T12ORG-100</a> | 100 | \$4yvg:  | <a href="#">KN-T10ORG-80</a> | 80  | \$4yvx:  | <a href="#">KN-T8ORG-60</a> | 60  | \$;4yv:  |
|        | <a href="#">KN-T12ORG-25</a>  | 25  | \$;1h1!: | <a href="#">KN-T10ORG-20</a> | 20  | \$4z_c:  | <a href="#">KN-T8ORG-20</a> | 20  | \$4z_s:  |
| Red    | <a href="#">KN-T12RED-100</a> | 100 | \$4yvo:  | <a href="#">KN-T10RED-80</a> | 80  | \$;4yvt: | <a href="#">KN-T8RED-60</a> | 60  | \$4yv#:  |
|        | <a href="#">KN-T12RED-25</a>  | 25  | \$1h1?:  | <a href="#">KN-T10RED-20</a> | 20  | \$-4z_j: | <a href="#">KN-T8RED-20</a> | 20  | \$4z_o:  |
| Yellow | <a href="#">KN-T12YEL-100</a> | 100 | \$4yvn:  | <a href="#">KN-T10YEL-80</a> | 80  | \$4yvs:  | <a href="#">KN-T8YEL-60</a> | 60  | \$4yv_:  |
|        | <a href="#">KN-T12YEL-25</a>  | 25  | \$1h20:  | <a href="#">KN-T10YEL-20</a> | 20  | \$-4z_i: | <a href="#">KN-T8YEL-20</a> | 20  | \$4z_n:  |
| White  | <a href="#">KN-T12WHT-100</a> | 100 | \$;4yvf: | <a href="#">KN-T10WHT-80</a> | 80  | \$4yvv:  | <a href="#">KN-T8WHT-60</a> | 60  | \$4yv?:  |
|        | <a href="#">KN-T12WHT-25</a>  | 25  | \$;1h1,: | <a href="#">KN-T10WHT-20</a> | 20  | \$4z_b:  | <a href="#">KN-T8WHT-20</a> | 20  | \$4z_q:  |

## Technical Specifications

| Model                 | KN-T12                                                                                                                     |     |           | KN-T10              |     |           | KN-T8               |     |          |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------|-----|-----------|---------------------|-----|-----------|---------------------|-----|----------|
| Width                 | 5mm [0.20 in]                                                                                                              |     |           | 6mm [0.24 in]       |     |           | 8mm [0.31 in]       |     |          |
| Stripping Length      | 10mm [0.39 in]                                                                                                             |     |           | 10mm [0.39 in]      |     |           | 12mm [0.47 in]      |     |          |
| Tightening Torque     | 0.4 N·m [3.5 lb-in]                                                                                                        |     |           | 0.5 N·m [4.4 lb-in] |     |           | 0.8 N·m [7.1 lb-in] |     |          |
| Density               | 200/m [60 pcs/ft]                                                                                                          |     |           | 166/m [50 pcs/ft]   |     |           | 125/m [38 pcs/ft]   |     |          |
| UL/CSA Approval       | 600V                                                                                                                       | 20A | 26-12 AWG | 1300V               | 30A | 26-10 AWG | 1300V               | 50A | 26-8 AWG |
| VDE Approval          | 750V                                                                                                                       | 24A | 2.5 mm²   | 750V                | 32A | 4mm²      | 630V                | 41A | 6mm²     |
| CE Conformity         | 750V                                                                                                                       | 24A | 2.5 mm²   | 750V                | 32A | 4mm²      | 630V                | 41A | 6mm²     |
| SCCR Rating           | 100kA                                                                                                                      |     |           | 100kA               |     |           | 100kA               |     |          |
| Operating Temperature | Ambient air temperature: -67 to 185°F [-55 to 85°C], Relative humidity: 50% max at 104°F [40°C] and 90% max at 68°F [20°C] |     |           |                     |     |           |                     |     |          |
| Material              | Current Bar: Copper Alloy / Housing: Polyamide 66 / Screw: Zinc Plated Steel                                               |     |           |                     |     |           |                     |     |          |
| Mounting              | 35mm DIN rail                                                                                                              |     |           |                     |     |           |                     |     |          |

## Accessories

|                                      |         |                               |         |          |                               |         |          |                               |         |          |
|--------------------------------------|---------|-------------------------------|---------|----------|-------------------------------|---------|----------|-------------------------------|---------|----------|
| End Covers<br>(International colors) | Gray    | <a href="#">KN-ECT6GRY</a>    | 100/pkg | \$07d8:  | <a href="#">KN-ECT6GRY</a>    | 100/pkg | \$07d8:  | <a href="#">KN-ECT6GRY</a>    | 100/pkg | \$07d8:  |
|                                      |         | <a href="#">KN-ECT6GRY-25</a> | 25/pkg  | \$7d9:   | <a href="#">KN-ECT6GRY-25</a> | 25/pkg  | \$7d9:   | <a href="#">KN-ECT6GRY-25</a> | 25/pkg  | \$7d9:   |
|                                      | Blue    | <a href="#">KN-ECT6BLU</a>    | 10/pkg  | \$7d5:   | <a href="#">KN-ECT6BLU</a>    | 10/pkg  | \$7d5:   | <a href="#">KN-ECT6BLU</a>    | 10/pkg  | \$7d5:   |
|                                      | Brown   | <a href="#">KN-ECT6BRN</a>    |         | \$7d6:   | <a href="#">KN-ECT6BRN</a>    |         | \$7d6:   | <a href="#">KN-ECT6BRN</a>    |         | \$7d6:   |
|                                      | Black   | <a href="#">KN-ECT6BLK</a>    |         | \$7d4:   | <a href="#">KN-ECT6BLK</a>    |         | \$7d4:   | <a href="#">KN-ECT6BLK</a>    |         | \$7d4:   |
|                                      | Green   | <a href="#">KN-ECT6GRN</a>    |         | \$7d7:   | <a href="#">KN-ECT6GRN</a>    |         | \$7d7:   | <a href="#">KN-ECT6GRN</a>    |         | \$7d7:   |
|                                      | Orange  | <a href="#">KN-ECT6ORG</a>    |         | \$7da:   | <a href="#">KN-ECT6ORG</a>    |         | \$7da:   | <a href="#">KN-ECT6ORG</a>    |         | \$7da:   |
|                                      | Red     | <a href="#">KN-ECT6RED</a>    |         | \$7db:   | <a href="#">KN-ECT6RED</a>    |         | \$7db:   | <a href="#">KN-ECT6RED</a>    |         | \$7db:   |
|                                      | Yellow  | <a href="#">KN-ECT6YEL</a>    |         | \$7dd:   | <a href="#">KN-ECT6YEL</a>    |         | \$7dd:   | <a href="#">KN-ECT6YEL</a>    |         | \$7dd:   |
|                                      | White   | <a href="#">KN-ECT6WHT</a>    |         | \$7dc:   | <a href="#">KN-ECT6WHT</a>    |         | \$7dc:   | <a href="#">KN-ECT6WHT</a>    |         | \$7dc:   |
| Separators<br>(International colors) | Gray    | <a href="#">KN-ST1GRY</a>     | 25/pkg  | \$07dv:  | <a href="#">KN-ST1GRY</a>     | 25/pkg  | \$07dv:  | <a href="#">KN-ST1GRY</a>     | 25/pkg  | \$07dv:  |
|                                      | Blue    | <a href="#">KN-ST1BLU</a>     | 10/pkg  | \$7ds:   | <a href="#">KN-ST1BLU</a>     | 10/pkg  | \$7ds:   | <a href="#">KN-ST1BLU</a>     | 10/pkg  | \$7ds:   |
|                                      | Brown   | <a href="#">KN-ST1BRN</a>     |         | \$;7dt:  | <a href="#">KN-ST1BRN</a>     |         | \$;7dt:  | <a href="#">KN-ST1BRN</a>     |         | \$;7dt:  |
|                                      | Black   | <a href="#">KN-ST1BLK</a>     |         | \$7dq:   | <a href="#">KN-ST1BLK</a>     |         | \$7dq:   | <a href="#">KN-ST1BLK</a>     |         | \$7dq:   |
|                                      | Green   | <a href="#">KN-ST1GRN</a>     |         | \$7du:   | <a href="#">KN-ST1GRN</a>     |         | \$7du:   | <a href="#">KN-ST1GRN</a>     |         | \$7du:   |
|                                      | Orange  | <a href="#">KN-ST1ORG</a>     |         | \$7dx:   | <a href="#">KN-ST1ORG</a>     |         | \$7dx:   | <a href="#">KN-ST1ORG</a>     |         | \$7dx:   |
|                                      | Red     | <a href="#">KN-ST1RED</a>     |         | \$7dy:   | <a href="#">KN-ST1RED</a>     |         | \$7dy:   | <a href="#">KN-ST1RED</a>     |         | \$7dy:   |
|                                      | Yellow  | <a href="#">KN-ST1YEL</a>     |         | \$;7dj:  | <a href="#">KN-ST1YEL</a>     |         | \$;7dj:  | <a href="#">KN-ST1YEL</a>     |         | \$;7dj:  |
|                                      | White   | <a href="#">KN-ST1WHT</a>     |         | \$7dz:   | <a href="#">KN-ST1WHT</a>     |         | \$7dz:   | <a href="#">KN-ST1WHT</a>     |         | \$7dz:   |
| Jumpers                              | 2-pole  | <a href="#">KN-2J12</a>       | 25/pkg  | \$07ae:  | <a href="#">KN-2J10</a>       | 25/pkg  | \$07ad:  | <a href="#">KN-2J8</a>        | 25/pkg  | \$-07ai: |
|                                      | 3-pole  | <a href="#">KN-3J12</a>       | 20/pkg  | \$07au:  | <a href="#">KN-3J10</a>       | 20/pkg  | \$;07at: | <a href="#">KN-3J8</a>        | 20/pkg  | \$07az:  |
|                                      | 4-pole  | <a href="#">KN-4J12</a>       | 15/pkg  | \$07c6:  | <a href="#">KN-4J10</a>       | 15/pkg  | \$07c5:  | <a href="#">KN-4J8</a>        | 15/pkg  | \$07ca:  |
|                                      | 10-pole | <a href="#">KN-10J12</a>      | 5/pkg   | \$07a4:  | <a href="#">KN-10J10</a>      | 5/pkg   | \$07a3:  | <a href="#">KN-10J8</a>       | 5/pkg   | \$07a8:  |
| Comb-type jumper / 2-pole            |         | <a href="#">KN-2JCC12</a>     | 25/pkg  | \$07ak:  | <a href="#">KN-2JCC10</a>     | 25/pkg  | \$-07aj: | <a href="#">KN-2JCC8</a>      | 25/pkg  | \$07an:  |
| Top Cover / Blank                    |         | <a href="#">KN-TC-1</a>       | 25/pkg  | \$7d?:   | <a href="#">KN-TC-1</a>       | 25/pkg  | \$7d?:   | <a href="#">KN-TC-1</a>       | 25/pkg  | \$7d?:   |
| Top Cover / Symbol                   |         | <a href="#">KN-TC-1S</a>      | 25/pkg  | \$;07d,: | <a href="#">KN-TC-1S</a>      | 25/pkg  | \$;07d,: | <a href="#">KN-TC-1S</a>      | 25/pkg  | \$;07d,: |
| Marking Tags                         |         | KN-L5 Series                  |         |          | KN-L5 Series                  |         |          | KN-L5 / KN-L6P5 Series        |         |          |

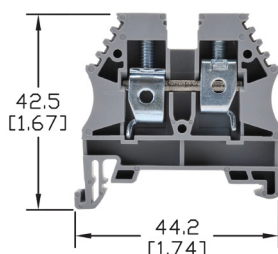




- Screw connection terminal
- UL E179129  
(For copper wire only. One conductor in terminal only.)
- VDE (IEC 60947-7-1)
- CE (EN 60947-7-1)

**KN-T6**

Dimensions: mm [in]



See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com)  
for complete engineering drawings

\*UL Usage Group: B, C for 300V or D for 600V

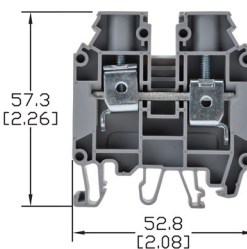
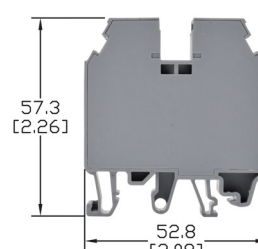
# Single-Level Terminal Blocks

## Ordering Information

| Colors | Part Number                 | Qty | Price    | Part Number                 | Qty | Price    | Part Number                 | Qty | Price     |
|--------|-----------------------------|-----|----------|-----------------------------|-----|----------|-----------------------------|-----|-----------|
| Gray   | <a href="#">KN-T6GRY-50</a> | 50  | \$4yx1:  | <a href="#">KN-T4GRY</a>    | 50  | \$-0710: | <a href="#">KN-T2GRY</a>    | 40  | \$007k#:  |
|        | <a href="#">KN-T6GRY-25</a> | 25  | \$-0718: | <a href="#">KN-T4GRY-25</a> | 25  | \$-0711: | <a href="#">KN-T2GRY-10</a> | 10  | \$:07k!:  |
| Blue   | <a href="#">KN-T6BLU-50</a> | 50  | \$4yx2:  | <a href="#">KN-T4BLU</a>    | 50  | \$07k?:  | <a href="#">KN-T2BLU</a>    | 40  | \$:007k[: |
|        | <a href="#">KN-T6BLU-25</a> | 25  | \$-0714: | <a href="#">KN-T4BLU-25</a> | 25  | \$:07k.: | <a href="#">KN-T2BLU-10</a> | 10  | \$07k.:   |
| Brown  | <a href="#">KN-T6BRN-50</a> | 50  | \$4yx9:  |                             |     |          |                             |     |           |
|        | <a href="#">KN-T6BRN-25</a> | 25  | \$1h2k:  |                             |     |          |                             |     |           |
| Black  | <a href="#">KN-T6BLK-50</a> | 50  | \$4yx6:  |                             |     |          |                             |     |           |
|        | <a href="#">KN-T6BLK-25</a> | 25  | \$-1h2j: |                             |     |          |                             |     |           |
| Green  | <a href="#">KN-T6GRN-50</a> | 50  | \$4yx3:  |                             |     |          |                             |     |           |
|        | <a href="#">KN-T6GRN-25</a> | 25  | \$-1h2l: |                             |     |          |                             |     |           |
| Orange | <a href="#">KN-T6ORG-50</a> | 50  | \$4yx8:  |                             |     |          |                             |     |           |
|        | <a href="#">KN-T6ORG-25</a> | 25  | \$1h2n:  |                             |     |          |                             |     |           |
| Red    | <a href="#">KN-T6RED-50</a> | 50  | \$4yx5:  |                             |     |          |                             |     |           |
|        | <a href="#">KN-T6RED-25</a> | 25  | \$1h2o:  |                             |     |          |                             |     |           |
| Yellow | <a href="#">KN-T6YEL-50</a> | 50  | \$4yx4:  |                             |     |          |                             |     |           |
|        | <a href="#">KN-T6YEL-25</a> | 25  | \$1h2q:  |                             |     |          |                             |     |           |
| White  | <a href="#">KN-T6WHT-50</a> | 50  | \$4yx7:  |                             |     |          |                             |     |           |
|        | <a href="#">KN-T6WHT-25</a> | 25  | \$1h2p:  |                             |     |          |                             |     |           |



Dimensions: mm [in]

**KN-T4****KN-T2**

## Technical Specifications

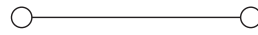
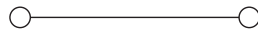
| Technical Specifications |                                                                                                                            |     |          |                      |     |          |                      |      |          |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------|-----|----------|----------------------|-----|----------|----------------------|------|----------|
| Model                    | KN-T6                                                                                                                      |     |          | KN-T4                |     |          | KN-T2                |      |          |
| Width                    | 10mm [0.39 in]                                                                                                             |     |          | 12mm [0.47 in]       |     |          | 16mm [0.63 in]       |      |          |
| Stripping Length         | 12mm [0.47 in]                                                                                                             |     |          | 16mm [0.63 in]       |     |          | 18mm [0.71 in]       |      |          |
| Tightening Torque        | 1.2 N·m [10.6 lb-in]                                                                                                       |     |          | 1.2 N·m [10.6 lb-in] |     |          | 2.5 N·m [22.1 lb-in] |      |          |
| Density                  | 100/m [33 pcs/ft]                                                                                                          |     |          | 83/m [25 pcs/ft]     |     |          | 62/m [19 pcs/ft]     |      |          |
| UL/CSA Approval          | 1300V                                                                                                                      | 65A | 16-6 AWG | 600V                 | 80A | 12-4 AWG | 600V                 | 115A | 10-2 AWG |
| VDE Approval             | 630V                                                                                                                       | 57A | 10mm²    | 750V                 | 76A | 16mm²    | 750V                 | 125A | 35mm²    |
| CE Conformity            | 630V                                                                                                                       | 57A | 10mm²    | 750V                 | 76A | 16mm²    | 750V                 | 125A | 35mm²    |
| SCCR Rating              | 100kA                                                                                                                      |     |          | 100kA                |     |          | 100kA                |      |          |
| Operating Temperature    | Ambient air temperature: -67 to 185°F [-55 to 85°C], Relative humidity: 50% max at 104°F [40°C] and 90% max at 68°F [20°C] |     |          |                      |     |          |                      |      |          |
| Material                 | Current Bar: Copper Alloy / Housing: Polyamide 66 / Screws: Zinc Plated Steel                                              |     |          |                      |     |          |                      |      |          |
| Mounting                 | 35mm DIN rail                                                                                                              |     |          |                      |     |          |                      |      |          |

## Accessories

|                                      |         |                               |         |           |                            |        |           |                                                           |        |           |
|--------------------------------------|---------|-------------------------------|---------|-----------|----------------------------|--------|-----------|-----------------------------------------------------------|--------|-----------|
| End Covers<br>(International colors) | Gray    | <a href="#">KN-ECT6GRY</a>    | 100/pkg | \$07d8:   | <a href="#">KN-ECT4GRY</a> | 25/pkg | \$07d3:   | Note: KN-T2 is totally enclosed,<br>no end cover required |        |           |
|                                      |         | <a href="#">KN-ECT6GRY-25</a> | 25/pkg  | \$7d9:    | —                          | —      | —         |                                                           |        |           |
|                                      | Blue    | <a href="#">KN-ECT6BLU</a>    | 10/pkg  | \$7d5:    | <a href="#">KN-ECT4BLU</a> | 10/pkg | \$7d2:    |                                                           |        |           |
|                                      | Brown   | <a href="#">KN-ECT6BRN</a>    |         | \$7d6:    | —                          | —      | —         |                                                           |        |           |
|                                      | Black   | <a href="#">KN-ECT6BLK</a>    |         | \$7d4:    | —                          | —      | —         |                                                           |        |           |
|                                      | Green   | <a href="#">KN-ECT6GRN</a>    |         | \$7d7:    | —                          | —      | —         |                                                           |        |           |
|                                      | Orange  | <a href="#">KN-ECT6ORG</a>    |         | \$7da:    | —                          | —      | —         |                                                           |        |           |
|                                      | Red     | <a href="#">KN-ECT6RED</a>    |         | \$7db:    | —                          | —      | —         |                                                           |        |           |
|                                      | Yellow  | <a href="#">KN-ECT6YEL</a>    |         | \$7dd:    | —                          | —      | —         |                                                           |        |           |
|                                      | White   | <a href="#">KN-ECT6WHT</a>    |         | \$7dc:    | —                          | —      | —         |                                                           |        |           |
| Separators<br>(International colors) | Gray    | <a href="#">KN-ST1GRY</a>     | 25/pkg  | \$07dv:   | <a href="#">KN-ST2GRY</a>  | 25/pkg | \$07d.:   | <a href="#">KN-ST3GRY</a>                                 | 10/pkg | ,\$7d!:   |
|                                      | Blue    | <a href="#">KN-ST1BLU</a>     | 10/pkg  | \$7ds:    | <a href="#">KN-ST2BLU</a>  | 10/pkg | ,\$:07d[: | <a href="#">KN-ST3BLU</a>                                 | 10/pkg | \$7d#:    |
|                                      | Brown   | <a href="#">KN-ST1BRN</a>     |         | ,\$:7dt:  | —                          | —      | —         | —                                                         | —      |           |
|                                      | Black   | <a href="#">KN-ST1BLK</a>     |         | \$7dq:    | —                          | —      | —         | —                                                         | —      |           |
|                                      | Green   | <a href="#">KN-ST1GRN</a>     |         | \$7du:    | —                          | —      | —         | —                                                         | —      |           |
|                                      | Orange  | <a href="#">KN-ST1ORG</a>     |         | \$7dx:    | —                          | —      | —         | —                                                         | —      |           |
|                                      | Red     | <a href="#">KN-ST1RED</a>     |         | \$7dy:    | —                          | —      | —         | —                                                         | —      |           |
|                                      | Yellow  | <a href="#">KN-ST1YEL</a>     |         | ,\$:7d[:  | —                          | —      | —         | —                                                         | —      |           |
|                                      | White   | <a href="#">KN-ST1WHT</a>     |         | \$7dz:    | —                          | —      | —         | —                                                         | —      |           |
| Jumpers                              | 2-pole  | <a href="#">KN-2J6</a>        | 25/pkg  | \$07ah:   | <a href="#">KN-2J4</a>     | 25/pkg | \$07ag:   | <a href="#">KN-2J2</a>                                    | 25/pkg | ,\$:07af: |
|                                      | 3-pole  | <a href="#">KN-3J6</a>        | 20/pkg  | \$07ay:   | <a href="#">KN-3J4</a>     | 20/pkg | \$07ax:   | <a href="#">KN-3J2</a>                                    | 20/pkg | \$07av:   |
|                                      | 4-pole  | <a href="#">KN-4J6</a>        | 15/pkg  | \$07c9:   | <a href="#">KN-4J4</a>     | 15/pkg | \$07c8:   | <a href="#">KN-4J2</a>                                    | 15/pkg | \$07c7:   |
|                                      | 10-pole | <a href="#">KN-10J6</a>       | 5/pkg   | \$07a7:   | <a href="#">KN-10J4</a>    | 5/pkg  | \$07a6:   | <a href="#">KN-10J2</a>                                   | 5/pkg  | \$07a5:   |
| Comb-type jumper / 2-pole            |         | <a href="#">KN-2JCC6</a>      | 25/pkg  | \$-07al:  | —                          | —      | —         | —                                                         | —      | —         |
| Top Cover / Blank                    |         | <a href="#">KN-TC-1</a>       | 25/pkg  | \$7d?:    | <a href="#">KN-TC-2</a>    | 25/pkg | \$07e0:   | <a href="#">KN-TC-2</a>                                   | 25/pkg | \$07e0:   |
| Top Cover / Symbol                   |         | <a href="#">KN-TC-1S</a>      | 25/pkg  | ,\$:07d.: | <a href="#">KN-TC-2S</a>   | 25/pkg | \$07e1:   | <a href="#">KN-TC-2S</a>                                  | 25/pkg | \$07e1:   |
| Marking Tags                         |         | KN-L5/KN-L6P5 Series          |         |           | KN-L5/KN-L6P5 Series       |        |           | KN-L5/KN-L6P5 Series                                      |        |           |



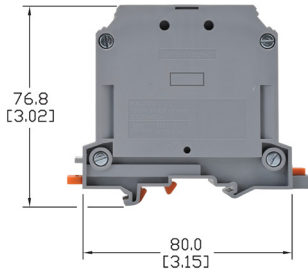
# Single-Level Terminal Blocks



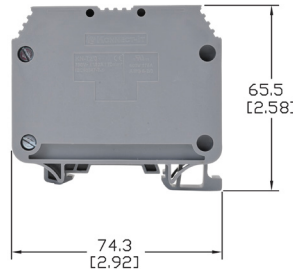
Dimensions: mm [in]

- Screw connection terminal
- UL E179129  
(For copper wire only.  
One conductor in  
terminal only.)
- CE (EN 60947-7-1)

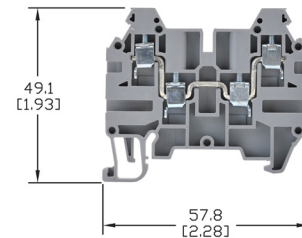
**KN-T1/0**



**KN-T2/0**



**KN-T12SP4**



See our website: [www.AutomationDirect.com](https://www.AutomationDirect.com) for complete engineering drawings

## Ordering Information

| Colors | Part Number                   | Qty | Price    | Part Number                | Qty | Price    | Part Number                  | Qty | Price    |
|--------|-------------------------------|-----|----------|----------------------------|-----|----------|------------------------------|-----|----------|
| Gray   | <a href="#">KN-T1/0GRY</a>    | 25  | \$007ka: | <a href="#">KN-T2/0GRY</a> | 10  | \$;07k]: | <a href="#">KN-T12SP4</a>    | 100 | \$007ku: |
|        | <a href="#">KN-T1/0GRY-10</a> | 10  | \$07kb:  | —                          | —   | —        | <a href="#">KN-T12SP4-25</a> | 25  | \$07kv:  |
| Blue   | <a href="#">KN-T1/0BLU</a>    | 25  | \$007k8: | <a href="#">KN-T2/0BLU</a> | 10  | \$07kz:  | —                            | —   | —        |
|        | <a href="#">KN-T1/0BLU-10</a> | 10  | \$07k9:  | —                          | —   | —        | —                            | —   | —        |

## Technical Specifications

| Technical Specifications |                                                                                                                            |      |            |                      |      |           |                                       |     |           |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------|------|------------|----------------------|------|-----------|---------------------------------------|-----|-----------|
| Model                    | KN-T1/0                                                                                                                    |      |            | KN-T2/0              |      |           | KN-T12SP4                             |     |           |
| Width                    | 20mm [0.79 in]                                                                                                             |      |            | 22mm [0.87 in]       |      |           | 5mm [0.20 in]                         |     |           |
| Stripping Length         | 20mm [0.79 in]                                                                                                             |      |            | 20mm [0.79 in]       |      |           | 10mm [0.39 in]                        |     |           |
| Tightening Torque        | 6.0 N·m [53.1 lb·in]                                                                                                       |      |            | 6.0 N·m [53.1 lb·in] |      |           | 0.5 N·m [4.4 lb·in]                   |     |           |
| Density                  | 50/m [15 pcs/ft]                                                                                                           |      |            | 45/m [13 pcs/ft]     |      |           | 200/m [60 pcs/ft]                     |     |           |
| UL/CSA Approval          | 600V                                                                                                                       | 150A | 6-1/0 AWGG | 600V                 | 175A | 6-2/0 AWG | 600V                                  | 20A | 26-12 AWG |
| CE Conformity            | 1000V                                                                                                                      | 150A | 50mm²      | 750V                 | 192A | 70mm²     | 750V                                  | 24A | 2.5 mm²   |
| SCCR Rating              | 100kA                                                                                                                      |      |            | 100kA                |      |           | 100kA per Table SB4.1, 2009, UL 508A. |     |           |
| Operating Temperature    | Ambient air temperature: -67 to 185°F [-55 to 85°C], Relative humidity: 50% max at 104°F [40°C] and 90% max at 68°F [20°C] |      |            |                      |      |           |                                       |     |           |
| Material                 | Current Bar: Copper Alloy / Housing: Polyamide 66 / Screws: Zinc Plated Steel                                              |      |            |                      |      |           |                                       |     |           |
| Mounting                 | 35mm DIN rail                                                                                                              |      |            |                      |      |           |                                       |     |           |

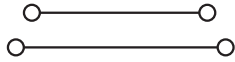
## Accessories

|              |                   |                          |       |         |                                |   |   |                             |        |          |
|--------------|-------------------|--------------------------|-------|---------|--------------------------------|---|---|-----------------------------|--------|----------|
| End Covers   | Gray              | —                        | —     | —       | —                              | — | — | <a href="#">KN-ECT12SP4</a> | 25/pkg | \$07d1:  |
| Jumpers      | 2-pole            | <a href="#">KN-2J1/0</a> | 5/pkg | \$07ac: | —                              | — | — | <a href="#">KN-2JM12</a>    | 25/pkg | \$07ap:  |
|              | 3-pole            | <a href="#">KN-3J1/0</a> | 5/pkg | \$07as: | —                              | — | — | <a href="#">KN-3JM12</a>    | 20/pkg | \$;07a[: |
|              | 4-pole            | <a href="#">KN-4J1/0</a> | 5/pkg | \$07c4: | —                              | — | — | <a href="#">KN-4JM12</a>    | 15/pkg | \$07cc:  |
|              | 10-pole           | —                        | —     | —       | —                              | — | — | <a href="#">KN-10JM12</a>   | 5/pkg  | \$07aa:  |
| Marking Tags | No tags available |                          |       |         | KN-L5 Series<br>KN-L6P5 Series |   |   | KN-L5 Series                |        |          |

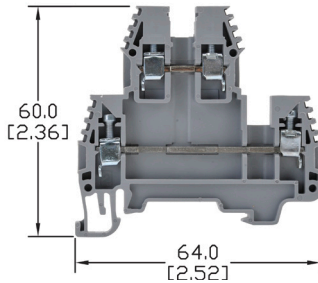


# Double-Level Terminal Blocks

- Screw connection terminal
- UL E179129  
(For copper wire only. One conductor in terminal only.)
- CE (EN 60947-7-1)



Dimensions: mm [in]



See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com)  
for complete engineering drawings

## Ordering Information

| Color  | Part Number                  | Qty. | Price      | Part Number                  | Qty. | Price      |
|--------|------------------------------|------|------------|------------------------------|------|------------|
| Gray   | <a href="#">KN-D12GRY</a>    | 100  | \$-007jz:  | <a href="#">KN-D10GRY</a>    | 100  | \$-007jj:  |
|        | <a href="#">KN-D12GRY-25</a> | 25   | \$1h2s:    | <a href="#">KN-D10GRY-25</a> | 25   | \$;1h2j:   |
| Blue   | <a href="#">KN-D12BLU</a>    | 100  | \$-007jv:  | <a href="#">KN-D10BLU</a>    | 100  | \$-007jg:  |
|        | <a href="#">KN-D12BLU-25</a> | 25   | \$;1h2t:   | <a href="#">KN-D10BLU-25</a> | 25   | \$;1h2f:   |
| Black  | <a href="#">KN-D12BLK</a>    | 100  | \$-007ju:  | <a href="#">KN-D10BLK</a>    | 100  | \$;-007jf: |
|        | <a href="#">KN-D12BLK-25</a> | 25   | \$1h2u:    | <a href="#">KN-D10BLK-25</a> | 25   | \$1h2_:    |
| Green  | <a href="#">KN-D12GRN</a>    | 100  | \$-007jy:  | <a href="#">KN-D10GRN</a>    | 100  | \$-007ji:  |
|        | <a href="#">KN-D12GRN-25</a> | 25   | \$1h2v:    | <a href="#">KN-D10GRN-25</a> | 25   | \$1h2#:    |
| Orange | <a href="#">KN-D12ORG</a>    | 100  | \$;-007jl: | <a href="#">KN-D10ORG</a>    | 100  | \$-007jp:  |
|        | <a href="#">KN-D12ORG-25</a> | 25   | \$1h2x:    | <a href="#">KN-D10ORG-25</a> | 25   | \$;1h2l:   |
| Red    | <a href="#">KN-D12RED</a>    | 100  | \$-007j?:  | <a href="#">KN-D10RED</a>    | 100  | \$-007jq:  |
|        | <a href="#">KN-D12RED-25</a> | 25   | \$1h2y:    | <a href="#">KN-D10RED-25</a> | 25   | \$1h2?:    |
| Yellow | <a href="#">KN-D12YEL</a>    | 100  | \$007k0:   | <a href="#">KN-D10YEL</a>    | 100  | \$;-007jt: |
|        | <a href="#">KN-D12YEL-25</a> | 25   | \$1h2z:    | <a href="#">KN-D10YEL-25</a> | 25   | \$;1h2_:   |

## Technical Specifications

| Model                 | KN-D12                                                                                                                       |     |           | KN-D10              |     |           |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------|-----|-----------|---------------------|-----|-----------|
| Width                 | 5mm [0.20 in]                                                                                                                |     |           | 6mm [0.24 in]       |     |           |
| Stripping Length      | 9mm [0.35 in]                                                                                                                |     |           | 9mm [0.35 in]       |     |           |
| Tightening Torque     | 0.4 N·m [3.5 lb·in]                                                                                                          |     |           | 0.5 N·m [4.4 lb·in] |     |           |
| Density               | 200/m [60 pcs/ft]                                                                                                            |     |           | 166/m [50 pcs/ft]   |     |           |
| UL/CSA Approval       | 300V                                                                                                                         | 20A | 26-12 AWG | 300V                | 30A | 26-10 AWG |
| CE Conformity         | 500V                                                                                                                         | 24A | 2.5 mm²   | 500V                | 32A | 4mm²      |
| SCCR Rating           | 100kA                                                                                                                        |     |           | 100kA               |     |           |
| Operating Temperature | Ambient air temperature: -67 to 185°F [-55 to 85°C]<br>Relative humidity: 50% max at 104°F [40°C] and 90% max at 68°F [20°C] |     |           |                     |     |           |
| Material              | Current Bar: Copper Alloy / Housing: Polyamide 66 / Screws: Zinc Plated Steel                                                |     |           |                     |     |           |
| Mounting              | 35mm DIN rail                                                                                                                |     |           |                     |     |           |

## Accessories

|                                      |              |                           |        |         |                           |        |          |
|--------------------------------------|--------------|---------------------------|--------|---------|---------------------------|--------|----------|
| End Covers<br>(International colors) | Gray         | <a href="#">KN-ECDGRY</a> | 25/pkg | \$07cx: | <a href="#">KN-ECDGRY</a> | 25/pkg | \$07cx:  |
|                                      | Blue         | <a href="#">KN-ECDBLU</a> | 10/pkg | \$;7ct: | <a href="#">KN-ECDBLU</a> | 10/pkg | \$;7ct:  |
|                                      | Black        | <a href="#">KN-ECDBLK</a> | 10/pkg | \$7cs:  | <a href="#">KN-ECDBLK</a> | 10/pkg | \$7cs:   |
|                                      | Green        | <a href="#">KN-ECDGRN</a> | 10/pkg | \$7cv:  | <a href="#">KN-ECDGRN</a> | 10/pkg | \$7cv:   |
|                                      | Orange       | <a href="#">KN-ECDORG</a> | 10/pkg | \$7cy:  | <a href="#">KN-ECDORG</a> | 10/pkg | \$7cy:   |
|                                      | Red          | <a href="#">KN-ECDRED</a> | 10/pkg | \$7cz:  | <a href="#">KN-ECDRED</a> | 10/pkg | \$7cz:   |
|                                      | Yellow       | <a href="#">KN-ECDYEL</a> | 10/pkg | \$;7c]: | <a href="#">KN-ECDYEL</a> | 10/pkg | \$;7c]:  |
| Jumpers                              | 2-pole       | <a href="#">KN-2J12</a>   | 25/pkg | \$07ae: | <a href="#">KN-2J10</a>   | 25/pkg | \$07ad:  |
|                                      | 3-pole       | <a href="#">KN-3J12</a>   | 20/pkg | \$07au: | <a href="#">KN-3J10</a>   | 20/pkg | \$;07at: |
|                                      | 4-pole       | <a href="#">KN-4J12</a>   | 15/pkg | \$07c6: | <a href="#">KN-4J10</a>   | 15/pkg | \$07c5:  |
|                                      | 10-pole      | <a href="#">KN-10J12</a>  | 5/pkg  | \$07a4: | <a href="#">KN-10J10</a>  | 5/pkg  | \$07a3:  |
| Marking Tags                         | KN-L5 Series |                           |        |         |                           |        |          |

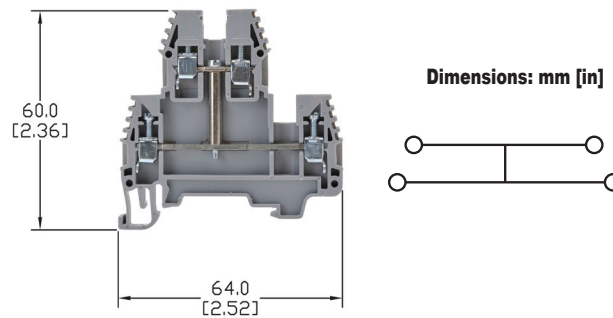




# Double-Level Terminal Blocks

- Screw connection terminal
- UL E179129  
(For copper wire only.  
One conductor in terminal only.)
- CE (EN 60947-7-1)

See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com)  
for complete engineering drawings



## Ordering Information

| Color | Part Number           | Qty | Price     | Part Number           | Qty | Price     |
|-------|-----------------------|-----|-----------|-----------------------|-----|-----------|
| Gray  | <b><u>KN-D12X</u></b> | 20  | \$;-07j.: | <b><u>KN-D10X</u></b> | 20  | \$;-07js: |

## Technical Specifications

| Model                 | <b><u>KN-D12X</u></b>                                                                                                        |     |                     | <b><u>KN-D10X</u></b> |     |                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------|-----|---------------------|-----------------------|-----|------------------|
| Width                 | 5mm [0.20 in]                                                                                                                |     |                     | 6mm [0.24 in]         |     |                  |
| Stripping Length      | 9mm [0.35 in]                                                                                                                |     |                     | 9mm [0.35 in]         |     |                  |
| Tightening Torque     | 0.4 N·m [3.5 lb·in]                                                                                                          |     |                     | 0.5 N·m [4.4 lb·in]   |     |                  |
| Density               | 200/m [60 pcs/ft]                                                                                                            |     |                     | 166/m [50 pcs/ft]     |     |                  |
| UL/CSA Approval       | 300V                                                                                                                         | 20A | 26-12 AWG           | 300V                  | 30A | 26-10 AWG        |
| CE Conformity         | 500V                                                                                                                         | 24A | 2.5 mm <sup>2</sup> | 500V                  | 32A | 4mm <sup>2</sup> |
| SCCR Rating           | 100kA per Table SB4.1, 2009, UL 508A.                                                                                        |     |                     |                       |     |                  |
| Operating Temperature | Ambient air temperature: -67 to 185°F [-55 to 85°C]<br>Relative humidity: 50% max at 104°F [40°C] and 90% max at 68°F [20°C] |     |                     |                       |     |                  |
| Material              | Current Bar: Copper Alloy / Housing: Polyamide 66 / Screws: Zinc Plated Steel                                                |     |                     |                       |     |                  |
| Mounting              | 35mm DIN rail                                                                                                                |     |                     |                       |     |                  |

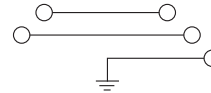
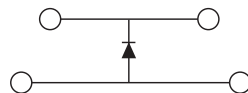
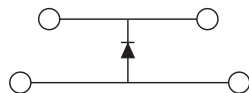
## Accessories

|              |              |                         |        |         |                         |        |         |
|--------------|--------------|-------------------------|--------|---------|-------------------------|--------|---------|
| End Covers   | Gray         | <b><u>KN-ECDGRY</u></b> | 25/pkg | \$07cx: | <b><u>KN-ECDGRY</u></b> | 25/pkg | \$07cx: |
| Jumpers*     | 2-pole       | <b><u>KN-2J12</u></b>   | 25/pkg | \$07ae: | <b><u>KN-2J10</u></b>   | 25/pkg | \$07ad: |
|              | 3-pole       | <b><u>KN-3J12</u></b>   | 20/pkg | \$07au: | <b><u>KN-3J10</u></b>   | 20/pkg | \$07at: |
|              | 4-pole       | <b><u>KN-4J12</u></b>   | 15/pkg | \$07c6: | <b><u>KN-4J10</u></b>   | 15/pkg | \$07c5: |
|              | 10-pole      | <b><u>KN-10J12</u></b>  | 5/pkg  | \$07a4: | <b><u>KN-10J10</u></b>  | 5/pkg  | \$07a3: |
| Marking Tags | KN-L5 Series |                         |        |         |                         |        |         |

\* KN-D12X and KN-D10X terminal blocks can only be jumped on the lower decks.



# Double-Level Terminal Blocks



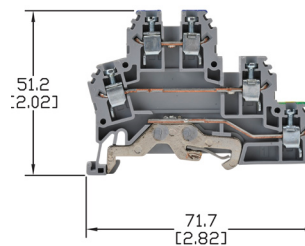
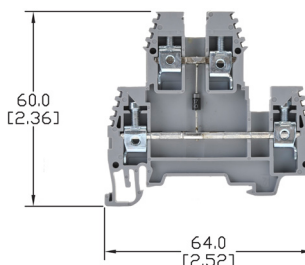
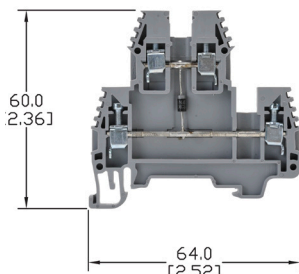
Dimensions: mm [in]

## KN-D12DR1

## KN-D10DR1

## KN-DG12

- Screw connection terminal
- UL E179129 (For copper wire only. One conductor in terminal only.)
- CE (EN 60947-7-1)



See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings

## Ordering Information

| Color | Part Number               | Qty | Price    | Part Number               | Qty | Price    | Part Number             | Qty | Price    |
|-------|---------------------------|-----|----------|---------------------------|-----|----------|-------------------------|-----|----------|
| Gray  | <a href="#">KN-D12DR1</a> | 20  | \$-07jx: | <a href="#">KN-D10DR1</a> | 20  | \$-07jh: | <a href="#">KN-DG12</a> | 20  | \$007k1: |

## Technical Specifications

| Model                 | KN-D12DR1                                                                                                                  |     |                     | KN-D10DR1           |     |                  | KN-DG12             |     |                     |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------|-----|---------------------|---------------------|-----|------------------|---------------------|-----|---------------------|
| Width                 | 5mm [0.20 in]                                                                                                              |     |                     | 6mm [0.24 in]       |     |                  | 6mm [0.24 in]       |     |                     |
| Stripping Length      | 9mm [0.35 in]                                                                                                              |     |                     | 9mm [0.35 in]       |     |                  | 9mm [0.35 in]       |     |                     |
| Tightening Torque     | 0.4 N·m [3.5 lb·in]                                                                                                        |     |                     | 0.5 N·m [4.4 lb·in] |     |                  | 0.4 N·m [3.5 lb·in] |     |                     |
| Density               | 200/m [60 pcs/ft]                                                                                                          |     |                     | 166/m [50 pcs/ft]   |     |                  | 166/m [50 pcs/ft]   |     |                     |
| UL/CSA Approval       | 300V                                                                                                                       | 20A | 26-12 AWG           | 300V                | 30A | 26-10 AWG        | 300V                | 20A | 26-12 AWG           |
| CE Conformity         | 500V                                                                                                                       | 24A | 2.5 mm <sup>2</sup> | 500V                | 32A | 4mm <sup>2</sup> | 440V                | 24A | 2.5 mm <sup>2</sup> |
| SCCR Rating           | 100kA per Table SB4.1, 2009, UL 508A. Maximum short circuit current rating for unmarked components.                        |     |                     |                     |     |                  |                     |     |                     |
| Operating Temperature | Ambient air temperature: -67 to 185°F [-55 to 85°C], Relative humidity: 50% max at 104°F [40°C] and 90% max at 68°F [20°C] |     |                     |                     |     |                  |                     |     |                     |
| Material              | Current Bar: Copper Alloy / Housing: Polyamide 66 / Screws: Zinc Plated Steel                                              |     |                     |                     |     |                  |                     |     |                     |
| Mounting              | 35mm DIN rail                                                                                                              |     |                     |                     |     |                  |                     |     |                     |

## Accessories

| End Cover    | Gray    | <a href="#">KN-ECDGRY</a> | 25/pkg | \$07cx: | <a href="#">KN-ECDGRY</a> | 25/pkg | \$07cx:  | <a href="#">KN-ECDG12</a>  | 10/pkg | \$7cu:  |
|--------------|---------|---------------------------|--------|---------|---------------------------|--------|----------|----------------------------|--------|---------|
| Jumpers      | 2-pole  | <a href="#">KN-2J12</a>   | 25/pkg | \$07ae: | <a href="#">KN-2J10</a>   | 25/pkg | \$07ad:  | <a href="#">KN-2JTL12</a>  | 25/pkg | \$07aq: |
|              | 3-pole  | <a href="#">KN-3J12</a>   | 20/pkg | \$07au: | <a href="#">KN-3J10</a>   | 20/pkg | \$;07at: | <a href="#">KN-3JTL12</a>  | 20/pkg | \$07c3: |
|              | 4-pole  | <a href="#">KN-4J12</a>   | 15/pkg | \$07c6: | <a href="#">KN-4J10</a>   | 15/pkg | \$07c5:  | <a href="#">KN-4JTL12</a>  | 15/pkg | \$07cd: |
|              | 10-pole | <a href="#">KN-10J12</a>  | 5/pkg  | \$07a4: | <a href="#">KN-10J10</a>  | 5/pkg  | \$07a3:  | <a href="#">KN-10JTL12</a> | 5/pkg  | \$07ab: |
| Marking Tags |         | KN-L5 Series              |        |         | KN-L5 Series              |        |          | KN-L5 Series               |        |         |

## 1N4007 Diode Information

| RMS Reverse Voltage*                                                     | V (Rrms) | 600V           |
|--------------------------------------------------------------------------|----------|----------------|
| Average Rectified Forward Current<br>Single Phase, Resistive Load, 60 Hz | I (O)    | 1.0 A          |
| Non-Repetitive Peak Surge Current<br>(Surge applied at rated load)       | I (FSM)  | 30 A (1 cycle) |
| Maximum Forward Voltage Drop<br>[I (F) = 1.0 A]                          | V (F)    | 1.1 V          |
| Maximum Reverse Current                                                  | I (R)    | 10 µA          |

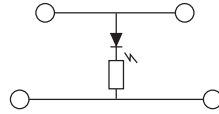
\* The maximum reverse voltage rating of the diode alone is 1000V, but should not exceed the maximum 300V rating of the terminal block.



# Double-Level Terminal Blocks

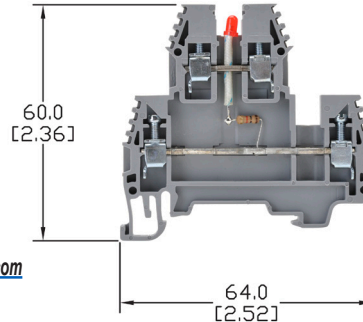
## DC LED Terminal Blocks

- Screw connection terminal
- UL E179129  
(For copper wire only. One conductor in terminal only.)
- CE (EN 60947-7-1)



See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com)  
for complete engineering drawings

Dimensions: mm [in]



### Ordering Information

| Color | Part Number                     | Qty | Price    | Part Number                     | Qty | Price    |
|-------|---------------------------------|-----|----------|---------------------------------|-----|----------|
| Gray  | <a href="#">KN-D12LED-24DC</a>  | 20  | \$-07j#: | <a href="#">KN-D10LED-24DC</a>  | 20  | \$-07jo: |
|       | <a href="#">KN-D12LED-110DC</a> | 20  | \$-07jl: | <a href="#">KN-D10LED-110DC</a> | 20  | \$-07jl: |

### Technical Specifications

| Model                 | KN-D12LED-xxDC                                                                                                               |     |                     | KN-D10LED-xxDC                                                                                                      |     |                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------|-----|---------------------|---------------------------------------------------------------------------------------------------------------------|-----|------------------|
| Width                 | 5mm [0.20 in]                                                                                                                |     |                     | 6mm [0.24 in]                                                                                                       |     |                  |
| Stripping Length      | 9mm [0.35 in]                                                                                                                |     |                     | 9mm [0.35 in]                                                                                                       |     |                  |
| Tightening Torque     | 0.4 N·m [3.5 lb·in]                                                                                                          |     |                     | 0.5 N·m [4.4 lb·in]                                                                                                 |     |                  |
| Density               | 200/m [60 pcs/ft]                                                                                                            |     |                     | 166/m [50 pcs/ft]                                                                                                   |     |                  |
| UL/CSA Approval       | 300V                                                                                                                         | 20A | 26-12 AWG           | 300V                                                                                                                | 30A | 26-10 AWG        |
| CE Conformity         | 24VDC/110VDC                                                                                                                 | 24A | 2.5 mm <sup>2</sup> | 24VDC/110VDC                                                                                                        | 32A | 4mm <sup>2</sup> |
| LED Voltage           | 2 Volts                                                                                                                      |     |                     | 2 Volts                                                                                                             |     |                  |
| Resistor Value        | 10kΩ ( <a href="#">KN-D12LED-24DC</a> ), 2mA, 9-36 VDC<br>56kΩ ( <a href="#">KN-D12LED-110DC</a> ), 2mA, 60-150 VDC          |     |                     | 10kΩ ( <a href="#">KN-D10LED-24DC</a> ), 2mA, 9-36 VDC<br>56kΩ ( <a href="#">KN-D10LED-110DC</a> ), 2mA, 60-150 VDC |     |                  |
| SCCR Rating           | 100kA per Table SB4.1, 2009, UL 508A. Maximum short circuit current rating for unmarked components.                          |     |                     |                                                                                                                     |     |                  |
| Operating Temperature | Ambient air temperature: -67 to 185°F [-55 to 85°C]<br>Relative humidity: 50% max at 104°F [40°C] and 90% max at 68°F [20°C] |     |                     |                                                                                                                     |     |                  |
| Material              | Current Bar: Copper Alloy / Housing: Polyamide 66 / Screws: Zinc Plated Steel                                                |     |                     |                                                                                                                     |     |                  |
| Mounting              | 35mm DIN rail                                                                                                                |     |                     |                                                                                                                     |     |                  |

### Accessories

|              |              |                           |        |         |                           |        |         |
|--------------|--------------|---------------------------|--------|---------|---------------------------|--------|---------|
| End Covers   | Gray         | <a href="#">KN-ECDGRY</a> | 25/pkg | \$07cx: | <a href="#">KN-ECDGRY</a> | 25/pkg | \$07cx: |
| *Jumpers     | 2-pole       | <a href="#">KN-2J12</a>   | 25/pkg | \$07ae: | <a href="#">KN-2J10</a>   | 25/pkg | \$07ad: |
|              | 3-pole       | <a href="#">KN-3J12</a>   | 20/pkg | \$07au: | <a href="#">KN-3J10</a>   | 20/pkg | \$07at: |
|              | 4-pole       | <a href="#">KN-4J12</a>   | 15/pkg | \$07c6: | <a href="#">KN-4J10</a>   | 15/pkg | \$07c5: |
|              | 10-pole      | <a href="#">KN-10J12</a>  | 5/pkg  | \$07a4: | <a href="#">KN-10J10</a>  | 5/pkg  | \$07a3: |
| Marking Tags | KN-L5 Series |                           |        |         | KN-L5 Series              |        |         |

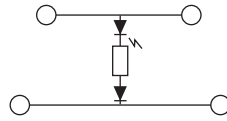
\*Only lower decks can be jumpered.



# Double-Level Terminal Blocks

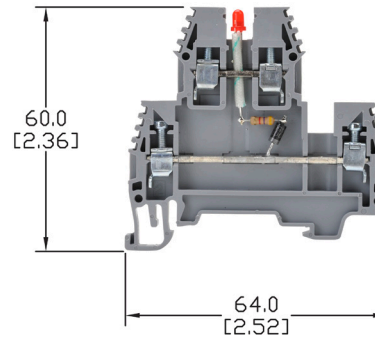
## AC LED Terminal Blocks

- Screw connection terminal
- UL E179129  
(For copper wire only. One conductor in terminal only.)
- CE (EN 60947-7-1)



See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com)  
for complete engineering drawings

Dimensions: mm [in]



### Ordering Information

| Color | Part Number                     | Qty | Price    | Part Number                     | Qty | Price    |
|-------|---------------------------------|-----|----------|---------------------------------|-----|----------|
| Gray  | <a href="#">KN-D12LED-24AC</a>  | 20  | \$-07j_: | <a href="#">KN-D10LED-24AC</a>  | 20  | \$-07jn: |
|       | <a href="#">KN-D12LED-110AC</a> | 20  | \$-07j]: | <a href="#">KN-D10LED-110AC</a> | 20  | \$-07jk: |

### Technical Specifications

| Model                 | KN-D12LED-xxAC                                                                                                               |     |           | KN-D10LED-xxAC                                                                      |     |           |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------|-----|-----------|-------------------------------------------------------------------------------------|-----|-----------|
| Width                 | 5mm [0.20 in]                                                                                                                |     |           | 6mm [0.24 in]                                                                       |     |           |
| Stripping Length      | 9mm [0.35 in]                                                                                                                |     |           | 9mm [0.35 in]                                                                       |     |           |
| Tightening Torque     | 0.4 N·m [3.5 lb·in]                                                                                                          |     |           | 0.5 N·m [4.4 lb·in]                                                                 |     |           |
| Density               | 200/m [60 pcs/ft]                                                                                                            |     |           | 166/m [50 pcs/ft]                                                                   |     |           |
| UL/CSA Approval       | 300V                                                                                                                         | 20A | 26-12 AWG | 300V                                                                                | 30A | 26-10 AWG |
| CE Conformity         | 24VAC/110VAC                                                                                                                 | 24A | 2.5 mm²   | 24VAC/110VAC                                                                        | 32A | 4mm²      |
| LED Voltage           | 2 Volts                                                                                                                      |     |           | 2 Volts                                                                             |     |           |
| Resistor Value        | 4.7kΩ (KN-D12LED-24AC), 2.5 mA, 9-36 VAC<br>33kΩ (KN-D12LED-110AC), 2mA, 60-150 VAC                                          |     |           | 4.7kΩ (KN-D10LED-24AC), 2.5 mA, 9-36 VAC<br>33kΩ (KN-D10LED-110AC), 2mA, 60-150 VAC |     |           |
| SCCR Rating           | 100kA per Table SB4.1, 2009, UL 508A. Maximum short circuit current rating for unmarked components.                          |     |           |                                                                                     |     |           |
| Operating Temperature | Ambient air temperature: -67 to 185°F [-55 to 85°C]<br>Relative humidity: 50% max at 104°F [40°C] and 90% max at 68°F [20°C] |     |           |                                                                                     |     |           |
| Material              | Current Bar: Copper Alloy / Housing: Polyamide 66 / Screws: Zinc Plated Steel                                                |     |           |                                                                                     |     |           |
| Mounting              | 35mm DIN rail                                                                                                                |     |           |                                                                                     |     |           |

### Accessories

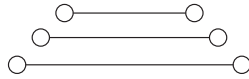
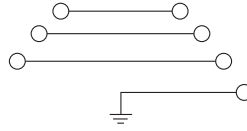
|              |              |                           |        |              |                           |        |         |
|--------------|--------------|---------------------------|--------|--------------|---------------------------|--------|---------|
| End Covers   | Gray         | <a href="#">KN-ECDGRY</a> | 25/pkg | \$07cx:      | <a href="#">KN-ECDGRY</a> | 25/pkg | \$07cx: |
| Jumpers      | 2-pole       | <a href="#">KN-2J12</a>   | 25/pkg | \$07ae:      | <a href="#">KN-2J10</a>   | 25/pkg | \$07ad: |
|              | 3-pole       | <a href="#">KN-3J12</a>   | 20/pkg | \$07au:      | <a href="#">KN-3J10</a>   | 20/pkg | \$07at: |
|              | 4-pole       | <a href="#">KN-4J12</a>   | 15/pkg | \$07c6:      | <a href="#">KN-4J10</a>   | 15/pkg | \$07c5: |
|              | 10-pole      | <a href="#">KN-10J12</a>  | 5/pkg  | \$07a4:      | <a href="#">KN-10J10</a>  | 5/pkg  | \$07a3: |
| Marking Tags | KN-L5 Series |                           |        | KN-L5 Series |                           |        |         |

\*Only lower decks can be jumpered

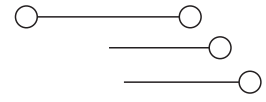




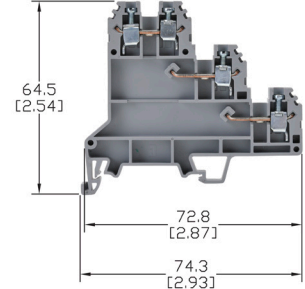
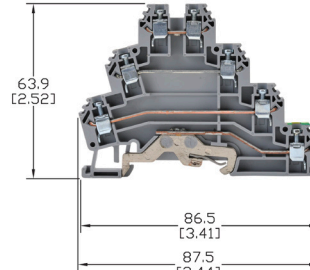
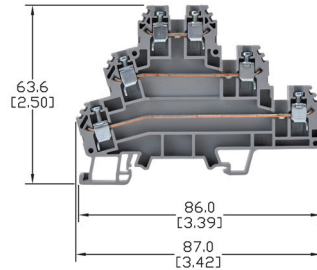
# Triple-Level Terminal Blocks

**KN-TL14**

Dimensions: mm [in]

**KN-TG12****KN-TL14S**

- Designed to make sensor connections more practical
- Ideal for individual cross connections for each layer
- Screw connection terminal
- UL E179129 (For copper wire only. One conductor in terminal only.)
- CE (EN 60947-7-1)

See our website: [www.AutomationDirect.com](https://www.AutomationDirect.com) for complete engineering drawings

## Ordering Information

| Color | Part Number    | Qty | Price   | Part Number    | Qty | Price    | Part Number     | Qty | Price    |
|-------|----------------|-----|---------|----------------|-----|----------|-----------------|-----|----------|
| Gray  | <b>KN-TL14</b> | 20  | \$07a#: | <b>KN-TG12</b> | 20  | \$007a_: | <b>KN-TL14S</b> | 20  | \$;07a!: |

## Technical Specifications

| Model                 | KN-TL14                                                                                                                      |     |           | KN-TG12             |     |           | KN-TL14S                              |     |           |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------|-----|-----------|---------------------|-----|-----------|---------------------------------------|-----|-----------|
| Width                 | 6mm [0.24 in]                                                                                                                |     |           | 6mm [0.24 in]       |     |           | 6mm [0.24 in]                         |     |           |
| Stripping Length      | 8mm [0.31 in]                                                                                                                |     |           | 8mm [0.31 in]       |     |           | 8mm [0.31 in]                         |     |           |
| Tightening Torque     | 0.4 N·m [3.5 lb·in]                                                                                                          |     |           | 0.4 N·m [3.5 lb·in] |     |           | 0.5 N·m [4.4 lb·in]                   |     |           |
| Density               | 166/m [50 pcs/ft]                                                                                                            |     |           | 166/m [50 pcs/ft]   |     |           | 166/m [50 pcs/ft]                     |     |           |
| UL/CSA Approval       | 300V                                                                                                                         | 24A | 24-12 AWG | 300V                | 24A | 24-12 AWG | 300V                                  | 24A | 24-12 AWG |
| CE Conformity         | 440V                                                                                                                         | 24A | 2.5 mm²   | 440V                | 24A | 2.5 mm²   | 550V                                  | 24A | 2.5 mm²   |
| SCCR Rating           | 100kA                                                                                                                        |     |           | 100kA               |     |           | 100kA per Table SB4.1, 2009, UL 508A. |     |           |
| Operating Temperature | Ambient air temperature: -67 to 185°F [-55 to 85°C]<br>Relative humidity: 50% max at 104°F [40°C] and 90% max at 68°F [20°C] |     |           |                     |     |           |                                       |     |           |
| Material              | Current Bar: Copper Alloy / Housing: Polyamide 66 / Screws: Zinc Plated Steel                                                |     |           |                     |     |           |                                       |     |           |
| Mounting              | 35mm DIN rail                                                                                                                |     |           |                     |     |           |                                       |     |           |

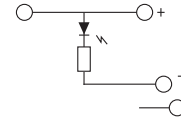
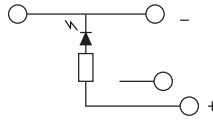
## Accessories

|              |         |                                   |        |         |                                   |        |         |                                   |        |         |
|--------------|---------|-----------------------------------|--------|---------|-----------------------------------|--------|---------|-----------------------------------|--------|---------|
| End Cover    | Gray    | <a href="#"><u>KN-ECTL</u></a>    | 10/pkg | \$;7df: | <a href="#"><u>KN-ECTG12</u></a>  | 10/pkg | \$7de:  | <a href="#"><u>KN-ECTLS</u></a>   | 10/pkg | \$7dg:  |
| Jumpers      | 2-pole  | <a href="#"><u>KN-2JTL12</u></a>  | 25/pkg | \$07aq: | <a href="#"><u>KN-2JTL12</u></a>  | 25/pkg | \$07aq: | <a href="#"><u>KN-2JTL12</u></a>  | 25/pkg | \$07aq: |
|              | 3-pole  | <a href="#"><u>KN-3JTL12</u></a>  | 20/pkg | \$07c3: | <a href="#"><u>KN-3JTL12</u></a>  | 20/pkg | \$07c3: | <a href="#"><u>KN-3JTL12</u></a>  | 20/pkg | \$07c3: |
|              | 4-pole  | <a href="#"><u>KN-4JTL12</u></a>  | 15/pkg | \$07cd: | <a href="#"><u>KN-4JTL12</u></a>  | 15/pkg | \$07cd: | <a href="#"><u>KN-4JTL12</u></a>  | 15/pkg | \$07cd: |
|              | 10-pole | <a href="#"><u>KN-10JTL12</u></a> | 5/pkg  | \$07ab: | <a href="#"><u>KN-10JTL12</u></a> | 5/pkg  | \$07ab: | <a href="#"><u>KN-10JTL12</u></a> | 5/pkg  | \$07ab: |
| Marking Tags |         | KN-L5 Series                      |        |         | KN-L5 Series                      |        |         | KN-L5 Series                      |        |         |



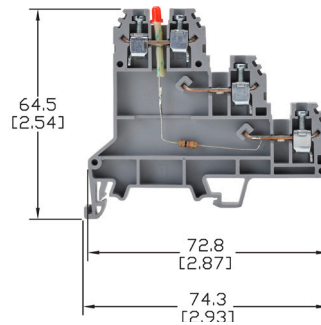
# Triple-Level Terminal Blocks

## Sensor Terminal Blocks with LED

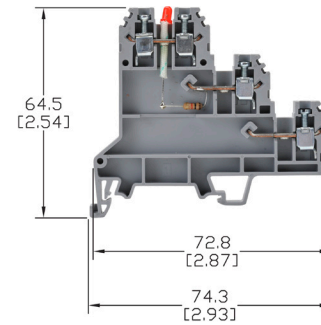


Dimensions: mm [in]

### KN-TL14SLN (for NPN sensors)



### KN-TL14SLP (for PNP sensors)



- Make sensor connections more practical
- Provide individual cross connections for each layer
- Screw connection terminal
- UL E179129  
(For copper wire only. One conductor in terminal only.)
- CE (EN 60947-7-1/  
EN 60947-7-2)

See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings

## Ordering Information

| Color | Part Number                | Qty | Price   | Part Number                | Qty | Price    |
|-------|----------------------------|-----|---------|----------------------------|-----|----------|
| Gray  | <a href="#">KN-TL14SLN</a> | 20  | \$07a?: | <a href="#">KN-TL14SLP</a> | 20  | \$:07a,: |

## Technical Specifications

| Technical Specifications |                                                                                                                              |     |           |                     |     |           |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------|-----|-----------|---------------------|-----|-----------|
| Model                    | KN-TL14SLN                                                                                                                   |     |           | KN-TL14SLP          |     |           |
| Width                    | 6mm [0.24 in]                                                                                                                |     |           | 6mm [0.24 in]       |     |           |
| Stripping Length         | 8mm [0.31 in]                                                                                                                |     |           | 8mm [0.31 in]       |     |           |
| Tightening Torque        | 0.5 N·m [4.4 lb·in]                                                                                                          |     |           | 0.5 N·m [4.4 lb·in] |     |           |
| Density                  | 166/m [50 pcs/ft]                                                                                                            |     |           | 166/m [50 pcs/ft]   |     |           |
| UL/CSA Approval          | 300V                                                                                                                         | 24A | 24-12 AWG | 300V                | 24A | 24-12 AWG |
| CE Conformity            | —                                                                                                                            | 24A | 2.5 mm²   | —                   | 24A | 2.5 mm²   |
| LED Voltage              | 2 Volts                                                                                                                      |     |           | 2 Volts             |     |           |
| Resistor Value           | 10kΩ                                                                                                                         |     |           | 10kΩ                |     |           |
| SCCR Rating              | 100kA per Table SB4.1, 2009, UL 508A. Maximum short circuit current rating for unmarked components.                          |     |           |                     |     |           |
| Operating Temperature    | Ambient air temperature: -67 to 185°F [-55 to 85°C]<br>Relative humidity: 50% max at 104°F [40°C] and 90% max at 68°F [20°C] |     |           |                     |     |           |
| Material                 | Current Bar: Copper Alloy / Housing: Polyamide 66 / Screws: Zinc Plated Steel                                                |     |           |                     |     |           |
| Mounting                 | 35mm DIN rail                                                                                                                |     |           |                     |     |           |

## Accessories

|              |              |                            |        |         |                            |        |         |
|--------------|--------------|----------------------------|--------|---------|----------------------------|--------|---------|
| End Covers   | Gray         | <a href="#">KN-ECTLS</a>   | 10/pkg | \$7dg:  | <a href="#">KN-ECTLS</a>   | 10/pkg | \$7dg:  |
| Jumpers      | 2-pole       | <a href="#">KN-2JTL12</a>  | 25/pkg | \$07aq: | <a href="#">KN-2JTL12</a>  | 25/pkg | \$07aq: |
|              | 3-pole       | <a href="#">KN-3JTL12</a>  | 20/pkg | \$07c3: | <a href="#">KN-3JTL12</a>  | 20/pkg | \$07c3: |
|              | 4-pole       | <a href="#">KN-4JTL12</a>  | 15/pkg | \$07cd: | <a href="#">KN-4JTL12</a>  | 15/pkg | \$07cd: |
|              | 10-pole      | <a href="#">KN-10JTL12</a> | 5/pkg  | \$07ab: | <a href="#">KN-10JTL12</a> | 5/pkg  | \$07ab: |
| Marking Tags | KN-L5 Series |                            |        |         | KN-L5 Series               |        |         |



# Miniature Feed-Through Terminal Blocks

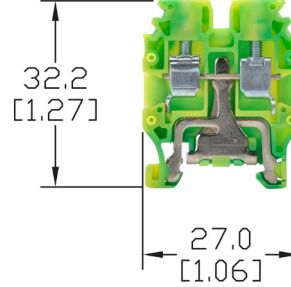
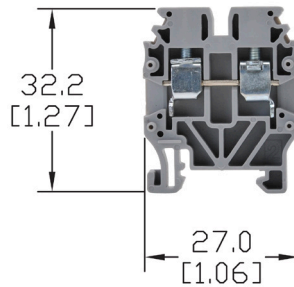


Dimensions: mm [in]

**KN-M12xxx**

**KN-MG12**

- Screw connection terminal
- PE snap-on connection DIN rail
- UL E179129  
(For copper wire only.  
One conductor in  
terminal only.)
- CE (EN 60947-7-1/  
EN 60947-7-2)



See our website: [www.AutomationDirect.com](https://www.AutomationDirect.com) for complete engineering drawings

## Ordering Information

| Color           | Part Number                  | Qty | Price   | Part Number                | Qty | Price     |
|-----------------|------------------------------|-----|---------|----------------------------|-----|-----------|
| Gray            | <a href="#">KN-M12GRY</a>    | 100 | \$07k5: | —                          | —   | —         |
|                 | <a href="#">KN-M12GRY-25</a> | 25  | \$1h30: | —                          | —   | —         |
| Blue            | <a href="#">KN-M12BLU</a>    | 100 | \$07k4: | —                          | —   | —         |
|                 | <a href="#">KN-M12BLU-25</a> | 25  | \$1h31: | —                          | —   | —         |
| Green<br>Yellow | —                            | —   | —       | <a href="#">KN-MG12</a>    | 50  | \$-007jd: |
|                 | —                            | —   | —       | <a href="#">KN-MG12-10</a> | 10  | \$-07je:  |

## Technical Specifications

| Technical Specifications |                                                                                                                              |     |           |                                       |   |           |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------|-----|-----------|---------------------------------------|---|-----------|
| Model                    | KN-M12xxx                                                                                                                    |     |           | KN-MG12                               |   |           |
| Width                    | 5mm [0.20 in]                                                                                                                |     |           | 5mm [0.20 in]                         |   |           |
| Stripping Length         | 10mm [0.39 in]                                                                                                               |     |           | 10mm [0.39 in]                        |   |           |
| Tightening Torque        | 0.4 N·m [3.5 lb·in]                                                                                                          |     |           | 0.4 N·m [3.5 lb·in]                   |   |           |
| Density                  | 200/m [60 pcs/ft]                                                                                                            |     |           | 200/m [60 pcs/ft]                     |   |           |
| UL/CSA Approval          | 300V                                                                                                                         | 20A | 26-12 AWG | —                                     | — | 26-12 AWG |
| CE Conformity            | 400V                                                                                                                         | 24A | 2.5 mm²   | —                                     | — | 2.5 mm²   |
| SCCR Rating              | 100kA                                                                                                                        |     |           | 100kA per Table SB4.1, 2009, UL 508A. |   |           |
| Operating Temperature    | Ambient air temperature: -67 to 185°F [-55 to 85°C]<br>Relative humidity: 50% max at 104°F [40°C] and 90% max at 68°F [20°C] |     |           |                                       |   |           |
| Material                 | Current Bar: Copper Alloy / Housing: Polyamide 66 / Screws: Zinc Plated Steel                                                |     |           |                                       |   |           |
| Mounting                 | 15mm DIN rail                                                                                                                |     |           |                                       |   |           |

## Accessories

|                                         |                  |                              |         |              |                           |        |        |
|-----------------------------------------|------------------|------------------------------|---------|--------------|---------------------------|--------|--------|
| End Covers<br>(International<br>colors) | Gray             | <a href="#">KN-ECMGRY-10</a> | 10/pkg  | \$7d0:       | —                         | —      | —      |
|                                         |                  | <a href="#">KN-ECMGRY</a>    | 100/pkg | \$;07c,:     | —                         | —      | —      |
|                                         | Blue             | <a href="#">KN-ECMBLU</a>    | 10/pkg  | \$;7cl:      | —                         | —      | —      |
|                                         | Green/<br>Yellow | —                            | —       | —            | <a href="#">KN-ECMGRN</a> | 10/pkg | \$7c?: |
| Jumpers                                 | 2-pole           | <a href="#">KN-2JM12</a>     | 25/pkg  | \$07ap:      | —                         | —      | —      |
|                                         | 3-pole           | <a href="#">KN-3JM12</a>     | 20/pkg  | \$;07a[:     | —                         | —      | —      |
|                                         | 4-pole           | <a href="#">KN-4JM12</a>     | 15/pkg  | \$07cc:      | —                         | —      | —      |
|                                         | 10-pole          | <a href="#">KN-10JM12</a>    | 5/pkg   | \$07aa:      | —                         | —      | —      |
| Marking Tags                            | KN-L5 Series     |                              |         | KN-L5 Series |                           |        |        |



# Miniature Feed-Through Terminal Blocks

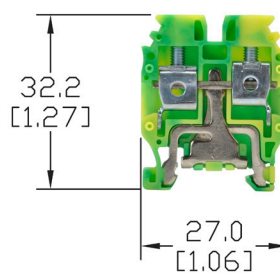
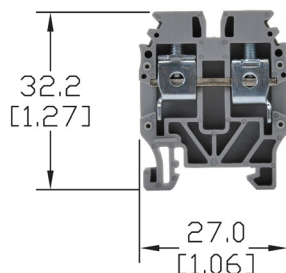


Dimensions: mm [in]

**KN-M10xxx**

**KN-MG10**

- Screw connection terminal
- PE snap-on connection DIN rail
- UL E179129  
(For copper wire only.  
One conductor in terminal only.)
- CE (EN 60947-7-1)



See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings

## Ordering Information

| Color        | Part Number                         | Qty | Price   | Part Number                       | Qty | Price     |
|--------------|-------------------------------------|-----|---------|-----------------------------------|-----|-----------|
| Gray         | <u><a href="#">KN-M10GRY</a></u>    | 100 | \$07k3: | —                                 | —   | —         |
|              | <u><a href="#">KN-M10GRY-25</a></u> | 25  | \$1h32: | —                                 | —   | —         |
| Gray         | <u><a href="#">KN-M10BLU</a></u>    | 100 | \$07k2: | —                                 | —   | —         |
|              | <u><a href="#">KN-M10BLU-25</a></u> | 25  | \$1h33: | —                                 | —   | —         |
| Green Yellow | —                                   | —   | —       | <u><a href="#">KN-MG10</a></u>    | 50  | \$-007jb: |
|              | —                                   | —   | —       | <u><a href="#">KN-MG10-10</a></u> | 10  | \$-07jc:  |

## Technical Specifications

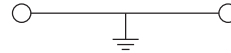
| Technical Specifications |                                                                                                                              |     |           |                                      |   |           |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------|-----|-----------|--------------------------------------|---|-----------|
| Model                    | KN-M10xxx                                                                                                                    |     |           | KN-MG10                              |   |           |
| Width                    | 6mm [0.24 in]                                                                                                                |     |           | 6mm [0.24 in]                        |   |           |
| Stripping Length         | 10mm [0.39 in]                                                                                                               |     |           | 10mm [0.39 in]                       |   |           |
| Tightening Torque        | 0.5 N·m [4.4 lb·in]                                                                                                          |     |           | 0.5 N·m [4.4 lb·in]                  |   |           |
| Density                  | 166/m [50 pcs/ft]                                                                                                            |     |           | 166/m [50 pcs/ft]                    |   |           |
| UL/CSA Approval          | 300V                                                                                                                         | 30A | 26-10 AWG | —                                    | — | 26-10 AWG |
| CE Conformity            | 400V                                                                                                                         | 32A | 4mm²      | —                                    | — | 4mm²      |
| SCCR Rating              | 100kA                                                                                                                        |     |           | 10kA per Table SB4.1, 2009, UL 508A. |   |           |
| Operating Temperature    | Ambient air temperature: -67 to 185°F [-55 to 85°C]<br>Relative humidity: 50% max at 104°F [40°C] and 90% max at 68°F [20°C] |     |           |                                      |   |           |
| Material                 | Current Bar: Copper Alloy / Housing: Polyamide 66 / Screws: Zinc Plated Steel                                                |     |           |                                      |   |           |
| Mounting                 | 15mm DIN rail                                                                                                                |     |           |                                      |   |           |

## Accessories

|              |              |                                     |         |          |                                  |        |        |
|--------------|--------------|-------------------------------------|---------|----------|----------------------------------|--------|--------|
| End Covers   | Gray         | <u><a href="#">KN-ECMGRY-10</a></u> | 10/pkg  | \$7d0:   | —                                | —      | —      |
|              |              | <u><a href="#">KN-ECMGRY</a></u>    | 100/pkg | \$;07c:  | —                                | —      | —      |
|              | Blue         | <u><a href="#">KN-ECMBLU</a></u>    | 10/pkg  | \$;7c:   | —                                | —      | —      |
|              | Green/Yellow | —                                   | —       | —        | <u><a href="#">KN-ECMGRN</a></u> | 10/pkg | \$7c?: |
| Jumpers      | 2-pole       | <u><a href="#">KN-2JM10</a></u>     | 25/pkg  | \$07ao:  | —                                | —      | —      |
|              | 3-pole       | <u><a href="#">KN-3JM10</a></u>     | 20/pkg  | \$;07a): | —                                | —      | —      |
|              | 4-pole       | <u><a href="#">KN-4JM10</a></u>     | 15/pkg  | \$07cb:  | —                                | —      | —      |
|              | 10-pole      | <u><a href="#">KN-10JM10</a></u>    | 5/pkg   | \$07a9:  | —                                | —      | —      |
| Marking Tags |              | KN-L5 Series                        |         |          | KN-L5 Series                     |        |        |



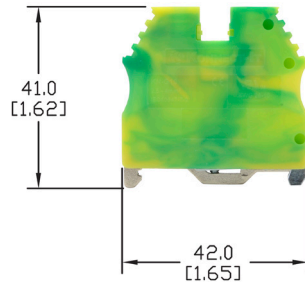
# Ground Terminal Blocks



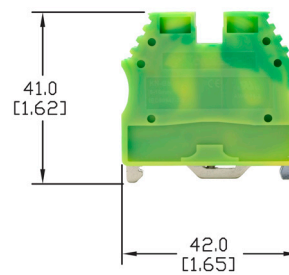
Dimensions: mm [in]

- Screw connection terminal
- PE screw connection DIN Rail
- UL E179129  
(For copper wire only.  
One conductor in terminal only.)
- CE (EN 60947-7-1/  
EN 60947-7-2)
- VDE (IEC 60947-7-1)

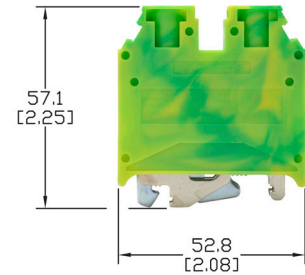
## KN-G10



## KN-G8



## KN-G4



See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings

## Ordering Information

| Color           | Part Number               | Qty | Price     | Part Number              | Qty | Price    | Part Number              | Qty | Price     |
|-----------------|---------------------------|-----|-----------|--------------------------|-----|----------|--------------------------|-----|-----------|
| Green<br>Yellow | <a href="#">KN-G10</a>    | 50  | \$-007dj: | <a href="#">KN-G8</a>    | 25  | \$-07j9: | <a href="#">KN-G4</a>    | 50  | \$-007j7: |
|                 | <a href="#">KN-G10-10</a> | 10  | \$07dk:   | <a href="#">KN-G8-10</a> | 10  | \$-07ja: | <a href="#">KN-G4-10</a> | 10  | \$-07j8:  |

## Technical Specifications

| Model                 | <a href="#">KN-G10</a>                                                                                                     |   |                  | <a href="#">KN-G8</a> |   |                   | <a href="#">KN-G4</a> |   |                   |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------|---|------------------|-----------------------|---|-------------------|-----------------------|---|-------------------|
| Width                 | 6mm [0.24 in]                                                                                                              |   |                  | 10mm [0.39 in]        |   |                   | 12mm [0.47 in]        |   |                   |
| Stripping Length      | 10mm [0.39 in]                                                                                                             |   |                  | 12mm [0.47 in]        |   |                   | 12mm [0.47 in]        |   |                   |
| Tightening Torque     | 0.5 N·m [4.4 lb·in]                                                                                                        |   |                  | 1.2 N·m [10.6 lb·in]  |   |                   | 1.2 N·m [10.6 lb·in]  |   |                   |
| Density               | 166/m [50 pcs/ft]                                                                                                          |   |                  | 100/m [30 pcs/ft]     |   |                   | 83/m [25 pcs/ft]      |   |                   |
| UL/CSA Approval       | —                                                                                                                          | — | 26-10 AWG        | —                     | — | 16-8 AWG          | —                     | — | 12-4 AWG          |
| VDE Approval          | —                                                                                                                          | — | 4mm <sup>2</sup> | —                     | — | 10mm <sup>2</sup> | —                     | — | 16mm <sup>2</sup> |
| CE Conformity         | —                                                                                                                          | — | 4mm <sup>2</sup> | —                     | — | 10mm <sup>2</sup> | —                     | — | 16mm <sup>2</sup> |
| Operating Temperature | Ambient air temperature: -67 to 185°F [-55 to 85°C], Relative humidity: 50% max at 104°F [40°C] and 90% max at 68°F [20°C] |   |                  |                       |   |                   |                       |   |                   |
| SCCR Rating           | 100kA per Table SB4.1, 2009, UL 508A. Maximum short circuit current rating for unmarked components.                        |   |                  |                       |   |                   |                       |   |                   |
| Material              | Current Bar: Copper Alloy / Housing: Polyamide 66 / Screws: Zinc Plated Steel                                              |   |                  |                       |   |                   |                       |   |                   |
| Mounting              | 35mm DIN rail                                                                                                              |   |                  |                       |   |                   |                       |   |                   |

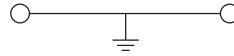
## Accessories

|              |              |                              |                              |
|--------------|--------------|------------------------------|------------------------------|
| Marking Tags | KN-L5 Series | KN-L5 Series<br>KN-L6 Series | KN-L5 Series<br>KN-L6 Series |
|--------------|--------------|------------------------------|------------------------------|



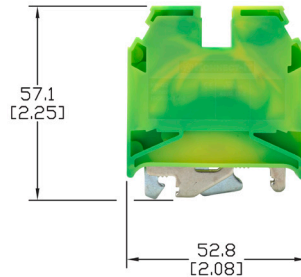


# Ground Terminal Blocks

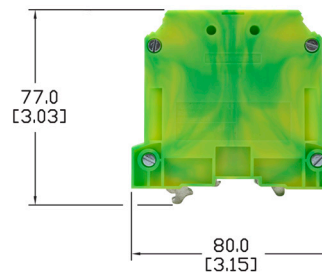


Dimensions: mm [in]

## KN-G2



## KN-G1/0



- Spring clamp terminal
- UL E179129  
(For copper wire only. One conductor in terminal only.)
- CE (EN 60947-7-1/  
EN 60947-7-2)
- VDE (IEC 60947-7-1)

See our website: [www.automationdirect.com](https://www.automationdirect.com) for complete engineering drawings

## Ordering Information

| Color           | Part Number     | Qty | Price     | Part Number      | Qty | Price    |
|-----------------|-----------------|-----|-----------|------------------|-----|----------|
| Green<br>Yellow | <b>KN-G2</b>    | 40  | \$-007j5: | <b>KN-G1/0</b>   | 10  | \$07dh:  |
|                 | <b>KN-G2-10</b> | 10  | \$-07j6:  | <b>KN-G1/0-5</b> | 5   | \$-07di: |

## Technical Specifications

| Model                 | KN-G2                                                                                                                        |   |                   | KN-G1/0            |   |                   |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------|---|-------------------|--------------------|---|-------------------|
| Width                 | 16mm [0.63 in]                                                                                                               |   |                   | 20mm [0.79 in]     |   |                   |
| Stripping Length      | 18mm [0.71 in]                                                                                                               |   |                   | 20mm [0.79 in]     |   |                   |
| Tightening Torque     | 2.5 N·m [22.1 lb·in]                                                                                                         |   |                   | 6 N·m [22.1 lb·in] |   |                   |
| Density               | 62/m [19 pcs/ft]                                                                                                             |   |                   | 50/m [15 pcs/ft]   |   |                   |
| UL/CSA Approval       | —                                                                                                                            | — | 12-2 AWG          | —                  | — | 6-1/0 AWG         |
| VDE Approval          | —                                                                                                                            | — | 35mm <sup>2</sup> | —                  | — | 50mm <sup>2</sup> |
| CE Conformity         | —                                                                                                                            | — | 35mm <sup>2</sup> | —                  | — | 50mm <sup>2</sup> |
| Operating Temperature | Ambient air temperature: -67 to 185°F [-55 to 85°C]<br>Relative humidity: 50% max at 104°F [40°C] and 90% max at 68°F [20°C] |   |                   |                    |   |                   |
| SCCR Rating           | 100kA per Table SB4.1, 2009, UL 508A.<br>Maximum short circuit current rating for unmarked components.                       |   |                   |                    |   |                   |
| Material              | Current Bar: Copper Alloy / Housing: Polyamide 66 / Screws: Zinc Plated Steel                                                |   |                   |                    |   |                   |
| Mounting              | 35mm DIN rail                                                                                                                |   |                   |                    |   |                   |

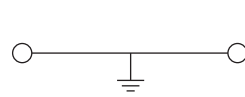
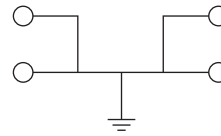
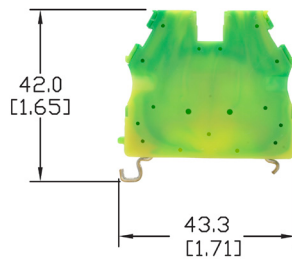
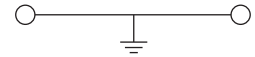
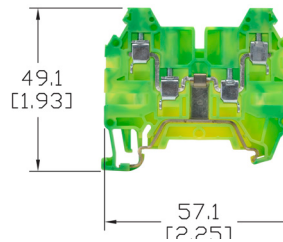
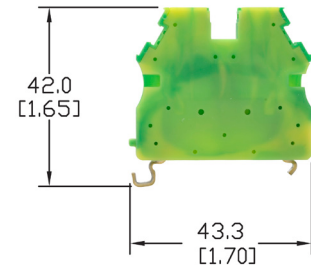
## Accessories

|              |                                |                   |
|--------------|--------------------------------|-------------------|
| Marking Tags | KN-L5 Series<br>KN-L6P5 Series | No tags available |
|--------------|--------------------------------|-------------------|



# Ground Terminal Blocks

- Screw connection terminal
- PE snap-on connection
- UL E179129  
(For copper wire only. One conductor in terminal only.)
- CE (EN 60947-7-1/  
EN 60947-7-2)
- VDE (IEC 60947-7-2)

**KN-G12SP****Dimensions: mm [in]****KN-G12SP4****KN-G10SP**

See our website: [www.AutomationDirect.com](https://www.AutomationDirect.com) for complete engineering drawings

## Ordering Information

| Color           | Part Number        | Qty | Price    | Part Number         | Qty | Price    | Part Number        | Qty | Price     |
|-----------------|--------------------|-----|----------|---------------------|-----|----------|--------------------|-----|-----------|
| Green<br>Yellow | <b>KN-G12SP</b>    | 50  | \$007do: | <b>KN-G12SP4</b>    | 25  | \$-07j3: | <b>KN-G10SP</b>    | 50  | \$-007dl: |
|                 | <b>KN-G12SP-10</b> | 10  | \$07dp:  | <b>KN-G12SP4-10</b> | 10  | \$-07j4: | <b>KN-G10SP-10</b> | 10  | \$07dn:   |

## Technical Specifications

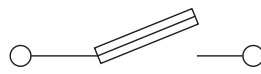
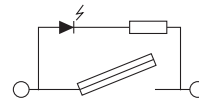
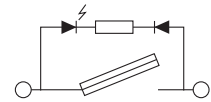
| Model                 | <b>KN-G12SP</b>                                                                                                            |   |           | <b>KN-G12SP4</b>    |   |           | <b>KN-G10SP</b>     |   |           |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------|---|-----------|---------------------|---|-----------|---------------------|---|-----------|
| Width                 | 5.75 mm [0.23 in]                                                                                                          |   |           | 5mm [0.20 in]       |   |           | 6mm [0.24 in]       |   |           |
| Stripping Length      | 10mm [0.39 in]                                                                                                             |   |           | 10mm [0.39 in]      |   |           | 10mm [0.39 in]      |   |           |
| Tightening Torque     | 0.4 N·m [3.5 lb·in]                                                                                                        |   |           | 0.5 N·m [4.4 lb·in] |   |           | 0.5 N·m [4.4 lb·in] |   |           |
| Density               | 53 pcs/ft [173/m]                                                                                                          |   |           | 200/m [60 pcs/ft]   |   |           | 161/m [49 pcs/ft]   |   |           |
| UL/CSA Approval       | —                                                                                                                          | — | 26-12 AWG | —                   | — | 26-12 AWG | —                   | — | 26-10 AWG |
| VDE Approval          | —                                                                                                                          | — | 2.5 mm²   | —                   | — | 2.5 mm²   | —                   | — | 4mm²      |
| CE Conformity         | —                                                                                                                          | — | 2.5 mm²   | —                   | — | 2.5 mm²   | —                   | — | 4mm²      |
| Operating Temperature | Ambient air temperature: -67 to 185°F [-55 to 85°C], Relative humidity: 50% max at 104°F [40°C] and 90% max at 68°F [20°C] |   |           |                     |   |           |                     |   |           |
| SCCR Rating           | 100kA per Table SB4.1, 2009, UL 508A. Maximum short circuit current rating for unmarked components.                        |   |           |                     |   |           |                     |   |           |
| Material              | Current Bar: Copper Alloy / Housing: Polyamide 66 / Screws: Zinc Plated Steel                                              |   |           |                     |   |           |                     |   |           |
| Mounting              | 35mm DIN rail                                                                                                              |   |           |                     |   |           |                     |   |           |

## Accessories

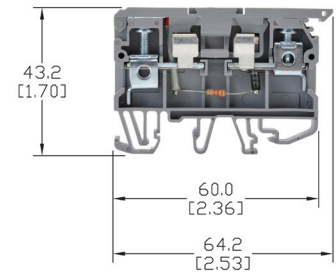
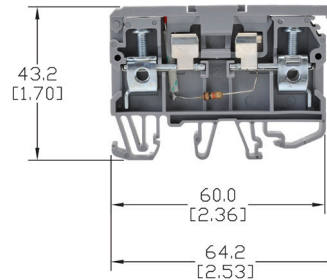
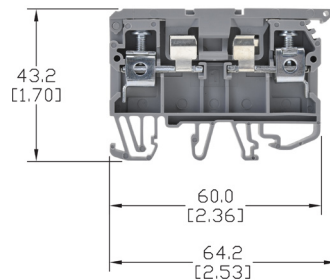
|              |              |   |   |              |                    |        |              |   |   |   |
|--------------|--------------|---|---|--------------|--------------------|--------|--------------|---|---|---|
| End Covers   | Yellow/Green | — | — | —            | <b>KN-ECG12SP4</b> | 10/pkg | \$7c.        | — | — | — |
| Marking Tags | KN-L5 Series |   |   | KN-L5 Series |                    |        | KN-L5 Series |   |   |   |



# 5mm x 20mm Fuse Holder Terminal Blocks

**KN-F10****Dimensions: mm [in]****KN-F10LxxDC****KN-F10LxxAC**

- Screw connection terminal
- UL E179129  
(For copper wire only.  
One conductor in  
terminal only.)
- CE (EN 60947-7-3)
- Fuse series: GMA, GMC,  
S500, S506



See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings

## Ordering Information

| Color | Part Number               | Qty | Price    | Part Number                     | Qty | Price   | Part Number                     | Qty | Price   |
|-------|---------------------------|-----|----------|---------------------------------|-----|---------|---------------------------------|-----|---------|
| Gray  | <a href="#">KN-F10</a>    | 50  | \$007e2: | <a href="#">KN-F10L24DC</a>     | 25  | \$07ee: | <a href="#">KN-F10L24AC</a>     | 25  | \$07ec: |
|       | <a href="#">KN-F10-10</a> | 10  | \$07e3:  | <a href="#">KN-F10L24DC-10</a>  | 10  | \$07ef: | <a href="#">KN-F10L24AC-10</a>  | 10  | \$07ed: |
|       | —                         | —   | —        | <a href="#">KN-F10L110DC</a>    | 25  | \$07e6: | <a href="#">KN-F10L110AC</a>    | 25  | \$07e4: |
|       | —                         | —   | —        | <a href="#">KN-F10L110DC-10</a> | 10  | \$07e7: | <a href="#">KN-F10L110AC-10</a> | 10  | \$07e5: |
|       | —                         | —   | —        | <a href="#">KN-F10L220DC</a>    | 25  | \$07ea: | <a href="#">KN-F10L220AC</a>    | 25  | \$07e8: |
|       | —                         | —   | —        | <a href="#">KN-F10L220DC-10</a> | 10  | \$07eb: | <a href="#">KN-F10L220AC-10</a> | 10  | \$07e9: |

## Technical Specifications

| Technical Specifications |                                                                                                                            |       |          |                                                                                                                  |      |          |                                                                                                                     |       |          |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------|-------|----------|------------------------------------------------------------------------------------------------------------------|------|----------|---------------------------------------------------------------------------------------------------------------------|-------|----------|
| Model                    | KN-F10                                                                                                                     |       |          | KN-F10LxxDC                                                                                                      |      |          | KN-F10LxxAC                                                                                                         |       |          |
| Width                    | 8mm [0.31 in]                                                                                                              |       |          | 8mm [0.31 in]                                                                                                    |      |          | 8mm [0.31 in]                                                                                                       |       |          |
| Stripping Length         | 12mm [0.47 in]                                                                                                             |       |          | 12mm [0.47 in]                                                                                                   |      |          | 12mm [0.47 in]                                                                                                      |       |          |
| Tightening Torque        | 0.8 N·m [7.1 lb·in]                                                                                                        |       |          | 0.8 N·m [7.1 lb·in]                                                                                              |      |          | 0.8 N·m [7.1 lb·in]                                                                                                 |       |          |
| Density                  | 125/m [38 pcs/ft]                                                                                                          |       |          | 125/m [38 pcs/ft]                                                                                                |      |          | 125/m [38 pcs/ft]                                                                                                   |       |          |
| UL/CSA Approval          | 300V                                                                                                                       | 6.3A  | 26-8 AWG | 300V                                                                                                             | 6.3A | 26-8 AWG | 300V                                                                                                                | 6.3A  | 26-8 AWG |
| CE Conformity            | 500V                                                                                                                       | 6.3 A | 6mm²     | 24/110VDC                                                                                                        | 6.3A | 6mm²     | 24/110VAC                                                                                                           | 6.3 A | 6mm²     |
| LED Voltage              | —                                                                                                                          |       |          | 2 Volts                                                                                                          |      |          | —                                                                                                                   |       |          |
| Resistor Value           | —                                                                                                                          |       |          | 10kΩ (KN-F10L24DC), 2mA, 9-36VDC<br>56kΩ (KN-F10L110DC), 2mA, 60-150VDC<br>220kΩ (KN-F10L220DC), 1mA, 100-250VDC |      |          | 4.7kΩ (KN-F10L24AC), 2.5 mA, 9-36VAC<br>33kΩ (KN-F10L110AC), 2mA, 60-150VAC<br>56kΩ (KN-F10L220AC), 2mA, 100-250VAC |       |          |
| Operating Temperature    | Ambient air temperature: -67 to 185°F [-55 to 85°C], Relative humidity: 50% max at 104°F [40°C] and 90% max at 68°F [20°C] |       |          |                                                                                                                  |      |          |                                                                                                                     |       |          |
| SCCR Rating              | 10kA per Table SB4.1, 2009, UL 508A. Maximum short circuit current rating for unmarked components.                         |       |          |                                                                                                                  |      |          |                                                                                                                     |       |          |
| Material                 | Current Bar: Copper Alloy / Housing: Polyamide 66 / Screws: Zinc Plated Steel                                              |       |          |                                                                                                                  |      |          |                                                                                                                     |       |          |
| Mounting                 | 35mm DIN rail                                                                                                              |       |          |                                                                                                                  |      |          |                                                                                                                     |       |          |

## Accessories

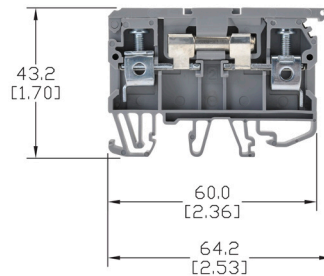
|                   |                                |        |        |                                |        |        |                                |        |        |
|-------------------|--------------------------------|--------|--------|--------------------------------|--------|--------|--------------------------------|--------|--------|
| End Covers / Gray | <a href="#">KN-ECF10</a>       | 25/pkg | \$07c: | <a href="#">KN-ECF10</a>       | 25/pkg | \$07c: | <a href="#">KN-ECF10</a>       | 25/pkg | \$07c: |
| Marking Tags      | KN-L5 Series<br>KN-L6P5 Series |        |        | KN-L5 Series<br>KN-L6P5 Series |        |        | KN-L5 Series<br>KN-L6P5 Series |        |        |



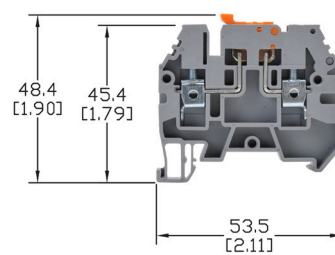
# Disconnect Terminal Blocks

Dimensions: mm [in]

## KN-F10-DCH



## KN-KBD10



- Screw connection terminal
- UL E179129  
(For copper wire only.  
One conductor in terminal only.)
- CE (EN 60947-7-1)



**WARNING: DO NOT DISCONNECT UNDER LOAD**

See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings

## Ordering Information

| Color | Part Number                 | Qty | Price    | Part Number               | Qty | Price    |
|-------|-----------------------------|-----|----------|---------------------------|-----|----------|
| Gray  | <b><u>KN-F10-DCH</u></b>    | 25  | \$07ce:  | <b><u>KN-KBD10</u></b>    | 50  | \$007cg: |
|       | <b><u>KN-F10-DCH-10</u></b> | 10  | \$;07cf: | <b><u>KN-KBD10-10</u></b> | 10  | \$07ch:  |

## Technical Specifications

| Model                 | <b><u>KN-F10-DCH</u></b>                                                                                                     |       |          | <b><u>KN-KBD10</u></b> |     |           |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------|-------|----------|------------------------|-----|-----------|
| Width                 | 8mm [0.31 in]                                                                                                                |       |          | 6.2 mm [0.24 in]       |     |           |
| Stripping Length      | 12mm [0.47 in]                                                                                                               |       |          | 10mm [0.39 in]         |     |           |
| Tightening Torque     | 0.8 N·m [7.1 lb·in]                                                                                                          |       |          | 0.5 N·m [4.4 lb·in]    |     |           |
| Density               | 125/m [38 pcs/ft]                                                                                                            |       |          | 166/m [50 pcs/ft]      |     |           |
| UL/CSA Approval       | 300V                                                                                                                         | 6.3A  | 26-8 AWG | 600V                   | 16A | 26-10 AWG |
| CE Conformity         | 500V                                                                                                                         | 6.3 A | 6mm²     | 500V                   | 16A | 4mm²      |
| Operating Temperature | Ambient air temperature: -67 to 185°F [-55 to 85°C]<br>Relative humidity: 50% max at 104°F [40°C] and 90% max at 68°F [20°C] |       |          |                        |     |           |
| SCCR Rating           | 10kA per Table SB4.1, 2009, UL 508A.<br>Maximum short circuit current rating for unmarked components.                        |       |          |                        |     |           |
| Material              | Current Bar: Copper Alloy / Housing: Polyamide 66 / Screws: Zinc Plated Steel                                                |       |          |                        |     |           |
| Mounting              | 35mm DIN rail                                                                                                                |       |          |                        |     |           |

## Accessories

|              |                                |                        |        |              |                        |        |        |
|--------------|--------------------------------|------------------------|--------|--------------|------------------------|--------|--------|
| End Covers   | Gray                           | <b><u>KN-ECF10</u></b> | 25/pkg | \$;07c[:     | <b><u>KN-ECKBD</u></b> | 10/pkg | \$7c#: |
| Marking Tags | KN-L5 Series<br>KN-L6P5 Series |                        |        | KN-L5 Series |                        |        |        |



# 100kA Terminal Block Short-Circuit Current Rating Data

| Short-Circuit Current Rating Data |                                       |       |                             |         |           |           |         |          |             |           |
|-----------------------------------|---------------------------------------|-------|-----------------------------|---------|-----------|-----------|---------|----------|-------------|-----------|
| Part Number                       | Suitable Copper Conductor Range (AWG) |       | Fuse Class Maximum Amperage |         |           |           |         |          | SCCR Rating | Volts Max |
|                                   | Line                                  | Load  | Class J                     | Class T | Class RK1 | Class RK5 | Class G | Class CC |             |           |
| <b>KN-T12</b> <sup>2</sup>        | 26-12                                 | 26-12 | 20                          | 20      | —         | —         | 20      | 20       | 100 kA      | 600       |
| <b>KN-T10</b> <sup>2</sup>        | 26-10                                 | 26-10 | 30                          | 30      | —         | —         | 30      | 30       | 100 kA      | 600       |
| <b>KN-T8</b> <sup>2</sup>         | 26-8                                  | 26-8  | 50                          | 50      | 30        | —         | 45      | 30       | 100 kA      | 600       |
| <b>KN-T6</b> <sup>2</sup>         | 16-6                                  | 16-6  | 80                          | 80      | 60        | 30        | 60      | 30       | 100 kA      | 600       |
| <b>KN-T4</b> <sup>2</sup>         | 12-4                                  | 12-4  | 80                          | 80      | 60        | 30        | 60      | 30       | 100 kA      | 600       |
| <b>KN-T2</b> <sup>2</sup>         | 12-2                                  | 12-2  | 125                         | 125     | 100       | 30        | 60      | 30       | 100 kA      | 600       |
| <b>KN-T1/0</b> <sup>3</sup>       | 6-1/0                                 | 6-1/0 | 150                         | 150     | 100       | 30        | 60      | 30       | 100 kA      | 600       |
| <b>KN-T2/0</b> <sup>3</sup>       | 6-2/0                                 | 6-2/0 | 225                         | 225     | 100       | 60        | 60      | 30       | 100 kA      | 600       |
| <b>KN-D12</b> <sup>1</sup>        | 26-12                                 | 26-12 | 20                          | 20      | —         | —         | 20      | 20       | 100 kA      | 600       |
| <b>KN-D10</b> <sup>1</sup>        | 26-10                                 | 26-10 | 30                          | 30      | —         | —         | 30      | 30       | 100 kA      | 600       |
| <b>KN-TL14</b> <sup>2</sup>       | 24-12                                 | 24-12 | 30                          | 30      | —         | —         | 30      | 30       | 100 kA      | 600       |
| <b>KN-TG12</b> <sup>2</sup>       | 24-12                                 | 24-12 | 30                          | 30      | —         | —         | 30      | 30       | 100 kA      | 600       |
| <b>KN-M12</b> <sup>2</sup>        | 26-12                                 | 26-12 | 30                          | 30      | —         | —         | 30      | 30       | 100 kA      | 600       |
| <b>KN-M10</b> <sup>2</sup>        | 14-12                                 | 14-12 | 30                          | 30      | —         | —         | 30      | 30       | 100 kA      | 600       |

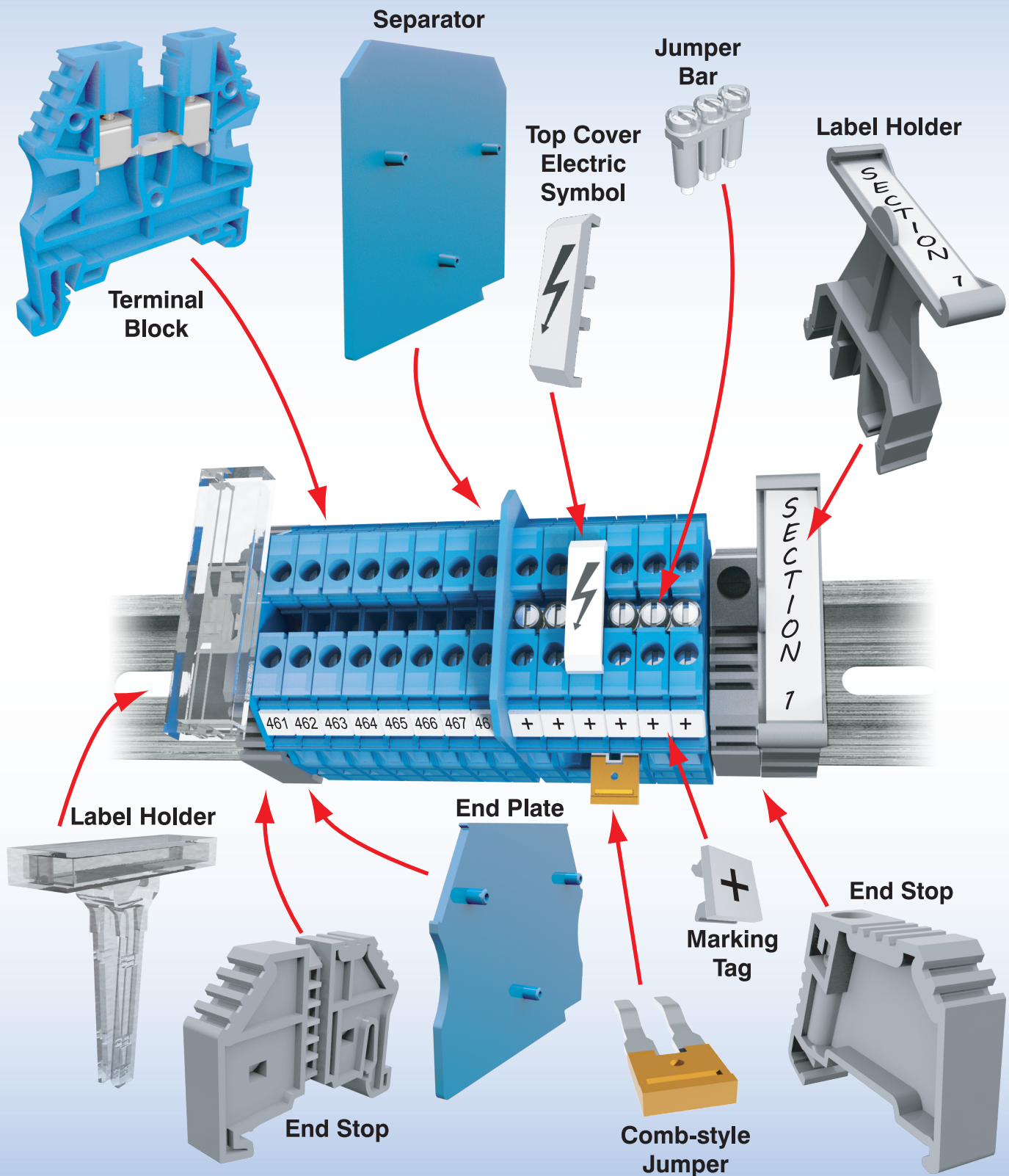
Note: <sup>1</sup> KN-D12 and KN-D10 have optional short circuit rating evaluated for use with copper conductors only. Must be protected by the max ampere and Class of overcurrent protective device noted above.

<sup>2</sup> The terminal block short-circuit rating for KN-D12 and KN-D10 were determined based on testing in a minimum size enclosure measuring 4x4x6 inches. The suitability of smaller enclosures shall be determined in the end-use investigation.

<sup>3</sup> The terminal block short-circuit rating for KN-T1/0 and KN-T2/0 were determined based on testing in a minimum size enclosure measuring 12x12x6 inches. The suitability of smaller enclosures shall be determined in the end-use investigation.

# **KONNECT-IT**<sup>®</sup> TERMINAL BLOCKS

# ACCESSORIES







# KONNECT-IT Accessories

## Multi-Pole Jumper Bars

Multi-pole jumper bars provide terminal block connection flexibility. Screw-down connection jumpers feature all-metal construction and can be installed quickly just by tightening the screws. Screwless comb-style jumpers are also available. See next page for the larger J1/0 jumper installation instructions.

KN-10J12



KN-2JM12



KN-2JCC8



### Multi-Pole Jumper Bars Ordering Information

| Type                  | Part Number                | Price   | Qty | Number of Poles | Rating     | Tightening Torque                | Dimensions - mm [in] |              |                | Fig. | Works With                                                            |
|-----------------------|----------------------------|---------|-----|-----------------|------------|----------------------------------|----------------------|--------------|----------------|------|-----------------------------------------------------------------------|
|                       |                            |         |     |                 |            |                                  | Height               | Length       | Width          |      |                                                                       |
| Screw-down connection | <a href="#">KN-2J12</a>    | \$07ae: | 25  | 2               | 750V 24A   | 0.4– 0.6 Nm<br>[ 3.5–5.3 lb-in]  | 15.8<br>[0.62]       | 10.1 [0.40]  | 4.4<br>[0.17]  | 1    | KN-T12xx<br>KN-D12xx<br>KN-D12X<br>KN-D12DR1<br>KN-D12LEDxx           |
|                       | <a href="#">KN-3J12</a>    | \$07au: | 20  | 3               |            |                                  |                      | 15.3 [0.60]  |                |      |                                                                       |
|                       | <a href="#">KN-4J12</a>    | \$07c6: | 15  | 4               |            |                                  |                      | 20.4 [0.80]  |                |      |                                                                       |
|                       | <a href="#">KN-10J12</a>   | \$07a4: | 5   | 10              |            |                                  |                      | 51.1 [2.01]  |                |      |                                                                       |
|                       | <a href="#">KN-2J10</a>    | \$07ad: | 25  | 2               | 750V 32A   | 0.6– 0.8 Nm<br>[5.3–7.1 Lb-In]   | 15.5<br>[0.61]       | 10.8 [0.43]  | 6.0<br>[0.24]  | 1    | KN-T10xx<br>KN-D10xx<br>KN-D10X<br>KN-D10DR1<br>KN-D10LEDxx           |
|                       | <a href="#">KN-3J10</a>    | \$07at: | 20  | 3               |            |                                  |                      | 17.0 [0.67]  |                |      |                                                                       |
|                       | <a href="#">KN-4J10</a>    | \$07c5: | 15  | 4               |            |                                  |                      | 23.0 [0.91]  |                |      |                                                                       |
|                       | <a href="#">KN-10J10</a>   | \$07a3: | 5   | 10              |            |                                  |                      | 59.0 [2.32]  |                |      |                                                                       |
|                       | <a href="#">KN-2J8</a>     | \$07ai: | 25  | 2               | 630V 41A   | 0.6– 0.8 Nm<br>[5.3–7.1 lb-In]   | 15.5<br>[0.61]       | 14.3 [0.56]  | 6.0<br>[0.24]  | 1    | KN-T8xx                                                               |
|                       | <a href="#">KN-3J8</a>     | \$07az: | 20  | 3               |            |                                  |                      | 22.3 [0.88]  |                |      |                                                                       |
|                       | <a href="#">KN-4J8</a>     | \$07ca: | 15  | 4               |            |                                  |                      | 30.3 [1.19]  |                |      |                                                                       |
|                       | <a href="#">KN-10J8</a>    | \$07a8: | 5   | 10              |            |                                  |                      | 78.3 [3.08]  |                |      |                                                                       |
|                       | <a href="#">KN-2J6</a>     | \$07ah: | 25  | 2               | 630V 57A   | 0.6– 0.8 Nm<br>[5.3–7.1 lb-In]   | 15.5<br>[0.61]       | 18.0 [0.71]  | 6.0<br>[0.24]  | 1    | KN-T6xx                                                               |
|                       | <a href="#">KN-3J6</a>     | \$07ay: | 20  | 3               |            |                                  |                      | 28.0 [1.10]  |                |      |                                                                       |
|                       | <a href="#">KN-4J6</a>     | \$07c9: | 15  | 4               |            |                                  |                      | 38.0 [1.50]  |                |      |                                                                       |
|                       | <a href="#">KN-10J6</a>    | \$07a7: | 5   | 10              |            |                                  |                      | 98.0 [3.86]  |                |      |                                                                       |
|                       | <a href="#">KN-2J4</a>     | \$07ag: | 25  | 2               | 750V 76A   | 0.6– 0.8 Nm<br>[5.3–7.1 lb-In]   | 23.0<br>[0.91]       | 21.0 [0.83]  | 6.0<br>[0.24]  | 1    | KN-T4xx                                                               |
|                       | <a href="#">KN-3J4</a>     | \$07ax: | 20  | 3               |            |                                  |                      | 33.0 [1.30]  |                |      |                                                                       |
|                       | <a href="#">KN-4J4</a>     | \$07c8: | 15  | 4               |            |                                  |                      | 45.0 [1.77]  |                |      |                                                                       |
|                       | <a href="#">KN-10J4</a>    | \$07a6: | 5   | 10              |            |                                  |                      | 117.0 [4.61] |                |      |                                                                       |
|                       | <a href="#">KN-2J2</a>     | \$07af: | 25  | 2               | 750V 125A  | 1.2–1.4 Nm<br>[10.6–12.4 lb-In]  | 21.0<br>[0.83]       | 29.0 [1.14]  | 8.0<br>[0.31]  | 1    | KN-T2xx                                                               |
|                       | <a href="#">KN-3J2</a>     | \$07av: | 20  | 3               |            |                                  |                      | 45.0 [1.77]  |                |      |                                                                       |
|                       | <a href="#">KN-4J2</a>     | \$07c7: | 15  | 4               |            |                                  |                      | 61.0 [2.40]  |                |      |                                                                       |
|                       | <a href="#">KN-10J2</a>    | \$07a5: | 5   | 10              |            |                                  |                      | 157.0 [6.18] |                |      |                                                                       |
|                       | <a href="#">KN-2J1/0</a>   | \$07ac: | 5   | 2               | 1000V 150A | 2.5–3.5 Nm<br>[22.1–31.0 lb-In]  | 22.3<br>[0.88]       | 36.0 [1.42]  | 12.0<br>[0.47] | 2    | KN-T1/0xx                                                             |
|                       | <a href="#">KN-3J1/0</a>   | \$07as: | 5   | 3               |            |                                  |                      | 56.0 [2.20]  |                |      |                                                                       |
|                       | <a href="#">KN-4J1/0</a>   | \$07c4: | 5   | 4               |            |                                  |                      | 76.0 [2.99]  |                |      |                                                                       |
|                       | <a href="#">KN-2JTL12</a>  | \$07aq: | 25  | 2               | 440V 24A   | 0.4–0.6 Nm<br>[ 3.5 - 5.3 lb-In] | 15.5<br>[0.61]       | 11.0 [0.43]  | 4.4<br>[0.17]  | 1    | KN-DG12<br>KN-TG12<br>KN-TL14<br>KN-TL14S<br>KN-TL14SLN<br>KN-TL14SLP |
|                       | <a href="#">KN-3JTL12</a>  | \$07c3: | 20  | 3               |            |                                  |                      | 17.0 [0.67]  |                |      |                                                                       |
|                       | <a href="#">KN-4JTL12</a>  | \$07cd: | 15  | 4               |            |                                  |                      | 23.0 [0.91]  |                |      |                                                                       |
|                       | <a href="#">KN-10JTL12</a> | \$07ab: | 5   | 10              |            |                                  |                      | 59.0 [2.32]  |                |      |                                                                       |
| Push-in Connection    | <a href="#">KN-2JM10</a>   | \$07ao: | 25  | 2               | 750V 32A   | –                                | 23.2<br>[0.91]       | 9.5 [0.37]   | 2.7<br>[0.11]  | 3    | KN-M10xx<br>KN-KBD10                                                  |
|                       | <a href="#">KN-3JM10</a>   | \$07aj: | 20  | 3               |            |                                  |                      | 15.5 [0.61]  |                |      |                                                                       |
|                       | <a href="#">KN-4JM10</a>   | \$07cb: | 15  | 4               |            |                                  |                      | 21.5 [0.85]  |                |      |                                                                       |
|                       | <a href="#">KN-10JM10</a>  | \$07a9: | 5   | 10              |            |                                  |                      | 57.5 [2.26]  |                |      |                                                                       |
|                       | <a href="#">KN-2JM12</a>   | \$07ap: | 25  | 2               | 750V 24A   | –                                | 21.7<br>[0.85]       | 8.0 [0.31]   | 2.3<br>[0.09]  | 3    | KN-M12xx<br>KN-T12SP4                                                 |
|                       | <a href="#">KN-3JM12</a>   | \$07a[: | 20  | 3               |            |                                  |                      | 13.0 [0.51]  |                |      |                                                                       |
|                       | <a href="#">KN-4JM12</a>   | \$07cc: | 15  | 4               |            |                                  |                      | 18.0 [0.71]  |                |      |                                                                       |
|                       | <a href="#">KN-10JM12</a>  | \$07aa: | 5   | 10              |            |                                  |                      | 48.0 [1.89]  |                |      |                                                                       |
| Screwless Comb-style  | <a href="#">KN-2JCC12</a>  | \$07ak: | 25  | 2               | 750V 24A   | –                                | 23.7<br>[0.93]       | 8.0 [0.31]   | 2.8<br>[0.11]  | 4    | KN-T12xx                                                              |
|                       | <a href="#">KN-2JCC10</a>  | \$07aj: | 25  |                 | 750V 32A   | –                                | 24.7<br>[0.97]       | 9.5 [0.37]   |                |      | KN-T10xx                                                              |
|                       | <a href="#">KN-2JCC8</a>   | \$07an: | 25  |                 | 630V 41A   | –                                | 25.6<br>[1.01]       | 13.5 [0.53]  |                |      | KN-T8xx                                                               |
|                       | <a href="#">KN-2JCC6</a>   | \$07al: | 25  |                 | 630V 57A   | –                                | 26.7<br>[1.05]       | 16.0 [0.63]  |                |      | KN-T6xx                                                               |

Figure 1

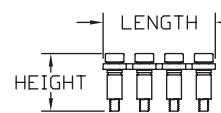


Figure 2

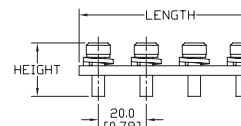


Figure 3

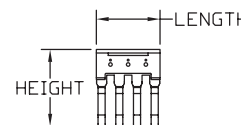
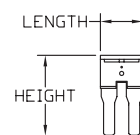


Figure 4

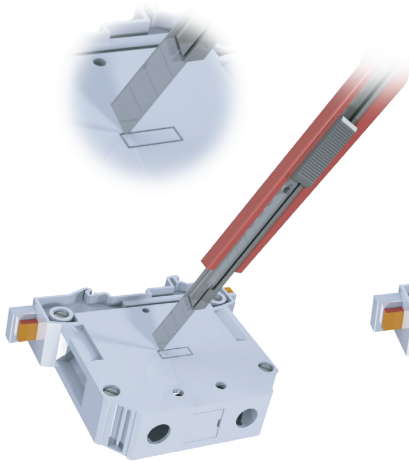


Please visit our website  
[www.AutomationDirect.com](http://www.AutomationDirect.com)  
for complete engineering drawings.

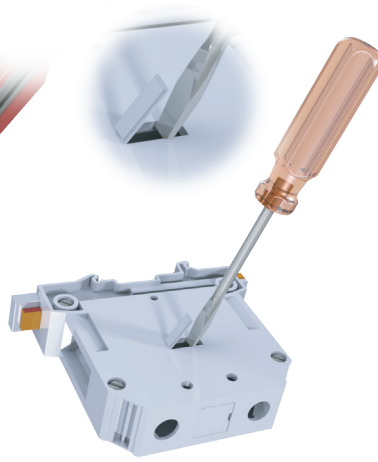


# J1/0 Jumper Installation Instructions

## Score Knockout Panel



## Remove Knockout Panel



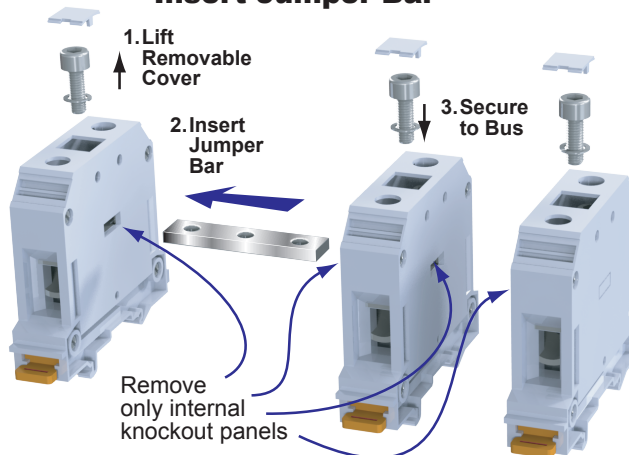
### Applicable to terminal blocks

- KN-T1/0GRY
- [KN-T1/0GRY-10](#)
- KN-T1/0BLU
- [KN-T1/0BLU-10](#)

### Applicable to jumpers

- KN-2J1/0
- KN-3J1/0
- [KN-4J1/0](#)

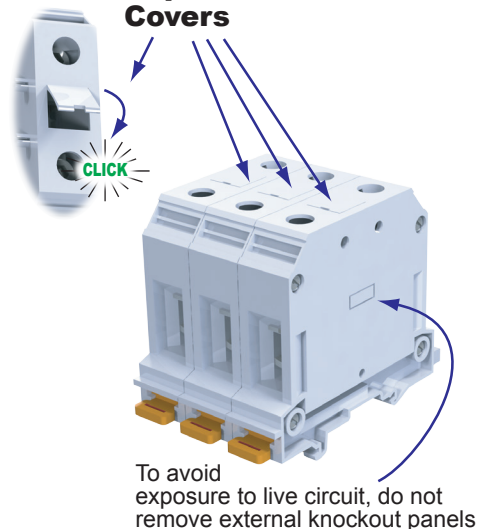
## Insert Jumper Bar



**IMPORTANT!** To avoid shock hazard

- Leave external knockout panels intact
- Install removable covers into original position.

## Replace Removable Covers



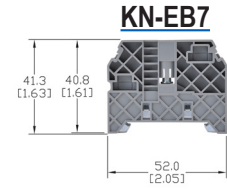
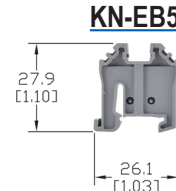
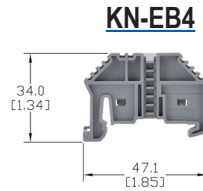
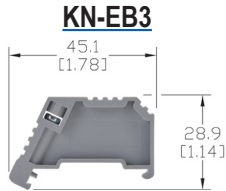


# KONNECT-IT® Accessories

## End Brackets

End brackets prevent terminal blocks and other DIN rail mount components and devices from moving laterally on the rail. They are constructed from polyamide 66 and available in configurations for 35mm and 15mm DIN rails.

Dimensions mm [in]



### End Brackets Ordering Information

|                      |                  |         |          |                  |         |         |                  |         |         |                  |        |         |
|----------------------|------------------|---------|----------|------------------|---------|---------|------------------|---------|---------|------------------|--------|---------|
| Gray<br>End Brackets | <b>KN-EB3</b>    | 100/pkg | \$-07ci: | <b>KN-EB4</b>    | 100/pkg | \$07ck: | <b>KN-EB5</b>    | 100/pkg | \$07cn: | <b>KN-EB7</b>    | 50/pkg | \$07cp: |
|                      | <b>KN-EB3-10</b> | 10/pkg  | \$-7cj:  | <b>KN-EB4-10</b> | 10/pkg  | \$-7cl: | <b>KN-EB5-10</b> | 10/pkg  | \$7co:  | <b>KN-EB7-10</b> | 10/pkg | \$07cq: |

### Technical Specifications

| Description   | Screw-type end bracket                                        | Screwless end bracket | Screwless end bracket | Screw-type end bracket |
|---------------|---------------------------------------------------------------|-----------------------|-----------------------|------------------------|
| Bracket Width | 8 mm [0.31 in]                                                | 8 mm [0.31 in]        | 8 mm [0.31 in]        | 10 mm [0.39 in]        |
| Mounting      | 35mm DIN rail                                                 | 35mm DIN rail         | 15mm DIN rail         | 35mm DIN rail          |
| Material      | Housing: Polyamide 66 / Clamping Connector: Zinc Plated Steel |                       |                       |                        |

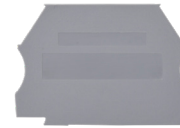
### End Bracket Accessories

|              |                                |   |   |                   |        |         |   |   |   |                   |        |         |
|--------------|--------------------------------|---|---|-------------------|--------|---------|---|---|---|-------------------|--------|---------|
| Label Holder | —                              | — | — | <b>KN-MA-1</b>    | 25/pkg | \$059e: | — | — | — | <b>KN-MA-2</b>    | 50/pkg | \$059g: |
|              | —                              | — | — | <b>KN-MA-1-10</b> | 10/pkg | \$059f: | — | — | — | <b>KN-MA-2-10</b> | 10/pkg | \$059h: |
| Marking Tags | KN-L5 Series or KN-L6P5 Series |   |   |                   |        |         |   |   |   |                   |        |         |

## End Covers

End covers are used to cover the open side of sectional DIN rail mount terminal blocks. They should be used at the end of an assembly of identical terminal blocks or whenever there is a change in the physical size of the terminal block.

Material: Polyamide 66



### End Covers Ordering Information

| Part Number          | Color  | Dimensions<br>H x L x W<br>mm [in] | Works<br>With                      | Qty | Price   | Part Number         | Color           | Dimensions<br>H x L x W<br>mm [in] | Works<br>With      | Qty | Price   |
|----------------------|--------|------------------------------------|------------------------------------|-----|---------|---------------------|-----------------|------------------------------------|--------------------|-----|---------|
| <b>KN-ECT6GRY</b>    | Gray   | 34.0x42.7x1.3<br>[1.34x1.68x0.05]  | KN-T12<br>KN-T10<br>KN-T8<br>KN-T6 | 100 | \$07d8: | <b>KN-ECDORG</b>    | Orange          | 48.2x63.2x1.3<br>[1.90x2.49x0.05]  | KN-D10<br>KN-D12   | 10  | \$7cy:  |
| <b>KN-ECT6GRY-25</b> | Gray   |                                    |                                    | 25  | \$7d9:  | <b>KN-ECDRED</b>    | Red             |                                    |                    |     | \$7cz:  |
| <b>KN-ECT6BLU</b>    | Blue   |                                    |                                    |     | \$7d5:  | <b>KN-ECDYEL</b>    | Yellow          |                                    |                    |     | \$7cj:  |
| <b>KN-ECT6BLK</b>    | Black  |                                    |                                    |     | \$7d4:  | <b>KN-ECTL</b>      | Gray            | 54.7x87.1x1.3<br>[2.15x3.43x0.05]  | KN-TL14            | 10  | \$7df:  |
| <b>KN-ECT6BRN</b>    | Brown  |                                    |                                    |     | \$7d6:  | <b>KN-ECTLS</b>     | Gray            | 54.7x72.8x1.2<br>[2.15x2.87x0.05]  | KN-TL14S           | 10  | \$7dg:  |
| <b>KN-ECT6GRN</b>    | Green  |                                    |                                    | 10  | \$7d7:  | <b>KN-ECDG12</b>    | Gray            | 48.0x71.4x1.2<br>[1.89x2.81x0.05]  | KN-DG12            | 10  | \$7cu:  |
| <b>KN-ECT6ORG</b>    | Orange |                                    |                                    |     | \$7da:  | <b>KN-ECTG12</b>    | Gray            | 62.5x87.5x1.2<br>[2.46x3.44x0.05]  | KN-TG12            | 10  | \$7de:  |
| <b>KN-ECT6RED</b>    | Red    |                                    |                                    |     | \$7db:  | <b>KN-ECMGRY</b>    | Gray            | 28.1x27.0x3.0<br>[1.11x1.06x0.12]  | KN-M12<br>KN-M10   | 100 | \$07c:  |
| <b>KN-ECT6WHT</b>    | White  |                                    |                                    |     | \$7dc:  | <b>KN-ECMGRY-10</b> | Gray            |                                    |                    | 10  | \$7d0:  |
| <b>KN-ECT6YEL</b>    | Yellow |                                    |                                    |     | \$7dd:  | <b>KN-ECMBLU</b>    | Blue            |                                    |                    |     | \$7cl:  |
| <b>KN-ECT4GRY</b>    | Gray   | 45.7x52.8x1.2<br>[1.80x2.08x0.05]  | KN-T4                              | 25  | \$07d3: | <b>KN-ECMGRN</b>    | Green<br>Yellow | 28.1x27.0x3.0<br>[1.11x1.06x0.12]  | KN-MG12<br>KN-MG10 | 10  | \$7c?:  |
| <b>KN-ECT4BLU</b>    | Blue   |                                    |                                    | 10  | \$7d2:  | <b>KN-ECG12SP4</b>  | Green<br>Yellow | 39.7x57.1x1.2<br>[1.56x2.25x0.05]  | KN-G12SP4          | 10  | \$7c_:  |
| <b>KN-ECDGRY</b>     | Gray   | 48.2x63.2x1.3<br>[1.90x2.49x0.05]  | KN-D10<br>KN-D12                   | 25  | \$07cx: | <b>KN-ECT12SP4</b>  | Gray            | 39.7x57.1x1.2<br>[1.56x2.25x0.05]  | KN-T12SP4          | 25  | \$07d1: |
| <b>KN-ECDBLU</b>     | Blue   |                                    |                                    | 10  | \$7ct:  | <b>KN-ECF10</b>     | Gray            | 27.3x59.6x1.2<br>[1.07x2.35x0.05]  | KN-F10             | 25  | \$07cl: |
| <b>KN-ECDBLK</b>     | Black  |                                    |                                    |     | \$7cs:  | <b>KN-ECKBD</b>     | Gray            | 37.1x53.5x1.2<br>[1.46x2.11x0.05]  | KN-KDB10           | 10  | \$7c#:  |
| <b>KN-ECDGRN</b>     | Green  |                                    |                                    |     | \$7cv:  |                     |                 |                                    |                    |     |         |



# KONNECT-IT® Accessories

## Separators

Separators are used to segment banks of terminal blocks. Allows you to maintain a single row of terminal blocks, but have separate power source clusters.

| Separators Ordering Information |        |                                    |                      |             |            |     |          |
|---------------------------------|--------|------------------------------------|----------------------|-------------|------------|-----|----------|
| Part Number                     | Color  | Works With                         | Dimensions - mm [in] |             |            | Qty | Price    |
|                                 |        |                                    | Height               | Length      | Thickness  |     |          |
| <a href="#">KN-ST1GRY</a>       | Gray   | KN-T12<br>KN-T10<br>KN-T8<br>KN-T6 | 39.0 [1.54]          | 42.5 [1.67] | 1.2 [0.05] | 25  | \$07dv:  |
| <a href="#">KN-ST1BLU</a>       | Blue   |                                    |                      |             |            | 10  | \$7ds:   |
| <a href="#">KN-ST1BLK</a>       | Black  |                                    |                      |             |            |     | \$7dq:   |
| <a href="#">KN-ST1BRN</a>       | Brown  |                                    |                      |             |            |     | \$;7dt:  |
| <a href="#">KN-ST1GRN</a>       | Green  |                                    |                      |             |            |     | \$7du:   |
| <a href="#">KN-ST1ORG</a>       | Orange |                                    |                      |             |            |     | \$7dx:   |
| <a href="#">KN-ST1RED</a>       | Red    |                                    |                      |             |            |     | \$7dy:   |
| <a href="#">KN-ST1WHT</a>       | White  |                                    |                      |             |            |     | \$7dz:   |
| <a href="#">KN-ST1YEL</a>       | Yellow |                                    |                      |             |            |     | \$;7d]:  |
| <a href="#">KN-ST2GRY</a>       | Gray   | KN-T4                              | 52.5 [2.07]          | 50.5 [1.99] | 1.5 [0.06] | 25  | \$07d_:  |
| <a href="#">KN-ST2BLU</a>       | Blue   | KN-T2                              | 62.6 [2.46]          | 53.1 [2.09] | 1.5 [0.06] | 10  | \$;07d[: |
| <a href="#">KN-ST3GRY</a>       | Gray   |                                    |                      |             |            |     | \$;7dl:  |
| <a href="#">KN-ST3BLU</a>       | Blue   |                                    |                      |             |            |     | \$7d#:   |

**KN-ST1GRY**



## Top Covers and Label Holders

| Top Covers and Label Holders Ordering Information |                                                                                                                                                        |                                    |                      |                |                |     |          |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------|----------------|----------------|-----|----------|
| Part Number                                       | Description                                                                                                                                            | Works With                         | Dimensions - mm [in] |                |                | Qty | Price    |
|                                                   |                                                                                                                                                        |                                    | Height               | Length         | Width          |     |          |
| <a href="#">KN-TC-1</a>                           | Top cover for Konnect-It terminal block, blank, white                                                                                                  | KN-T12<br>KN-T10<br>KN-T8<br>KN-T6 | 6.8<br>[0.27]        | 29.0<br>[1.14] | 5.8<br>[0.23]  | 25  | \$7d?:   |
| <a href="#">KN-TC-1S</a>                          | Top cover for Konnect-It terminal block, printed electric symbol, white                                                                                |                                    |                      |                |                | 25  | \$;07d,: |
| <a href="#">KN-TC-2</a>                           | Top cover for Konnect-It terminal block, blank, white                                                                                                  |                                    |                      |                |                | 25  | \$07e0:  |
| <a href="#">KN-TC-2S</a>                          | Top cover for Konnect-It terminal block, printed electric symbol, white                                                                                | KN-T4<br>KN-T2                     | 7.3<br>[0.29]        | 35.8<br>[1.41] | 9.0<br>[0.35]  | 25  | \$07e1:  |
| <a href="#">KN-MA-1</a>                           | Label holder for terminal block group. Label media not included.<br>Adhesive label: Apply on top.<br>Max label dimensions: 7 x 44 mm (0.28 x 1.73 in). | KN-EB4                             | 46.2<br>[1.82]       | 46.0<br>[1.81] | 11.4<br>[0.45] | 25  | \$059e:  |
| <a href="#">KN-MA-1-10</a>                        |                                                                                                                                                        |                                    |                      |                |                | 10  | \$;059f: |
| <a href="#">KN-MA-2</a>                           | Label holder for terminal block group. Label media not included.<br>Adhesive label: Apply on top.<br>Max label dimensions: 7 x 44 mm (0.28 x 1.73 in). | KN-EB7                             | 37.5<br>[1.48]       | 46.2<br>[1.82] | 9.5<br>[0.37]  | 50  | \$059g:  |
| <a href="#">KN-MA-2-10</a>                        |                                                                                                                                                        |                                    |                      |                |                | 10  | \$059h:  |
| <a href="#">KN-MA-3</a>                           | Top mounting marking tag adapter for terminal block.<br>Holds up to (4) L5x5 tags                                                                      | KN-T4<br>KN-T2                     | 9.3<br>[0.36]        | 36.0<br>[1.42] | 9.0<br>[0.35]  | 25  | \$0ede:  |
| <a href="#">KN-MA-4</a>                           | Top mounting marking tag adapter for terminal block.<br>Holds up to (4) L5x5 tags                                                                      | KN-T12<br>KN-T10<br>KN-T8<br>KN-T6 | 9.0<br>[0.35]        | 29.0<br>[1.14] | 5.7<br>[0.22]  | 25  | \$;0edf: |
| <a href="#">KN-MA-5</a>                           | Label holder for terminal block group. Label media included.<br>Max label dimensions: 10 x 38mm (0.39 x 1.50 in).<br>Thickness 0.30 mm (0.01 in)       | Attaches to any 35mm DIN rail      | 46.4<br>[1.83]       | 44.5<br>[1.75] | 10.0<br>[0.39] | 50  | \$-059i: |
| <a href="#">KN-MA-5-25</a>                        |                                                                                                                                                        |                                    |                      |                |                | 25  | \$-059j: |

**KN-MA-1**



**KN-MA-2**



**KN-MA-5**



**KN-TC-1 / KN-TC-2**



**KN-TC-1S / KN-TC-2S**



**KN-MA-3**



**KN-MA-4**

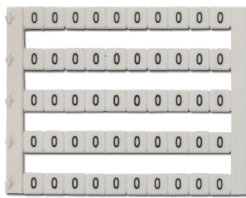




# KONNECT-IT® Accessories

## Marking Tags 5 x 5mm

Use with any KONNECT-IT series terminal blocks.



### 5 x 5mm Marking Tags Ordering Information

| 250 Pieces per Package            |         |          |                               |         |          | 500 Pieces per Package        |         |          |                           |         |          |
|-----------------------------------|---------|----------|-------------------------------|---------|----------|-------------------------------|---------|----------|---------------------------|---------|----------|
| Part Number                       | Imprint | Price    | Part Number                   | Imprint | Price    | Part Number                   | Imprint | Price    | Part Number               | Imprint | Price    |
| <a href="#">KN-L5-BLANK-250</a>   | Blank   | \$,054f: | <a href="#">KN-L5-A-250</a>   | A       | \$054b:  | <a href="#">KN-L5-BLANK</a>   | Blank   | \$054e:  | <a href="#">KN-L5-A</a>   | A       | \$054a:  |
| <a href="#">KN-L5-0-250</a>       | 0       | \$,052:. | <a href="#">KN-L5-B-250</a>   | B       | \$054d:  | <a href="#">KN-L5-0</a>       | 0       | \$052?:  | <a href="#">KN-L5-B</a>   | B       | \$054c:  |
| <a href="#">KN-L5-1-250</a>       | 1       | \$0539:  | <a href="#">KN-L5-C-250</a>   | C       | \$054h:  | <a href="#">KN-L5-1</a>       | 1       | \$0530:  | <a href="#">KN-L5-C</a>   | C       | \$054g:  |
| <a href="#">KN-L5-2-250</a>       | 2       | \$-053j: | <a href="#">KN-L5-D-250</a>   | D       | \$-054j: | <a href="#">KN-L5-2</a>       | 2       | \$053e:  | <a href="#">KN-L5-D</a>   | D       | \$-054i: |
| <a href="#">KN-L5-3-250</a>       | 3       | \$,053t: | <a href="#">KN-L5-E-250</a>   | E       | \$-054l: | <a href="#">KN-L5-3</a>       | 3       | \$053n:  | <a href="#">KN-L5-E</a>   | E       | \$054k:  |
| <a href="#">KN-L5-4-250</a>       | 4       | \$053:.  | <a href="#">KN-L5-F-250</a>   | F       | \$,057f: | <a href="#">KN-L5-4</a>       | 4       | \$053x:  | <a href="#">KN-L5-F</a>   | F       | \$057e:  |
| <a href="#">KN-L5-5-250</a>       | 5       | \$0541:  | <a href="#">KN-L5-G-250</a>   | G       | \$057h:  | <a href="#">KN-L5-5</a>       | 5       | \$053?:  | <a href="#">KN-L5-G</a>   | G       | \$057g:  |
| <a href="#">KN-L5-6-250</a>       | 6       | \$0543:  | <a href="#">KN-L5-H-250</a>   | H       | \$-057l: | <a href="#">KN-L5-6</a>       | 6       | \$0542:  | <a href="#">KN-L5-H</a>   | H       | \$057k:  |
| <a href="#">KN-L5-7-250</a>       | 7       | \$0545:  | <a href="#">KN-L5-I-250</a>   | I       | \$057o:  | <a href="#">KN-L5-7</a>       | 7       | \$0544:  | <a href="#">KN-L5-I</a>   | I       | \$057n:  |
| <a href="#">KN-L5-8-250</a>       | 8       | \$0547:  | <a href="#">KN-L5-J-250</a>   | J       | \$057q:  | <a href="#">KN-L5-8</a>       | 8       | \$0546:  | <a href="#">KN-L5-J</a>   | J       | \$057p:  |
| <a href="#">KN-L5-9-250</a>       | 9       | \$0549:  | <a href="#">KN-L5-K-250</a>   | K       | \$,057t: | <a href="#">KN-L5-9</a>       | 9       | \$0548:  | <a href="#">KN-L5-K</a>   | K       | \$057s:  |
| <a href="#">KN-L5-10-250</a>      | 10      | \$0534:  | <a href="#">KN-L5-L-250</a>   | L       | \$,057j: | <a href="#">KN-L5-10</a>      | 10      | \$0531:  | <a href="#">KN-L5-L</a>   | L       | \$057u:  |
| <a href="#">KN-L5-1-10-250</a>    | 1-10    | \$0536:  | <a href="#">KN-L5-M-250</a>   | M       | \$,057!: | <a href="#">KN-L5-1-10</a>    | 1-10    | \$0535:  | <a href="#">KN-L5-M</a>   | M       | \$057#:  |
| <a href="#">KN-L5-11-20-250</a>   | 11-20   | \$0538:  | <a href="#">KN-L5-N-250</a>   | N       | \$,057:. | <a href="#">KN-L5-11-20</a>   | 11-20   | \$0537:  | <a href="#">KN-L5-N</a>   | N       | \$057?:  |
| <a href="#">KN-L5-21-30-250</a>   | 21-30   | \$-053i: | <a href="#">KN-L5-O-250</a>   | O       | \$0583:  | <a href="#">KN-L5-21-30</a>   | 21-30   | \$053h:  | <a href="#">KN-L5-O</a>   | O       | \$0582:  |
| <a href="#">KN-L5-31-40-250</a>   | 31-40   | \$053s:  | <a href="#">KN-L5-P-250</a>   | P       | \$0585:  | <a href="#">KN-L5-31-40</a>   | 31-40   | \$053q:  | <a href="#">KN-L5-P</a>   | P       | \$0584:  |
| <a href="#">KN-L5-41-50-250</a>   | 41-50   | \$,053j: | <a href="#">KN-L5-Q-250</a>   | Q       | \$0589:  | <a href="#">KN-L5-41-50</a>   | 41-50   | \$,053j: | <a href="#">KN-L5-Q</a>   | Q       | \$0588:  |
| <a href="#">KN-L5-1-50-250</a>    | 1-50    | \$053b:  | <a href="#">KN-L5-R-250</a>   | R       | \$058b:  | <a href="#">KN-L5-1-50</a>    | 1-50    | \$053a:  | <a href="#">KN-L5-R</a>   | R       | \$058a:  |
| <a href="#">KN-L5-51-100-250</a>  | 51-100  | \$0540:  | <a href="#">KN-L5-S-250</a>   | S       | \$058d:  | <a href="#">KN-L5-51-100</a>  | 51-100  | \$,053:. | <a href="#">KN-L5-S</a>   | S       | \$058c:  |
| <a href="#">KN-L5-101-150-250</a> | 101-150 | \$0533:  | <a href="#">KN-L5-T-250</a>   | T       | \$,058f: | <a href="#">KN-L5-101-150</a> | 101-150 | \$0532:  | <a href="#">KN-L5-T</a>   | T       | \$058e:  |
| <a href="#">KN-L5-151-200-250</a> | 151-200 | \$053d:  | <a href="#">KN-L5-U-250</a>   | U       | \$058h:  | <a href="#">KN-L5-151-200</a> | 151-200 | \$053c:  | <a href="#">KN-L5-U</a>   | U       | \$058g:  |
| <a href="#">KN-L5-201-250-250</a> | 201-250 | \$053g:  | <a href="#">KN-L5-V-250</a>   | V       | \$-058j: | <a href="#">KN-L5-201-250</a> | 201-250 | \$,053f: | <a href="#">KN-L5-V</a>   | V       | \$-058i: |
| <a href="#">KN-L5-251-300-250</a> | 251-300 | \$-053l: | <a href="#">KN-L5-W-250</a>   | W       | \$-058l: | <a href="#">KN-L5-251-300</a> | 251-300 | \$053k:  | <a href="#">KN-L5-W</a>   | W       | \$058k:  |
| <a href="#">KN-L5-301-350-250</a> | 301-350 | \$053p:  | <a href="#">KN-L5-X-250</a>   | X       | \$058o:  | <a href="#">KN-L5-301-350</a> | 301-350 | \$053o:  | <a href="#">KN-L5-X</a>   | X       | \$058n:  |
| <a href="#">KN-L5-351-400-250</a> | 351-400 | \$053v:  | <a href="#">KN-L5-Y-250</a>   | Y       | \$,058t: | <a href="#">KN-L5-351-400</a> | 351-400 | \$053u:  | <a href="#">KN-L5-Y</a>   | Y       | \$058s:  |
| <a href="#">KN-L5-401-450-250</a> | 401-450 | \$053z:  | <a href="#">KN-L5-Z-250</a>   | Z       | \$058v:  | <a href="#">KN-L5-401-450</a> | 401-450 | \$053y:  | <a href="#">KN-L5-Z</a>   | Z       | \$058u:  |
| <a href="#">KN-L5-451-500-250</a> | 451-500 | \$,053l: | <a href="#">KN-L5-POS-250</a> | +       | \$0587:  | <a href="#">KN-L5-451-500</a> | 451-500 | \$053#:  | <a href="#">KN-L5-POS</a> | +       | \$0586:  |
| <a href="#">KN-L5-L1-250</a>      | L1      | \$057x:  | <a href="#">KN-L5-NEG-250</a> | -       | \$0581:  | <a href="#">KN-L5-L1</a>      | L1      | \$057v:  | <a href="#">KN-L5-NEG</a> | -       | \$0580:  |
| <a href="#">KN-L5-L2-250</a>      | L2      | \$057z:  | <a href="#">KN-L5-GND-250</a> | GND     | \$-057j: | <a href="#">KN-L5-L2</a>      | L2      | \$057y:  | <a href="#">KN-L5-GND</a> | GND     | \$-057i: |
| <a href="#">KN-L5-L3-250</a>      | L3      | \$057:.  |                               |         |          | <a href="#">KN-L5-L3</a>      | L3      | \$,057j: |                           |         |          |





# KONNECT-IT Accessories

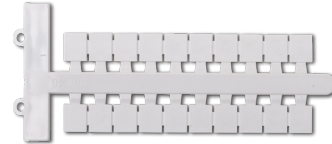
## Marking Tags 6 x 11.5 mm

Use with Konnect-It series terminal blocks  
6.5mm or wider.



## Marking Tags 5 x 10mm, 6 x 10mm, 10 x 10mm

Use with Konnect-It series terminal blocks  
5 x 10mm, 6 x 10mm, and 10 x 10mm.



| Marking Tags 6 x 11.5mm                   |                 |     |           |
|-------------------------------------------|-----------------|-----|-----------|
| Part Number                               | Description     | Qty | Price     |
| <a href="#"><u>KN-L6P5-BLNK</u></a>       | Blank           | 500 | Retired   |
| <a href="#"><u>KN-L6P5-BLNK-250</u></a>   | Blank           | 250 | Retired   |
| <a href="#"><u>KN-L6P5-BLNK-300</u></a>   | Blank           | 300 | \$6kcp:   |
| <a href="#"><u>KN-L6P5-1-10</u></a>       | Numbered 1-10   | 500 | \$058x:   |
| <a href="#"><u>KN-L6P5-1-10-250</u></a>   | Numbered 1-10   | 250 | \$058y:   |
| <a href="#"><u>KN-L6P5-1-10-300</u></a>   | Numbered 1-10   | 300 | \$6kcpq:  |
| <a href="#"><u>KN-L6P5-11-20</u></a>      | Numbered 11-20  | 500 | \$058z:   |
| <a href="#"><u>KN-L6P5-11-20-250</u></a>  | Numbered 11-20  | 250 | \$:058[:  |
| <a href="#"><u>KN-L6P5-11-20-300</u></a>  | Numbered 11-20  | 300 | \$6kcs:   |
| <a href="#"><u>KN-L6P5-21-30</u></a>      | Numbered 21-30  | 500 | \$:058[:  |
| <a href="#"><u>KN-L6P5-21-30-250</u></a>  | Numbered 21-30  | 250 | \$058_:   |
| <a href="#"><u>KN-L6P5-21-30-300</u></a>  | Numbered 21-30  | 300 | \$:6kct:  |
| <a href="#"><u>KN-L6P5-31-40</u></a>      | Numbered 31-40  | 500 | \$058#:   |
| <a href="#"><u>KN-L6P5-31-40-250</u></a>  | Numbered 31-40  | 250 | \$:058!:  |
| <a href="#"><u>KN-L6P5-31-40-300</u></a>  | Numbered 31-40  | 300 | \$6kcu:   |
| <a href="#"><u>KN-L6P5-41-50</u></a>      | Numbered 41-50  | 500 | \$058?:   |
| <a href="#"><u>KN-L6P5-41-50-250</u></a>  | Numbered 41-50  | 250 | \$:058,:: |
| <a href="#"><u>KN-L6P5-41-50-300</u></a>  | Numbered 41-50  | 300 | \$6kcv:   |
| <a href="#"><u>KN-L6P5-51-60</u></a>      | Numbered 51-60  | 500 | \$0590:   |
| <a href="#"><u>KN-L6P5-51-60-250</u></a>  | Numbered 51-60  | 250 | \$0591:   |
| <a href="#"><u>KN-L6P5-51-60-300</u></a>  | Numbered 51-60  | 300 | \$-6kcl:  |
| <a href="#"><u>KN-L6P5-61-70</u></a>      | Numbered 61-70  | 500 | \$0592:   |
| <a href="#"><u>KN-L6P5-61-70-250</u></a>  | Numbered 61-70  | 250 | \$0593:   |
| <a href="#"><u>KN-L6P5-61-70-300</u></a>  | Numbered 61-70  | 300 | \$6kcn:   |
| <a href="#"><u>KN-L6P5-71-80</u></a>      | Numbered 71-80  | 500 | \$0594:   |
| <a href="#"><u>KN-L6P5-71-80-250</u></a>  | Numbered 71-80  | 250 | \$0595:   |
| <a href="#"><u>KN-L6P5-71-80-300</u></a>  | Numbered 71-80  | 300 | \$6kco:   |
| <a href="#"><u>KN-L6P5-81-90</u></a>      | Numbered 81-90  | 500 | \$0596:   |
| <a href="#"><u>KN-L6P5-81-90-250</u></a>  | Numbered 81-90  | 250 | \$0597:   |
| <a href="#"><u>KN-L6P5-91-100</u></a>     | Numbered 91-100 | 500 | \$0598:   |
| <a href="#"><u>KN-L6P5-91-100-250</u></a> | Numbered 91-100 | 250 | \$0599:   |

| Marking Tags                            |                                                                                    |     |          |
|-----------------------------------------|------------------------------------------------------------------------------------|-----|----------|
| Part Number*                            | Description                                                                        | Qty | Price    |
| <a href="#"><u>KN-L5X-BLNK</u></a>      | Blank marking tag, 5 x 10mm, use with any Konnect-It terminal block series         | 440 | \$058p:  |
| <a href="#"><u>KN-L5X-BLNK-220</u></a>  | Blank marking tag, 5 x 10mm, use with any Konnect-It terminal block series         | 220 | \$058q:  |
| <a href="#"><u>KN-L6X-BLNK</u></a>      | Blank marking tag, 6 x 10mm, use with any Konnect-It terminal block 6mm or wider   | 360 | \$059c:  |
| <a href="#"><u>KN-L6X-BLNK-180</u></a>  | Blank marking tag, 6 x 10mm, use with any Konnect-It terminal block 6mm or wider   | 180 | \$59d:   |
| <a href="#"><u>KN-L10X-BLNK</u></a>     | Blank marking tag, 10 x 10mm, use with any Konnect-It terminal block 10mm or wider | 200 | \$052#:  |
| <a href="#"><u>KN-L10X-BLNK-100</u></a> | Blank marking tag, 10 x 10mm, use with any Konnect-It terminal block 10mm or wider | 100 | \$:052!: |

\*Does not fit any KN-T1/0xx or [KN-G1/0](#) series block



# **DINnectors** - The quality is in the details!

## **Virtually vibration-proof clamping system**

- Provides excellent resistance to screw loosening caused by vibration or shock
- Large contact area due to "V" formed bottom portion of clamp
- Proven design - millions in use today

### **Wire stops**

- Stops wires from being inserted too far

### **Snap-on solid foot**

- Robust design allows for easy assembly and removal of the terminal block from a DIN rail with a screwdriver

### **Internal jumpers**

- Frees up valuable wiring space

### **Protective moldings**

- Safe design prevents accidental contact with live parts.

### **Marking system**

- Inclined at a 45° angle for easy reading
- Can be marked by hand or preprinted from 0-1000

### **Funneled wire entry**

- Allows for fast and easy insertion of the wire into the clamp
- Closed on all four sides for safety

### **Agency Approvals**



- \* UL rating for copper wire only

### **Captive screws**

- Screws cannot be dropped or lost during wiring
- Supplied fully backed out and ready to wire

# 1

## **Quality materials**

DINnectors are manufactured from Polyamide 6.6 plastic with very good electrical, mechanical, and chemical properties. This UL-approved material has a flammability rating of V2 (self-extinguishing) according to UL94. It has a continuous upper temperature limit of 105°C, and a lower temperature limit of -20°C. The Comparative Tracking Index is CTI > 600, with an average humidity absorption of 3-4 percent.

DINnectors screws and clamps are manufactured from hardened steel plated with a zinc-dichromate corrosion-resistant finish. The current bars are made from a copper alloy with a tin/lead plating.

DINnectors terminal blocks boast a long-term storage temperature range of -13°F to 131°F (-25°C to 55°C).

# 2

## **Self-locking clamps**

DINnectors terminal blocks are designed with self-locking vibration-resistant clamps, unlike many of our competitors' products. When tightening the screw, the clamp travels up like an elevator, and presses the wire against the conductor. When the wire is fully compressed, the clamp's upper thread overlap springs open and locks the screw threads, preventing the screw from loosening. This "spring-effect" ensures a reliable contact that is virtually impervious to vibration and temperature cycling. When adequately tightened, DINnectors terminal block screw clamps should never require re-tightening.

# 3

## **High-contact pressure**

Continuous, high-contact pressure is essential for a reliable connection. Even the best conductors give poor results if the contact pressure is insufficient. Low-contact pressure causes aggravating and dangerous intermittent connections. DINnectors terminal block screw clamp connection technology offers the highest contact pressure available. DINnectors 12 AWG terminal block produces a high contact force of approximately 169 ft/lbs (750 Nm).

# 4

## **Low voltage drop**

Many electrical engineers consider voltage drop values across the connection points to be an excellent measure of the quality of the terminal block. Low voltage drop means low contact resistance, which indicates a stable and quality contact between the conductor and the terminal block. DINnectors terminal blocks distinguish themselves with very low voltage drop values, which are well under the limits established by various international standards.

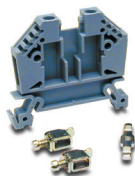
# 5

## **Gas-tight connections**

According to DIN standard 41640 part 76, terminal blocks must be tested in a specific, aggressive gas-filled environment. After these tests, DINnectors terminal block contact surfaces showed no signs of corrosion, even with small conductors.

# Save BIG with our terminal blocks

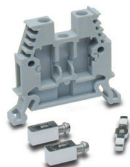
AutomationDirect  
**DINnectors**<sup>®</sup>  
 Terminal connector



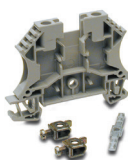
## Why are you paying more for other brands?

All the terminal blocks shown here look pretty much the same. So with our quality features and great prices, it should be easy to choose DINnectors.

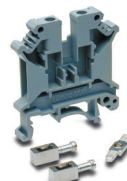
And of course, if you're not completely satisfied with DINnectors for any reason, use our 30-day money-back guarantee to return them.



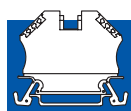
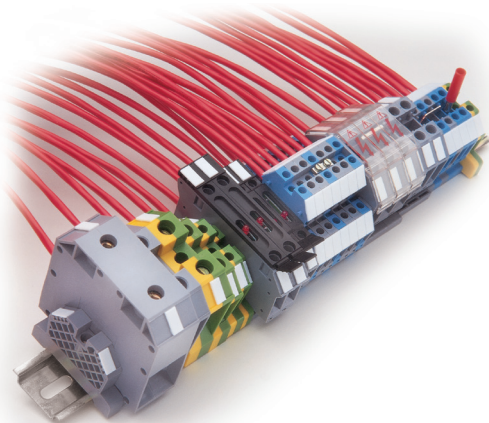
**Allen Bradley**  
Terminal connector



**Weidmuller**  
Terminal connector

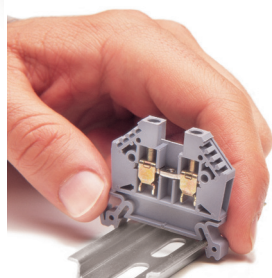


**Phoenix Contact**  
Terminal connector



# DINnectors<sup>®</sup>

## Specifying a Terminal Block System



### Step 1: Select the type

Choose from the many types of terminal blocks as required for your system: screw-type or screwless, feed-through, multi-level, mini, ground, fuse, disconnect or direct mount.

### Step 2: Determine the electrical specifications

Determine your requirements for the maximum wire size, current, and voltage for each terminal block.

### Step 3: Select the accessories

Choose between deep or shallow then select the appropriate end cover(s) and end brackets. Then decide if you would like to use internal jumpers, top covers, angled support brackets, test plugs, separators, or blank or printed marking tags.

### Step 4: Calculate the rail length

Calculate the density per foot of each type and quantity of terminal block in your assembly to determine the total rail length. Remember to add 1/2 inch for each rail end to accommodate rail mounting screws. Also add 0.0008" (0.2 mm) tolerance per terminal, plus the width of the end brackets, end covers, and any separators.

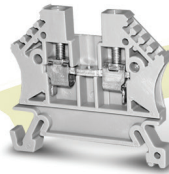
### Step 5: Place your order!

Call 1-800-633-0405 or visit our Web site at [www.automationdirect.com](http://www.automationdirect.com) to order.

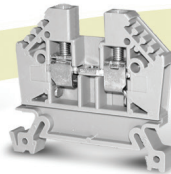
# Screw-type DINnectors At a Glance

## Feed-through Terminal Blocks

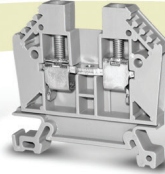
Feed-through terminal blocks are available in a number of colors and wire size options to ensure flexibility and ease of installation for your DIN-rail mounted connection system.



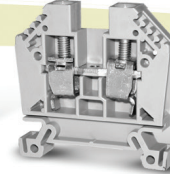
**DN-T12-A**



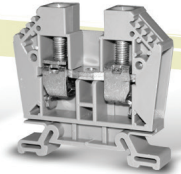
**DN-T10-A**



**DN-T8**



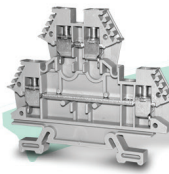
**DN-T6**



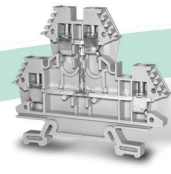
**DN-T4**

## Multi-level/Sensor Terminal Blocks

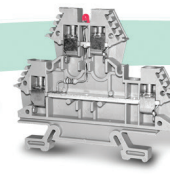
Double-level terminal blocks offer twice the wiring density of feed-through blocks. Triple-level blocks enable either high-density wiring or simplified, low-cost sensor wiring.



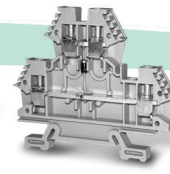
**DN-D10-A**



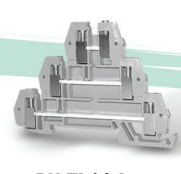
**DN-D10X-A**



**DN-D10LED1-A**



**DN-D10DR-A**



**DN-TL14-A**

## Ground Terminal Blocks

Ground terminal blocks are used to mechanically and electrically connect wires to the DIN rail, thus allowing the rail to function as a ground bus bar.



**DN-G10**



**DN-G8**



**DN-G6**



**DN-G4**



**DN-G1/0**

## Circuit Protection Blocks

Fuse blocks provide easily-replaceable fuse protection for PLC output devices or modules. They are available for 1/4", 5 mm Midget and Class CC size fuses.



**DN-F6**



**DN-F6L**



**DN-F10**



**DN-F10L**



**DN-FEx  
plus DN-DPx**

## Disconnect Terminal Blocks

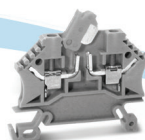
Convenient operation allows fast circuit disconnection without rewiring.

## Mini Terminal Blocks

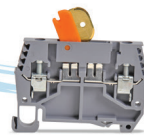
Mini terminal blocks are used in areas with extremely limited space requirements.



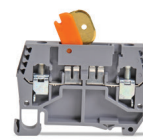
**DN-DIS10**



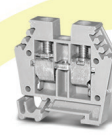
**DN-KBD12**



**DN-DIS2**



**DN-DIS4**

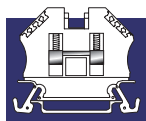


**DN-M10-A**

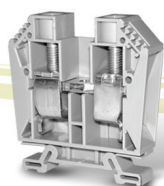
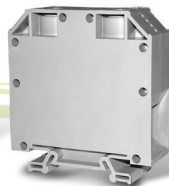
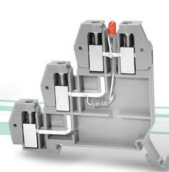
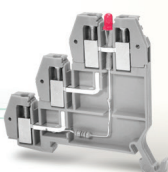


**DN-MG10**





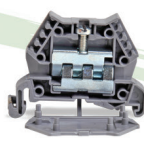
# DINnectors®

**DN-T1/0****DN-T3/0****DN-TL14-A****DN-TL14SLP-A****DN-TL14SLN-A**

Many DINnectors are available in 8 colors!

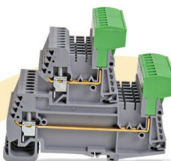
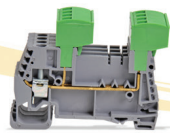
### Thermocouple Blocks

Single clamp design allows excellent connection to all types of thermocouple wiring.

**DN-THERM1****DN-THERM2**

### Plug-in Blocks

Plug-in terminal blocks allow for quicker installation of field device wiring and reduces the chance for incorrect wiring.

**DN-EMXM1**  
(plugs sold separately)**DN-EMXDV**  
(plugs sold separately)

### DINnector standard terminal blocks

- Polyamide 6.6 plastic molding
- Zinc dichromate-plated, hardened steel screws and clamps
- Nickel-plated, copper current bar
- Single or double-level blocks

### Triple-level terminal blocks

- Four types, with and without LED
- Extremely compact 5 mm thick design
- 300V, 10A, 26 to 14 AWG
- UL/CE approvals

### Colored terminal blocks

- Used for specially identifying circuits for ease of wiring and troubleshooting
- Available in standard gray, as well as blue, black, red, yellow, green, orange and white for the DN-T12-A, DN-T10-A and DN-T8 feed-through terminals. The DN-D10-A double-level terminal blocks are available in all of the above colors except white.

### Circuit Protection blocks

- Quick and easy DIN-rail mounting
- Available with long lasting neon or LED indicator light for quick troubleshooting
- UL approval for supplementary protection; CE approved

### Specialty blocks

- Thermocouple blocks
- Plug-in blocks
- Disconnect blocks
- Mini terminal blocks



# Component Overview *(screw type)*

## DINnectors Terminal Blocks



The screw-type DINnectors series includes standard, double and triple level terminal blocks, some in up to seven colors. Fuse blocks are also available.

### Accessories

#### Mounting rail (required)

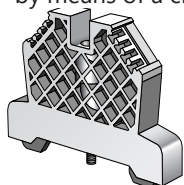
Allows multiple blocks to be mounted to a panel, and may also be used as



a ground bus bar. Rails meet international standards and are supplied in 3'3"(1m) lengths, slotted steel.

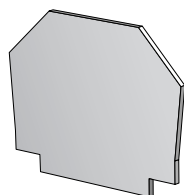
#### End bracket (required)

Used to add rigidity to a terminal block assembly and prevent sliding along the rail by mounting one polyamide end bracket at each end of an assembly. End brackets attach directly to the DIN rail by means of a clamping foot and can accept marking tags to serve as a group marker.



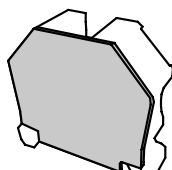
#### End cover (required)

Provides electrical insulation for the exposed metal components of the last terminal block in an assembly. Interlocking pins secure the polyamide end cover to the terminal block while allowing easy insertion and removal. When the size of blocks change in an assembly, an end cover is required to insulate the open side of the block.



### Separator

Used to electrically or visually separate groups of terminal blocks, or to electrically insulate



adjacent internal jumpers. Separators project beyond the terminal block on all sides.

### Jumpers

Used to electrically interconnect two or more consecutive terminal blocks, without reducing the wiring

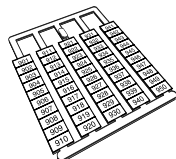


capacity of the blocks. Jumpers are available in two, three, four, and longer pole configurations. Jumpers are made of electrolytic copper with a corrosion-resistant

nickel plating. Insulated double jumpers reduce the risk of accidental shock.

### Terminal Marking tags

Provides circuit organization and identification of the terminals. Terminal marking tags are available either blank or preprinted, and fit onto the terminal blocks.



### Wire Marking tags

Provides circuit organization and identification of the wires. Wire marking tags are available with blank tags and clear tag holders for wire sizes from 26AWG to 5AWG.



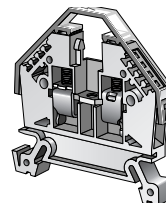
### Angled support bracket

Raises and tilts the mounting rail above the panel for easier and faster wiring.



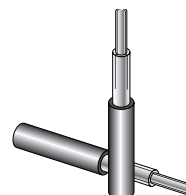
### Top cover

Certain VDE regulations require the use of terminal block covers. The transparent polycarbonate covers are printed with a warning arrow and the international danger symbol, allowing the marking tag area and jumpers to remain visible after installation.



### Test plugs

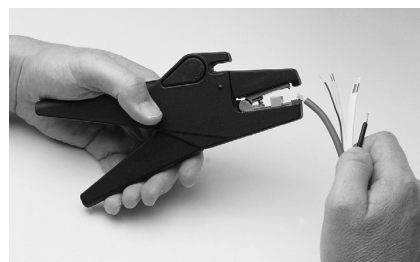
Used for hands-free circuit troubleshooting and testing, the test plugs are inserted into the jumper hole of the terminal block current bar. These plug-in style devices cannot be used when jumpers are installed. Plug diameter is 2.8 mm.



## Wiring Accessories & Tools

We offer a wide selection of wire ferrules and crimp terminals, stripping and crimping tools, jumper cutters in the "Wiring Accessories" section of this chapter. An excellent variety Wera brand screwdrivers as well as RUKO cutting tools can be found in the tools chapter of our catalog.

## Standards



DINnectors terminal blocks are tested to the following standards:

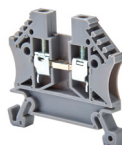
- EN/IEC 60947-1
- EN/IEC 60947-7-1
- IEC 60947-7-2
- IEC 60947-7-3
- UL 1059
- UL 486A-486B
- UL 486E

# DINnectors® Single-Level Terminal Blocks

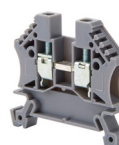
Feed-through terminal blocks provide the means to connect two wires together, and are available in sizes suitable for up to 8AWG wire.

- Screw connection terminal
- 35mm DIN rail mountable
- LVD 2006/95/EC

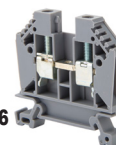
**DN-T12-A**  
Series: EURO 2.5



**DN-T10-A**  
Series: EURO 4

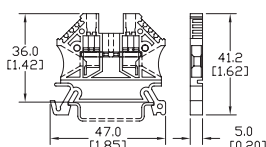


**DN-T8**  
Series: EURO 6

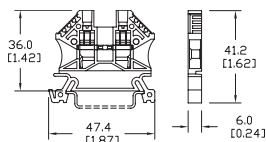


**Dimensions**  
mm [inches]

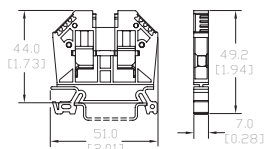
**DN-T12-A**



**DN-T10-A**



**DN-T8**



## Ordering Information

| Available Colors | Part Number                 | Qty | Price    | Part Number                 | Qty | Price    | Part Number              | Qty | Price    |
|------------------|-----------------------------|-----|----------|-----------------------------|-----|----------|--------------------------|-----|----------|
| Gray             | <a href="#">DN-T12-A</a>    | 100 | \$07?g:  | <a href="#">DN-T10-A</a>    | 100 | \$07??:  | <a href="#">DN-T8</a>    | 50  | \$07?x:  |
| Blue             | <a href="#">DN-T12B-A</a>   | 100 | \$07?h:  | <a href="#">DN-T10B-A</a>   | 100 | \$07?8:  | <a href="#">DN-T8B</a>   | 50  | \$07?y:  |
| Brown            | <a href="#">DN-T12BR-A</a>  | 100 | \$-07?j: | <a href="#">DN-T10BR-A</a>  | 100 | \$07?a:  | —                        | —   | —        |
| Black            | <a href="#">DN-T12BLK-A</a> | 100 | \$-07?i: | <a href="#">DN-T10BLK-A</a> | 100 | \$07?9:  | <a href="#">DN-T8BLK</a> | 50  | \$07?z:  |
| Green            | <a href="#">DN-T12GRN-A</a> | 100 | \$07?k:  | <a href="#">DN-T10GRN-A</a> | 100 | \$07?b:  | <a href="#">DN-T8GRN</a> | 50  | \$-07?j: |
| Orange           | <a href="#">DN-T12ORG-A</a> | 100 | \$-07?l: | <a href="#">DN-T10ORG-A</a> | 100 | \$07?c:  | <a href="#">DN-T8ORG</a> | 50  | \$-07?[: |
| Red              | <a href="#">DN-T12RED-A</a> | 100 | \$07?n:  | <a href="#">DN-T10RED-A</a> | 100 | \$07?d:  | <a href="#">DN-T8RED</a> | 50  | \$07?_:  |
| Yellow           | <a href="#">DN-T12YEL-A</a> | 100 | \$07?p:  | <a href="#">DN-T10YEL-A</a> | 100 | \$-07?f: | <a href="#">DN-T8YEL</a> | 50  | \$-07?!: |
| White            | <a href="#">DN-T12W-A</a>   | 100 | \$07?o:  | <a href="#">DN-T10W-A</a>   | 100 | \$07?e:  | <a href="#">DN-T8W</a>   | 50  | \$07?#:  |

## Technical Specifications

|                              |                                                                                                                    |     |           |                   |     |           |                      |     |          |
|------------------------------|--------------------------------------------------------------------------------------------------------------------|-----|-----------|-------------------|-----|-----------|----------------------|-----|----------|
| <b>Stripping Length</b>      | 10mm [0.39 in]                                                                                                     |     |           | 10mm [0.39 in]    |     |           | 12mm [0.47 in]       |     |          |
| <b>Tightening Torque</b>     | 0.5 N·m [4 lb·in]                                                                                                  |     |           | 0.8 N·m [7 lb·in] |     |           | 1.2 N·m [10.6 lb·in] |     |          |
| <b>Density</b>               | 200/m [60 pcs/ft]                                                                                                  |     |           | 166/m [50 pcs/ft] |     |           | 142/m [43 pcs/ft]    |     |          |
| <b>UL Approval*</b>          | 600V                                                                                                               | 20A | 24-12 AWG | 600V              | 30A | 24-10 AWG | 600V                 | 50A | 22-8 AWG |
| <b>VDE Approval</b>          | 800V                                                                                                               | 24A | 2.5 mm²   | 800V              | 32A | 4mm²      | 800V                 | 41A | 6mm²     |
| <b>Operating Temperature</b> | Ambient air temp: -20 to 105°C [-4 to 221°F]<br>Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |     |           |                   |     |           |                      |     |          |
| <b>SCCR Rating</b>           | 100kA                                                                                                              |     |           |                   |     |           |                      |     |          |
| <b>CE Conformity</b>         | CE (EN 60947-1 / EN 60947-7-1)                                                                                     |     |           |                   |     |           |                      |     |          |
| <b>Agency File #</b>         | UL E179129                                                                                                         |     |           |                   |     |           |                      |     |          |

## Accessories

|                        |                |                              |             |                        |                              |             |                        |                              |             |           |
|------------------------|----------------|------------------------------|-------------|------------------------|------------------------------|-------------|------------------------|------------------------------|-------------|-----------|
| End Covers             |                | <a href="#">DN-EC1210</a>    | 100         | \$,0et2:               | <a href="#">DN-EC1210</a>    | 100         | \$,0et2:               | <a href="#">DN-EC86</a>      | 100         | \$,0et7:  |
|                        |                | <a href="#">DN-EC1210MN</a>  | 25          | \$,0et3:               | <a href="#">DN-EC1210MN</a>  | 25          | \$,0et3:               | <a href="#">DN-EC86MN</a>    | 25          | \$,0et8:  |
| Separators             |                | <a href="#">DN-S1210</a>     | 100         | \$07uu:                | <a href="#">DN-S1210</a>     | 100         | \$07uu:                | <a href="#">DN-S86</a>       | 100         | \$07ux:   |
|                        |                | <a href="#">DN-S1210MN</a>   | 25          | \$07uv:                | <a href="#">DN-S1210MN</a>   | 25          | \$07uv:                | <a href="#">DN-S86MN</a>     | 25          | \$05sc:   |
| Jumpers                | 2-pole         | <a href="#">DN-2J2Y</a>      | 100         | \$05cv:                | <a href="#">DN-2J4Y</a>      | 100         | \$05cx:                | -                            |             |           |
|                        |                | <a href="#">DN-2J2YMN</a>    | 25          | \$07uh:                | <a href="#">DN-2J4YMN</a>    | 25          | \$-07ui:               |                              |             |           |
|                        | 3-pole         | <a href="#">DN-3J2Y</a>      | 100         | \$05c :                | <a href="#">DN-3J4Y</a>      | 100         | \$05c#:                |                              |             |           |
|                        |                | <a href="#">DN-3J2YMN</a>    | 25          | \$07uk:                | <a href="#">DN-3J4YMN</a>    | 25          | \$-07ul:               |                              |             |           |
|                        | 24-pole        | <a href="#">DN-24J2Y</a>     | 5           | \$07og:                | <a href="#">DN-24J4Y</a>     | 5           | \$07oh:                |                              |             |           |
| Jumper Cutting Tool**  |                | <a href="#">DN-J2CUT</a>     | 1           | \$,04.k:               | <a href="#">DN-J4CUT</a>     | 1           | \$,04.n:               | -                            |             |           |
|                        |                | <a href="#">DN-C12</a>       | 100         | \$,07uj:               | <a href="#">DN-C10</a>       | 100         | \$07uy:                |                              |             |           |
| Top Cover              |                | <a href="#">DN-C12MN</a>     | 25          | \$,07uj:               | <a href="#">DN-C10MN</a>     | 25          | \$07uz:                | <a href="#">DN-C86MN</a>     | 25          | \$07u#:   |
|                        |                | Test Plug/Red                |             | <a href="#">DN-TPR</a> | 10                           | \$07ne:     | <a href="#">DN-TPR</a> | 10                           | \$07ne:     | -         |
| Test Plug/Black        |                | <a href="#">DN-TPB</a>       | 10          | \$07nd:                | <a href="#">DN-TPB</a>       | 10          | \$07nd:                |                              |             |           |
| 35mm<br>DIN Rail       | 7.5 mm<br>high | <a href="#">DN-R35S1</a>     | 10          | \$-07lx:               | <a href="#">DN-R35S1</a>     | 10          | \$-07lx:               | <a href="#">DN-R35S1</a>     | 10          | \$-07lx:  |
|                        |                | <a href="#">DN-R35S1-2</a>   | 2           | \$-07ly:               | <a href="#">DN-R35S1-2</a>   | 2           | \$-07ly:               | <a href="#">DN-R35S1-2</a>   | 2           | \$-07ly:  |
|                        | 15mm<br>high   | <a href="#">DN-R35HS1</a>    | 10          | \$-07lu:               | <a href="#">DN-R35HS1</a>    | 10          | \$-07lu:               | <a href="#">DN-R35HS1</a>    | 10          | \$-07lu:  |
|                        |                | <a href="#">DN-R35HS1-2</a>  | 2           | \$-07lv:               | <a href="#">DN-R35HS1-2</a>  | 2           | \$-07lv:               | <a href="#">DN-R35HS1-2</a>  | 2           | \$-07lv:  |
| End Brackets           |                | <a href="#">DN-EB35</a>      | 50          | \$07zg:                | <a href="#">DN-EB35</a>      | 50          | \$07zg:                | <a href="#">DN-EB35</a>      | 50          | \$07zg:   |
|                        |                | <a href="#">DN-EB35MN</a>    | 20          | \$-07zj:               | <a href="#">DN-EB35MN</a>    | 20          | \$-07zj:               | <a href="#">DN-EB35MN</a>    | 20          | \$-07zj:  |
|                        |                | <a href="#">DN-EB35-A</a>    | 50          | \$07zh:                | <a href="#">DN-EB35-A</a>    | 50          | \$07zh:                | <a href="#">DN-EB35-A</a>    | 50          | \$07zh:   |
|                        |                | <a href="#">DN-EB35-A-10</a> | 10          | \$-07zi:               | <a href="#">DN-EB35-A-10</a> | 10          | \$-07zi:               | <a href="#">DN-EB35-A-10</a> | 10          | \$-07zi:  |
|                        |                | <a href="#">DN-QEB35</a>     | 50          | \$07zk:                | <a href="#">DN-QEB35</a>     | 50          | \$07zk:                | <a href="#">DN-QEB35</a>     | 50          | \$07zk:   |
|                        |                | <a href="#">DN-QEB35-10</a>  | 10          | \$-07zl:               | <a href="#">DN-QEB35-10</a>  | 10          | \$-07zl:               | <a href="#">DN-QEB35-10</a>  | 10          | \$-07zl:  |
| Angled Support Bracket |                | <a href="#">DN-ASB1</a>      | 50          | \$-007lk:              | <a href="#">DN-ASB1</a>      | 50          | \$-007lk:              | <a href="#">DN-ASB1</a>      | 50          | \$-007lk: |
| Marking Tags           |                | DN-LA or<br>DN-LT series     | 500/<br>100 | various                | DN-L or<br>DN-LT series      | 500/<br>100 | various                | DN-L or<br>DN-LT series      | 500/<br>100 | various   |

\*Copper Wire Only

\*\*Jumper Cutting Tools DN-JxCUT cut the applicable multi-pole jumpers and maintain the jumper insulation.

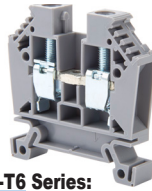
Note: For more information on accessories, see the DINnectors Accessories section of this chapter.



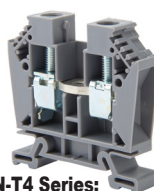


# Single-Level Terminal Blocks

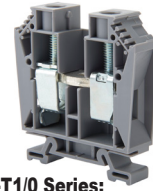
- Screw connection terminal
- 35mm DIN rail mountable
- LVD 2006/95/EC



**DN-T6 Series:**  
EURO 10/35



**DN-T4 Series:**  
EURO 16-25/35



**DN-T1/0 Series:**  
EURO 35-50/35



**DN-T3/0 Series:**  
EURO 70/35

## Ordering Information

| Available Colors | Part Number            | Qty | Price   | Part Number            | Qty | Price   | Part Number              | Qty | Price    | Part Number             | Qty | Price    |
|------------------|------------------------|-----|---------|------------------------|-----|---------|--------------------------|-----|----------|-------------------------|-----|----------|
| Gray             | <a href="#">DN-T6</a>  | 50  | \$07?u: | <a href="#">DN-T4</a>  | 25  | \$07?s: | <a href="#">DN-T1/0</a>  | 25  | \$007?5: | <a href="#">DN-T3/0</a> | 10  | \$007?q: |
| Blue             | <a href="#">DN-T6B</a> | 50  | \$07?v: | <a href="#">DN-T4B</a> | 25  | \$07?t: | <a href="#">DN-T1/0B</a> | 25  | \$007?6: | –                       | –   | –        |

## Technical Specifications

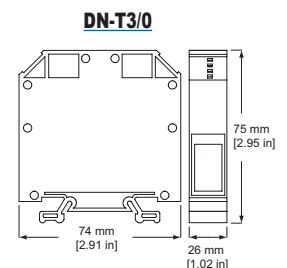
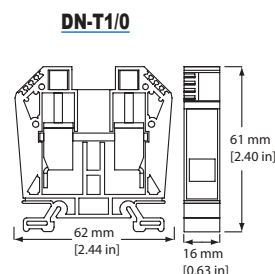
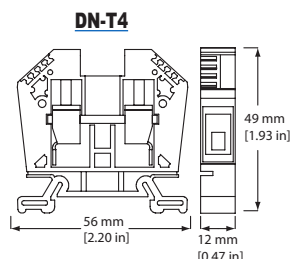
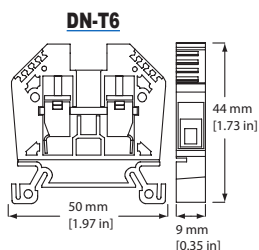
|                              |                                                                                                                          |     |          |                      |      |          |                    |      |            |                   |      |           |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----|----------|----------------------|------|----------|--------------------|------|------------|-------------------|------|-----------|
| <b>Stripping Length</b>      | 12mm [0.47 in]                                                                                                           |     |          | 14mm [0.55 in]       |      |          | 17mm [0.67 in]     |      |            | 26mm [1.02 in]    |      |           |
| <b>Tightening Torque</b>     | 2.0 N·m [18.0 lb·in]                                                                                                     |     |          | 3.0 N·m [26.5 lb·in] |      |          | 5.0 N·m [44 lb·in] |      |            | 10 N·m [89 lb·in] |      |           |
| <b>Density</b>               | 111/m [33 pcs/ft]                                                                                                        |     |          | 83/m [25 pcs/ft]     |      |          | 62/m [19 pcs/ft]   |      |            | 38/m [11 pcs/ft]  |      |           |
| <b>UL Approval*</b>          | 600V                                                                                                                     | 65A | 18-6 AWG | 600V                 | 85A  | 14-4 AWG | 600V               | 130A | 14-1/0 AWG | 600V              | 185A | 4-3/0 AWG |
| <b>VDE Approval</b>          | 750V                                                                                                                     | 63A | 10mm²    | 750V                 | 110A | 25mm²    | 800V               | 150A | 50mm²      | 800V              | 192A | 70mm²     |
| <b>Operating Temperature</b> | Ambient air temperature: -20 to 105°C [-4 to 221°F] / Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |     |          |                      |      |          |                    |      |            |                   |      |           |
| <b>SCCR Rating</b>           | 100kA                                                                                                                    |     |          |                      |      |          |                    |      |            |                   |      |           |
| <b>CE Conformity</b>         | CE (EN 60947-1 / EN 60947-7-1)                                                                                           |     |          |                      |      |          |                    |      |            |                   |      |           |
| <b>Agency File #</b>         | UL E179129                                                                                                               |     |          |                      |      |          |                    |      |            |                   |      |           |

## Accessories

|                        |                |                             |             |           |                             |             |           |                             |             |           |                             |             |           |
|------------------------|----------------|-----------------------------|-------------|-----------|-----------------------------|-------------|-----------|-----------------------------|-------------|-----------|-----------------------------|-------------|-----------|
| End Covers             |                | <a href="#">DN-EC86</a>     | 100         | \$;0et7:  | <a href="#">DN-EC4</a>      | 50          | \$;0et6:  | <a href="#">DN-EC1/0</a>    | 50          | \$;0et1:  | Included                    | –           | –         |
|                        |                | <a href="#">DN-EC86MN</a>   | 25          | \$;0et8:  | <a href="#">DN-EC4MN</a>    | 10          | \$7zp:    | <a href="#">DN-EC1/0MN</a>  | 10          | \$7zo:    |                             |             |           |
| Separators             |                | <a href="#">DN-S86</a>      | 100         | \$07ux:   | –                           |             |           | –                           |             |           | –                           |             |           |
|                        |                | <a href="#">DN-S86MN</a>    | 25          | \$05sc:   |                             |             |           |                             |             |           |                             |             |           |
| Jumpers                | 2-pole         | <a href="#">DN-2J6</a>      | 100         | \$05cy:   |                             |             |           |                             |             |           |                             |             |           |
|                        | 3-pole         | <a href="#">DN-3J6</a>      | 100         | \$;005c!: |                             |             |           |                             |             |           |                             |             |           |
|                        | 4-pole         | <a href="#">DN-4J6</a>      | 100         | \$005d1:  |                             |             |           |                             |             |           |                             |             |           |
| Multi-pole             |                | <a href="#">DN-55J6</a>     | 1           | \$05d2:   |                             |             |           |                             |             |           |                             |             |           |
| Top Cover              |                | <a href="#">DN-C86</a>      | 100         | \$07u_:   |                             |             |           |                             |             |           |                             |             |           |
|                        |                | <a href="#">DN-C86MN</a>    | 25          | \$07u#:   |                             |             |           |                             |             |           |                             |             |           |
| 35mm<br>DIN Rail       | 7.5 mm<br>high | <a href="#">DN-R35S1</a>    | 10          | \$-07lx:  | <a href="#">DN-R35S1</a>    | 10          | \$-07lx:  | <a href="#">DN-R35S1</a>    | 10          | \$-07lx:  | <a href="#">DN-R35S1</a>    | 10          | \$-07lx:  |
|                        |                | <a href="#">DN-R35S1-2</a>  | 2           | \$-07ly:  | <a href="#">DN-R35S1-2</a>  | 2           | \$-07ly:  | <a href="#">DN-R35S1-2</a>  | 2           | \$-07ly:  | <a href="#">DN-R35S1-2</a>  | 2           | \$-07ly:  |
|                        | 15mm<br>high   | <a href="#">DN-R35HS1</a>   | 10          | \$-07lu:  | <a href="#">DN-R35HS1</a>   | 10          | \$-07lu:  | <a href="#">DN-R35HS1</a>   | 10          | \$-07lu:  | <a href="#">DN-R35HS1</a>   | 10          | \$-07lu:  |
|                        |                | <a href="#">DN-R35HS1-2</a> | 2           | \$-07lv:  | <a href="#">DN-R35HS1-2</a> | 2           | \$-07lv:  | <a href="#">DN-R35HS1-2</a> | 2           | \$-07lv:  | <a href="#">DN-R35HS1-2</a> | 2           | \$-07lv:  |
| Angled Support Bracket |                | <a href="#">DN-ASB1</a>     | 50          | \$-007lk: | <a href="#">DN-ASB1</a>     | 50          | \$-007lk: | <a href="#">DN-ASB1</a>     | 50          | \$-007lk: | <a href="#">DN-ASB1</a>     | 50          | \$-007lk: |
| Marking Tags           |                | DN-L or<br>DN-LT series     | 500/<br>100 | various   | DN-L or<br>DN-LT            | 500/<br>100 | various   | DN-L or<br>DN-LT series     | 500/<br>100 | various   | DN-L or<br>DN-LT series     | 500/<br>100 | various   |

\*Copper wire only

## Dimensions

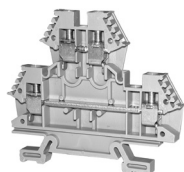
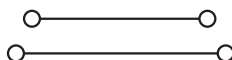


Note: Screw is a Hex Bolt,  
Size M8

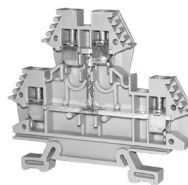
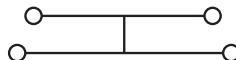


# DINnectors® Double-Level Terminal Blocks

- Screw connection terminal
- 35mm DIN-rail mountable
- LVD 2006/95/EC
- DN-D10X-A is supplied with an internal jumper to common all four connection points



**DN-D10-A**  
Series: EURO D 4-2/35



**DN-D10X-A\*\***  
Series: EURO D 4-2/35

Double-level terminal blocks offer twice the wiring density of feed-through blocks. The DN-D10X-A version is supplied with an internal jumper to common all four of its connection points.

## Ordering Information

| Available Colors | Part Number                 | Qty | Price     | Part Number               | Qty | Price     |
|------------------|-----------------------------|-----|-----------|---------------------------|-----|-----------|
| Gray             | <a href="#">DN-D10-A</a>    | 50  | \$007zb:  | <a href="#">DN-D10X-A</a> | 50  | \$;007!u: |
| Blue             | <a href="#">DN-D10B-A</a>   | 50  | \$007zc:  |                           |     |           |
| Black            | <a href="#">DN-D10BLK-A</a> | 50  | \$007zd:  |                           |     |           |
| Green            | <a href="#">DN-D10GRN-A</a> | 50  | \$;007!p: |                           |     |           |
| Orange           | <a href="#">DN-D10ORG-A</a> | 50  | \$;007!s: |                           |     |           |
| Red              | <a href="#">DN-D10RED-A</a> | 50  | \$;007!t: |                           |     |           |
| Yellow           | <a href="#">DN-D10YEL-A</a> | 50  | \$;007!v: |                           |     |           |

## Technical Specifications

|                              |                                                                                                                           |     |           |                   |     |           |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----|-----------|-------------------|-----|-----------|
| <b>Stripping Length</b>      | 10mm [0.39 in]                                                                                                            |     |           | 10mm [0.39 in]    |     |           |
| <b>Tightening Torque</b>     | 0.6 N·m [7 lb·in]                                                                                                         |     |           | 0.6 N·m [7 lb·in] |     |           |
| <b>Density</b>               | 166/m [50 pcs/ft]                                                                                                         |     |           | 166/m [50 pcs/ft] |     |           |
| <b>UL Approval*</b>          | 600V                                                                                                                      | 30A | 24-10 AWG | 600V              | 30A | 24-10 AWG |
| <b>VDE Approval</b>          | 800V                                                                                                                      | 32A | 4mm²      | 800V              | 32A | 4mm²      |
| <b>Operating Temperature</b> | Ambient air temperature: -20 to 105°C [-4 to 221°F]<br>Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |     |           |                   |     |           |
| <b>SCCR Rating</b>           | 100kA                                                                                                                     |     |           |                   |     |           |
| <b>CE Conformity</b>         | CE (EN 60947-1 / EN 60947-7-1)                                                                                            |     |           |                   |     |           |
| <b>Agency File #</b>         | UL E179129                                                                                                                |     |           |                   |     |           |

## Accessories

|                        |                |                              |         |           |                              |         |           |
|------------------------|----------------|------------------------------|---------|-----------|------------------------------|---------|-----------|
| End Covers             |                | <a href="#">DN-DEC10</a>     | 50      | \$;0et0:  | <a href="#">DN-DEC10</a>     | 50      | \$;0et0:  |
|                        |                | <a href="#">DN-DEC10MN</a>   | 10      | \$7zn:    | <a href="#">DN-DEC10MN</a>   | 10      | \$7zn:    |
| Jumpers**              | 2-pole         | <a href="#">DN-2J4Y</a>      | 100     | \$05cx:   | <a href="#">DN-2J4Y</a>      | 100     | \$05cx:   |
|                        |                | <a href="#">DN-2J4YMN</a>    | 25      | \$-07ui:  | <a href="#">DN-2J4YMN</a>    | 25      | \$-07ui:  |
|                        | 3-pole         | <a href="#">DN-3J4Y</a>      | 100     | \$05c#:   | <a href="#">DN-3J4Y</a>      | 100     | \$05c#:   |
|                        |                | <a href="#">DN-3J4YMN</a>    | 25      | \$-07ul:  | <a href="#">DN-3J4YMN</a>    | 25      | \$-07ul:  |
|                        | 24-pole        | <a href="#">DN-24J4Y</a>     | 5       | \$07oh:   | <a href="#">DN-24J4Y</a>     | 5       | \$07oh:   |
| Jumper Cutting Tool*** |                | <a href="#">DN-J4CUT</a>     | 1       | \$.04,n:  | <a href="#">DN-J4CUT</a>     | 1       | \$.04,n:  |
| Top Cover              |                | <a href="#">DN-DC10</a>      | 100     | \$07xy:   | <a href="#">DN-DC10</a>      | 100     | \$07xy:   |
|                        |                | <a href="#">DN-DC10MN</a>    | 25      | \$07xz:   | <a href="#">DN-DC10MN</a>    | 25      | \$07xz:   |
| Test Plug/Red          |                | <a href="#">DN-TPR</a>       | 10      | \$07ne:   | <a href="#">DN-TPR</a>       | 10      | \$07ne:   |
| Test Plug/Black        |                | <a href="#">DN-TPB</a>       | 10      | \$07nd:   | <a href="#">DN-TPB</a>       | 10      | \$07nd:   |
| 35mm<br>DIN Rail       | 7.5 mm<br>high | <a href="#">DN-R35S1</a>     | 10      | \$.07lx:  | <a href="#">DN-R35S1</a>     | 10      | \$.07lx:  |
|                        |                | <a href="#">DN-R35S1-2</a>   | 2       | \$.07ly:  | <a href="#">DN-R35S1-2</a>   | 2       | \$.07ly:  |
|                        | 15mm<br>high   | <a href="#">DN-R35HS1</a>    | 10      | \$.07lu:  | <a href="#">DN-R35HS1</a>    | 10      | \$.07lu:  |
|                        |                | <a href="#">DN-R35HS1-2</a>  | 2       | \$.07lv:  | <a href="#">DN-R35HS1-2</a>  | 2       | \$.07lv:  |
| End Brackets           |                | <a href="#">DN-EB35</a>      | 50      | \$07zg:   | <a href="#">DN-EB35</a>      | 50      | \$07zg:   |
|                        |                | <a href="#">DN-EB35MN</a>    | 20      | \$.07zj:  | <a href="#">DN-EB35MN</a>    | 20      | \$.07zj:  |
|                        |                | <a href="#">DN-EB35-A</a>    | 50      | \$07zh:   | <a href="#">DN-EB35-A</a>    | 50      | \$07zh:   |
|                        |                | <a href="#">DN-EB35-A-10</a> | 10      | \$.07zi:  | <a href="#">DN-EB35-A-10</a> | 10      | \$.07zi:  |
|                        |                | <a href="#">DN-QEB35</a>     | 50      | \$07zk:   | <a href="#">DN-QEB35</a>     | 50      | \$07zk:   |
|                        |                | <a href="#">DN-QEB35-10</a>  | 10      | \$.07zl:  | <a href="#">DN-QEB35-10</a>  | 10      | \$.07zl:  |
| Angled Support Bracket |                | <a href="#">DN-ASB1</a>      | 50      | \$.007!k: | <a href="#">DN-ASB1</a>      | 50      | \$.007!k: |
| Marking Tags           |                | DN-L or DN-LT series         | 500/100 | various   | DN-L or DN-LT series         | 500/100 | various   |

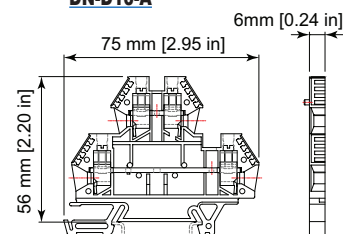
\*Copper wire only

\*\*Jumpering and testing should be done on bottom level only for the [DN-D10X-A](#)

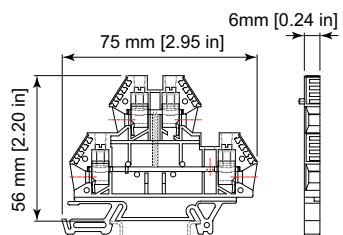
\*\*\*Jumper Cutting Tool [DN-J4CUT](#) cuts DN-xJ4Y Series multi-pole jumpers and maintains the jumper insulation.

## Dimensions

**DN-D10-A**



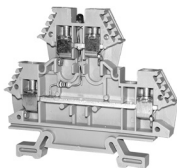
**DN-D10X-A**



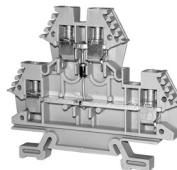


# DINnectors Double-Level Terminal Blocks

- Screw connection terminal
- 35mm DIN-rail mountable
- LVD 2006/95/EC
- Jumpering and testing should be done on bottom level only



**DN-D10LED1-A**  
Series: EURO D 4-2/35



**DN-D10DR-A**  
Series: EURO D 4-2/35

## Ordering Information

| Color | Part Number                  | Qty | Price    | Part Number                | Qty | Price     |
|-------|------------------------------|-----|----------|----------------------------|-----|-----------|
| Gray  | <a href="#">DN-D10LED1-A</a> | 10  | \$;071q: | <a href="#">DN-D10DR-A</a> | 50  | \$;007!o: |

## Technical Specifications

|                              |                                                                                                                            |     |           |                   |            |           |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----|-----------|-------------------|------------|-----------|
| <b>Stripping Length</b>      | 10mm [0.39 in]                                                                                                             |     |           | 10mm [0.39 in]    |            |           |
| <b>Tightening Torque</b>     | 0.6 N·m [7 lb·in]                                                                                                          |     |           | 0.6 N·m [7 lb·in] |            |           |
| <b>Density</b>               | 166/m [50 pcs/ft]                                                                                                          |     |           | 166/m [50 pcs/ft] |            |           |
| <b>LED Voltage</b>           | 12-24 V AC/DC 3.4 kΩ                                                                                                       |     |           | -                 |            |           |
| <b>UL Approval*</b>          | 600V                                                                                                                       | 30A | 24-10 AWG | 600V              | 1A (Diode) | 24-10 AWG |
| <b>VDE Approval</b>          | 800V                                                                                                                       | 32A | 4mm²      | 800V              | 1A (Diode) | 4mm²      |
| <b>Operating Temperature</b> | Ambient air temperature: -20 to 105°C [-4F to 221°F]<br>Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |     |           |                   |            |           |
| <b>SCCR Rating</b>           | 100kA                                                                                                                      |     |           |                   |            |           |
| <b>CE Conformity</b>         | CE (EN 60947-1 / EN 60947-7-1)                                                                                             |     |           |                   |            |           |
| <b>Agency File #</b>         | UL E179129                                                                                                                 |     |           |                   |            |           |

## Accessories

|                        |                |                      |         |           |                      |         |           |
|------------------------|----------------|----------------------|---------|-----------|----------------------|---------|-----------|
| End Covers             |                | DN-DEC10             | 50      | \$;0et0:  | DN-DEC10             | 50      | \$;0et0:  |
|                        |                | DN-DEC10MN           | 10      | \$7zn:    | DN-DEC10MN           | 10      | \$7zn:    |
| Jumpers**              | 2-pole         | DN-2J4Y              | 100     | \$05cx:   | DN-2J4Y              | 100     | \$05cx:   |
|                        |                | DN-2J4YMN            | 25      | \$-07ui:  | DN-2J4YMN            | 25      | \$-07ui:  |
|                        | 3-pole         | DN-3J4Y              | 100     | \$05c#:   | DN-3J4Y              | 100     | \$05c#:   |
|                        |                | DN-3J4YMN            | 25      | \$-07ul:  | DN-3J4YMN            | 25      | \$-07ul:  |
|                        | 24-pole        | DN-24J4Y             | 5       | \$07oh:   | DN-24J4Y             | 5       | \$07oh:   |
| Jumper Cutting Tool*** |                | DN-J4CUT             | 1       | \$;04,n:  | DN-J4CUT             | 1       | \$;04,n:  |
| Top Cover              |                | DN-DC10              | 100     | \$07xy:   | DN-DC10              | 100     | \$07xy:   |
|                        |                | DN-DC10MN            | 25      | \$07xz:   | DN-DC10MN            | 25      | \$07xz:   |
| Test Plug/Red          |                | DN-TPR               | 10      | \$07ne:   | DN-TPR               | 10      | \$07ne:   |
| Test Plug/Black        |                | DN-TPB               | 10      | \$07nd:   | DN-TPB               | 10      | \$07nd:   |
| 35mm<br>DIN Rail       | 7.5 mm<br>high | DN-R35S1             | 10      | \$-07lx:  | DN-R35S1             | 10      | \$-07lx:  |
|                        |                | DN-R35S1-2           | 2       | \$-07ly:  | DN-R35S1-2           | 2       | \$-07ly:  |
|                        | 15mm<br>high   | DN-R35HS1            | 10      | \$-07lu:  | DN-R35HS1            | 10      | \$-07lu:  |
|                        |                | DN-R35HS1-2          | 2       | \$-07lv:  | DN-R35HS1-2          | 2       | \$-07lv:  |
| End Brackets           |                | DN-EB35              | 50      | \$07zg:   | DN-EB35              | 50      | \$07zg:   |
|                        |                | DN-EB35MN            | 20      | \$-07zj:  | DN-EB35MN            | 20      | \$-07zj:  |
|                        |                | DN-EB35-A            | 50      | \$07zh:   | DN-EB35-A            | 50      | \$07zh:   |
|                        |                | DN-EB35-A-10         | 10      | \$-07zi:  | DN-EB35-A-10         | 10      | \$-07zi:  |
|                        |                | DN-QEB35             | 50      | \$07zk:   | DN-QEB35             | 50      | \$07zk:   |
|                        |                | DN-QEB35-10          | 10      | \$-07zl:  | DN-QEB35-10          | 10      | \$-07zl:  |
| Angled Support Bracket |                | DN-ASB1              | 50      | \$-007lk: | DN-ASB1              | 50      | \$-007lk: |
| Marking Tags           |                | DN-L or DN-LT series | 500/100 | various   | DN-L or DN-LT series | 500/100 | various   |

\*Copper wire only

\*\*Jumpering and testing should be done on bottom level only.

\*\*\*Jumper Cutting Tool DN-J4CUT cuts DN-xJ4Y Series multi-pole jumpers and maintains the jumper insulation.

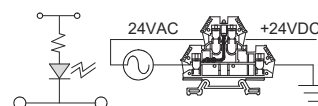
For more information on accessories, see the DINnectors Accessories section of this chapter.

## LED terminal blocks

These terminal blocks have built-in LED indicators. The LED illuminates when voltage is present. The LED1 version is for 24V AC/DC circuits, and includes current-limiting elements.

*Note: Wire only one supply.*

### DN-D10LED1-A

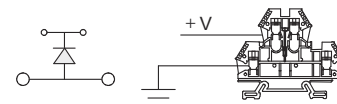


## Diode terminal blocks

Typically, an inductive load produces a spike (neg.-going) when it is turned off. These terminal blocks with built-in diodes help protect your PLC's output circuits. The circuit below shows the normal voltages to the load (during ON state).

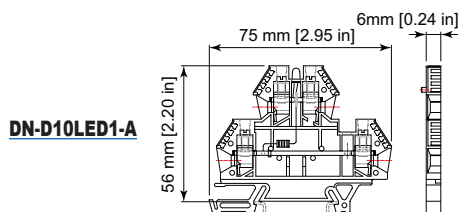
(Please see application note AN-MISC-032 at <http://support.automationdirect.com/docs/an-misc-032.pdf>)

### DN-D10DR-A

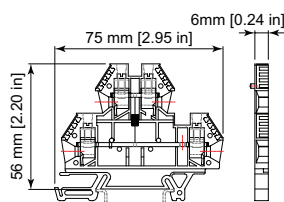


1N4007 Reverse bias diode

(See Diode information located on page tTBL-60)



**DN-D10DR-A**




**DINnectors**

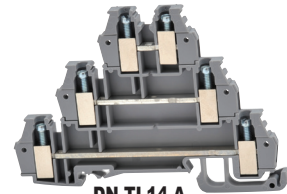
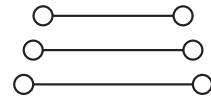
# Triple-level and Sensor Terminal Blocks

Triple-level terminal blocks enable high-density wiring or simplified, low-cost sensor wiring.

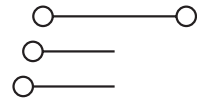
When wiring space is at a premium, use the [DN-TL14-A](#) to connect three separate circuits in only 5mm of linear DIN-rail space. The rest of our family of triple-level blocks will allow you to wire one terminal block per sensor, vs. the traditional method, which requires three different single-level blocks per sensor.

The [DN-TL14S-A](#) is the standard sensor terminal block, and the [DN-TL14SLP-A](#) and [DN-TL14SLN-A](#) provide LED indication at the terminal block when voltage is present.

- Screw connection terminal
- 35mm DIN-rail mountable
- LVD 2006/95/EC



**DN-TL14-A**  
Series: EURO W 2.5/35



**DN-TL14S-A**  
Series: EURO Z 2.5/35

## Ordering Information

| Color | Part Number               | Qty | Price   | Part Number                | Qty | Price   |
|-------|---------------------------|-----|---------|----------------------------|-----|---------|
| Gray  | <a href="#">DN-TL14-A</a> | 25  | \$07zl: | <a href="#">DN-TL14S-A</a> | 25  | \$07z?: |

## Technical Specifications

|                              |                                                                                                                           |     |           |                     |     |           |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----|-----------|---------------------|-----|-----------|
| <b>Stripping Length</b>      | 10 mm [0.39 in]                                                                                                           |     |           | 10 mm [0.39 in]     |     |           |
| <b>Tightening Torque</b>     | 0.5 N·m [4.5 lb·in]                                                                                                       |     |           | 0.5 N·m [4.5 lb·in] |     |           |
| <b>Density</b>               | 200/m [57 pcs/ft]                                                                                                         |     |           | 200/m [57 pcs/ft]   |     |           |
| <b>UL Approval*</b>          | 300V                                                                                                                      | 10A | 26-14 AWG | 300V                | 10A | 26-14 AWG |
| <b>VDE Approval</b>          | 300V                                                                                                                      | 10A | 2.5 mm²   | 300V                | 10A | 2.5 mm²   |
| <b>Operating Temperature</b> | Ambient air temperature: -20 to 105°C [-4 to 221°F]<br>Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |     |           |                     |     |           |
| <b>SCCR Rating</b>           | 10kA per Table SB4.1, 2009, UL 508A, Maximum short circuit current rating for unmarked components                         |     |           |                     |     |           |
| <b>CE Conformity</b>         | CE (EN 60947-1 / EN 60947-7-1)                                                                                            |     |           |                     |     |           |
| <b>Agency File #</b>         | UL E179129                                                                                                                |     |           |                     |     |           |

## Accessories

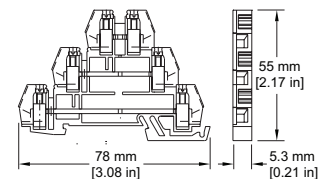
| End Covers             |              | DN-EC14         | 25  | \$0et4:   | DN-EC14S        | 25  | \$0et5:   |
|------------------------|--------------|-----------------|-----|-----------|-----------------|-----|-----------|
| Jumpers                | 2-pole Blue  | DN-2JL14B-A     | 100 | \$05c]:   | DN-2JL14B-A     | 100 | \$05c]:   |
|                        |              | DN-2JL14B-AMN   | 25  | \$05c]:   | DN-2JL14B-AMN   | 25  | \$05c]:   |
|                        | 3-pole Blue  | DN-3JL14B-A     | 100 | \$005c,:: | DN-3JL14B-A     | 100 | \$005c,:: |
|                        |              | DN-3JL14B-AMN   | 25  | \$05d0:   | DN-3JL14B-AMN   | 25  | \$05d0:   |
|                        | 12-pole Blue | DN-12JL14B-A    | 10  | \$05cu:   | DN-12JL14B-A    | 10  | \$05cu:   |
|                        | 2-pole Red   | DN-2JL14-A      | 100 | \$05cz:   | DN-2JL14-A      | 100 | \$05cz:   |
|                        |              | DN-2JL14-AMN    | 25  | \$07uj:   | DN-2JL14-AMN    | 25  | \$07uj:   |
|                        | 3-pole Red   | DN-3JL14-A      | 100 | \$005c?:  | DN-3JL14-A      | 100 | \$005c?:  |
|                        |              | DN-3JL14-AMN    | 25  | \$07un:   | DN-3JL14-AMN    | 25  | \$07un:   |
| 12-pole Red            |              | DN-12JL14-A     | 10  | \$05ct:   | DN-12JL14-A     | 10  | \$05ct:   |
| Jumper Cutting Tool    |              | DN-JL14CUT      | 1   | \$007uo:  | DN-JL14CUT      | 1   | \$007uo:  |
| 35mm DIN Rail          | 7.5 mm high  | DN-R35S1        | 10  | \$07lx:   | DN-R35S1        | 10  | \$07lx:   |
|                        |              | DN-R35S1-2      | 2   | \$07ly:   | DN-R35S1-2      | 2   | \$07ly:   |
|                        | 15mm high    | DN-R35HS1       | 10  | \$07lu:   | DN-R35HS1       | 10  | \$07lu:   |
|                        |              | DN-R35HS1-2     | 2   | \$07lv:   | DN-R35HS1-2     | 2   | \$07lv:   |
| End Brackets           |              | DN-EB35         | 50  | \$07zg:   | DN-EB35         | 50  | \$07zg:   |
|                        |              | DN-EB35MN       | 20  | \$07zj:   | DN-EB35MN       | 20  | \$07zj:   |
|                        |              | DN-EB35-A       | 50  | \$07zh:   | DN-EB35-A       | 50  | \$07zh:   |
|                        |              | DN-EB35-A-10    | 10  | \$07zi:   | DN-EB35-A-10    | 10  | \$07zi:   |
|                        |              | DN-QEB35        | 50  | \$07zk:   | DN-QEB35        | 50  | \$07zk:   |
|                        |              | DN-QEB35-10     | 10  | \$07zl:   | DN-QEB35-10     | 10  | \$07zl:   |
| Angled Support Bracket |              | DN-ASB1         | 50  | \$007lk:  | DN-ASB1         | 50  | \$007lk:  |
| Marking Tags           |              | DN-LAT-A series | 500 | various   | DN-LAT-A series | 500 | various   |

\*Copper wire only

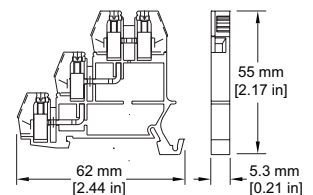
For more information on accessories, see the [DINnectors Accessories](#) section of this chapter.

## Dimensions

**DN-TL14-A**



**DN-TL14S-A**



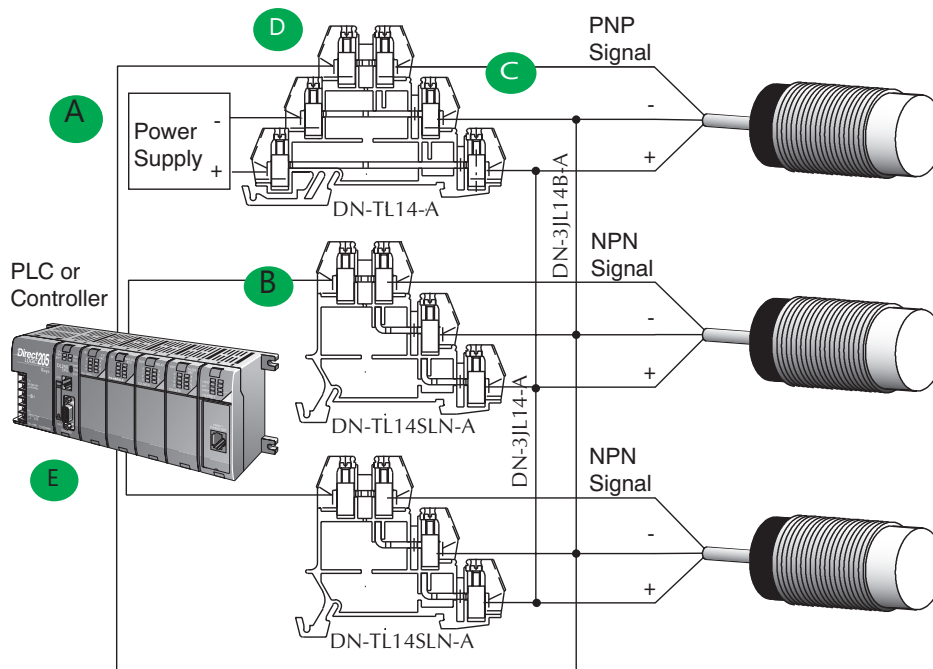


**DIN***nectors*<sup>®</sup>

# Triple-level and Sensor Terminal Blocks

## Sensor wiring has never been this simple.

- **A** Wire the bottom two levels of one DN-TL14-A to connect your power supply to what will become a sensor +V and -V power bus.
- **B** Mount the triple-level sensor blocks next to the DN-TL14-A. The DN-TL14S-A is our standard sensor terminal block. The DN-TL14SLP-A gives you LED indication for PNP sensors, and the DN-TL14SLN-A gives you LED indication for NPN sensors.
- **C** Use the top level to connect the first sensor signal line to the PLC.
- **D** Connect the power supply terminals of the DN-TL14-A to the LED sensor terminal blocks by installing jumpers. This will create a +V and -V power bus on the two bottom levels of the terminals. Use an external wire to connect a group of 12 DN-TL14-As to another group.
- **E** Wire the sensor signal lines through the top levels of the blocks to your PLC or controller. Remember to use the appropriate end covers to cover any exposed metal parts for safety purposes.



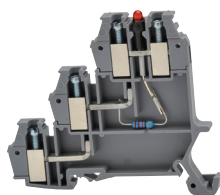
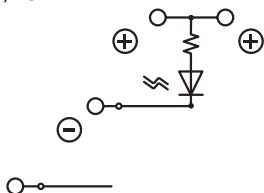
**Note:** Wiring schematic is for reference only. See individual I/O modules for correct wiring connections.





# Triple-level and Sensor Terminal Blocks with LED

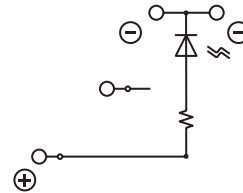
- Screw connection terminal
- 35mm DIN-rail mountable
- LVD 2006/95/EC



**DN-TL14SLP-A**  
Series: EURO Z 2.5 LP/35



**DN-TL14SLN-A**  
Series: EURO Z 2.5 LN/35



## Ordering Information

| Color | Part Number                  | Qty | Price     | Part Number                  | Qty | Price     |
|-------|------------------------------|-----|-----------|------------------------------|-----|-----------|
| Gray  | <a href="#">DN-TL14SLP-A</a> | 25  | \$;007j1: | <a href="#">DN-TL14SLN-A</a> | 25  | \$;007j0: |

## Technical Specifications

|                               |                                                                                                                           |     |           |                        |     |           |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----|-----------|------------------------|-----|-----------|
| <b>Stripping Length</b>       | 10 mm [0.39 in]                                                                                                           |     |           | 10 mm [0.39 in]        |     |           |
| <b>Tightening Torque</b>      | 0.5 N·m [4.5 lb·in]                                                                                                       |     |           | 0.5 N·m [4.5 lb·in]    |     |           |
| <b>Density</b>                | 200/m [57 pcs/ft]                                                                                                         |     |           | 200/m [57 pcs/ft]      |     |           |
| <b>Leakage Current</b>        | 25mA@5V                                                                                                                   |     |           | 25mA@5V                |     |           |
| <b>LED Voltage/Resistance</b> | 12 – 24V AC/DC. 3.4 kΩ                                                                                                    |     |           | 12 – 24V AC/DC. 3.4 kΩ |     |           |
| <b>UL Approval*</b>           | 300V                                                                                                                      | 10A | 26-14 AWG | 300V                   | 10A | 26-14 AWG |
| <b>VDE Approval</b>           | 300V                                                                                                                      | 10A | 2.5 mm²   | 300V                   | 10A | 2.5 mm²   |
| <b>Operating Temperature</b>  | Ambient air temperature: -20 to 105°C [-4 to 221°F]<br>Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |     |           |                        |     |           |
| <b>SCCR Rating</b>            | 10kA per Table SB4.1, 2009, UL 508A,<br>Maximum short circuit current rating for unmarked components                      |     |           |                        |     |           |
| <b>CE Conformity</b>          | CE (EN 60947-1 / EN 60947-7-1)                                                                                            |     |           |                        |     |           |
| <b>Agency File #</b>          | UL E179129                                                                                                                |     |           |                        |     |           |

## Accessories

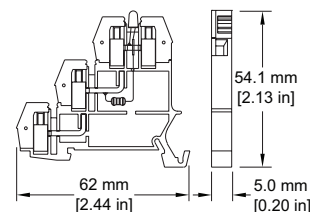
| End Cover              |              | DN-EC14S        |              | 25  | \$;0et5:  | DN-EC14S        |              | 25  | \$;0et5:  |         |
|------------------------|--------------|-----------------|--------------|-----|-----------|-----------------|--------------|-----|-----------|---------|
| Jumpers                | 2-pole Blue  | DN-2JL14B-A     |              | 100 | \$;05cj:  | DN-2JL14B-A     |              | 100 | \$;05cj:  |         |
|                        |              | DN-2JL14B-AMN   |              | 25  | \$;05cj:  | DN-2JL14B-AMN   |              | 25  | \$;05cj:  |         |
|                        | 3-pole Blue  | DN-3JL14B-A     |              | 100 | \$;005c,: | DN-3JL14B-A     |              | 100 | \$;005c,: |         |
|                        |              | DN-3JL14B-AMN   |              | 25  | \$05d0:   | DN-3JL14B-AMN   |              | 25  | \$05d0:   |         |
|                        | 12-pole Blue |                 | DN-12JL14B-A |     | 10        | \$05cu:         | DN-12JL14B-A |     | 10        | \$05cu: |
|                        | 2-pole Red   | DN-2JL14-A      |              | 100 | \$05cz:   | DN-2JL14-A      |              | 100 | \$05cz:   |         |
|                        |              | DN-2JL14-AMN    |              | 25  | \$-07uj:  | DN-2JL14-AMN    |              | 25  | \$-07uj:  |         |
|                        | 3-pole Red   | DN-3JL14-A      |              | 100 | \$005c?:  | DN-3JL14-A      |              | 100 | \$005c?:  |         |
|                        |              | DN-3JL14-AMN    |              | 25  | \$07un:   | DN-3JL14-AMN    |              | 25  | \$07un:   |         |
| 12-pole Red            |              | DN-12JL14-A     |              | 10  | \$;05ct:  | DN-12JL14-A     |              | 10  | \$;05ct:  |         |
| Jumper Cutting Tool    |              | DN-JL14CUT      |              | 1   | \$007uo:  | DN-JL14CUT      |              | 1   | \$007uo:  |         |
| 35mm DIN Rail          | 7.5 mm high  | DN-R35S1        |              | 10  | \$-07lx:  | DN-R35S1        |              | 10  | \$-07lx:  |         |
|                        |              | DN-R35S1-2      |              | 2   | \$-07ly:  | DN-R35S1-2      |              | 2   | \$-07ly:  |         |
|                        | 15mm high    | DN-R35HS1       |              | 10  | \$-07lu:  | DN-R35HS1       |              | 10  | \$-07lu:  |         |
|                        |              | DN-R35HS1-2     |              | 2   | \$-07lv:  | DN-R35HS1-2     |              | 2   | \$-07lv:  |         |
| End Brackets           |              | DN-EB35         |              | 50  | \$07zg:   | DN-EB35         |              | 50  | \$07zg:   |         |
|                        |              | DN-EB35MN       |              | 20  | \$-07zj:  | DN-EB35MN       |              | 20  | \$-07zj:  |         |
|                        |              | DN-EB35-A       |              | 50  | \$07zh:   | DN-EB35-A       |              | 50  | \$07zh:   |         |
|                        |              | DN-EB35-A-10    |              | 10  | \$-07zi:  | DN-EB35-A-10    |              | 10  | \$-07zi:  |         |
|                        |              | DN-QEB35        |              | 50  | \$07zk:   | DN-QEB35        |              | 50  | \$07zk:   |         |
|                        |              | DN-QEB35-10     |              | 10  | \$-07zl:  | DN-QEB35-10     |              | 10  | \$-07zl:  |         |
| Angled Support Bracket |              | DN-ASB1         |              | 50  | \$-007lk: | DN-ASB1         |              | 50  | \$-007lk: |         |
| Marking Tags           |              | DN-LAT-A series |              | 500 | various   | DN-LAT-A series |              | 500 | various   |         |

\*Copper wire only

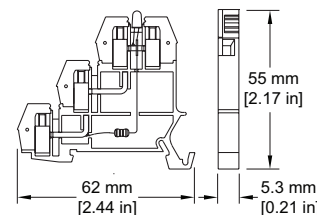
For more information on accessories, see the DINnectors Accessories section of this chapter.

## Dimensions

**DN-TL14SLP-A**



**DN-TL14SLN-A**



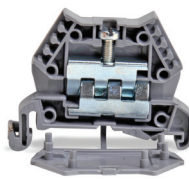


# Thermocouple Terminal Blocks

- 35mm DIN-rail mountable
- UL E179129
- CE (EN 60947-1 / EN 60947-7-1)



**DN-THERM1 (open)** –  
Series: EURO TC - 50 Volt



**DN-THERM2 (open)**  
Series: EURO TC - 300 Volt



**DN-THERMx**  
(shown closed)

## Ordering Information

| Color | Part Number                 | Qty | Price     | Part Number                 | Qty | Price    |
|-------|-----------------------------|-----|-----------|-----------------------------|-----|----------|
| Gray  | <a href="#">DN-THERM1</a>   | 50  | \$;007nf: | <a href="#">DN-THERM2</a>   | 50  | \$007ng: |
|       | <a href="#">DN-THERM1MN</a> | 10  | \$;05]2:  | <a href="#">DN-THERM2MN</a> | 10  | \$;05]3: |

## Technical Specifications

|                              |                                                                                                                           |   |                         |      |               |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------|---|-------------------------|------|---------------|
| <b>Stripping Length</b>      | 20mm [0.79 in]                                                                                                            |   | 20mm [0.79 in]          |      |               |
| <b>Tightening Torque</b>     | 0.099 N·m [0.875 lb·in]                                                                                                   |   | 0.099 N·m [0.875 lb·in] |      |               |
| <b>UL Approval*</b>          | 50V AC/DC                                                                                                                 | – | 30-20 AWG               | 300V | 10A 20-16 AWG |
| <b>Operating Temperature</b> | Ambient air temperature: -20 to 105°C [-4 to 221°F]<br>Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |   |                         |      |               |
| <b>SCCR Rating</b>           | 10kA per Table SB4.1, 2009, UL 508A, Maximum short circuit current rating for unmarked components                         |   |                         |      |               |
| <b>CE Conformity</b>         | CE (EN 60947-1 / EN 60947-7-1)                                                                                            |   |                         |      |               |
| <b>Agency File #</b>         | UL E179129                                                                                                                |   |                         |      |               |

## Accessories

| End Cover                     |                | Included                     |         |           |                              |         |           |
|-------------------------------|----------------|------------------------------|---------|-----------|------------------------------|---------|-----------|
| 35mm<br>DIN Rail              | 7.5 mm<br>high | <a href="#">DN-R35S1</a>     | 10      | \$-07lx:  | <a href="#">DN-R35S1</a>     | 10      | \$-07lx:  |
|                               |                | <a href="#">DN-R35S1-2</a>   | 2       | \$-07ly:  | <a href="#">DN-R35S1-2</a>   | 2       | \$-07ly:  |
|                               | 15mm<br>high   | <a href="#">DN-R35HS1</a>    | 10      | \$-07lu:  | <a href="#">DN-R35HS1</a>    | 10      | \$-07lu:  |
|                               |                | <a href="#">DN-R35HS1-2</a>  | 2       | \$-07lv:  | <a href="#">DN-R35HS1-2</a>  | 2       | \$-07lv:  |
| End Brackets                  |                | <a href="#">DN-EB35</a>      | 50      | \$07zg:   | <a href="#">DN-EB35</a>      | 50      | \$07zg:   |
|                               |                | <a href="#">DN-EB35MN</a>    | 20      | \$-07zj:  | <a href="#">DN-EB35MN</a>    | 20      | \$-07zj:  |
|                               |                | <a href="#">DN-EB35-A</a>    | 50      | \$07zh:   | <a href="#">DN-EB35-A</a>    | 50      | \$07zh:   |
|                               |                | <a href="#">DN-EB35-A-10</a> | 10      | \$-07zi:  | <a href="#">DN-EB35-A-10</a> | 10      | \$-07zi:  |
|                               |                | <a href="#">DN-QEB35</a>     | 50      | \$07zk:   | <a href="#">DN-QEB35</a>     | 50      | \$07zk:   |
|                               |                | <a href="#">DN-QEB35-10</a>  | 10      | \$-07zl:  | <a href="#">DN-QEB35-10</a>  | 10      | \$-07zl:  |
| <b>Angled Support Bracket</b> |                | <a href="#">DN-ASB1</a>      | 50      | \$-007lk: | <a href="#">DN-ASB1</a>      | 50      | \$-007lk: |
| <b>Marking Tags</b>           |                | DN-L or DN-LT series         | 500/100 | various   | DN-L or DN-LT series         | 500/100 | various   |

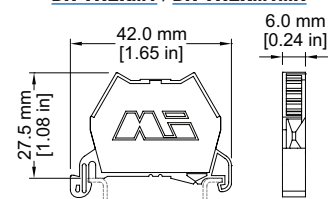
\*Copper wire only

DN-THERM1 has no assigned amp rating; intended for use with thermocouple wires only.

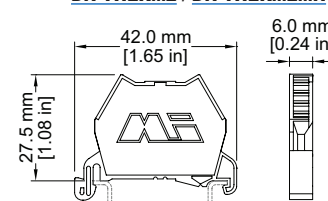
For more information on accessories, see the DINnectors Accessories section of this chapter.

Thermocouple terminal blocks are designed with only one screw clamp to provide suitable connections to thermocouple sensors. The DN-THERM1 and DN-THERM2 clamping yoke terminal blocks have been designed to accept any type of thermocouple lead connection within their rated wire size ranges. The thermocouple leads are simply stripped of their insulation to 20mm (0.79"), and then inserted into the terminal block where the two wires overlap. The leads are clamped together on both sides of the terminal block, resulting in an excellent electrical connection to the thermocouple without the need for any other compensation metals/contacts.

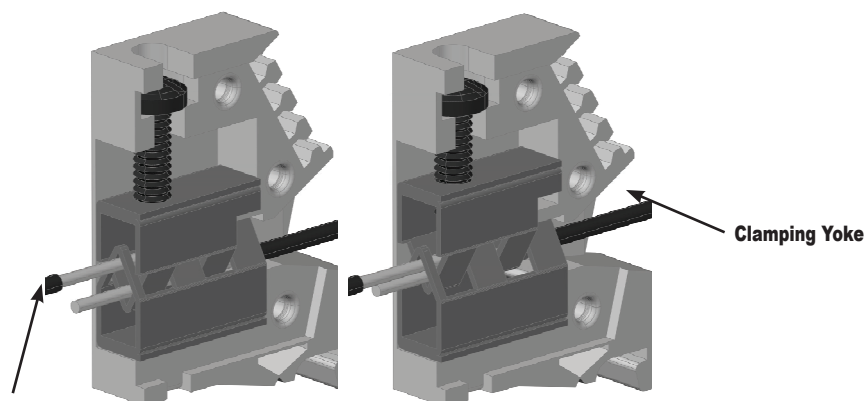
### DN-THERM1 / DN-THERM1MN



### DN-THERM2 / DN-THERM2MN



### DN-THERMx operation



Overlap of thermocouple wires allows for universal connections.



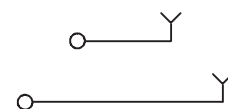
# Plug-In Terminal Blocks

Single and double level DN-EMxxx plug-in terminal blocks with screw terminals accept all DN-xxPLUG(MN) Euro plugs and are 35mm DIN rail mountable.



(4) DN-EMXM1  
Series: EURO XM1/2V 2.5/35

(4) DN-EMXM1 with  
(2) DN-4PLUG



(4) DN-EMXDV  
Series: EURO XDV 2.5/35



(4) DN-EMXDV with  
(2) DN-4PLUG

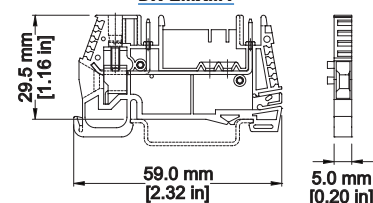
| Ordering Information     |                                                                                                                           |              |                                                    |                           |              |           |          |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------------|---------------------------|--------------|-----------|----------|
| Color                    | Part Number                                                                                                               | Qty          | Price                                              | Part Number               | Qty          | Price     |          |
| Gray                     | DN-EMXM1                                                                                                                  | 32           | \$07nc:                                            | DN-EMXDV                  | 32           | \$07nb:   |          |
| Technical Specifications |                                                                                                                           |              |                                                    |                           |              |           |          |
| Stripping Length         | 8mm [0.31 in]                                                                                                             |              |                                                    | 8mm [0.31 in]             |              |           |          |
| Tightening Torque        | 0.45 N·m [4 lb·in]                                                                                                        |              |                                                    | 0.45 N·m [4 lb·in]        |              |           |          |
| UL Approval*             | 300V                                                                                                                      | 12A          | 24-12 AWG                                          | 300V                      | 12A          | 24-12 AWG |          |
| Operating Temperature    | Ambient air temperature: -20 to 105°C [-4 to 221°F]<br>Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |              |                                                    |                           |              |           |          |
| SCCR Rating              | 10kA per Table SB4.1, 2009, UL 508A,<br>Maximum short circuit current rating for unmarked components                      |              |                                                    |                           |              |           |          |
| CE Conformity            | CE (EN 60947-1 / EN 60947-7-1)                                                                                            |              |                                                    |                           |              |           |          |
| Agency File #            | UL E179129                                                                                                                |              |                                                    |                           |              |           |          |
| Accessories              |                                                                                                                           |              |                                                    |                           |              |           |          |
| End Cover                | left (open) side                                                                                                          | DN-EMXM1EC1  | 25                                                 | \$;0ete:                  | DN-EMXDVEC1  | 25        | \$;0etc: |
|                          | right (closed) side                                                                                                       | DN-EMXM1EC2  | 25                                                 | \$;;0etf:                 | DN-EMXDVEC2  | 25        | \$;0etd: |
| Spacer                   | Either side                                                                                                               | DN-EMXM1SPA1 | 25                                                 | \$07uq:                   | DN-EMXDVSPA1 | 25        | \$07up:  |
| 35mm DIN Rail            | 7.5 mm high                                                                                                               | DN-R35S1     | 10                                                 | \$-07lx:                  | DN-R35S1     | 10        | \$-07lx: |
|                          |                                                                                                                           | DN-R35S1-2   | 2                                                  | \$-07ly:                  | DN-R35S1-2   | 2         | \$-07ly: |
|                          | 15mm high                                                                                                                 | DN-R35HS1    | 10                                                 | \$-07lu:                  | DN-R35HS1    | 10        | \$-07lu: |
|                          |                                                                                                                           | DN-R35HS1-2  | 2                                                  | \$-07lv:                  | DN-R35HS1-2  | 2         | \$-07lv: |
| Jumpers**                | 2-pole                                                                                                                    | DN-2J2Y      | 100                                                | \$05cv:                   | DN-2J2Y      | 100       | \$05cv:  |
|                          |                                                                                                                           | DN-2J2YMN    | 25                                                 | \$07uh:                   | DN-2J2YMN    | 25        | \$07uh:  |
|                          | 3-pole                                                                                                                    | DN-3J2Y      | 100                                                | \$05c_:                   | DN-3J2Y      | 100       | \$05c_:  |
|                          |                                                                                                                           | DN-3J2YMN    | 25                                                 | \$07uk:                   | DN-3J2YMN    | 25        | \$07uk:  |
|                          | 24-pole                                                                                                                   | DN-24J2Y     | 1                                                  | \$07og:                   | DN-24J2Y     | 1         | \$07og:  |
|                          |                                                                                                                           |              |                                                    |                           |              |           |          |
| Jumper Cutting Tool**    |                                                                                                                           | DN-J2CUT     | 1                                                  | \$;04,k:                  | DN-J2CUT     | 1         | \$;04,k: |
| Pin Protector – 4-pole   |                                                                                                                           | DN-EMPEG1    | Each piece covers and protects up to 4 unused pins |                           |              | \$;7xj:   |          |
| End Brackets             |                                                                                                                           | DN-EB35      | 50                                                 | \$07zg:                   | DN-EB35      | 50        | \$07zg:  |
|                          |                                                                                                                           | DN-EB35MN    | 20                                                 | \$-07zj:                  | DN-EB35MN    | 20        | \$-07zj: |
|                          |                                                                                                                           | DN-EB35-A    | 50                                                 | \$07zh:                   | DN-EB35-A    | 50        | \$07zh:  |
|                          |                                                                                                                           | DN-EB35-A-10 | 10                                                 | \$-07zi:                  | DN-EB35-A-10 | 10        | \$-07zi: |
|                          |                                                                                                                           | DN-QEB35     | 50                                                 | \$07zk:                   | DN-QEB35     | 50        | \$07zk:  |
|                          |                                                                                                                           | DN-QEB35-10  | 10                                                 | \$-07zl:                  | DN-QEB35-10  | 10        | \$-07zl: |
| Marking Tags             | DN-LA, DN-LT, or DN-EMLBL                                                                                                 | 500/100      | various                                            | DN-LA, DN-LT, or DN-EMLBL | 500/100      | various   |          |

\* For copper wire only

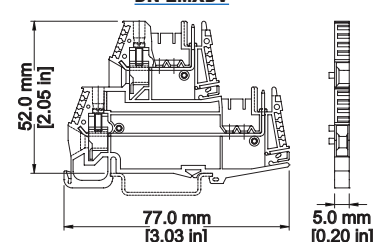
\*\* Jumper Cutting Tool **DN-J2CUT** cuts DN-xJ2Y Series multi-pole jumpers and MAINTAINS THE INSULATION

For more information on accessories, see the DINnectors Accessories section of this chapter.

**DN-EMXM1**



**DN-EMXDV**



## Accessories – Terminal Plugs

| *Part Number      | Number of Poles | Length in [mm] | Qty | Price    | *Part Number       | Number of Poles | Length in [mm] | Qty | Price     |
|-------------------|-----------------|----------------|-----|----------|--------------------|-----------------|----------------|-----|-----------|
| <b>DN-2PLUG</b>   | 2               | 0.40           | 200 | \$006a9: | <b>DN-8PLUG</b>    | 8               | 1.60           | 50  | \$,006af: |
| <b>DN-2PLUGMN</b> |                 | [10.2]         | 10  | \$7n3:   | <b>DN-8PLUGMN</b>  |                 | [40.6]         | 5   | \$07n9:   |
| <b>DN-3PLUG</b>   | 3               | 0.60           | 200 | \$006aa: | <b>DN-9PLUG</b>    | 9               | 1.80           | 50  | \$006ag:  |
| <b>DN-3PLUGMN</b> |                 | [15.2]         | 10  | \$07n4:  | <b>DN-9PLUGMN</b>  |                 | [45.7]         | 5   | \$07na:   |
| <b>DN-4PLUG</b>   | 4               | 0.80           | 100 | \$006ab: | <b>DN-10PLUG</b>   | 10              | 2.00           | 50  | \$00675:  |
| <b>DN-4PLUGMN</b> |                 | [20.3]         | 10  | \$07n5:  | <b>DN-10PLUGMN</b> |                 | [50.8]         | 5   | \$07n0:   |
| <b>DN-5PLUG</b>   | 5               | 1.00           | 100 | \$006ac: | <b>DN-11PLUG</b>   | 11              | 2.20           | 50  | \$00676:  |
| <b>DN-5PLUGMN</b> |                 | [25.4]         | 10  | \$07n6:  | <b>DN-11PLUGMN</b> |                 | [55.9]         | 5   | \$07n1:   |
| <b>DN-6PLUG</b>   | 6               | 1.20           | 100 | \$006ad: | <b>DN-12PLUG</b>   | 12              | 2.40           | 50  | \$00677:  |
| <b>DN-6PLUGMN</b> |                 | [30.5]         | 10  | \$07n7:  | <b>DN-12PLUGMN</b> |                 | [61.0]         | 5   | \$07n2:   |
| <b>DN-7PLUG</b>   | 7               | 1.40           | 50  | \$006ae: |                    |                 |                |     |           |
| <b>DN-7PLUGMN</b> |                 | [35.6]         | 5   | \$07n8:  |                    |                 |                |     |           |

\* DN-xxPLUGs fit all DN-EMxxx & DN-QEMxxx plug-in terminal blocks.

## Terminal Plugs Ratings

|                       |                                                                                                                    |
|-----------------------|--------------------------------------------------------------------------------------------------------------------|
| Voltage/Current       | 300V, 12A                                                                                                          |
| Wire Gauge            | 14–22 AWG, CU only                                                                                                 |
| Torque                | Tightening Torque: 0.51 N·m [4.5 lb·in]                                                                            |
| Operating Temperature | Ambient air temp: -20 to 105°C [-4 to 221°F]<br>Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |
| Agency Approvals      | UL file #: E179129                                                                                                 |

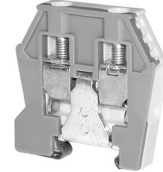


# Mini Terminal Blocks

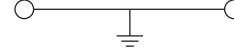
Mini terminal blocks are used in areas with extremely limited space requirements, and mount on the smaller DIN rail type [DN-R15S1](#).



**DN-M10-A**  
Series: EURO 4/15



**DN-MG10**  
Series: EURO E4/15



## Ordering Information

| Color        | Part Number               | Qty | Price    | Part Number             | Qty | Price    |
|--------------|---------------------------|-----|----------|-------------------------|-----|----------|
| Gray         | <a href="#">DN-M10-A</a>  | 100 | \$007z_: | —                       | —   | —        |
| Blue         | <a href="#">DN-M10B-A</a> | 100 | \$007z#: | —                       | —   | —        |
| Green/Yellow | —                         | —   | —        | <a href="#">DN-MG10</a> | 20  | \$:07z[: |

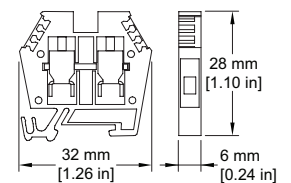
## Technical Specifications

|                              |                                                                                                                           |     |                  |                     |   |                  |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----|------------------|---------------------|---|------------------|
| <b>Stripping Length</b>      | 10mm [0.39 in]                                                                                                            |     |                  | 10mm [0.39 in]      |   |                  |
| <b>Tightening Torque</b>     | 0.6 N·m [5.3 lb·in]                                                                                                       |     |                  | 0.6 N·m [5.3 lb·in] |   |                  |
| <b>Density</b>               | 142/m [43 pcs/ft]                                                                                                         |     |                  | 166/m [50 pcs/ft]   |   |                  |
| <b>CE Conformity</b>         | LVD 2006/95/EC                                                                                                            |     |                  | LVD 2006/95/EC      |   |                  |
| <b>UL Approval*</b>          | 300V                                                                                                                      | 30A | 24-10 AWG        | —                   | — | 18-10 AWG        |
| <b>VDE Approval</b>          | 400V                                                                                                                      | 32A | 4mm <sup>2</sup> | —                   | — | 4mm <sup>2</sup> |
| <b>Operating Temperature</b> | Ambient air temperature: -20 to 105°C [-4 to 221°F]<br>Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |     |                  |                     |   |                  |
| <b>SCCR Rating</b>           | 10kA per Table SB4.1, 2009, UL 508A,<br>Maximum short circuit current rating for unmarked components                      |     |                  |                     |   |                  |
| <b>CE Conformity</b>         | CE (EN 60947-1 / EN 60947-7-1)                                                                                            |     |                  |                     |   |                  |
| <b>Agency File #</b>         | UL E179129                                                                                                                |     |                  |                     |   |                  |

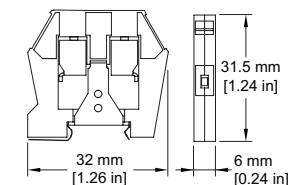
## Accessories

|                        |             |                            |     |           |                            |     |           |
|------------------------|-------------|----------------------------|-----|-----------|----------------------------|-----|-----------|
| End Covers             |             | <a href="#">DN-ECM10</a>   | 100 | \$;0eta:  |                            |     |           |
|                        |             | <a href="#">DN-ECM10MN</a> | 25  | \$;0etb:  |                            |     |           |
| Jumpers                | 2-pole      | <a href="#">DN-2J4Y</a>    | 100 | \$05cx:   | -                          |     |           |
|                        |             | <a href="#">DN-2J4YMN</a>  | 25  | \$-07ui:  |                            |     |           |
|                        | 3-pole      | <a href="#">DN-3J4Y</a>    | 100 | \$05c#:   |                            |     |           |
|                        |             | <a href="#">DN-3J4YMN</a>  | 25  | \$-07ul:  |                            |     |           |
|                        | 24-pole     | <a href="#">DN-24J4Y</a>   | 5   | \$07oh:   |                            |     |           |
| Jumper Cutting Tool**  |             | <a href="#">DN-J4CUT</a>   | 1   | \$;04,n:  |                            |     |           |
| Top Cover              |             | <a href="#">DN-MC10</a>    | 100 | \$;07x[:  |                            |     |           |
|                        |             | <a href="#">DN-MC10MN</a>  | 25  | \$07x_:   |                            |     |           |
| Test Plug/Red          |             | <a href="#">DN-TPR</a>     | 10  | \$07ne:   |                            |     |           |
| Test Plug/Black        |             | <a href="#">DN-TPB</a>     | 10  | \$07nd:   |                            |     |           |
| 15mm DIN Rail          | 5.5 mm high | <a href="#">DN-R15S1</a>   | 10  | \$-07ls:  | <a href="#">DN-R15S1</a>   | 10  | \$-07ls:  |
|                        |             | <a href="#">DN-R15S1-2</a> | 2   | \$;-07lt: | <a href="#">DN-R15S1-2</a> | 2   | \$;-07lt: |
| End Brackets           |             | <a href="#">DN-EB15</a>    | 100 | \$007ze:  | -                          |     |           |
|                        |             | <a href="#">DN-EB15MN</a>  | 20  | \$;07zf:  |                            |     |           |
| Angled Support Bracket |             | <a href="#">DN-ASB1</a>    | 50  | \$-007lk: | <a href="#">DN-ASB1</a>    | 50  | \$-007lk: |
| Marking Tags           |             | DN-LT series               | 100 | various   | DN-LT series               | 100 | various   |

**DN-M10-A**



**DN-MG10**



\* For copper wire only

\*\* Jumper cutting tool [DN-J4CUT](#) cuts DN-xJ4Y Series multi-pole jumpers and maintains the jumper insulations.

For more information on accessories, see the [DINnectors Accessories](#) section of this chapter.

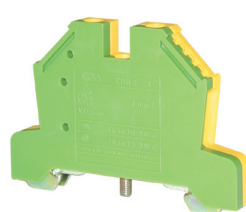


# Ground Terminal Blocks

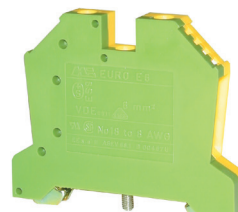
Ground terminal blocks are used to mechanically and electrically connect wires to the DIN rail by means of a conducting clamping foot. In this way, the DIN rail can function as a ground bus bar.

*Note: The use of an end bracket is not required when a ground block is positioned at the end of a terminal block assembly.*

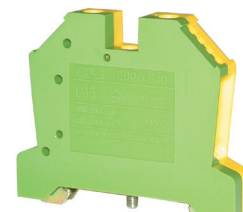
Ground blocks are molded in green and yellow per international standards and are 35mm DIN rail mountable.



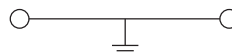
**DN-G10**  
Series: EURO E4/35



**DN-G8**  
Series: EURO E6/35



**DN-G6**  
Series: EURO E10/35



## Ordering Information

|                             | Part Number               | Qty | Price     | Part Number              | Qty | Price     | Part Number              | Qty | Price     |
|-----------------------------|---------------------------|-----|-----------|--------------------------|-----|-----------|--------------------------|-----|-----------|
| Green/Yellow Terminal Block | <a href="#">DN-G10</a>    | 50  | \$;007zt: | <a href="#">DN-G8</a>    | 50  | \$;007zz: | <a href="#">DN-G6</a>    | 50  | \$;007zx: |
|                             | <a href="#">DN-G10-10</a> | 10  | \$;07zu:  | <a href="#">DN-G8-10</a> | 10  | \$;07zj:  | <a href="#">DN-G6-10</a> | 10  | \$;07zy:  |

## Technical Specifications

|                              |                                                                                                                           |   |                  |                    |   |                  |                    |   |                   |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------|---|------------------|--------------------|---|------------------|--------------------|---|-------------------|
| <b>Stripping Length</b>      | 10mm [0.39 in]                                                                                                            |   |                  | 12mm [0.47 in]     |   |                  | 13mm [0.51]        |   |                   |
| <b>Tightening Torque</b>     | 0.8 N·m [7 lb·in]                                                                                                         |   |                  | 1.1 N·m [10 lb·in] |   |                  | 2.3 N·m [20 lb·in] |   |                   |
| <b>Ground Screw Torque</b>   | —                                                                                                                         |   |                  | 0.8 N·m [7 lb·in]  |   |                  | —                  |   |                   |
| <b>Density</b>               | 142/m [43 pcs/ft]                                                                                                         |   |                  | 125/m [38 pcs/ft]  |   |                  | 100/m [30 pcs/ft]  |   |                   |
| <b>UL Approval*</b>          | —                                                                                                                         | — | 24-10 AWG        | —                  | — | 22-8 AWG         | —                  | — | 20-6 AWG          |
| <b>VDE Approval</b>          | —                                                                                                                         | — | 4mm <sup>2</sup> | —                  | — | 6mm <sup>2</sup> | —                  | — | 10mm <sup>2</sup> |
| <b>Operating Temperature</b> | Ambient air temperature: -20 to 105°C [-4w to 221°F] / Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |   |                  |                    |   |                  |                    |   |                   |
| <b>SCCR Rating</b>           | 10kA per Table SB4.1, 2009, UL 508A, Maximum short circuit current rating for unmarked components                         |   |                  |                    |   |                  |                    |   |                   |
| <b>CE Conformity</b>         | CE (EN 60947-1 / EN 60947-7-2)                                                                                            |   |                  |                    |   |                  |                    |   |                   |
| <b>Agency File #</b>         | UL E179129 / LR84816                                                                                                      |   |                  |                    |   |                  |                    |   |                   |

## Accessories

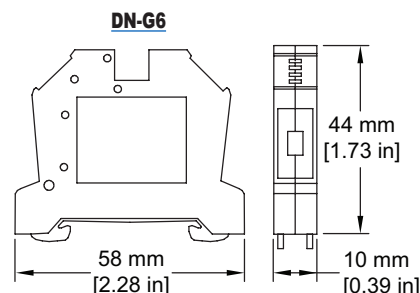
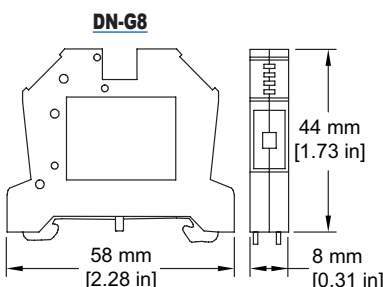
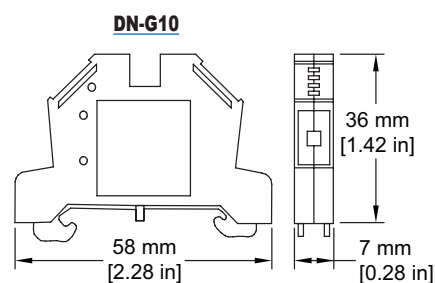
|                        |                |                             |         |           |                             |         |           |                             |         |           |
|------------------------|----------------|-----------------------------|---------|-----------|-----------------------------|---------|-----------|-----------------------------|---------|-----------|
| 35mm<br>DIN Rail       | 7.5 mm<br>high | <a href="#">DN-R35S1</a>    | 10      | \$-07lx:  | <a href="#">DN-R35S1</a>    | 10      | \$-07lx:  | <a href="#">DN-R35S1</a>    | 10      | \$-07lx:  |
|                        |                | <a href="#">DN-R35S1-2</a>  | 2       | \$-07ly:  | <a href="#">DN-R35S1-2</a>  | 2       | \$-07ly:  | <a href="#">DN-R35S1-2</a>  | 2       | \$-07ly:  |
|                        | 15mm<br>high   | <a href="#">DN-R35HS1</a>   | 10      | \$-07lu:  | <a href="#">DN-R35HS1</a>   | 10      | \$-07lu:  | <a href="#">DN-R35HS1</a>   | 10      | \$-07lu:  |
|                        |                | <a href="#">DN-R35HS1-2</a> | 2       | \$-07lv:  | <a href="#">DN-R35HS1-2</a> | 2       | \$-07lv:  | <a href="#">DN-R35HS1-2</a> | 2       | \$-07lv:  |
| Angled Support Bracket |                | <a href="#">DN-ASB1</a>     | 50      | \$-007lk: | <a href="#">DN-ASB1</a>     | 50      | \$-007lk: | <a href="#">DN-ASB1</a>     | 50      | \$-007lk: |
| Marking Tags           |                | DN-L ** or<br>DN-LT***      | 500/100 | various   | DN-L ** or<br>DN-LT***      | 500/100 | various   | DN-L ** or<br>DN-LT***      | 500/100 | various   |

\*For copper wire only

\*\*On lever arm

\*\*\*On terminal body

Note: For more information on accessories, see the DINnectors Accessories section of this chapter.





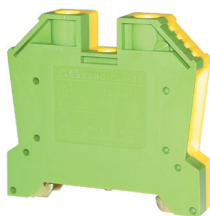

**DINnectors®**

# Ground Terminal Blocks

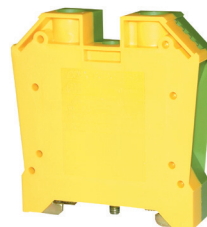
Ground terminal blocks are used to mechanically and electrically connect wires to the DIN rail by means of a conducting clamping foot. In this way, the DIN rail can function as a ground bus bar.

*Note: The use of an end bracket is not required when a ground block is positioned at the end of a terminal block assembly.*

Ground blocks are molded in green and yellow per international standards and are 35mm DIN-rail mountable.



**DN-G4**  
Series: EURO E 16-25/35



**DN-G1/0**  
Series: EURO E 35-50/35

## Ordering Information

|                    | Part Number    | Qty | Price    | Part Number      | Qty | Price    |
|--------------------|----------------|-----|----------|------------------|-----|----------|
| Green/Yellow Block | <b>DN-G4</b>   | 25  | \$007zv: | <b>DN-G1/0</b>   | 25  | \$007zs: |
|                    | <b>DN-G4MN</b> | 8   | \$.05jh: | <b>DN-G1/0MN</b> | 5   | \$.05jg: |

## Technical Specifications

|                            |                                                                                                   |   |          |                    |   |            |
|----------------------------|---------------------------------------------------------------------------------------------------|---|----------|--------------------|---|------------|
| <b>Stripping Length</b>    | 14mm [0.55 in]                                                                                    |   |          | 18mm [0.71 in]     |   |            |
| <b>Tightening Torque</b>   | 3.4 N·m [30 lb·in]                                                                                |   |          | 5.1 N·m [45 lb·in] |   |            |
| <b>Ground Screw Torque</b> | 1.1 N·m [10 lb·in]                                                                                |   |          | 1.1 N·m [10 lb·in] |   |            |
| <b>Density</b>             | 83/m [25 pcs/ft]                                                                                  |   |          | 62/m [19 pcs/ft]   |   |            |
| <b>UL Approval*</b>        | –                                                                                                 |   | 14-4 AWG | –                  | – | 14-1/0 AWG |
| <b>VDE Approval</b>        | –                                                                                                 | – | 25mm²    | –                  | – | 35mm²      |
| <b>SCCR Rating</b>         | 10kA per Table SB4.1, 2009, UL 508A, Maximum short circuit current rating for unmarked components |   |          |                    |   |            |
| <b>CE Conformity</b>       | CE (EN 60947-1 / 60947-7-2)                                                                       |   |          |                    |   |            |
| <b>Agency File #</b>       | UL E179129 / LR84816                                                                              |   |          |                    |   |            |

## Accessories

|                        |                |                             |         |           |                             |         |           |
|------------------------|----------------|-----------------------------|---------|-----------|-----------------------------|---------|-----------|
| 35mm<br>DIN Rail       | 7.5 mm<br>high | <a href="#">DN-R35S1</a>    | 10      | \$-07lx:  | <a href="#">DN-R35S1</a>    | 10      | \$-07lx:  |
|                        |                | <a href="#">DN-R35S1-2</a>  | 2       | \$-07ly:  | <a href="#">DN-R35S1-2</a>  | 2       | \$-07ly:  |
|                        | 15mm<br>high   | <a href="#">DN-R35HS1</a>   | 10      | \$-07lu:  | <a href="#">DN-R35HS1</a>   | 10      | \$-07lu:  |
|                        |                | <a href="#">DN-R35HS1-2</a> | 2       | \$-07lv:  | <a href="#">DN-R35HS1-2</a> | 2       | \$-07lv:  |
| Angled Support Bracket |                | <a href="#">DN-ASB1</a>     | 50      | \$-007lk: | <a href="#">DN-ASB1</a>     | 50      | \$-007lk: |
| Marking Tags           |                | DN-L ** or<br>DN-LT***      | 500/100 | various   | DN-L ** or<br>DN-LT***      | 500/100 | various   |

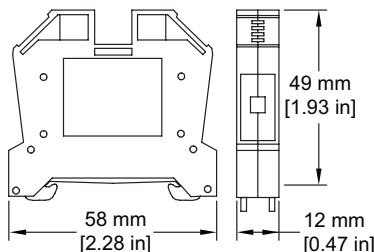
\*For copper wire only

\*\*On lever arm

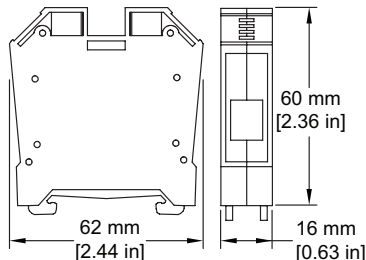
\*\*\*On terminal body

Note: For more information on accessories, see the **DINnectors Accessories** section of this chapter.

**DN-G4 / DN-G4MN**



**DN-G1/0 / DN-G1/0MN**





# Fuse Terminal Blocks

Fuse terminal blocks are available for 1 1/4" x 1/4" and 5x20mm-5x25mm fuses and they are 35mm DIN rail mountable. These blocks are available with or without a blown fuse LED. Fuse terminal blocks with blown fuse LED are polarity sensitive. The hinge side is positive.



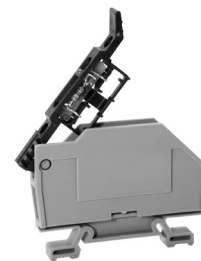
**DN-F6 Series:**  
EURO S 10H/35



**DN-F6L Series:**  
EURO S 10H/35



**DN-F10 Series:**  
EURO S 4LH/35



**DN-F10L Series:**  
EURO S 4LH/35

## Ordering Information

|                            | Part Number    | Qty | Price    | Part Number      | Qty | Price   | Part Number     | Qty | Price    | Part Number       | Qty | Price    |
|----------------------------|----------------|-----|----------|------------------|-----|---------|-----------------|-----|----------|-------------------|-----|----------|
| <b>Gray Terminal Block</b> | <b>DN-F6</b>   | 25  | \$007y1: | -                |     |         | <b>DN-F10</b>   | 50  | \$007x#: | -                 |     |          |
|                            | <b>DN-F6MN</b> | 7   | \$07y5:  |                  |     |         | <b>DN-F10MN</b> | 10  | \$07y0:  |                   |     |          |
| <b>12-24 VAC/DC*</b>       | -              |     |          | <b>DN-F6L24</b>  | 10  | \$07y4: | -               |     |          | <b>DN-F10L24</b>  | 10  | \$:07x.: |
| <b>110 VAC/DC*</b>         |                |     |          | <b>DN-F6L110</b> | 10  | \$07y2: |                 |     |          | <b>DN-F10L110</b> | 10  | \$:07x!: |
| <b>220 VAC/DC*</b>         |                |     |          | <b>DN-F6L220</b> | 10  | \$07y3: |                 |     |          | <b>DN-F10L220</b> | 10  | \$07x?:  |

## Technical Specifications

|                          |                                                                                                                         |     |                          |                      |                      |                          |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------|-----|--------------------------|----------------------|----------------------|--------------------------|
| Stripping Length         | 12mm [0.47 in]                                                                                                          |     |                          | 10mm [0.39 in]       |                      |                          |
| Tightening Torque        | 0.8 N·m [10 lb·in]                                                                                                      |     |                          | 0.6 N·m [5.3 lb·in]  |                      |                          |
| Density                  | 100/m [30 pcs/ft]                                                                                                       |     |                          | 100/m [30 pcs/ft]    |                      |                          |
| UL Approval**            | 600V                                                                                                                    | 30A | 20-6 AWG                 | 250V per EN60947-7-3 | 6.3A per EN60947-7-3 | 24-10 AWG                |
| VDE Approval             | 750V                                                                                                                    | 8A  | –                        | 250V per EN60947-7-3 | 6.3A per EN60947-7-3 | 4mm²                     |
| Fuse Size (not supplied) | 1 1/4" x 1/4"                                                                                                           |     |                          | 5x20mm-5x25mm        |                      |                          |
| Indicator Type           | Non-indicating                                                                                                          |     | LED blown fuse indicator | Non-indicating       |                      | LED blown fuse indicator |
| Operating Temperature    | Ambient air temperature: -20 to 85°C [-4 to 185°F] / Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |     |                          |                      |                      |                          |
| SCCR Rating              | 10kA per Table SB4.1, 2009, UL 508A, Maximum short circuit current rating for unmarked components                       |     |                          |                      |                      |                          |
| CE Conformity            | CE (EN 60947-1 / 60947-7-3)                                                                                             |     |                          |                      |                      |                          |
| Agency File #            | UL E179129 / LR84816                                                                                                    |     |                          |                      |                      |                          |

## Accessories

| <b>End Covers</b>             |                    | Included             |         |           | Included             |         |           | Included             |         |           | Included             |         |           |
|-------------------------------|--------------------|----------------------|---------|-----------|----------------------|---------|-----------|----------------------|---------|-----------|----------------------|---------|-----------|
| <b>35mm DIN Rail</b>          | <b>7.5 mm high</b> | <b>DN-R35S1</b>      | 10      | \$-07lx:  | <b>DN-R35S1</b>      | 10      | \$-07lx:  | <b>DN-R35S1</b>      | 10      | \$-07lx:  | <b>DN-R35S1</b>      | 10      | \$-07lx:  |
|                               |                    | <b>DN-R35S1-2</b>    | 2       | \$-07ly:  | <b>DN-R35S1-2</b>    | 2       | \$-07ly:  | <b>DN-R35S1-2</b>    | 2       | \$-07ly:  | <b>DN-R35S1-2</b>    | 2       | \$-07ly:  |
|                               | <b>15mm high</b>   | <b>DN-R35HS1</b>     | 10      | \$-07lu:  | <b>DN-R35HS1</b>     | 10      | \$-07lu:  | <b>DN-R35HS1</b>     | 10      | \$-07lu:  | <b>DN-R35HS1</b>     | 10      | \$-07lu:  |
|                               |                    | <b>DN-R35HS1-2</b>   | 2       | \$-07lv:  | <b>DN-R35HS1-2</b>   | 2       | \$-07lv:  | <b>DN-R35HS1-2</b>   | 2       | \$-07lv:  | <b>DN-R35HS1-2</b>   | 2       | \$-07lv:  |
| <b>End Brackets</b>           |                    | <b>DN-EB35</b>       | 50      | \$07zg:   | <b>DN-EB35</b>       | 50      | \$07zg:   | <b>DN-EB35</b>       | 50      | \$07zg:   | <b>DN-EB35</b>       | 50      | \$07zg:   |
|                               |                    | <b>DN-EB35MN</b>     | 20      | \$-07zj:  | <b>DN-EB35MN</b>     | 20      | \$-07zj:  | <b>DN-EB35MN</b>     | 20      | \$-07zj:  | <b>DN-EB35MN</b>     | 20      | \$-07zj:  |
|                               |                    | <b>DN-EB35-A</b>     | 50      | \$07zh:   | <b>DN-EB35-A</b>     | 50      | \$07zh:   | <b>DN-EB35-A</b>     | 50      | \$07zh:   | <b>DN-EB35-A</b>     | 50      | \$07zh:   |
|                               |                    | <b>DN-EB35-A-10</b>  | 10      | \$-07zi:  | <b>DN-EB35-A-10</b>  | 10      | \$-07zi:  | <b>DN-EB35-A-10</b>  | 10      | \$-07zi:  | <b>DN-EB35-A-10</b>  | 10      | \$-07zi:  |
|                               |                    | <b>DN-QEB35</b>      | 50      | \$07zk:   | <b>DN-QEB35</b>      | 50      | \$07zk:   | <b>DN-QEB35</b>      | 50      | \$07zk:   | <b>DN-QEB35</b>      | 50      | \$07zk:   |
|                               |                    | <b>DN-QEB35-10</b>   | 10      | \$-07zl:  | <b>DN-QEB35-10</b>   | 10      | \$-07zl:  | <b>DN-QEB35-10</b>   | 10      | \$-07zl:  | <b>DN-QEB35-10</b>   | 10      | \$-07zl:  |
| <b>Angled Support Bracket</b> |                    | <b>DN-ASB1</b>       | 50      | \$-007lk: | <b>DN-ASB1</b>       | 50      | \$-007lk: | <b>DN-ASB1</b>       | 50      | \$-007lk: | <b>DN-ASB1</b>       | 50      | \$-007lk: |
| <b>Marking Tags</b>           |                    | DN-L*** or DN-LT**** | 500/100 | various   | DN-L*** or DN-LT**** | 500/100 | various   | DN-L*** or DN-LT**** | 500/100 | various   | DN-L*** or DN-LT**** | 500/100 | various   |

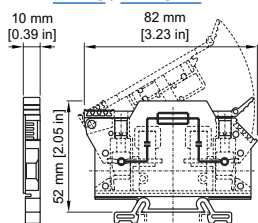
\*Working voltage \*\*For copper wire only \*\*\*On lever arm \*\*\*\*On terminal body

Note: DN-F6 series fuse holders will accommodate the following AutomationDirect fuses: ABC, AGC, MDA and MDL Series.

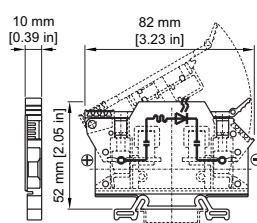
DN-F10 series fuse holders will accommodate the following AutomationDirect fuses: GMA, GMC, S500, and S506 Series.

For more information on accessories, see the DINnectors Accessories section of this chapter.

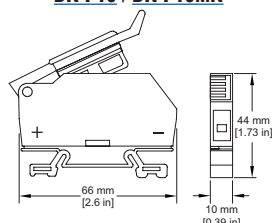
**DN-F6 / DN-F6MN**



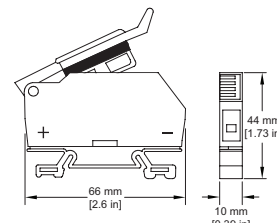
**DN-F6L**



**DN-F10 / DN-F10MN**



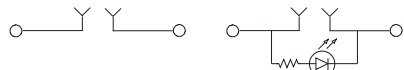
**DN-F10L**





# Supplementary Protector / Disconnect Terminal Block Sockets

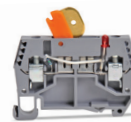
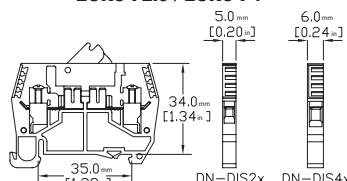
DN-DIS series Disconnect Terminal Blocks offer the flexibility of opening a circuit without removing any wiring. Available with or without LED indication in 12VDC and 24VDC, they can also be used as a socket for the DN-SUPP series Supplementary Protectors by simply removing the Disconnect Blade.



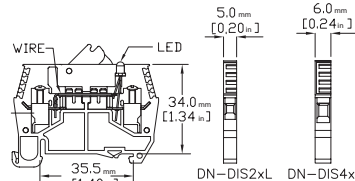
**WARNING: DO NOT DISCONNECT UNDER LOAD**



**DN-DISx Series:  
EURO F2.5 / EURO F4**



**DN-DISxL Series: EURO F2 with LED / EURO F4 with LED**



## Ordering Information

|                             | Part Number                  | Trip Indicator | Qty | Price    | Part Number                  | Trip Indicator | Qty | Price    |
|-----------------------------|------------------------------|----------------|-----|----------|------------------------------|----------------|-----|----------|
| Gray Socket with Disconnect | <a href="#">DN-DIS2</a>      | —              | 50  | \$007z3: | <a href="#">DN-DIS4</a>      | —              | 50  | \$007z6: |
|                             | <a href="#">DN-DIS2MN</a>    | —              | 10  | \$.05]a: | <a href="#">DN-DIS4MN</a>    | —              | 10  | \$.05]d: |
|                             | <a href="#">DN-DIS2L12</a>   | 12 VAC/DC LED  | 50  | \$007z4: | <a href="#">DN-DIS4L12</a>   | 12 VAC/DC LED  | 50  | \$007z7: |
|                             | <a href="#">DN-DIS2L12MN</a> | 12 VAC/DC LED  | 10  | \$.05]8: | <a href="#">DN-DIS4L12MN</a> | 12 VAC/DC LED  | 10  | \$.05]b: |
|                             | <a href="#">DN-DIS2L24</a>   | 24 VAC/DC LED  | 50  | \$007z5: | <a href="#">DN-DIS4L24</a>   | 24 VAC/DC LED  | 50  | \$007z8: |
|                             | <a href="#">DN-DIS2L24MN</a> | 24 VAC/DC LED  | 10  | \$.05]9: | <a href="#">DN-DIS4L24MN</a> | 24 VAC/DC LED  | 10  | \$.05]c: |

## Technical Specifications

|                              |                                                                                                                          |                                      |            |                   |                                      |            |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------|-------------------|--------------------------------------|------------|
| <b>Stripping Length</b>      | 5mm [0.20 in]                                                                                                            |                                      |            | 6mm [0.24 in]     |                                      |            |
| <b>Tightening Torque</b>     | 0.5 N·m [4.4 lb·in]                                                                                                      |                                      |            | 0.8 N·m [7 lb·in] |                                      |            |
| <b>UL Approval*</b>          | 300V                                                                                                                     | 10A with SUPP<br>20A with disconnect | 24-12 AWG* | 300V              | 10A with SUPP<br>25A with disconnect | 24-10 AWG* |
| <b>Operating Temperature</b> | Ambient air temperature: -20 to 85°C [-4 to 185°F]<br>Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |                                      |            |                   |                                      |            |
| <b>SCCR Rating</b>           | 10kA per Table SB4.1, 2009, UL 508A,<br>Maximum short circuit current rating for unmarked components                     |                                      |            |                   |                                      |            |
| <b>CE Conformity</b>         | CE (EN 60947-1 / 60947-7-3)                                                                                              |                                      |            |                   |                                      |            |
| <b>Agency File #</b>         | UL E179129                                                                                                               |                                      |            |                   |                                      |            |

## Accessories

|                               |                              |                             |             |           |                              |  |             |           |
|-------------------------------|------------------------------|-----------------------------|-------------|-----------|------------------------------|--|-------------|-----------|
| <b>End Cover/Spacer**</b>     | <a href="#">DN-FESPA</a>     |                             | 50          | \$05sa:   | <a href="#">DN-FESPA</a>     |  | 50          | \$05sa:   |
|                               | <a href="#">DN-FESPA-10</a>  |                             | 10          | \$5sb:    | <a href="#">DN-FESPA-10</a>  |  | 10          | \$5sb:    |
| <b>Separator</b>              | <a href="#">DN-FESEP</a>     |                             | 50          | \$07us:   | <a href="#">DN-FESEP</a>     |  | 50          | \$07us:   |
|                               | <a href="#">DN-FESEP-10</a>  |                             | 10          | \$.7ut:   | <a href="#">DN-FESEP-10</a>  |  | 10          | \$.7ut:   |
| <b>35mm DIN Rail</b>          | <b>7.5 mm high</b>           | <a href="#">DN-R35S1</a>    | 10          | \$-07lx:  | <a href="#">DN-R35S1</a>     |  | 10          | \$-07lx:  |
|                               |                              | <a href="#">DN-R35S1-2</a>  | 2           | \$-07ly:  | <a href="#">DN-R35S1-2</a>   |  | 2           | \$-07ly:  |
|                               | <b>15mm high</b>             | <a href="#">DN-R35HS1</a>   | 10          | \$-07lu:  | <a href="#">DN-R35HS1</a>    |  | 10          | \$-07lu:  |
|                               |                              | <a href="#">DN-R35HS1-2</a> | 2           | \$-07lv:  | <a href="#">DN-R35HS1-2</a>  |  | 2           | \$-07lv:  |
| <b>End Brackets</b>           | <a href="#">DN-EB35</a>      |                             | 50          | \$07zg:   | <a href="#">DN-EB35</a>      |  | 50          | \$07zg:   |
|                               | <a href="#">DN-EB35MN</a>    |                             | 20          | \$-07zj:  | <a href="#">DN-EB35MN</a>    |  | 20          | \$-07zj:  |
|                               | <a href="#">DN-EB35-A</a>    |                             | 50          | \$07zh:   | <a href="#">DN-EB35-A</a>    |  | 50          | \$07zh:   |
|                               | <a href="#">DN-EB35-A-10</a> |                             | 10          | \$-07zi:  | <a href="#">DN-EB35-A-10</a> |  | 10          | \$-07zi:  |
|                               | <a href="#">DN-QEB35</a>     |                             | 50          | \$07zk:   | <a href="#">DN-QEB35</a>     |  | 50          | \$07zk:   |
|                               | <a href="#">DN-QEB35-10</a>  |                             | 10          | \$-07zl:  | <a href="#">DN-QEB35-10</a>  |  | 10          | \$-07zl:  |
| <b>Angled Support Bracket</b> | <a href="#">DN-ASB1</a>      |                             | 50          | \$-007lk: | <a href="#">DN-ASB1</a>      |  | 50          | \$-007lk: |
| <b>Disconnect Blade</b>       | <a href="#">DN-DIS-BLADE</a> |                             | 50          | \$07z9:   | <a href="#">DN-DIS-BLADE</a> |  | 50          | \$07z9:   |
|                               | <a href="#">DN-DIS-BMN</a>   |                             | 10          | \$05cs:   | <a href="#">DN-DIS-BMN</a>   |  | 10          | \$05cs:   |
| <b>Marking Tags</b>           | DN-LA or DN-LT series        |                             | 500/<br>100 | various   | DN-L or DN-LT series         |  | 500/<br>100 | various   |

\*For copper wire only

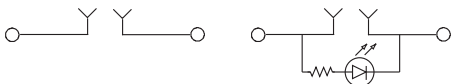
\*\*Use one End Cover / Spacer per DN-FEx Terminal Block Socket when using DN-SUPP-x supplementary protector

Note: For more information on accessories, see the DINnectors Accessories section of this chapter.

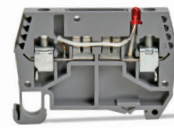


# DINnectors® Terminal Block Sockets

DN-FE series terminal block sockets accept separately available circuit disconnects or supplementary protectors. The DN-FE blocks are available either with or without a trip-indicating LED and they are 35mm DIN rail mountable. The LED blocks are polarity-sensitive, with the LED side negative.



**DN-FEx Series:**  
**EURO F2.5 / EURO F4**



**DN-FExL Series: EURO F2 with LED / EURO F4 with LED**

## Ordering Information

|             | Part Number                 | Trip Indicator | Qty | Price    | Part Number                 | Trip Indicator | Qty | Price    |
|-------------|-----------------------------|----------------|-----|----------|-----------------------------|----------------|-----|----------|
| Socket Only | <a href="#">DN-FE2</a>      | —              | 50  | \$007y6: | <a href="#">DN-FE4</a>      | —              | 50  | \$007yc: |
|             | <a href="#">DN-FE2-5</a>    | —              | 5   | \$07y7:  | <a href="#">DN-FE4-5</a>    | —              | 5   | \$07yd:  |
|             | <a href="#">DN-FE2L12</a>   | 12 VAC/DC LED  | 50  | \$007y8: | <a href="#">DN-FE4L12</a>   | 12 VAC/DC LED  | 50  | \$007ye: |
|             | <a href="#">DN-FE2L12-5</a> | 12 VAC/DC LED  | 5   | \$07y9:  | <a href="#">DN-FE4L12-5</a> | 12 VAC/DC LED  | 5   | \$07yf:  |
|             | <a href="#">DN-FE2L24</a>   | 24 VAC/DC LED  | 50  | \$007ya: | <a href="#">DN-FE4L24</a>   | 24 VAC/DC LED  | 50  | \$007yg: |
|             | <a href="#">DN-FE2L24-5</a> | 24 VAC/DC LED  | 5   | \$07yb:  | <a href="#">DN-FE4L24-5</a> | 24 VAC/DC LED  | 5   | \$07yh:  |

## Technical Specifications

|                              |                                                                                                                          |                                   |            |                   |                                   |            |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------|-------------------|-----------------------------------|------------|
| <b>Stripping Length</b>      | 5mm [0.20 in]                                                                                                            |                                   |            | 6mm [0.24 in]     |                                   |            |
| <b>Tightening Torque</b>     | 0.5 N·m [4.4 lb·in]                                                                                                      |                                   |            | 0.8 N·m [7 lb·in] |                                   |            |
| <b>UL Approval*</b>          | 300V                                                                                                                     | 10A with SUPP/20A with disconnect | 24-12 AWG* | 300V              | 10A with SUPP/25A with disconnect | 24-10 AWG* |
| <b>Operating Temperature</b> | Ambient air temperature: -20 to 105°C [-4 to 221°F] / Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |                                   |            |                   |                                   |            |
| <b>SCCR Rating</b>           | 100kA                                                                                                                    |                                   |            |                   |                                   |            |
| <b>CE Conformity</b>         | CE (EN 60947-1 / EN 60947-7-3)                                                                                           |                                   |            |                   |                                   |            |
| <b>Agency File #</b>         | UL E179129                                                                                                               |                                   |            |                   |                                   |            |

## Accessories

|                         |                |                              |               |           |                              |               |           |
|-------------------------|----------------|------------------------------|---------------|-----------|------------------------------|---------------|-----------|
| End Cover/<br>Spacer**  |                | <a href="#">DN-FESPA</a>     | 50            | \$05sa:   | <a href="#">DN-FESPA</a>     | 50            | \$05sa:   |
|                         |                | <a href="#">DN-FESPA-10</a>  | 10            | \$5sb:    | <a href="#">DN-FESPA-10</a>  | 10            | \$5sb:    |
| Separator               |                | <a href="#">DN-FESEP</a>     | 50            | \$07us:   | <a href="#">DN-FESEP</a>     | 50            | \$07us:   |
|                         |                | <a href="#">DN-FESEP-10</a>  | 10            | \$;7ut:   | <a href="#">DN-FESEP-10</a>  | 10            | \$;7ut:   |
| Jumper****              | 12-pole        | <a href="#">DN-12JFE</a>     | 10            | \$;-07l,: | <a href="#">DN-12JFE</a>     | 10            | \$;-07l,: |
| Jumper Cutting Tool     |                | <a href="#">DN-JFECUT</a>    | 1             | \$;004,h: | <a href="#">DN-JFECUT</a>    | 1             | \$;004,h: |
| 35mm DIN Rail           | 7.5 mm<br>high | <a href="#">DN-R35S1</a>     | 10            | \$-07lx:  | <a href="#">DN-R35S1</a>     | 10            | \$-07lx:  |
|                         |                | <a href="#">DN-R35S1-2</a>   | 2             | \$-07ly:  | <a href="#">DN-R35S1-2</a>   | 2             | \$-07ly:  |
|                         | 15mm<br>high   | <a href="#">DN-R35HS1</a>    | 10            | \$-07lu:  | <a href="#">DN-R35HS1</a>    | 10            | \$-07lu:  |
|                         |                | <a href="#">DN-R35HS1-2</a>  | 2             | \$-07lv:  | <a href="#">DN-R35HS1-2</a>  | 2             | \$-07lv:  |
| End Brackets            |                | <a href="#">DN-EB35</a>      | 50            | \$07zg:   | <a href="#">DN-EB35</a>      | 50            | \$07zg:   |
|                         |                | <a href="#">DN-EB35MN</a>    | 20            | \$-07zj:  | <a href="#">DN-EB35MN</a>    | 20            | \$-07zj:  |
|                         |                | <a href="#">DN-EB35-A</a>    | 50            | \$07zh:   | <a href="#">DN-EB35-A</a>    | 50            | \$07zh:   |
|                         |                | <a href="#">DN-EB35-A-10</a> | 10            | \$-07zi:  | <a href="#">DN-EB35-A-10</a> | 10            | \$-07zi:  |
|                         |                | <a href="#">DN-QEB35</a>     | 50            | \$07zk:   | <a href="#">DN-QEB35</a>     | 50            | \$07zk:   |
|                         |                | <a href="#">DN-QEB35-10</a>  | 10            | \$-07zl:  | <a href="#">DN-QEB35-10</a>  | 10            | \$-07zl:  |
| Angled Support Bracket  |                | <a href="#">DN-ASB1</a>      | 50            | \$-007lk: | <a href="#">DN-ASB1</a>      | 50            | \$-007lk: |
| Disconnect Blade        |                | <a href="#">DN-DIS-BLADE</a> | 50            | \$07z9:   | <a href="#">DN-DIS-BLADE</a> | 50            | \$07z9:   |
|                         |                | <a href="#">DN-DIS-BMN</a>   | 10            | \$05cs:   | <a href="#">DN-DIS-BMN</a>   | 10            | \$05cs:   |
| Supplementary Protector |                | <a href="#">DN-SUPP-x***</a> | see next page |           | <a href="#">DN-SUPP-x***</a> | see next page |           |
| Marking Tags            |                | DN-LA or DN-LT series        | 500/100       | various   | DN-L or DN-LT series         | 500/100       | various   |

\*For copper wire only

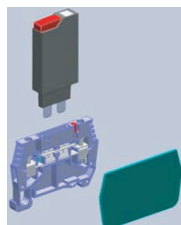
\*\*When aligned along, use one End Covers/Spacers per DN-FEx. When aligned in a row, use two End Covers/Spacers per DN-FEx

\*\*\*Trip ratings available from 0.25 A to 10A

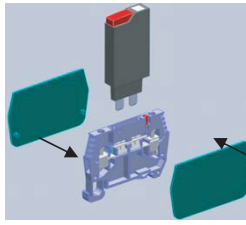
\*\*\*\*For jumper installation, use two End Covers/Spacers per DN-FEx

Note: For more information on accessories, see the DINnectors Accessories section of this chapter.

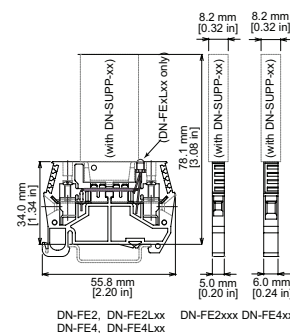
DN-FEx with DN-SUPP-x  
Supplementary Protector



When aligned alone, use  
**DN-FESEP**



When aligned in a row, use  
2pcs **DN-FESPA** for **DN-FE2**  
2pcs **DN-FESEP** for **DN-FE4**



DN-DIS-xxx dimensions are the same as DN-FExxx dimensions.

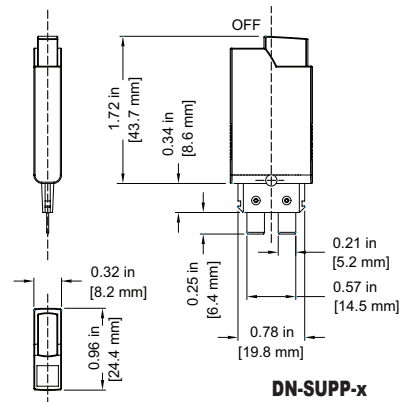

**DINnectors**

# Supplementary Protectors for Terminal Block Sockets

| Supplementary Protectors      |           |               |                     |                                                                  |                                                                                                          |     |           |
|-------------------------------|-----------|---------------|---------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----|-----------|
| Part Number                   | Reference | Rated Current | Internal Resistance | Type                                                             | Fits Socket                                                                                              | Qty | Price     |
| <a href="#">DN-SUPP-P25</a>   | 435T0025  | 0.25 A        | 14Ω                 | UL1077<br>Single Pole<br>Push On<br>Push Off<br>Push to<br>Reset | Terminal<br>Block<br>Socket<br>Types:<br>DN-FEx<br>or<br>DN-DISx if<br>disconnect<br>blade is<br>removed | 20  | \$007yz:  |
| <a href="#">DN-SUPP-P25-1</a> |           |               |                     |                                                                  |                                                                                                          | 1   | \$:07yj]: |
| <a href="#">DN-SUPP-P5</a>    | 435T0050  | 0.5 A         | 3.4 Ω               |                                                                  |                                                                                                          |     |           |
| <a href="#">DN-SUPP-P5-1</a>  |           |               |                     |                                                                  |                                                                                                          | 1   | \$07y_:   |
| <a href="#">DN-SUPP-1</a>     | 435T0100  | 1A            | 0.9 Ω               |                                                                  |                                                                                                          |     |           |
| <a href="#">DN-SUPP-1-1</a>   |           |               |                     |                                                                  |                                                                                                          | 1   | \$-07yl:  |
| <a href="#">DN-SUPP-2</a>     | 435T0200  | 2A            | 0.25 Ω              |                                                                  |                                                                                                          |     |           |
| <a href="#">DN-SUPP-2-1</a>   |           |               |                     |                                                                  |                                                                                                          | 1   | \$07yo:   |
| <a href="#">DN-SUPP-3</a>     | 435T0300  | 3A            | 0.11 Ω              |                                                                  |                                                                                                          |     |           |
| <a href="#">DN-SUPP-3-1</a>   |           |               |                     |                                                                  |                                                                                                          | 1   | \$07yq:   |
| <a href="#">DN-SUPP-4</a>     | 435T0400  | 4A            | 0.07 Ω              |                                                                  |                                                                                                          |     |           |
| <a href="#">DN-SUPP-4-1</a>   |           |               |                     |                                                                  |                                                                                                          | 1   | \$:07yt:  |
| <a href="#">DN-SUPP-6</a>     | 435T0600  | 6A            |                     |                                                                  |                                                                                                          |     |           |
| <a href="#">DN-SUPP-6-1</a>   |           |               |                     |                                                                  |                                                                                                          | 1   | \$07yv:   |
| <a href="#">DN-SUPP-8</a>     | 435T0800  | 8A            | ≤0.05 Ω             |                                                                  |                                                                                                          |     |           |
| <a href="#">DN-SUPP-8-1</a>   |           |               |                     |                                                                  |                                                                                                          | 1   | \$07yy:   |
| <a href="#">DN-SUPP-10</a>    | 435T1000  | 10A           |                     |                                                                  |                                                                                                          |     |           |
| <a href="#">DN-SUPP-10-1</a>  |           |               |                     |                                                                  |                                                                                                          | 1   | \$07yk:   |



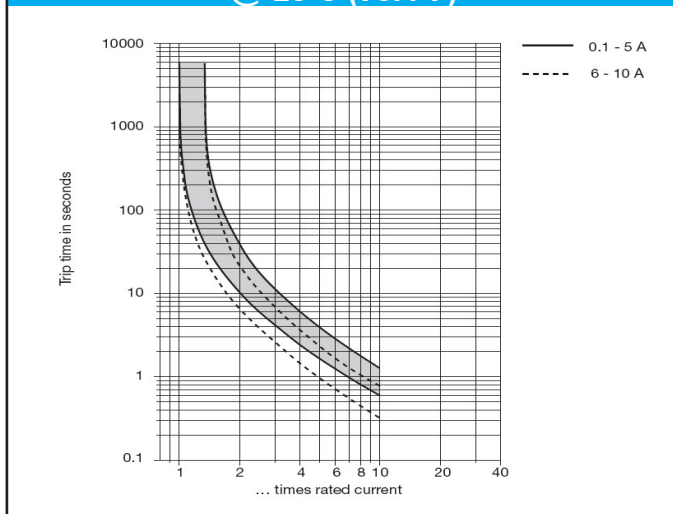
**DN-SUPP-x**  
Supplementary Protector  
(plugs into DN-FE EURO F series socket)



**DN-SUPP-x**

| Supplementary Protector Specifications<br>DN-SUPP-x Series |                                                                                                                                   |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <b>Voltage Rating</b><br>(UL – U.S. & Canada)              | 250VAC / 72VDC                                                                                                                    |
| <b>Voltage Rating</b> (VDE)                                | 250VAC / 65VDC                                                                                                                    |
| <b>Typical Life Span</b>                                   | 6,000 operations @ 1 x IN (low inductance)<br>3,000 operations @ 1 x IN (inductive)<br>500 operations @ 2 x IN (inductive)        |
| <b>Insulation Coordination</b><br>(IEC 60664 & 60664A)     | Rated impulse withstand voltage 2.5 kV;<br>reinforced insulation in operating area;<br>pollution degree 2                         |
| <b>Dielectric Strength</b><br>(IEC 60664 & 60664A)         | Operating area: 3,000VAC<br>Installation area: 1,500VAC                                                                           |
| <b>Insulation Resistance</b>                               | >100MΩ @ 500VDC                                                                                                                   |
| <b>Interrupting Capacity</b><br>(UL 1077), SCCR            | 2,000A @ 250VAC; 200A @ 65VDC,<br>SCCR = 2kA with series overcurrent protection                                                   |
| <b>Interrupting Capacity ICN</b>                           | 0.1 to 5A: 6 x IN<br>6 to 10A: 8 x IN                                                                                             |
| <b>Degree of Protection</b><br>(IEC 60529 / DIN 40050)     | Operating area IP40; terminal area IP00                                                                                           |
| <b>Vibration</b><br>(without terminal block)               | 5g (57-500 Hz) ±0.38 mm (10-57 Hz)<br>to IEC 60068-2-6,<br>test Fc, 10 frequency cycles/axis and to EN 50155                      |
| <b>Shock</b><br>(without terminal block)                   | 25g (11ms) to IEC 60068-2-27, test Ea                                                                                             |
| <b>Corrosion</b>                                           | 96 hours @ 5% salt mist to IEC 60068-2-11, test Ka                                                                                |
| <b>Usage Temperature</b>                                   | -4 to 140°F (-20 to 60°C)                                                                                                         |
| <b>Humidity</b>                                            | 240 hours @ 95% RH to IEC 60068-2-3, test Ca                                                                                      |
| <b>Mass (weight)</b>                                       | 15g (0.53 oz)                                                                                                                     |
| <b>Agency Approval</b>                                     | UL file # E320462 (435T Series); VDE                                                                                              |
| <b>Mounting Restrictions</b>                               | When 2 or more devices are mounted side by side, each device should only carry 80% of its rating, or must be derated accordingly. |

## DN-SUPP-x typical time/current characteristics @ 23°C (73.4°F)



The time/current characteristic curve depends upon the prevailing ambient temperature. In order to eliminate nuisance tripping, multiply the supplementary protector current ratings by the derating factor shown below:

|                      |    |     |      |      |      |      |      |      |      |
|----------------------|----|-----|------|------|------|------|------|------|------|
| Ambient Temperature  | °F | -22 | -4   | 14   | 32   | 73.4 | 104  | 122  | 140  |
|                      | °C | -30 | -20  | -10  | 0    | 23   | 40   | 50   | 60   |
| Temp Derating Factor |    | 0.8 | 0.76 | 0.84 | 0.92 | 1    | 1.08 | 1.16 | 1.24 |

**Note:** When 2 or more devices are mounted side by side, each device should only carry 80% of its rating, or must be derated accordingly.





# Disconnect Terminal Blocks

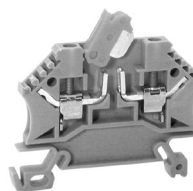
Both the DN-DIS10 (MN) and the DN-KBD12 (MN) allow fast circuit disconnection without rewiring and are 35mm DIN-rail mountable. The DN-DIS10 (MN) is supplied with a copper disconnect bar installed in the fuse holder. The DN-KBD12 (MN) offers circuit disconnection capability by means of a pivoting, insulated "knife blade".



**WARNING: DO NOT DISCONNECT UNDER LOAD**



**DN-DIS10**  
Series: EURO S 4LH/35



**DN-KBD12**  
Series: EURO T2.5/35

## Ordering Information

|                       | Part Number                | Qty | Price    | Part Number                | Qty | Price    |
|-----------------------|----------------------------|-----|----------|----------------------------|-----|----------|
| Gray Disconnect Block | <a href="#">DN-DIS10</a>   | 50  | \$007z2: | <a href="#">DN-KBD12</a>   | 50  | \$007za: |
|                       | <a href="#">DN-DIS10MN</a> | 10  | \$.05]7: | <a href="#">DN-KBD12MN</a> | 10  | \$.05]e: |

## Technical Specifications

|                       |                                                                                                                              |     |           |                                |     |           |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------|-----|-----------|--------------------------------|-----|-----------|
| Stripping Length      | 10mm [0.39 in]                                                                                                               |     |           | 10mm [0.39 in]                 |     |           |
| Tightening Torque     | 0.6 N·m [5.3 lb·in]                                                                                                          |     |           | 0.5 N·m [4.4 lb·in]            |     |           |
| Density               | 125/m [30 pcs/ft]                                                                                                            |     |           | 200/m [60 pcs/ft]              |     |           |
| UL Approval*          | 300V                                                                                                                         | 30A | 24-10 AWG | 600V                           | 20A | 22-12 AWG |
| VDE Approval          | 500V                                                                                                                         | 25A | 4mm²      | 600V                           | 16A | 2.5 mm²   |
| Disconnect Type       | Copper bar                                                                                                                   |     |           | Copper blade                   |     |           |
| Operating Temperature | Ambient air temperature: -20°C to 85°C [-4°F to 185°F]<br>Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |     |           |                                |     |           |
| SCCR Rating           | 10kA per Table SB4.1, 2009, UL 508A, Maximum short circuit current rating for unmarked components                            |     |           |                                |     |           |
| CE Conformity         | CE (EN 60947-1 / EN 60947-7-3)                                                                                               |     |           | CE (EN 60947-1 / EN 60947-7-1) |     |           |
| Agency File #         | UL E179129 / LR84816                                                                                                         |     |           |                                |     |           |

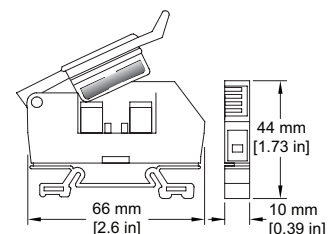
## Accessories

| End Cover              |                | Included                     |         |           | <a href="#">DN-ECKBD</a>     | 100     | \$;0et9:  |
|------------------------|----------------|------------------------------|---------|-----------|------------------------------|---------|-----------|
|                        |                |                              |         |           | <a href="#">DN-ECKBDMN</a>   | 10      | \$7zq:    |
| 35mm<br>DIN Rail       | 7.5 mm<br>high | <a href="#">DN-R35S1</a>     | 10      | \$-07lx:  | <a href="#">DN-R35S1</a>     | 10      | \$-07lx:  |
|                        |                | <a href="#">DN-R35S1-2</a>   | 2       | \$-07ly:  | <a href="#">DN-R35S1-2</a>   | 2       | \$-07ly:  |
|                        | 15mm<br>high   | <a href="#">DN-R35HS1</a>    | 10      | \$-07lu:  | <a href="#">DN-R35HS1</a>    | 10      | \$-07lu:  |
|                        |                | <a href="#">DN-R35HS1-2</a>  | 2       | \$-07lv:  | <a href="#">DN-R35HS1-2</a>  | 2       | \$-07lv:  |
| End Bracket            |                | <a href="#">DN-EB35</a>      | 50      | \$07zg:   | <a href="#">DN-EB35</a>      | 50      | \$07zg:   |
|                        |                | <a href="#">DN-EB35MN</a>    | 20      | \$-07zj:  | <a href="#">DN-EB35MN</a>    | 20      | \$-07zj:  |
|                        |                | <a href="#">DN-EB35-A</a>    | 50      | \$07zh:   | <a href="#">DN-EB35-A</a>    | 50      | \$07zh:   |
|                        |                | <a href="#">DN-EB35-A-10</a> | 10      | \$-07zi:  | <a href="#">DN-EB35-A-10</a> | 10      | \$-07zi:  |
|                        |                | <a href="#">DN-QEB35</a>     | 50      | \$07zk:   | <a href="#">DN-QEB35</a>     | 50      | \$07zk:   |
|                        |                | <a href="#">DN-QEB35-10</a>  | 10      | \$-07zl:  | <a href="#">DN-QEB35-10</a>  | 10      | \$-07zl:  |
| Angled Support Bracket |                | <a href="#">DN-ASB1</a>      | 50      | \$-007lk: | <a href="#">DN-ASB1</a>      | 50      | \$-007lk: |
| Marking Tags           |                | DN-L or<br>DN-LT series      | 500/100 | various   | DN-LA or<br>DN-LT series     | 500/100 | various   |

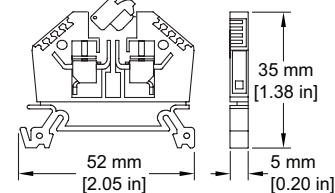
\*For copper wire only

Note: For more information on accessories, see the DINnectors Accessories section of this chapter.

### DN-DIS10 / DN-DIS10MN



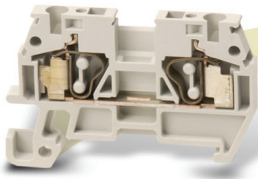
### DN-KBD12 / DN-KBD12MN



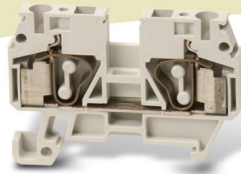
# Screwless DINnectors At A Glance

## Feed-through Terminal Blocks

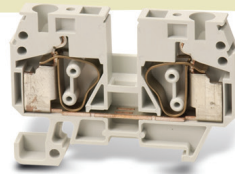
Feed-through terminal blocks are available in a number of wire size options to ensure flexibility and ease of installation for your DIN-rail mounted connection system.



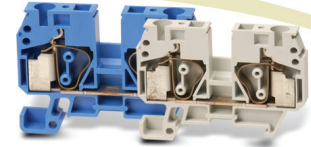
**DN-Q12-A**



**DN-Q10-A**



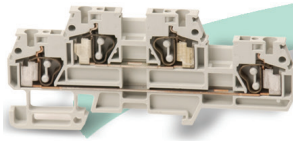
**DN-Q8-A**



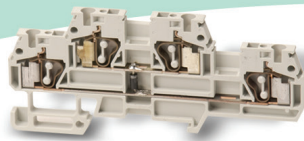
*Note: All feed-through terminal blocks come in gray or blue*

## Multi-level Terminal Blocks

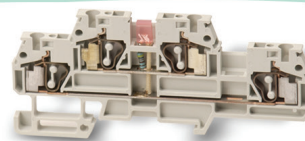
Double-level terminal blocks offer twice the wiring density of feed-through blocks.



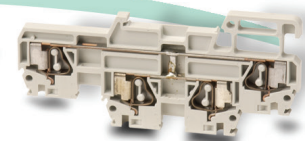
**DN-QD12-A**



**DN-QD12DR-A**



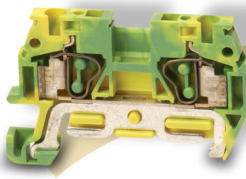
**DN-QD12L2-A**



**DN-QD12X-A**

## Ground Terminal Blocks

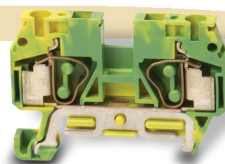
Ground terminal blocks are used to mechanically and electrically connect wires to the DIN rail, thus allowing the rail to function as a ground bus bar.



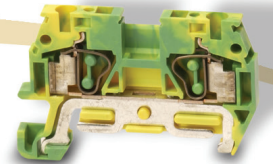
**DN-QG12**



**DN-QG10**



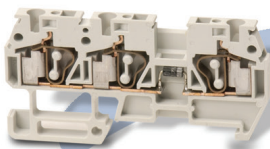
**DN-QG8**



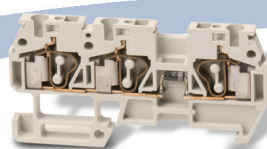
**DN-QG12-1-2**

## Common Point Terminal Blocks

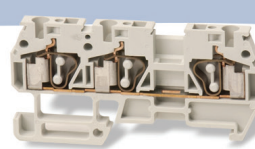
Common point blocks allow multiple wires to be connected by way of multiple spring clamps.



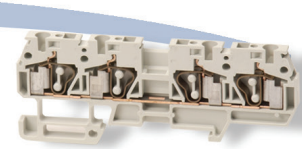
**DN-Q12-1-2-A**



**DN-Q12-1-2DR-A**



**DN-Q12-1-2-A**

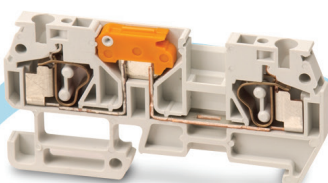


**DN-Q12-2-2-A**

## Disconnect Terminal Blocks

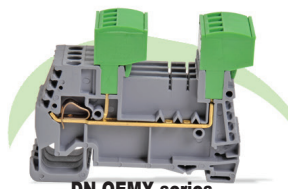
## Plug-in Terminal Blocks

## Marking Tags & Accessories

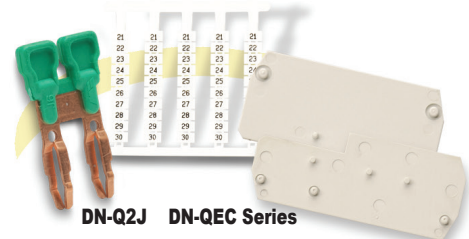


**DN-QKBD12-A**

The DN-QKBD12-A allows fast circuit disconnection without rewiring.



**DN-QEMX series**



**DN-Q2J DN-QEC Series**

# Screwless Terminal Blocks Overview

## Why go screwless?

Screwless clamping technology offers several benefits:

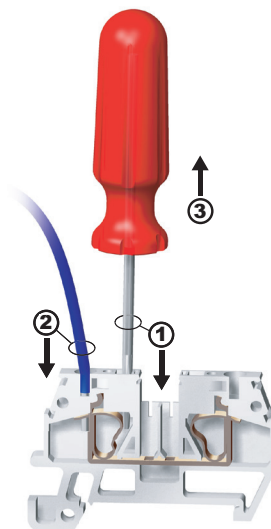
- **Speed:** On average, screwless connections can be made in half the time of screw type connections, cutting installation labor costs in half.
- **Ease:** No need for twisting and turning screws, so screwless terminal blocks are much easier on the installer's hands and arms. Also, wiring from the top of the terminal blocks allow installers to accurately and reliably see the wire fully inserted into the spring clamp.
- **Safety:** Never have a problem with faulty connections from loose screws again! Meets the same UL and IEC standards as screw-type terminal blocks.
- **Maintenance-free:** The screwless spring clamp conforms to the wire with constant tension, making it maintenance-free.

## Are there any trade-offs of going screwless versus screw-type?

Unless you need to clamp multiple wires to the same connection point, the answer is no. If you do, then there may be a slight trade-off in requiring more panel space than with screw terminal blocks. Unlike screw terminal blocks, screwless terminal block spring-clamps are designed to clamp a single wire, only. This is why multiple versions exist like the "one-to-two" or "two-to-two." These versions allow multiple wires to be connected together via multiple spring clamps.

## How does it work?

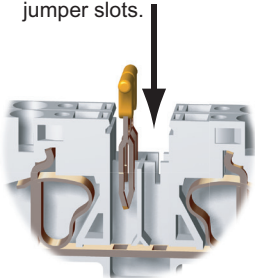
Well, it's pretty simple: Push, Insert, Release. Just push your screwdriver into the spring clamp (a rectangular shaped hole) to open the spring clamp; insert the stripped wire into the clamp (a circular shaped hole), and pull out your screwdriver to release the clamp against the wire. That's it. The connection is made.



## How do the jumpers work?

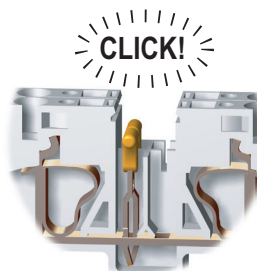
①

Properly align jumper bar with terminal block center jumper slots.

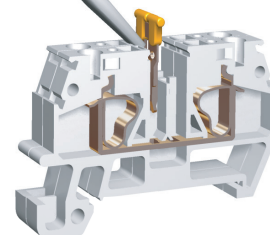


②

Push down until firmly seated.



**Removal**



Yes



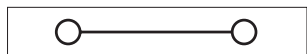
No



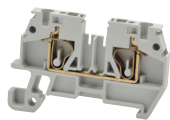
Yes = Good, acceptable jumper  
No = Bad, damaged jumper



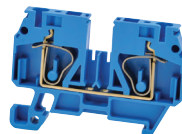
# Screwless Feed-Through Terminal Blocks



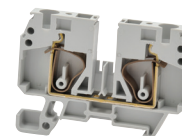
Feed-through terminal blocks provide the means to connect two wires together, and are available in sizes suitable for up to 8AWG wire. These terminal blocks are 35mm DIN rail mountable.



**DN-Q12-A**  
(Euro Q2.5/35)



**DN-Q10B-A**  
(Euro Q4/35)



**DN-Q8-A**  
(Euro Q6/35)

## Ordering Information

|                     | Part Number                            | Qty | Price   | Part Number                            | Qty | Price   | Part Number                            | Qty | Price    |
|---------------------|----------------------------------------|-----|---------|----------------------------------------|-----|---------|----------------------------------------|-----|----------|
| Gray Terminal Block | <a href="#">DN-Q12-A</a>               | 50  | \$07oq: | <a href="#">DN-Q10-A</a>               | 50  | \$07on: | <a href="#">DN-Q8-A</a>                | 50  | \$,07ot: |
| Blue Terminal Block | <a href="#">DN-Q12B-A</a>              | 50  | \$07os: | <a href="#">DN-Q10B-A</a>              | 50  | \$07op: | <a href="#">DN-Q8B-A</a>               | 50  | \$07ou:  |
| Description         | Screwless feed-through terminal blocks |     |         | Screwless feed-through terminal blocks |     |         | Screwless feed-through terminal blocks |     |          |

## Technical Specifications

|                       |                                                                                                                          |     |                     |                   |     |                  |                   |     |                  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------|-----|---------------------|-------------------|-----|------------------|-------------------|-----|------------------|
| Stripping Length      | 12mm [0.47 in]                                                                                                           |     |                     | 15mm [0.59 in]    |     |                  | 18mm [0.71]       |     |                  |
| Density               | 200/m [60 pcs/ft]                                                                                                        |     |                     | 166/m [50 pcs/ft] |     |                  | 125/m [38 pcs/ft] |     |                  |
| UL Approval*          | 600V                                                                                                                     | 20A | 24-12 AWG           | 600V              | 30A | 24-10 AWG        | 600V              | 45A | 22-8 AWG         |
| VDE Approval          | 630V                                                                                                                     | 24A | 2.5 mm <sup>2</sup> | 630V              | 32A | 4mm <sup>2</sup> | 630V              | 41A | 6mm <sup>2</sup> |
| Operating Temperature | Ambient air temperature: -20 to 105°C [-4 to 221°F] / Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |     |                     |                   |     |                  |                   |     |                  |
| SCCR Rating           | 10kA per Table SB4.1, 2009, UL 508A, Maximum short circuit current rating for unmarked components                        |     |                     |                   |     |                  |                   |     |                  |
| CE Conformity         | CE (EN 60947-1 / EN 60947-7-1)                                                                                           |     |                     |                   |     |                  |                   |     |                  |
| Agency File #         | UL E179129                                                                                                               |     |                     |                   |     |                  |                   |     |                  |

## Accessories

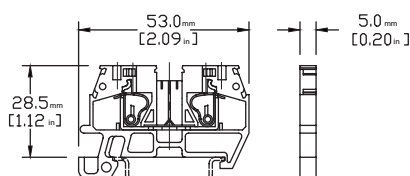
|                        |             |                              |     |           |                              |     |           |                              |     |           |
|------------------------|-------------|------------------------------|-----|-----------|------------------------------|-----|-----------|------------------------------|-----|-----------|
| End Covers             |             | <a href="#">DN-QEC12</a>     | 50  | \$07o4:   | <a href="#">DN-QEC10</a>     | 50  | \$07o2:   | <a href="#">DN-QEC8</a>      | 50  | \$07o6:   |
|                        |             | <a href="#">DN-QEC12MN</a>   | 10  | \$,etg:   | <a href="#">DN-QEC10MN</a>   | 10  | \$7o3:    | <a href="#">DN-QEC8MN</a>    | 10  | \$7o7:    |
| Jumpers                | 2-pole      | <a href="#">DN-2J2Y</a>      | 100 | \$05cv:   | <a href="#">DN-2J4Y</a>      | 100 | \$05cx:   | <a href="#">DN-2J6Y</a>      | 100 | \$-07oi:  |
|                        |             | <a href="#">DN-2J2YMN</a>    | 25  | \$07uh:   | <a href="#">DN-2J4YMN</a>    | 25  | \$-07ui:  | <a href="#">DN-2J6YMN</a>    | 25  | \$-07oj:  |
|                        | 3-pole      | <a href="#">DN-3J2Y</a>      | 100 | \$05c_:   | <a href="#">DN-3J4Y</a>      | 100 | \$05c#:   | <a href="#">DN-3J6Y</a>      | 100 | \$07ok:   |
|                        |             | <a href="#">DN-3J2YMN</a>    | 25  | \$07uk:   | <a href="#">DN-3J4YMN</a>    | 25  | \$-07ul:  | <a href="#">DN-3J6YMN</a>    | 25  | \$05d3:   |
|                        | Multi-pole  | <a href="#">DN-24J2Y</a>     | 5   | \$07og:   | <a href="#">DN-24J4Y</a>     | 5   | \$07oh:   | <a href="#">DN-12J6Y</a>     | 10  | \$,07of:  |
|                        |             | <a href="#">DN-J2CUT</a>     | 1   | \$,04,k:  | <a href="#">DN-J4CUT</a>     | 1   | \$,04,n:  | -                            |     |           |
| Jumper Cutting Tool    |             | <a href="#">DN-J2CUT</a>     | 1   | \$,04,k:  | <a href="#">DN-J4CUT</a>     | 1   | \$,04,n:  | -                            |     |           |
| 35mm DIN Rail          | 7.5 mm high | <a href="#">DN-R35S1</a>     | 10  | \$-07lx:  | <a href="#">DN-R35S1</a>     | 10  | \$-07lx:  | <a href="#">DN-R35S1</a>     | 10  | \$-07lx:  |
|                        |             | <a href="#">DN-R35S1-2</a>   | 2   | \$-07ly:  | <a href="#">DN-R35S1-2</a>   | 2   | \$-07ly:  | <a href="#">DN-R35S1-2</a>   | 2   | \$-07ly:  |
| End Brackets           |             | <a href="#">DN-EB35</a>      | 50  | \$07zg:   | <a href="#">DN-EB35</a>      | 50  | \$07zg:   | <a href="#">DN-EB35</a>      | 50  | \$07zg:   |
|                        |             | <a href="#">DN-EB35MN</a>    | 20  | \$-07zj:  | <a href="#">DN-EB35MN</a>    | 20  | \$-07zj:  | <a href="#">DN-EB35MN</a>    | 20  | \$-07zj:  |
|                        |             | <a href="#">DN-EB35-A</a>    | 50  | \$07zh:   | <a href="#">DN-EB35-A</a>    | 50  | \$07zh:   | <a href="#">DN-EB35-A</a>    | 50  | \$07zh:   |
|                        |             | <a href="#">DN-EB35-A-10</a> | 10  | \$-07zi:  | <a href="#">DN-EB35-A-10</a> | 10  | \$-07zi:  | <a href="#">DN-EB35-A-10</a> | 10  | \$-07zi:  |
|                        |             | <a href="#">DN-QEB35</a>     | 50  | \$07zk:   | <a href="#">DN-QEB35</a>     | 50  | \$07zk:   | <a href="#">DN-QEB35</a>     | 50  | \$07zk:   |
|                        |             | <a href="#">DN-QEB35-10</a>  | 10  | \$-07zl:  | <a href="#">DN-QEB35-10</a>  | 10  | \$-07zl:  | <a href="#">DN-QEB35-10</a>  | 10  | \$-07zl:  |
| Angled Support Bracket |             | <a href="#">DN-ASB1</a>      | 50  | \$-007lk: | <a href="#">DN-ASB1</a>      | 50  | \$-007lk: | <a href="#">DN-ASB1</a>      | 50  | \$-007lk: |
| Marking Tags           |             | <a href="#">DN-QL Series</a> | 500 | various   | <a href="#">DN-QL Series</a> | 500 | various   | <a href="#">DN-QL Series</a> | 500 | various   |

\*Copper wire only

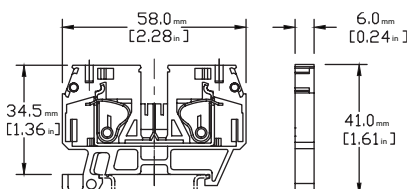
Note: For more information on accessories, see the DINnectors Accessories section of this chapter.

## Dimensions

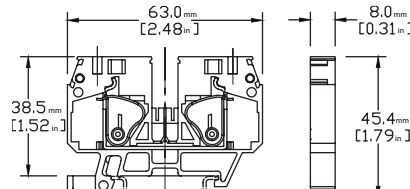
**DN-Q12-A**



**DN-Q10-A**



**DN-Q8-A**







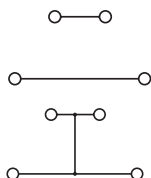
# Screwless Double-Level Terminal Blocks

## DN-QD12-A DN-QD12X-A

Double-level terminal blocks offer twice the wiring density of feed-through blocks. The DN-QD12X-A version is supplied with an internal jumper to common all four of its connection points.

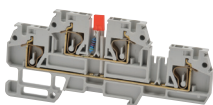


**DN-QD12X-A**  
(Euro QD2.5/35)

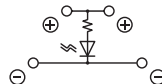


## LED version

This style is available with LED indicator installed. The LED illuminates when voltage is present. The DN-QD12L2-A version is for 12 - 24 VAC/DC circuits, and includes current limiting elements.



**DN-QD12L2-A**  
(Euro QD2.5/35)

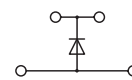


## Diode version

Typically, an inductive load produces a spike when it is turned off. These terminal blocks with built-in diode help protect your PLC's output circuits. (Please see application note AN-MISC-032 at <http://support.automationdirect.com/docs/an-misc-032.pdf>)



**DN-QD12DR-A**  
(Euro QD2.5/35)



## Ordering Information

|                   | Part Number                            | Qty | Price    | Part Number                                            | Qty | Price   | Part Number                                                                           | Qty | Price    | Part Number                                                                     | Qty | Price   |
|-------------------|----------------------------------------|-----|----------|--------------------------------------------------------|-----|---------|---------------------------------------------------------------------------------------|-----|----------|---------------------------------------------------------------------------------|-----|---------|
| Gray Terminal Blk | <a href="#">DN-QD12-A</a>              | 25  | \$07ny:  | <a href="#">DN-QD12X-A</a>                             | 10  | \$07n?: | <a href="#">DN-QD12L2-A</a>                                                           | 10  | \$;07n!: | <a href="#">DN-QD12DR-A</a>                                                     | 10  | \$07n_: |
| Blue Terminal Blk | <a href="#">DN-QD12B-A</a>             | 25  | \$;07n]: | <a href="#">DN-QD12XB-A</a>                            | 10  | \$07o0: | -                                                                                     |     |          | -                                                                               |     |         |
| Description       | Double-level screwless terminal blocks |     |          | Double-level screwless cross-connected terminal blocks |     |         | Double-level screwless terminal blocks w/ LED installed for visual circuit indication |     |          | Double-level screwless terminal blocks w/diode installed for circuit protection |     |         |

## Technical Specifications

|                  |                                                                                                                          |     |           |                   |     |          |                       |     |           |                   |          |           |
|------------------|--------------------------------------------------------------------------------------------------------------------------|-----|-----------|-------------------|-----|----------|-----------------------|-----|-----------|-------------------|----------|-----------|
| Stripping Length | 12mm [0.47 in]                                                                                                           |     |           | 12mm [0.47 in]    |     |          | 12mm [0.47 in]        |     |           | 12mm [0.47 in]    |          |           |
| Density          | 200/m [60 pcs/ft]                                                                                                        |     |           | 200/m [60 pcs/ft] |     |          | 200/m [60 pcs/ft]     |     |           | 200/m [60 pcs/ft] |          |           |
| UL Approval*     | 600V                                                                                                                     | 20A | 24-12 AWG | 600V              | 20A | 24-12AWG | 600V                  | 20A | 24-12 AWG | 600V              | 1A diode | 24-12 AWG |
| VDE Approval     | 500V                                                                                                                     | 24A | 2.5 mm²   | 500V              | 24A | 2.5 mm²  | 500V                  | 24A | 2.5 mm²   | 500V              | 1A diode | 2.5 mm²   |
| LED Voltage      | -                                                                                                                        |     |           | -                 |     |          | 12 -24 VAC/DC. 3.4 kΩ |     |           | -                 |          |           |
| Operating Temp   | Ambient air temperature: -20 to 105°C [-4 to 221°F] / Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |     |           |                   |     |          |                       |     |           |                   |          |           |
| SCCR Rating      | 10kA per Table SB4.1, 2009, UL 508A, Maximum short circuit current rating for unmarked components                        |     |           |                   |     |          |                       |     |           |                   |          |           |
| CE Conformity    | CE (EN 60947-1 / EN 60947-7-1)                                                                                           |     |           |                   |     |          |                       |     |           |                   |          |           |
| Agency File #    | UL E179129                                                                                                               |     |           |                   |     |          |                       |     |           |                   |          |           |

## Accessories

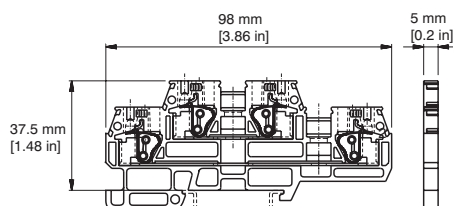
| End Covers                |                | <a href="#">DN-QDEC12</a>    | 25  | \$07o1:   | <a href="#">DN-QDEC12</a>    | 25  | \$07o1:   | <a href="#">DN-QDEC12</a>    | 25  | \$07o1:   | <a href="#">DN-QDEC12</a>    | 25  | \$07o1:   |
|---------------------------|----------------|------------------------------|-----|-----------|------------------------------|-----|-----------|------------------------------|-----|-----------|------------------------------|-----|-----------|
| Jumpers                   | 2-pole         | <a href="#">DN-2J2Y</a>      | 100 | \$05cv:   | <a href="#">DN-2J2Y</a>      | 100 | \$05cv:   | <a href="#">DN-2J2Y</a>      | 100 | \$05cv:   | <a href="#">DN-2J2Y</a>      | 100 | \$05cv:   |
|                           |                | <a href="#">DN-2J2YMN</a>    | 25  | \$07uh:   | <a href="#">DN-2J2YMN</a>    | 25  | \$07uh:   | <a href="#">DN-2J2YMN</a>    | 25  | \$07uh:   | <a href="#">DN-2J2YMN</a>    | 25  | \$07uh:   |
|                           | 3-pole         | <a href="#">DN-3J2Y</a>      | 100 | \$05c_:   | <a href="#">DN-3J2Y</a>      | 100 | \$05c_:   | <a href="#">DN-3J2Y</a>      | 100 | \$05c_:   | <a href="#">DN-3J2Y</a>      | 100 | \$05c_:   |
|                           |                | <a href="#">DN-3J2YMN</a>    | 25  | \$07uk:   | <a href="#">DN-3J2YMN</a>    | 25  | \$07uk:   | <a href="#">DN-3J2YMN</a>    | 25  | \$07uk:   | <a href="#">DN-3J2YMN</a>    | 25  | \$07uk:   |
|                           | 24-pole        | <a href="#">DN-24J2Y</a>     | 5   | \$07og:   | <a href="#">DN-24J2Y</a>     | 5   | \$07og:   | <a href="#">DN-24J2Y</a>     | 5   | \$07og:   | <a href="#">DN-24J2Y</a>     | 5   | \$07og:   |
| Cutting Tool              |                | <a href="#">DN-J2CUT</a>     | 1   | \$;04,k:  | <a href="#">DN-J2CUT</a>     | 1   | \$;04,k:  | <a href="#">DN-J2CUT</a>     | 1   | \$;04,k:  | <a href="#">DN-J2CUT</a>     | 1   | \$;04,k:  |
| 35mm<br>DIN Rail          | 7.5 mm<br>high | <a href="#">DN-R35S1</a>     | 10  | \$-07lx:  | <a href="#">DN-R35S1</a>     | 10  | \$-07lx:  | <a href="#">DN-R35S1</a>     | 10  | \$-07lx:  | <a href="#">DN-R35S1</a>     | 10  | \$-07lx:  |
|                           |                | <a href="#">DN-R35S1-2</a>   | 2   | \$-07ly:  | <a href="#">DN-R35S1-2</a>   | 2   | \$-07ly:  | <a href="#">DN-R35S1-2</a>   | 2   | \$-07ly:  | <a href="#">DN-R35S1-2</a>   | 2   | \$-07ly:  |
| End Brackets              |                | <a href="#">DN-EB35</a>      | 50  | \$07zg:   | <a href="#">DN-EB35</a>      | 50  | \$07zg:   | <a href="#">DN-EB35</a>      | 50  | \$07zg:   | <a href="#">DN-EB35</a>      | 50  | \$07zg:   |
|                           |                | <a href="#">DN-EB35MN</a>    | 20  | \$-07zj:  | <a href="#">DN-EB35MN</a>    | 20  | \$-07zj:  | <a href="#">DN-EB35MN</a>    | 20  | \$-07zj:  | <a href="#">DN-EB35MN</a>    | 20  | \$-07zj:  |
|                           |                | <a href="#">DN-EB35-A</a>    | 50  | \$07zh:   | <a href="#">DN-EB35-A</a>    | 50  | \$07zh:   | <a href="#">DN-EB35-A</a>    | 50  | \$07zh:   | <a href="#">DN-EB35-A</a>    | 50  | \$07zh:   |
|                           |                | <a href="#">DN-EB35-A-10</a> | 10  | \$-07zi:  | <a href="#">DN-EB35-A-10</a> | 10  | \$-07zi:  | <a href="#">DN-EB35-A-10</a> | 10  | \$-07zi:  | <a href="#">DN-EB35-A-10</a> | 10  | \$-07zi:  |
|                           |                | <a href="#">DN-QEB35</a>     | 50  | \$07zk:   | <a href="#">DN-QEB35</a>     | 50  | \$07zk:   | <a href="#">DN-QEB35</a>     | 50  | \$07zk:   | <a href="#">DN-QEB35</a>     | 50  | \$07zk:   |
|                           |                | <a href="#">DN-QEB35-10</a>  | 10  | \$-07zl:  | <a href="#">DN-QEB35-10</a>  | 10  | \$-07zl:  | <a href="#">DN-QEB35-10</a>  | 10  | \$-07zl:  | <a href="#">DN-QEB35-10</a>  | 10  | \$-07zl:  |
| Angled<br>Support Bracket |                | <a href="#">DN-ASB1</a>      | 50  | \$-007lk: | <a href="#">DN-ASB1</a>      | 50  | \$-007lk: | <a href="#">DN-ASB1</a>      | 50  | \$-007lk: | <a href="#">DN-ASB1</a>      | 50  | \$-007lk: |
| Marking Tags              |                | DN-QL Series                 | 500 | various   | DN-QL Series                 | 500 | various   | DN-QL Series                 | 500 | various   | DN-QL Series                 | 500 | various   |

\*Copper wire only

For more information on accessories, see the DINnectors Accessories section of this chapter.

## Dimensions

### DN-QD12-A Series



Note: Jumpering and testing capability on bottom level only, for DN-QD12X, DN-QD12L2 and DN-QD12DR.

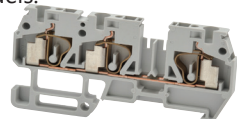




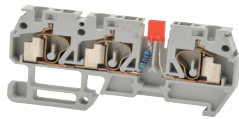
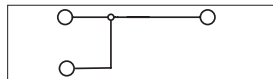
# Screwless One-Connection to Two-Connection Terminal Blocks

Unlike screw terminal blocks, screwless terminal block spring clamps are designed to clamp a single wire. If your application requires multiple wires to be tied together, we offer multiple versions, including one-to-two and two-to-two models.

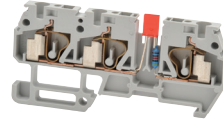
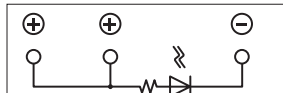
These versions allow multiple wires to be connected together by way of multiple spring clamps and are 35mm DIN-rail mountable. LED and diode variations are also available in this style.



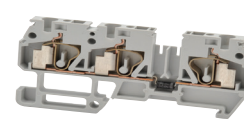
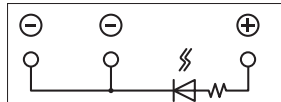
**DN-Q12-1-2-A**  
(Euro QM1/2 2.5/35)



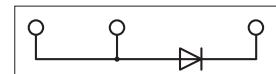
**DN-Q12-1-2L1-A**  
(Euro QM1/2 2.5/35)



**DN-Q12-1-2L2-A**  
(Euro QM1/2 2.5/35)



**DN-Q12-1-2DR-A**  
(Euro QM1/2 2.5/35)



1N4007 Reverse bias diode  
(See Diode information located on page tTBL-60)

## Ordering Information

|                 | Part Number                                                                  | Qty | Price    | Part Number                                                                                                                                 | Qty | Price    | Part Number                                                                                                                                 | Qty | Price    | Part Number                                                                                                                              | Qty | Price    |
|-----------------|------------------------------------------------------------------------------|-----|----------|---------------------------------------------------------------------------------------------------------------------------------------------|-----|----------|---------------------------------------------------------------------------------------------------------------------------------------------|-----|----------|------------------------------------------------------------------------------------------------------------------------------------------|-----|----------|
| Gray Term Block | <a href="#">DN-Q12-1-2-A</a>                                                 | 25  | \$07nh:  | <a href="#">DN-Q12-1-2L1-A</a>                                                                                                              | 10  | \$-07nj: | <a href="#">DN-Q12-1-2L2-A</a>                                                                                                              | 10  | \$-07nl: | <a href="#">DN-Q12-1-2DR-A</a>                                                                                                           | 10  | \$-07ni: |
| Blue Term Block | <a href="#">DN-Q12B-1-2-A</a>                                                | 25  | \$-07nt: | -                                                                                                                                           |     |          | -                                                                                                                                           |     |          | -                                                                                                                                        |     |          |
| Description     | One-connection to two-connection screwless terminal block for 24-12 AWG wire |     |          | One negative connection to two positive connection screwless terminal block for 24-12 AWG wire. LED installed for visual circuit indication |     |          | One positive connection to two negative connection screwless terminal block for 24-12 AWG wire. LED installed for visual circuit indication |     |          | One-connection to two-connection screwless terminal block for 24-12 AWG wire. 1N4007 reverse bias diode installed for circuit protection |     |          |

## Technical Specifications

|                  |                                                                                                                          |     |                     |                      |     |                     |                      |     |                     |                   |          |                     |
|------------------|--------------------------------------------------------------------------------------------------------------------------|-----|---------------------|----------------------|-----|---------------------|----------------------|-----|---------------------|-------------------|----------|---------------------|
| Stripping Length | 12mm [0.47 in]                                                                                                           |     |                     | 12mm [0.47 in]       |     |                     | 12mm [0.47 in]       |     |                     | 12mm [0.47 in]    |          |                     |
| Density          | 200/m [60 pcs/ft]                                                                                                        |     |                     | 200/m [60 pcs/ft]    |     |                     | 200/m [60 pcs/ft]    |     |                     | 200/m [60 pcs/ft] |          |                     |
| UL Approval*     | 600V                                                                                                                     | 20A | 24-12 AWG           | 600V                 | 20A | 24-12AWG            | 600V                 | 20A | 24-12 AWG           | 600V              | 1A diode | 24-12 AWG           |
| VDE Approval     | 630V                                                                                                                     | 24A | 2.5 mm <sup>2</sup> | 630V                 | 24A | 2.5 mm <sup>2</sup> | 630V                 | 24A | 2.5 mm <sup>2</sup> | 630V              | 1A diode | 2.5 mm <sup>2</sup> |
| LED Voltage      | —                                                                                                                        |     |                     | 12 -24 VAC/DC 3.4 kΩ |     |                     | 12 -24 VAC/DC 3.4 kΩ |     |                     | —                 |          |                     |
| Operating Temp   | Ambient air temperature: -20 to 105°C [-4 to 221°F] / Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |     |                     |                      |     |                     |                      |     |                     |                   |          |                     |
| SCCR Rating      | 10kA per Table SB4.1, 2009, UL 508A, Maximum short circuit current rating for unmarked components                        |     |                     |                      |     |                     |                      |     |                     |                   |          |                     |
| CE Conformity    | CE (EN 60947-1 / EN 60947-7-1)                                                                                           |     |                     |                      |     |                     |                      |     |                     |                   |          |                     |
| Agency File #    | UL E179129                                                                                                               |     |                     |                      |     |                     |                      |     |                     |                   |          |                     |

## Accessories

|                        |                              |                           |           |                              |     |           |                              |     |           |                              |     |           |
|------------------------|------------------------------|---------------------------|-----------|------------------------------|-----|-----------|------------------------------|-----|-----------|------------------------------|-----|-----------|
| End Covers             | <a href="#">DN-QEC12-1-2</a> | 25                        | \$07nx:   | <a href="#">DN-QEC12-1-2</a> | 25  | \$07nx:   | <a href="#">DN-QEC12-1-2</a> | 25  | \$07nx:   | <a href="#">DN-QEC12-1-2</a> | 25  | \$07nx:   |
| Jumper                 | 2-pole                       | <a href="#">DN-2J2Y</a>   | 100       | \$05cv:                      | -   |           |                              | -   |           |                              | -   |           |
|                        |                              | <a href="#">DN-2J2YMN</a> | 25        | \$07uh:                      |     |           |                              |     |           |                              |     |           |
|                        | 3-pole                       | <a href="#">DN-3J2Y</a>   | 100       | \$05c:                       |     |           |                              |     |           |                              |     |           |
|                        |                              | <a href="#">DN-3J2YMN</a> | 25        | \$07uk:                      |     |           |                              |     |           |                              |     |           |
|                        | 24-pole                      | <a href="#">DN-24J2Y</a>  | 5         | \$07og:                      |     |           |                              |     |           |                              |     |           |
| Cutting Tool           | <a href="#">DN-J2CUT</a>     | 1                         | \$;04,k:  | <a href="#">DN-J2CUT</a>     | 1   | \$;04,k:  | <a href="#">DN-J2CUT</a>     | 1   | \$;04,k:  | <a href="#">DN-J2CUT</a>     | 1   | \$;04,k:  |
| 35mm DIN Rail          | <a href="#">DN-R35S1</a>     | 10                        | \$-07lx:  | <a href="#">DN-R35S1</a>     | 10  | \$-07lx:  | <a href="#">DN-R35S1</a>     | 10  | \$-07lx:  | <a href="#">DN-R35S1</a>     | 10  | \$-07lx:  |
|                        | <a href="#">DN-R35S1-2</a>   | 2                         | \$-07ly:  | <a href="#">DN-R35S1-2</a>   | 2   | \$-07ly:  | <a href="#">DN-R35S1-2</a>   | 2   | \$-07ly:  | <a href="#">DN-R35S1-2</a>   | 2   | \$-07ly:  |
| End Brackets           | <a href="#">DN-EB35</a>      | 50                        | \$07zg:   | <a href="#">DN-EB35</a>      | 50  | \$07zg:   | <a href="#">DN-EB35</a>      | 50  | \$07zg:   | <a href="#">DN-EB35</a>      | 50  | \$07zg:   |
|                        | <a href="#">DN-EB35MN</a>    | 20                        | \$-07zj:  | <a href="#">DN-EB35MN</a>    | 20  | \$-07zj:  | <a href="#">DN-EB35MN</a>    | 20  | \$-07zj:  | <a href="#">DN-EB35MN</a>    | 20  | \$-07zj:  |
|                        | <a href="#">DN-EB35-A</a>    | 50                        | \$07zh:   | <a href="#">DN-EB35-A</a>    | 50  | \$07zh:   | <a href="#">DN-EB35-A</a>    | 50  | \$07zh:   | <a href="#">DN-EB35-A</a>    | 50  | \$07zh:   |
|                        | <a href="#">DN-EB35-A-10</a> | 10                        | \$-07zi:  | <a href="#">DN-EB35-A-10</a> | 10  | \$-07zi:  | <a href="#">DN-EB35-A-10</a> | 10  | \$-07zi:  | <a href="#">DN-EB35-A-10</a> | 10  | \$-07zi:  |
|                        | <a href="#">DN-QEB35</a>     | 50                        | \$07zk:   | <a href="#">DN-QEB35</a>     | 50  | \$07zk:   | <a href="#">DN-QEB35</a>     | 50  | \$07zk:   | <a href="#">DN-QEB35</a>     | 50  | \$07zk:   |
|                        | <a href="#">DN-QEB35-10</a>  | 10                        | \$-07zl:  | <a href="#">DN-QEB35-10</a>  | 10  | \$-07zl:  | <a href="#">DN-QEB35-10</a>  | 10  | \$-07zl:  | <a href="#">DN-QEB35-10</a>  | 10  | \$-07zl:  |
| Angled Support Bracket | <a href="#">DN-ASB1</a>      | 50                        | \$-007lk: | <a href="#">DN-ASB1</a>      | 50  | \$-007lk: | <a href="#">DN-ASB1</a>      | 50  | \$-007lk: | <a href="#">DN-ASB1</a>      | 50  | \$-007lk: |
| Marking Tags           | DN-QL Series                 | 500                       | various   | DN-QL Series                 | 500 | various   | DN-QL Series                 | 500 | various   | DN-QL Series                 | 500 | various   |

\* Copper wire only.

For more information on accessories, see the [DINnectors Accessories](#) section of this chapter.



# Screwless One-Connection to Two-Connection Terminal Blocks

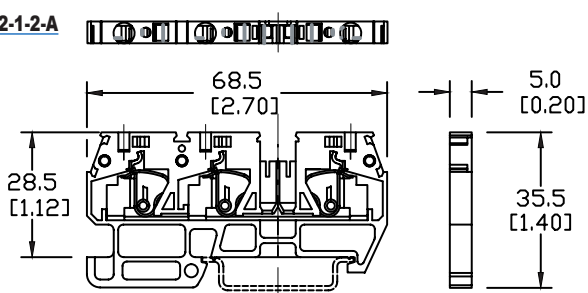
| 1N4007 Diode Information                                                        |                 |                      |
|---------------------------------------------------------------------------------|-----------------|----------------------|
| <b>RMS Reverse Voltage*</b>                                                     | <b>V (Rrms)</b> | <b>600V</b>          |
| <b>Average Rectified Forward Current<br/>Single Phase, Resistive Load, 60Hz</b> | <b>I (O)</b>    | <b>1.0 A</b>         |
| <b>Non-Repetitive Peak Surge Current<br/>(Surge applied at rated load)</b>      | <b>I (FSM)</b>  | <b>30A (1 cycle)</b> |
| <b>Maximum Forward Voltage Drop<br/>[I (F) = 1.0 A]</b>                         | <b>V (F)</b>    | <b>1.1 V</b>         |
| <b>Maximum Reverse Current</b>                                                  | <b>I (R)</b>    | <b>10eA</b>          |

\* The maximum reverse voltage rating of the diode alone is 1000V, but should not exceed the maximum 600V rating of the terminal block.

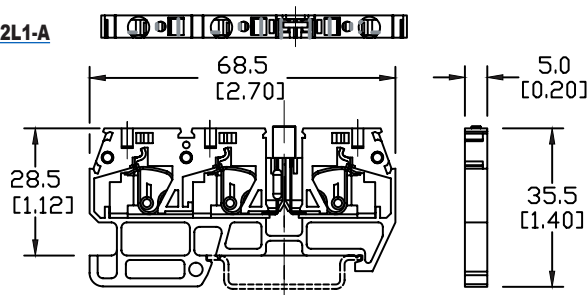
## Dimensions

mm [inches]

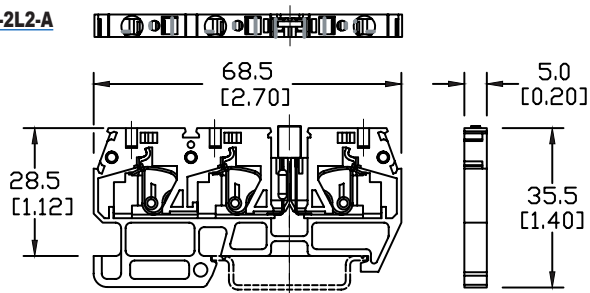
**DN-Q12-1-2-A**



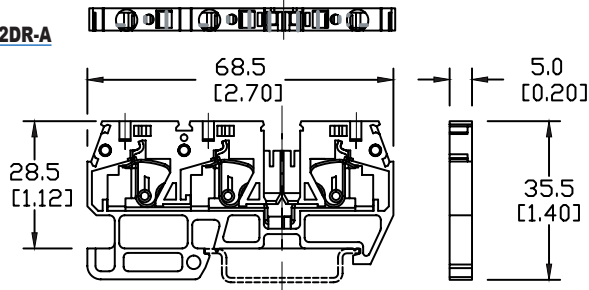
**DN-Q12-1-2L1-A**



**DN-Q12-1-2L2-A**



**DN-Q12-1-2DR-A**



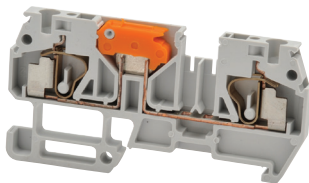


# Screwless Knife-Blade Disconnect Terminal Blocks

The [DN-QKBD12-A](#) allows fast circuit disconnection without rewiring and is 35mm DIN-rail mountable. This model provides circuit disconnection capability by means of a pivoting, insulated "knife blade."

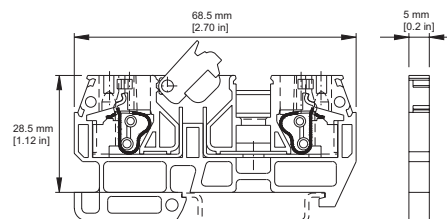


**WARNING: DO NOT DISCONNECT UNDER LOAD**



**DN-QKBD12-A (Euro QT2.5/35)**

## Dimensions

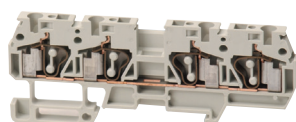


| Knife - Blade Disconnect Screwless Terminal Block |                     |                                                                                                                          |                          |           |
|---------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------|
|                                                   |                     | Part Number                                                                                                              | Qty                      | Price     |
| Gray Terminal Block                               |                     | <a href="#">DN-QKBD12-A</a>                                                                                              | 25                       | \$:,05]f. |
| Description                                       |                     | Knife-blade disconnect screwless terminal block for 24-12 AWG wire                                                       |                          |           |
| Specifications                                    |                     |                                                                                                                          |                          |           |
| Wire Strip Length                                 |                     | 12mm [0.47 in]                                                                                                           |                          |           |
| Density                                           |                     | 200/m [60 pcs/ft]                                                                                                        |                          |           |
| UL Approval*                                      |                     | 600V                                                                                                                     | 20A                      | 24-12 AWG |
| VDE Approval                                      |                     | 630V                                                                                                                     | 24A                      | 2.5 mm²   |
| Operating Temperature                             |                     | Ambient air temperature: -20 to 85°C [-4 to 185°F]<br>Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |                          |           |
| SCCR                                              |                     | 10kA per Table SB4.1, 2009, UL 508A,<br>Maximum short circuit current rating for unmarked components                     |                          |           |
| CE Conformity                                     |                     | CE (EN 60947-1 / EN 60947-7-1)                                                                                           |                          |           |
| Agency File #                                     |                     | UL E179129                                                                                                               |                          |           |
| Accessories                                       |                     |                                                                                                                          |                          |           |
|                                                   |                     | Part Number                                                                                                              | Pcs/<br>Pkg              | Price     |
| End Cover                                         |                     | <a href="#">DN-QEC12-1-2</a>                                                                                             | 25                       | \$07nx:   |
| Jumpers                                           | 2-pole              | <a href="#">DN-2J2Y</a>                                                                                                  | 100                      | \$05cv:   |
|                                                   |                     | <a href="#">DN-2J2YMN</a>                                                                                                | 25                       | \$07uh:   |
|                                                   | 3-pole              | <a href="#">DN-3J2Y</a>                                                                                                  | 100                      | \$05c.:   |
|                                                   |                     | <a href="#">DN-3J2YMN</a>                                                                                                | 25                       | \$07uk:   |
|                                                   | 24-pole             | <a href="#">DN-24J2Y</a>                                                                                                 | 5                        | \$07og:   |
|                                                   | Jumper Cutting Tool |                                                                                                                          | <a href="#">DN-J2CUT</a> | 1         |
| 35mm<br>DIN Rail                                  | 7.5 mm<br>high      | <a href="#">DN-R35S1</a>                                                                                                 | 10                       | \$-07lx:  |
|                                                   |                     | <a href="#">DN-R35S1-2</a>                                                                                               | 2                        | \$-07ly:  |
| End Brackets                                      |                     | <a href="#">DN-EB35</a>                                                                                                  | 50                       | \$07zg:   |
|                                                   |                     | <a href="#">DN-EB35MN</a>                                                                                                | 20                       | \$-07zj:  |
|                                                   |                     | <a href="#">DN-EB35-A</a>                                                                                                | 50                       | \$07zh:   |
|                                                   |                     | <a href="#">DN-EB35-A-10</a>                                                                                             | 10                       | \$-07zi:  |
|                                                   |                     | <a href="#">DN-QEB35</a>                                                                                                 | 50                       | \$07zk:   |
|                                                   |                     | <a href="#">DN-QEB35-10</a>                                                                                              | 10                       | \$-07zl:  |
| Angled Support Bracket                            |                     | <a href="#">DN-ASB1</a>                                                                                                  | 50                       | \$-007lk: |
| Marking Tags                                      |                     | <a href="#">DN-QL Series</a>                                                                                             | 500                      | various   |

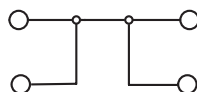
\* Copper wire only.

For more information on accessories, see the [DINnectors Accessories](#) section of this chapter.

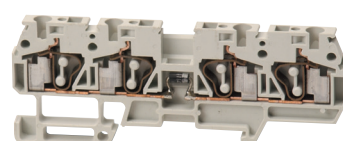
# Screwless Two-Connection to Two-Connection Terminal Blocks



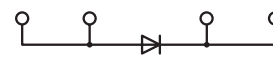
**DN-Q12-2-2-A**  
(Euro QM2/2 2.5/35)



**DN-Q12-2-2L2-A**  
(Euro QM2/2 2.5/35)



**DN-Q12-2-2D2-A**  
(Euro QM2/2 2.5/35)



1N4007 Reverse bias diode  
(See Diode information located on page tBTL-60)

## Ordering Information

|                     | Part Number                                                                  | Qty | Price   | Part Number                                                                                                               | Qty | Price   | Part Number                                                                                                                       | Qty | Price   |
|---------------------|------------------------------------------------------------------------------|-----|---------|---------------------------------------------------------------------------------------------------------------------------|-----|---------|-----------------------------------------------------------------------------------------------------------------------------------|-----|---------|
| Gray Terminal Block | <a href="#">DN-Q12-2-2-A</a>                                                 | 25  | \$07no: | <a href="#">DN-Q12-2-2L2-A</a>                                                                                            | 10  | \$07ns: | <a href="#">DN-Q12-2-2D2-A</a>                                                                                                    | 10  | \$07nq: |
| Blue Terminal Block | <a href="#">DN-Q12B-2-2-A</a>                                                | 25  | \$07nv: | —                                                                                                                         |     |         | —                                                                                                                                 |     |         |
| Description         | Two-connection to two-connection screwless terminal block for 24-12 AWG wire |     |         | Two-connection to two-connection screwless terminal block for 24-12 AWG wire. LED installed for visual circuit indication |     |         | Two-connection to two-connection screwless terminal block for 24-12 AWG wire. Reverse bias diode installed for circuit protection |     |         |

## Technical Specifications

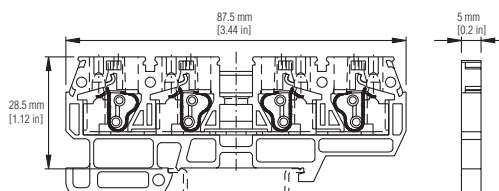
|                       |                                                                                                                           |     |                     |                       |     |                     |                   |          |                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------|-----|---------------------|-----------------------|-----|---------------------|-------------------|----------|---------------------|
| Stripping Length      | 12mm [0.47 in]                                                                                                            |     |                     | 12mm [0.47 in]        |     |                     | 12mm [0.47 in]    |          |                     |
| Density               | 200/m [60 pcs/ft]                                                                                                         |     |                     | 200/m [60 pcs/ft]     |     |                     | 200/m [60 pcs/ft] |          |                     |
| UL Approval*          | 600V                                                                                                                      | 20A | 24-12 AWG           | 600V                  | 20A | 24-12 AWG           | 600V              | 1A Diode | 24-12 AWG           |
| VDE Approval          | 630V                                                                                                                      | 20A | 2.5 mm <sup>2</sup> | 630V                  | 24A | 2.5 mm <sup>2</sup> | 630V              | 1A Diode | 2.5 mm <sup>2</sup> |
| LED Voltage           | -                                                                                                                         |     |                     | 12 - 24 VAC/DC 3.4 kΩ |     |                     | -                 |          |                     |
| Operating Temperature | Ambient air temperature: -20 to 105°C [-4 to 221°F]<br>Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |     |                     |                       |     |                     |                   |          |                     |
| SCCR                  | 10kA per Table SB4.1, 2009, UL 508A, Maximum short circuit current rating for unmarked components                         |     |                     |                       |     |                     |                   |          |                     |
| CE Conformity         | CE (EN 60947-1 / EN 60947-7-1)                                                                                            |     |                     |                       |     |                     |                   |          |                     |
| Agency File #         | UL E179129                                                                                                                |     |                     |                       |     |                     |                   |          |                     |

## Accessories

| End Cover              |                          | <a href="#">DN-QEC12-2-2</a> | 25      | \$07o5:   | <a href="#">DN-QEC12-2-2</a> | 25  | \$07o5:   | <a href="#">DN-QEC12-2-2</a> | 25  | \$07o5:   |
|------------------------|--------------------------|------------------------------|---------|-----------|------------------------------|-----|-----------|------------------------------|-----|-----------|
| Jumpers                | 2-pole                   | <a href="#">DN-2J2Y</a>      | 100     | \$05cv:   | -                            |     | -         |                              |     |           |
|                        |                          | <a href="#">DN-2J2YMN</a>    | 25      | \$07uh:   |                              |     |           |                              |     |           |
|                        | 3 pole                   | <a href="#">DN-3J2Y</a>      | 100     | \$05c :   |                              |     |           |                              |     |           |
|                        |                          | <a href="#">DN-3J2YMN</a>    | 25      | \$07uk:   |                              |     |           |                              |     |           |
| 24-pole                | <a href="#">DN-24J2Y</a> | 5                            | \$07og: |           |                              |     |           |                              |     |           |
| Jumper Cutting Tool    |                          | <a href="#">DN-J2CUT</a>     | 1       | \$:04,k:  |                              |     |           |                              |     |           |
| DIN Rail               | 7.5 mm high              | <a href="#">DN-R35S1</a>     | 10      | \$-07lx:  | <a href="#">DN-R35S1</a>     | 10  | \$-07lx:  | <a href="#">DN-R35S1</a>     | 10  | \$-07lx:  |
|                        |                          | <a href="#">DN-R35S1-2</a>   | 2       | \$-07ly:  | <a href="#">DN-R35S1-2</a>   | 2   | \$-07ly:  | <a href="#">DN-R35S1-2</a>   | 2   | \$-07ly:  |
| End Bracket            |                          | <a href="#">DN-EB35</a>      | 50      | \$07zg:   | <a href="#">DN-EB35</a>      | 50  | \$07zg:   | <a href="#">DN-EB35</a>      | 50  | \$07zg:   |
|                        |                          | <a href="#">DN-EB35MN</a>    | 20      | \$-07zj:  | <a href="#">DN-EB35MN</a>    | 20  | \$-07zj:  | <a href="#">DN-EB35MN</a>    | 20  | \$-07zj:  |
|                        |                          | <a href="#">DN-EB35-A</a>    | 50      | \$07zh:   | <a href="#">DN-EB35-A</a>    | 50  | \$07zh:   | <a href="#">DN-EB35-A</a>    | 50  | \$07zh:   |
|                        |                          | <a href="#">DN-EB35-A-10</a> | 10      | \$-07zi:  | <a href="#">DN-EB35-A-10</a> | 10  | \$-07zi:  | <a href="#">DN-EB35-A-10</a> | 10  | \$-07zi:  |
|                        |                          | <a href="#">DN-QEB35</a>     | 50      | \$07zk:   | <a href="#">DN-QEB35</a>     | 50  | \$07zk:   | <a href="#">DN-qeb35</a>     | 50  | \$07zk:   |
|                        |                          | <a href="#">DN-QEB35-10</a>  | 10      | \$-07zl:  | <a href="#">DN-QEB35-10</a>  | 10  | \$-07zl:  | <a href="#">DN-QEB35-10</a>  | 10  | \$-07zl:  |
| Angled Support Bracket |                          | <a href="#">DN-ASB1</a>      | 50      | \$-007lk: | <a href="#">DN-ASB1</a>      | 50  | \$-007lk: | <a href="#">DN-ASB1</a>      | 50  | \$-007lk: |
| Marking Tags           |                          | DN-QL Series                 | 500     | various   | DN-QL Series                 | 500 | various   | DN-QL Series                 | 500 | various   |

\* Copper wire only

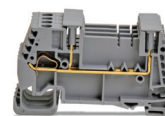
For more information on accessories, see the DINnectors Accessories section of this chapter.





Single and double-level DN-QEMXxx screwless plug-in terminal blocks with spring terminals accept all DN-xxPLUG Euro plugs. These terminal blocks are 35mm DIN-rail mountable.

# Screwless Plug-In Terminal Blocks



(4) DN-QEMXM1  
EURO XM1/2V 2.5/35



(4) DN-QEMXM1 with  
(2) DN-4PLUG

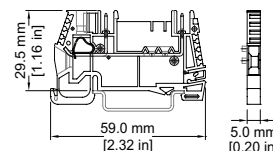


(4) DN-QEMXDV  
EURO XDV 2.5/35

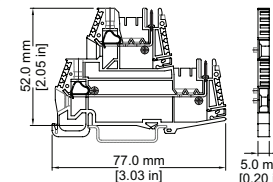


(4) DN-QEMXDV with  
(2) DN-4PLUG

DN-QEMXM1



DN-QEMXDV



| Ordering Information     |                                                                                                                               |               |           |                                  |               |           |           |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------|-----------|----------------------------------|---------------|-----------|-----------|
|                          | Part Number                                                                                                                   | Qty           | Price     | Part Number                      | Qty           | Price     |           |
| Gray Terminal Block      | DN-QEMXM1                                                                                                                     | 32            | \$07oe:   | DN-QEMXDV                        | 32            | \$07od:   |           |
| Technical Specifications |                                                                                                                               |               |           |                                  |               |           |           |
| Stripping Length         | 8mm [0.31 in]                                                                                                                 |               |           | 8mm [0.31 in]                    |               |           |           |
| Levels                   | Single Level                                                                                                                  |               |           | Double Level                     |               |           |           |
| UL Approval*             | 300V                                                                                                                          | 12A           | 24-12 AWG | 300V                             | 11A**         | 24-12 AWG |           |
| Operating Temperature    | Ambient air temperature: -20°C to 105°C [-4°F to 221°F]<br>Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |               |           |                                  |               |           |           |
| SCCR Rating              | 10kA per Table SB4.1, 2009, UL 508A, maximum SCCR for unmarked components                                                     |               |           |                                  |               |           |           |
| CE Conformity            | CE (EN 60947-1 / EN 60947-7-1)                                                                                                |               |           |                                  |               |           |           |
| Agency File #            | UL E179129                                                                                                                    |               |           |                                  |               |           |           |
| Accessories              |                                                                                                                               |               |           |                                  |               |           |           |
| End Cover                | left (open) side                                                                                                              | DN-EMXM1EC1   | 25        | \$;0ete:                         | DN-EMXDVEC1   | 25        | \$;0etc:  |
|                          | right (closed) side                                                                                                           | DN-EMXM1EC2   | 25        | \$;0etf:                         | DN-EMXDVEC2   | 25        | \$;0etd:  |
| Spacer                   | either side                                                                                                                   | DN-EMXM1SPA1  | 25        | \$07uq:                          | DN-EMXM1SPA1  | 25        | \$07uq:   |
| Jumpers                  | 2-pole                                                                                                                        | DN-2J2Y       | 100       | \$05cv:                          | DN-2J2Y       | 100       | \$05cv:   |
|                          |                                                                                                                               | DN-2J2YMN     | 25        | \$07uh:                          | DN-2J2YMN     | 25        | \$07uh:   |
|                          | 3-pole                                                                                                                        | DN-3J2Y       | 100       | \$05c :                          | DN-3J2Y       | 100       | \$05c :   |
|                          |                                                                                                                               | DN-3J2YMN     | 25        | \$07uk:                          | DN-3J2YMN     | 25        | \$07uk:   |
|                          | 24-pole                                                                                                                       | DN-24J2Y      | 5         | \$07og:                          | DN-24J2Y      | 5         | \$07og:   |
| Jumper Cutting Tool      |                                                                                                                               | DN-J2CUT      | 1         | \$;04,k:                         | DN-J2CUT      | 1         | \$;04,k:  |
| Pin Protector – 4-pole   |                                                                                                                               | DN-EMPEG1 *** | 16        | \$;7xj:                          | DN-EMPEG1 *** | 16        | \$;7xj:   |
| 35mm<br>DIN Rail         | 7.5 mm<br>high                                                                                                                | DN-R35S1      | 10        | \$-07lx:                         | DN-R35S1      | 10        | \$-07lx:  |
|                          |                                                                                                                               | DN-R35S1-2    | 2         | \$-07ly:                         | DN-R35S1-2    | 2         | \$-07ly:  |
|                          | 15mm<br>high                                                                                                                  | DN-R35HS1     | 10        | \$-07lu:                         | DN-R35HS1     | 10        | \$-07lu:  |
|                          |                                                                                                                               | DN-R35HS1-2   | 2         | \$-07lv:                         | DN-R35HS1-2   | 2         | \$-07lv:  |
| End Bracket              |                                                                                                                               | DN-EB35       | 50        | \$07zg:                          | DN-EB35       | 50        | \$07zg:   |
|                          |                                                                                                                               | DN-EB35MN     | 20        | \$-07zj:                         | DN-EB35MN     | 20        | \$-07zj:  |
|                          |                                                                                                                               | DN-EB35-A     | 50        | \$07zh:                          | DN-EB35-A     | 50        | \$07zh:   |
|                          |                                                                                                                               | DN-EB35-A-10  | 10        | \$-07zi:                         | DN-EB35-A-10  | 10        | \$-07zi:  |
|                          |                                                                                                                               | DN-QEB35      | 50        | \$07zk:                          | DN-QEB35      | 50        | \$07zk:   |
|                          |                                                                                                                               | DN-QEB35-10   | 10        | \$-07zl:                         | DN-QEB35-10   | 10        | \$-07zl:  |
| Angled Support Bracket   |                                                                                                                               | DN-ASB1       | 50        | \$-007lk:                        | DN-ASB1       | 50        | \$-007lk: |
| Marking Tags             | DN-LA, DN-LT,<br>DN-EMLBL series                                                                                              | 500/100       | various   | DN-LA, DN-LT,<br>DN-EMLBL series | 500/100       | various   |           |

\*For copper wire only \*\*DN-QEMXDV rated 12A for stranded wire; 11A for solid wire

\*\*\*DN-EMPEG1 each piece covers and protects up to 4 unused pins

Note: For more information on accessories, see the DINnectors Accessories section of this section.

| Accessories – Terminal Plugs |                 |                |     |          |              |                 |                |     |           |
|------------------------------|-----------------|----------------|-----|----------|--------------|-----------------|----------------|-----|-----------|
| *Part Number                 | Number of Poles | Length in [mm] | Qty | Price    | *Part Number | Number of Poles | Length in [mm] | Qty | Price     |
| DN-2PLUG                     | 2               | 0.40           | 200 | \$006a9: | DN-8PLUG     | 8               | 1.60           | 50  | \$;006af: |
| DN-2PLUGMN                   |                 | [10.2]         | 10  | \$7n3:   | DN-8PLUGMN   |                 | [40.6]         | 5   | \$07n9:   |
| DN-3PLUG                     | 3               | 0.60           | 200 | \$006aa: | DN-9PLUG     | 9               | 1.80           | 50  | \$006ag:  |
| DN-3PLUGMN                   |                 | [15.2]         | 10  | \$07n4:  | DN-9PLUGMN   |                 | [45.7]         | 5   | \$07na:   |
| DN-4PLUG                     | 4               | 0.80           | 100 | \$006ab: | DN-10PLUG    | 10              | 2.00           | 50  | \$00675:  |
| DN-4PLUGMN                   |                 | [20.3]         | 10  | \$07n5:  | DN-10PLUGMN  |                 | [50.8]         | 5   | \$07n0:   |
| DN-5PLUG                     | 5               | 1.00           | 100 | \$006ac: | DN-11PLUG    | 11              | 2.20           | 50  | \$00676:  |
| DN-5PLUGMN                   |                 | [25.4]         | 10  | \$07n6:  | DN-11PLUGMN  |                 | [55.9]         | 5   | \$07n1:   |
| DN-6PLUG                     | 6               | 1.20           | 100 | \$006ad: | DN-12PLUG    | 12              | 2.40           | 50  | \$00677:  |
| DN-6PLUGMN                   |                 | [30.5]         | 10  | \$07n7:  | DN-12PLUGMN  |                 | [61.0]         | 5   | \$07n2:   |
| DN-7PLUG                     | 7               | 1.40           | 50  | \$006ae: |              |                 |                |     |           |
| DN-7PLUGMN                   |                 | [35.6]         | 5   | \$07n8:  |              |                 |                |     |           |

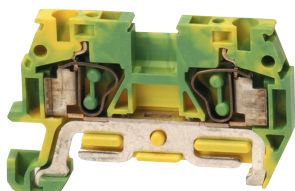
\* DN-xxPLUGs fit all DN-EMXxx & DN-QEMXxx plug-in terminal blocks.

| Terminal Plugs Ratings |                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Voltage/Current        | 300V, 12A                                                                                                             |
| Wire Gauge             | 14–22 AWG, CU only                                                                                                    |
| Torque                 | Tightening Torque: 0.51 N·m [4.5 lb·in]                                                                               |
| Operating Temperature  | Ambient air temp: -20 to 105°C [-4 to 221°F]<br>Relative humidity: 50% max at 40°C [104°F];<br>90% max at 20°C [68°F] |
| Agency Approvals       | UL file #: E179129                                                                                                    |

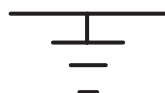




# Screwless Ground Terminal Blocks



**DN-QG12**  
(Euro QE2.5/35)

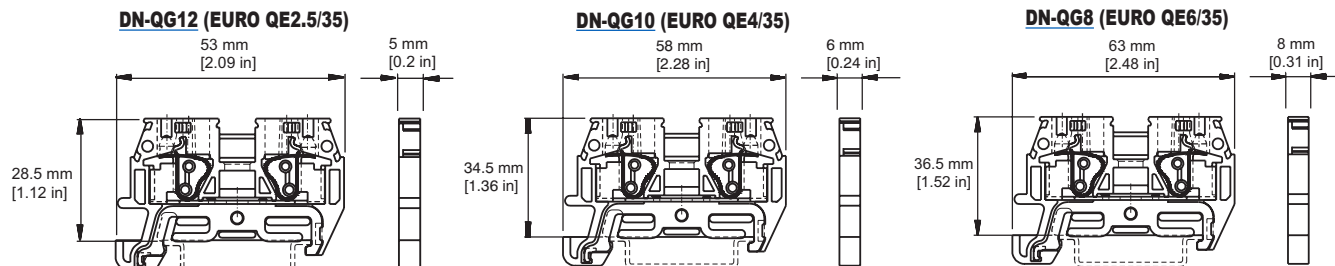


Ground terminal blocks are used to mechanically and electrically connect wires to the DIN rail by means of a conducting clamping foot. In this way, the DIN rail can function as a ground bus bar.

Ground blocks are molded in green and yellow per international standards and are 35mm DIN-rail mountable.

| Ordering Information      |                                                                                                                          |     |           |                              |     |           |                              |     |           |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------|-----|-----------|------------------------------|-----|-----------|------------------------------|-----|-----------|
|                           | Part Number                                                                                                              | Qty | Price     | Part Number                  | Qty | Price     | Part Number                  | Qty | Price     |
| Green/Yellow Block        | <a href="#">DN-QG12</a>                                                                                                  | 10  | \$07o9:   | <a href="#">DN-QG10</a>      | 10  | \$07o8:   | <a href="#">DN-QG8</a>       | 10  | \$07oc:   |
| Technical Specifications  |                                                                                                                          |     |           |                              |     |           |                              |     |           |
| Stripping Length          | 12mm [0.47 in]                                                                                                           |     |           | 15mm [0.59 in]               |     |           | 18mm [0.71 in]               |     |           |
| Density                   | 200/m [60 pcs/ft]                                                                                                        |     |           | 166/m [50 pcs/ft]            |     |           | 125/m [38 pcs/ft]            |     |           |
| UL Approval               | 24-12 AWG                                                                                                                |     |           | 24-10 AWG                    |     |           | 22-8 AWG                     |     |           |
| VDE Approval              | 2.5 mm²                                                                                                                  |     |           | 4mm²                         |     |           | 6mm²                         |     |           |
| Operating Temperature     | Ambient air temperature: -20 to 105°C [-4 to 221°F] / Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |     |           |                              |     |           |                              |     |           |
| SCCR Rating               | 10kA per Table SB4.1, 2009, UL 508A, Maximum short circuit current rating for unmarked components                        |     |           |                              |     |           |                              |     |           |
| CE Conformity             | CE (EN 60947-1 / EN 60947-2)                                                                                             |     |           |                              |     |           |                              |     |           |
| Agency File #             | UL E179129                                                                                                               |     |           |                              |     |           |                              |     |           |
| Accessories               |                                                                                                                          |     |           |                              |     |           |                              |     |           |
| End Cover                 | <a href="#">DN-QEC12</a>                                                                                                 | 50  | \$07o4:   | <a href="#">DN-QEC10</a>     | 50  | \$07o2:   | <a href="#">DN-QEC8</a>      | 50  | \$07o6:   |
|                           | <a href="#">DN-QEC12MN</a>                                                                                               | 10  | \$;etg:   | <a href="#">DN-QEC10MN</a>   | 10  | \$7o3:    | <a href="#">DN-QEC8MN</a>    | 10  | \$7o7:    |
| 35mm<br>DIN Rail          | <a href="#">DN-R35S1</a>                                                                                                 | 10  | \$-07lx:  | <a href="#">DN-R35S1</a>     | 10  | \$-07lx:  | <a href="#">DN-R35S1</a>     | 10  | \$-07lx:  |
|                           | <a href="#">DN-R35S1-2</a>                                                                                               | 2   | \$-07ly:  | <a href="#">DN-R35S1-2</a>   | 2   | \$-07ly:  | <a href="#">DN-R35S1-2</a>   | 2   | \$-07ly:  |
| End Brackets              | <a href="#">DN-EB35</a>                                                                                                  | 50  | \$07zg:   | <a href="#">DN-EB35</a>      | 50  | \$07zg:   | <a href="#">DN-EB35</a>      | 50  | \$07zg:   |
|                           | <a href="#">DN-EB35MN</a>                                                                                                | 20  | \$-07zj:  | <a href="#">DN-EB35MN</a>    | 20  | \$-07zj:  | <a href="#">DN-EB35MN</a>    | 20  | \$-07zj:  |
|                           | <a href="#">DN-EB35-A</a>                                                                                                | 50  | \$07zh:   | <a href="#">DN-EB35-A</a>    | 50  | \$07zh:   | <a href="#">DN-EB35-A</a>    | 50  | \$07zh:   |
|                           | <a href="#">DN-EB35-A-10</a>                                                                                             | 10  | \$-07zi:  | <a href="#">DN-EB35-A-10</a> | 10  | \$-07zi:  | <a href="#">DN-EB35-A-10</a> | 10  | \$-07zi:  |
|                           | <a href="#">DN-QEB35</a>                                                                                                 | 50  | \$07zk:   | <a href="#">DN-QEB35</a>     | 50  | \$07zk:   | <a href="#">DN-QEB35</a>     | 50  | \$07zk:   |
|                           | <a href="#">DN-QEB35-10</a>                                                                                              | 10  | \$-07zl:  | <a href="#">DN-QEB35-10</a>  | 10  | \$-07zl:  | <a href="#">DN-QEB35-10</a>  | 10  | \$-07zl:  |
| Angled Support<br>Bracket | <a href="#">DN-ASB1</a>                                                                                                  | 50  | \$-007lk: | <a href="#">DN-ASB1</a>      | 50  | \$-007lk: | <a href="#">DN-ASB1</a>      | 50  | \$-007lk: |
| Marking Tags              | DN-QL Series                                                                                                             | 500 | various   | DN-QL Series                 | 500 | various   | DN-QL Series                 | 500 | various   |

Note: For more information on accessories, see the [DINnectors Accessories](#) section of this chapter.

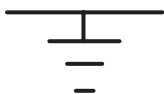




# Screwless Ground Terminal Blocks



**DN-QG12-1-2**  
(EURO QME3-2.5/35)



## Ordering Information

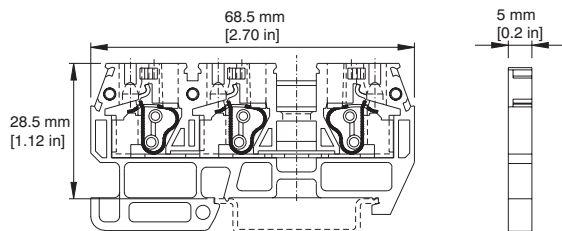
|                          | Part Number                                                                                                               | Qty | Price   | Part Number                        | Qty | Price   |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------|-----|---------|------------------------------------|-----|---------|
| Green/Yellow Block       | <u><a href="#">DN-QG12-1-2</a></u>                                                                                        | 10  | \$070a: | <u><a href="#">DN-QG12-2-2</a></u> | 10  | \$070b: |
| Technical Specifications |                                                                                                                           |     |         |                                    |     |         |
| Stripping Length         | 12mm [0.47 in]                                                                                                            |     |         | 12mm [0.47 in]                     |     |         |
| Density                  | 200/m [60 pcs/ft]                                                                                                         |     |         | 200/m [60 pcs/ft]                  |     |         |
| UL Approval              | 24-12 AWG                                                                                                                 |     |         | 24-12 AWG                          |     |         |
| VDE Approval             | 2.5 mm²                                                                                                                   |     |         | 2.5 mm²                            |     |         |
| Operating Temperature    | Ambient air temperature: -20 to 105°C [-4 to 221°F]<br>Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |     |         |                                    |     |         |
| SCCR Rating              | 10kA per Table SB4.1, 2009, UL 508A,<br>Maximum short circuit current rating for unmarked components                      |     |         |                                    |     |         |
| CE Conformity            | CE (EN 60947-1 / EN 60947-7-2)                                                                                            |     |         |                                    |     |         |
| Agency File #            | UL E179129                                                                                                                |     |         |                                    |     |         |

## Accessories

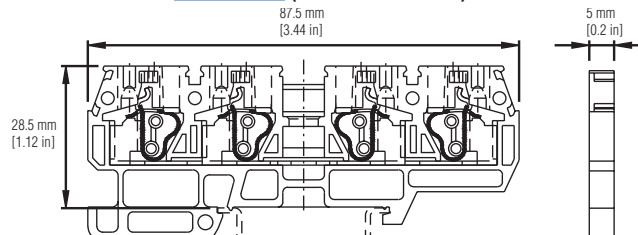
|                        |                              |     |           |                              |     |           |
|------------------------|------------------------------|-----|-----------|------------------------------|-----|-----------|
| End Cover              | <a href="#">DN-QEC12-1-2</a> | 25  | \$07nx:   | <a href="#">DN-QEC12-2-2</a> | 25  | \$0705:   |
| 35mm<br>DIN Rail       | <a href="#">DN-R35S1</a>     | 10  | \$-07lx:  | <a href="#">DN-R35S1</a>     | 10  | \$-07lx:  |
|                        | <a href="#">DN-R35S1-2</a>   | 2   | \$-07ly:  | <a href="#">DN-R35S1-2</a>   | 2   | \$-07ly:  |
| End Brackets           | <a href="#">DN-EB35</a>      | 50  | \$07zg:   | <a href="#">DN-EB35</a>      | 50  | \$07zg:   |
|                        | <a href="#">DN-EB35MN</a>    | 20  | \$-07zj:  | <a href="#">DN-EB35MN</a>    | 20  | \$-07zj:  |
|                        | <a href="#">DN-EB35-A</a>    | 50  | \$07zh:   | <a href="#">DN-EB35-A</a>    | 50  | \$07zh:   |
|                        | <a href="#">DN-EB35-A-10</a> | 10  | \$-07zi:  | <a href="#">DN-EB35-A-10</a> | 10  | \$-07zi:  |
|                        | <a href="#">DN-QEB35</a>     | 50  | \$07zk:   | <a href="#">DN-QEB35</a>     | 50  | \$07zk:   |
|                        | <a href="#">DN-QEB35-10</a>  | 10  | \$-07zl:  | <a href="#">DN-QEB35-10</a>  | 10  | \$-07zl:  |
| Angled Support Bracket | <a href="#">DN-ASB1</a>      | 50  | \$-007lk: | <a href="#">DN-ASB1</a>      | 50  | \$-007lk: |
| Marking Tags           | DN-QL-Series                 | 500 | various   | DN-QL Series                 | 500 | various   |

Note: For more information of accessories, see the DINnectors Accessories section of this chapter.

**DN-QG12-1-2 (EURO QME3-2.5/35)**



**DN-QG12-2-2 (EURO QME4-2.5/35)**



# DINnectors® Accessories

## Steel DIN Rail (One-Meter Length)

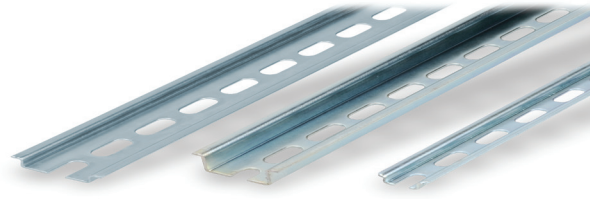
### Features

#### 35mm wide

- 7.5 mm-high rails primarily used to mount terminal blocks, relays, timers and small PLCs such as the BRX, CLICK, DirectLogic and Productivity series. 15mm-high rails for mounting larger and heavier components such as contactors and larger PLCs

#### 15mm wide

- [DN-R15S1](#) exclusively for mounting mini terminal blocks such as the [DN-M10-A](#)



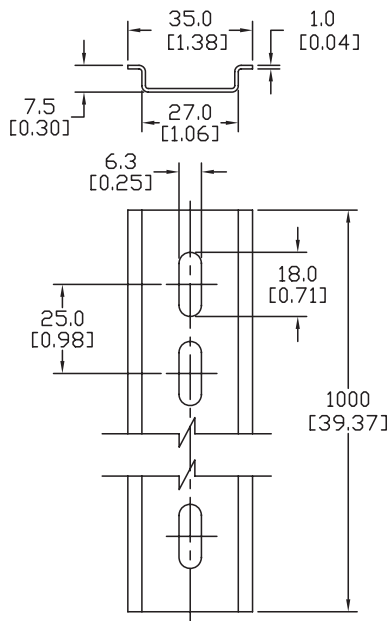
### Steel DIN Rails Specifications

|                               | Part Number                                                                                              | Qty | Price    | Part Number                                                                                             | Qty | Price    | Part Number                                                                                              | Qty | Price     |
|-------------------------------|----------------------------------------------------------------------------------------------------------|-----|----------|---------------------------------------------------------------------------------------------------------|-----|----------|----------------------------------------------------------------------------------------------------------|-----|-----------|
| DIN Rail                      | <a href="#">DN-R35S1</a>                                                                                 | 10  | \$-07lx: | <a href="#">DN-R35HS1</a>                                                                               | 10  | \$-07lu: | <a href="#">DN-R15S1</a>                                                                                 | 10  | \$-07ls:  |
|                               | <a href="#">DN-R35S1-2</a>                                                                               | 2   | \$-07ly: | <a href="#">DN-R35HS1-2</a>                                                                             | 2   | \$-07lv: | <a href="#">DN-R15S1-2</a>                                                                               | 2   | \$;-07lt: |
| Description                   | DINnector DIN rail, slotted, 35mm width, 7.5mm height, 1m (39.37in) length, plated steel. Package of 10. |     |          | DINnector DIN rail, slotted, 35mm width, 15mm height, 1m (39.37in) length, plated steel. Package of 10. |     |          | DINnector DIN rail, slotted, 15mm width, 5.5mm height, 1m (39.37in) length, plated steel. Package of 10. |     |           |
| Plating                       | Zinc-plated and chromated                                                                                |     |          |                                                                                                         |     |          |                                                                                                          |     |           |
| International Standards       | EN 60715, RoHs                                                                                           |     |          |                                                                                                         |     |          |                                                                                                          |     |           |
| Suggested Mounting Screw Type | M6                                                                                                       |     |          | M6                                                                                                      |     |          | M4                                                                                                       |     |           |

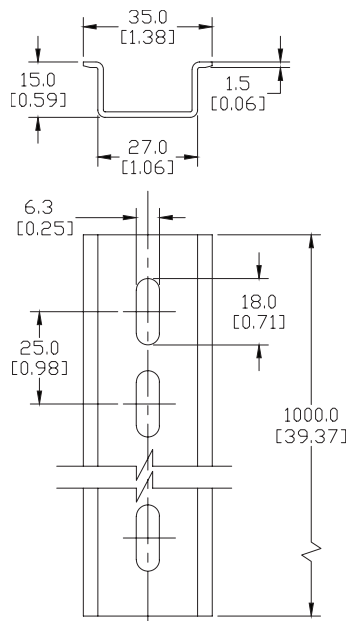
### Dimensions

mm [inches]

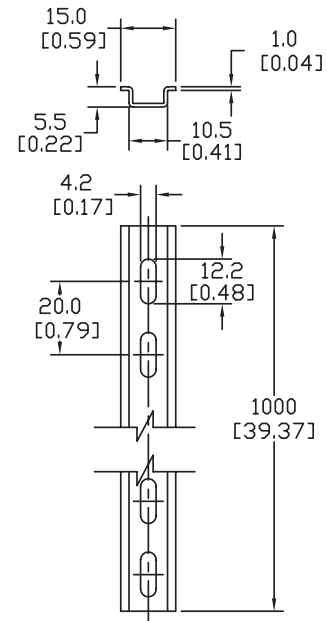
**DN-R35S1**



**DN-R35HS1**



**DN-R15S1**



See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings

# **DINnectors** Accessories

## Aluminum DIN Rail (One-Meter Length)

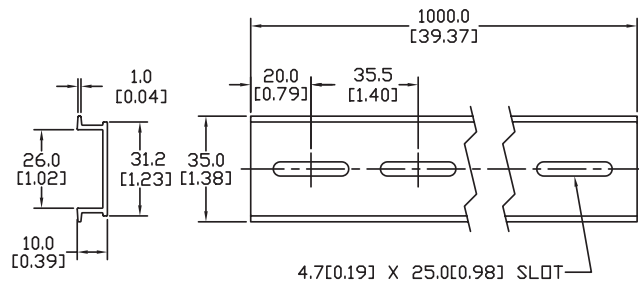
### Features

#### 35mm wide

- Non-anodized finish
- Terminal blocks only
- Maximum mounting screw #10-32 or M5
- Available in 1-meter standard length
- Quantity per pack: 2 or 10

### Dimensions

mm [inches]

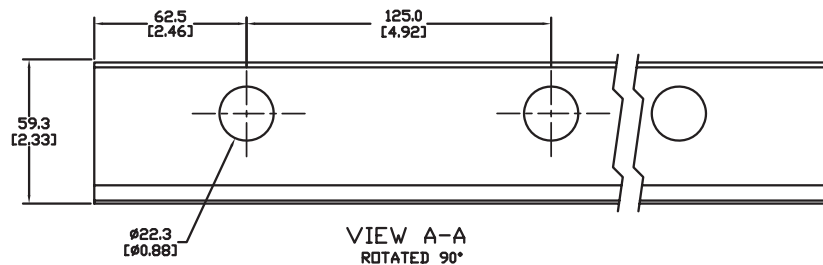


**DN-R35SAL1**  
**DN-R35SAL1-2**

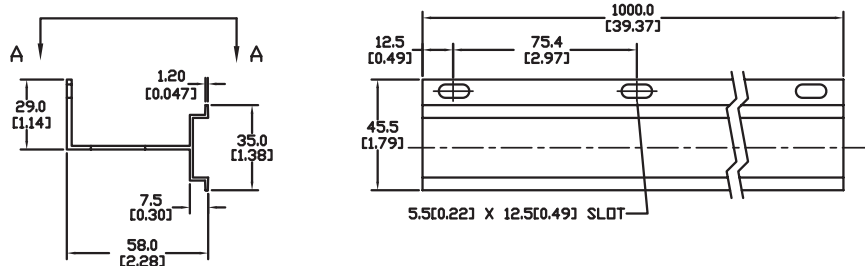
### Features

#### 35mm wide raised

- Non-anodized finish
- Enables users to raise terminal blocks 2¼" above the back panel
- Terminal blocks only
- Available in 1-meter standard length
- Bushing or grommet recommended for wire access hole (example Heyco UB-875 not sold by ADC)
- Quantity per pack: 2



**DN-R35SAL2-2**



## Aluminum DIN Rails Specifications (One-Meter Length)

|                               | Part Number                                                                                         | Qty | Price     | Part Number                                                                                                    | Qty | Price     |
|-------------------------------|-----------------------------------------------------------------------------------------------------|-----|-----------|----------------------------------------------------------------------------------------------------------------|-----|-----------|
| DIN Rail                      | <u>DN-R35SAL1</u>                                                                                   | 10  | \$-071z:  | <u>DN-R35SAL2-2</u>                                                                                            | 2   | \$;-071l: |
|                               | <u>DN-R35SAL1-2</u>                                                                                 | 2   | \$;-071l: |                                                                                                                |     |           |
| Description                   | DINnector DIN rail, slotted, 35mm width, 10mm height, 1m (39.37in) length, aluminum. Package of 10. |     |           | DINnector DIN rail, slotted, 2in raised 35mm width, 7.5mm height, 1m (39.37in) length, aluminum. Package of 2. |     |           |
| International Standards       | DIN 50960, RoHs                                                                                     |     |           |                                                                                                                |     |           |
| Suggested Mounting Screw Type | #10-32 or M5                                                                                        |     |           |                                                                                                                |     |           |



See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings

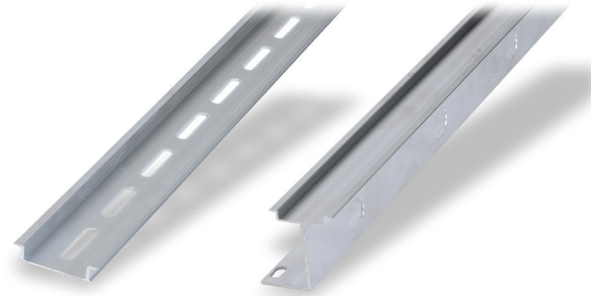
# **DINnectors® Accessories**

## Aluminum DIN Rail (Pre-Cut Lengths)

### Features

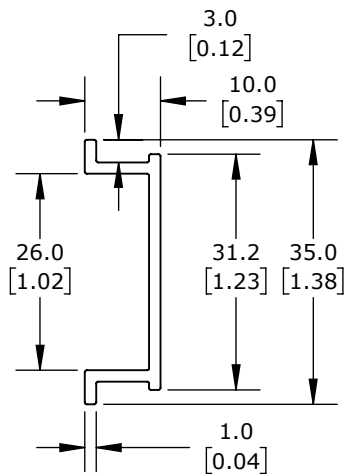
#### 35mm wide

- Non-anodized finish
- Terminal blocks only
- Maximum mounting screw #10-32 or M5
- Available in variable lengths (see chart)
- Quantity per pack: 5

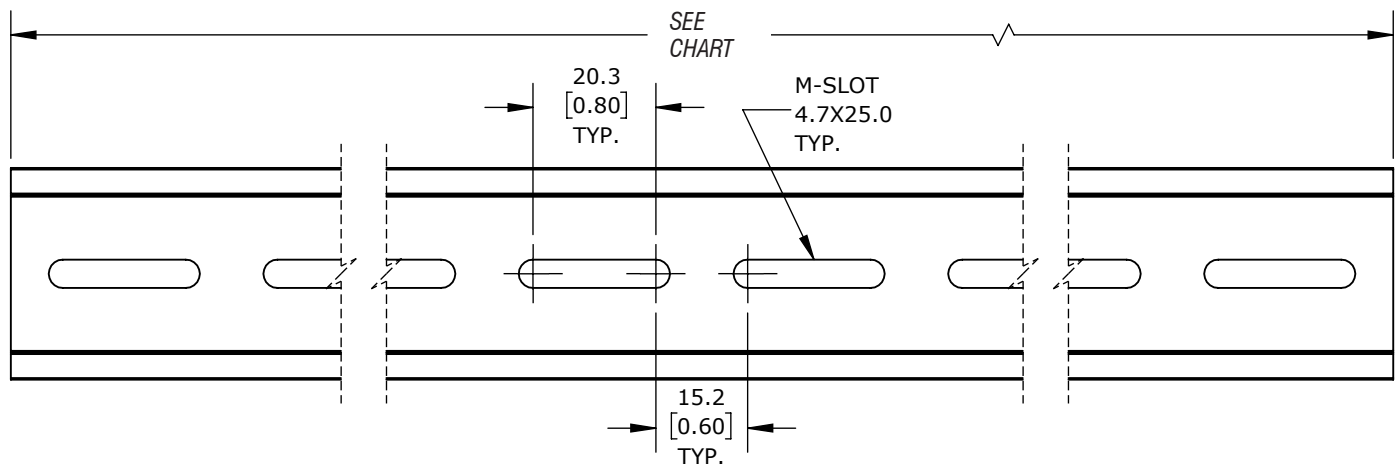


### Dimensions

mm [inches]



| Aluminum DIN Rails Specifications (Pre-Cut Lengths) |                |                 |            |
|-----------------------------------------------------|----------------|-----------------|------------|
| Part Number                                         | Length mm [in] | Number of Slots | Price      |
| <a href="#"><u>DN-R35SAL1-072-5</u></a>             | 72 [2.83]      | 2               | \$,-6j)y:  |
| <a href="#"><u>DN-R35SAL1-143-5</u></a>             | 143 [5.63]     | 4               | \$,-6j)z:  |
| <a href="#"><u>DN-R35SAL1-215-5</u></a>             | 215 [8.46]     | 6               | \$,-6j)]:  |
| <a href="#"><u>DN-R35SAL1-286-5</u></a>             | 286 [11.26]    | 8               | \$,-6j)]:  |
| <a href="#"><u>DN-R35SAL1-358-5</u></a>             | 358 [14.09]    | 10              | \$,-6j)]:  |
| <a href="#"><u>DN-R35SAL1-429-5</u></a>             | 429 [16.89]    | 12              | \$,-6j)]#: |
| <a href="#"><u>DN-R35SAL1-500-5</u></a>             | 500 [19.69]    | 14              | \$,-6j)]:  |
| <a href="#"><u>DN-R35SAL1-572-5</u></a>             | 572 [22.52]    | 16              | \$,-6j)]0: |
| <a href="#"><u>DN-R35SAL1-644-5</u></a>             | 644 [25.35]    | 18              | \$,-6j)]1: |
| <a href="#"><u>DN-R35SAL1-715-5</u></a>             | 715 [28.15]    | 20              | \$,-6j)]2: |
| <a href="#"><u>DN-R35SAL1-787-5</u></a>             | 787 [30.98]    | 22              | \$,-6j)]:  |
| <a href="#"><u>DN-R35SAL1-858-5</u></a>             | 858 [33.78]    | 24              | \$,-6j)]?: |



See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings



# **DINnectors** Accessories

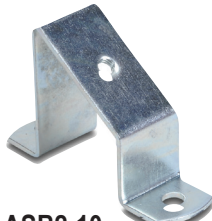
## DIN rail support brackets

- Angled support brackets raise and tilt mounting rails 30 degrees from mounting surface for easier wiring
- [DN-ASB1](#) plated steel support bracket
- [DN-ASB2-10](#) cold-rolled steel treated with galvanic zinc plating and passivation

## DIN rail mounting clips

- Snap small devices not made for mounting onto 35mm DIN rails
- Zinc-plated steel

| DIN Rail Support Brackets and Mounting Clips |                                                                                |     |            |
|----------------------------------------------|--------------------------------------------------------------------------------|-----|------------|
| Part Number                                  | Description                                                                    | Qty | Price      |
| <a href="#">DN-ASB1</a>                      | 30° angled DIN rail support bracket (M6-1.0 screws not included)               | 50  | \$-.0071k: |
| <a href="#">DN-ASB2-10</a>                   | 30° angled DIN rail support bracket (M6-1.0 screws included)                   | 10  | \$--071l:  |
| <a href="#">DN-SSB25-10</a>                  | 1" (25mm) DIN rail support bracket (M6-1.0 screws included)                    | 10  | \$-.071_:  |
| <a href="#">DN-SSB50-10</a>                  | 2" (50mm) DIN rail support bracket (M6-1.0 screws included)                    | 10  | \$-.071#:  |
| <a href="#">DN-SSB70-10</a>                  | 2.75" (70mm) DIN rail support bracket (M6-1.0 screws included)                 | 10  | \$;-071l:  |
| <a href="#">DN-SSB90-10</a>                  | 3.5" (90mm) DIN rail support bracket (M6-1.0 screws included)                  | 10  | \$-.071?:  |
| <a href="#">DN-CLIP-FM4</a>                  | DIN rail mounting clip with M4 x 0.7 mm threaded hole<br>(Screws not included) | 40  | \$-.071n:  |
| <a href="#">DN-CLIP-FM4-5</a>                |                                                                                | 5   | \$-71o:    |
| <a href="#">DN-CLIP-FM5</a>                  | DIN rail mounting clip with M5 x 0.8 mm threaded hole<br>(Screws not included) | 40  | \$-.071p:  |
| <a href="#">DN-CLIP-FM5-5</a>                |                                                                                | 5   | \$-71q:    |

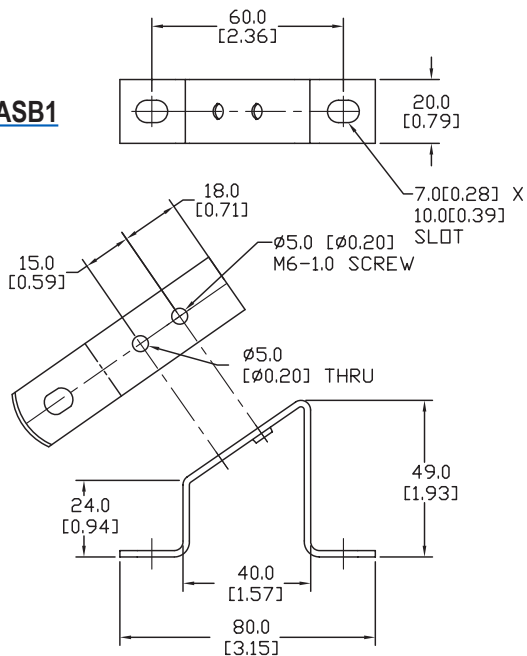
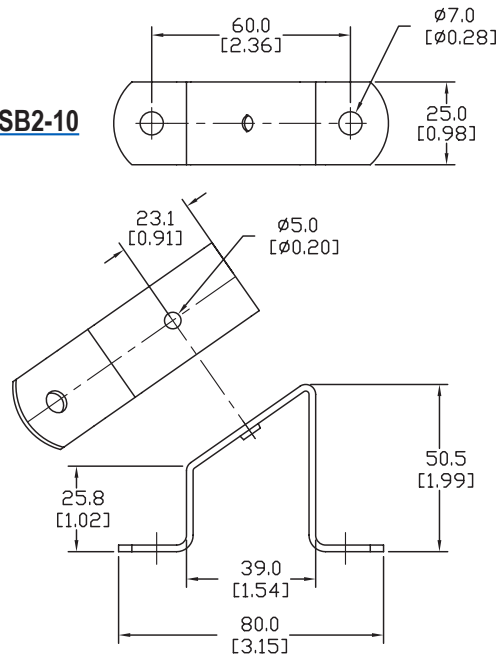
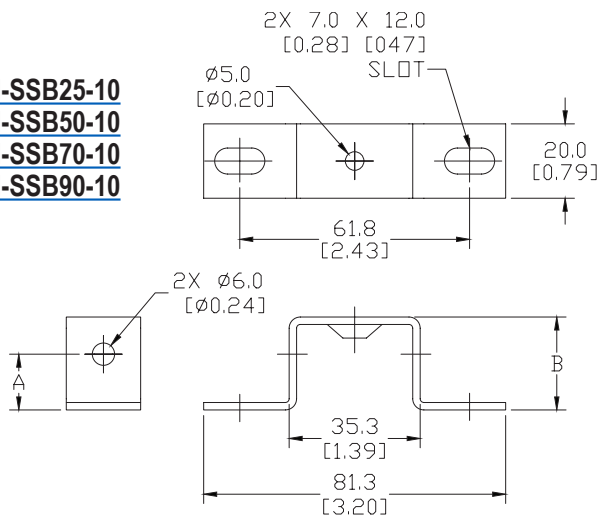
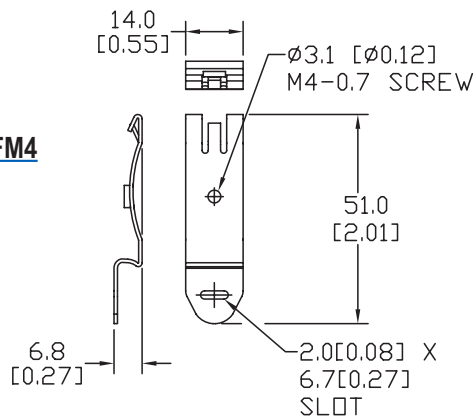
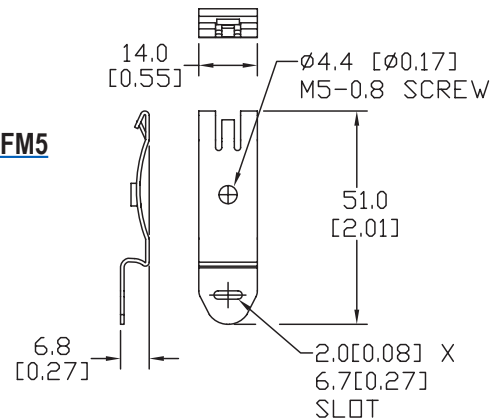
[DN-ASB1](#)[DN-ASB2-10](#)[DN-SSB25-10](#)[DN-SSB50-10](#)[DN-SSB70-10](#)[DN-SSB90-10](#)
[DN-CLIP-FM4](#)  
[DN-CLIP-FM4-5](#)

[DN-CLIP-FM5](#)  
[DN-CLIP-FM5-5](#)

# **DINnectors** Accessories

## Dimensions

mm [inches]

**DN-ASB1****DN-ASB2-10**
**DN-SSB25-10**  
**DN-SSB50-10**  
**DN-SSB70-10**  
**DN-SSB90-10**
**DN-CLIP-FM4****DN-CLIP-FM5**

### DIN Rail Support Brackets

| Part Number               | DIM A<br>mm [inches] | DIM B<br>mm [inches] |
|---------------------------|----------------------|----------------------|
| <b><u>DN-SSB25-10</u></b> | 15.0 [0.59]          | 25.0 [0.98]          |
| <b><u>DN-SSB50-10</u></b> | 40.0 [1.58]          | 50.0 [1.97]          |
| <b><u>DN-SSB70-10</u></b> | 60.0 [2.36]          | 70.0 [2.76]          |
| <b><u>DN-SSB90-10</u></b> | 80.0 [3.15]          | 90.0 [3.54]          |

See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings

# DINnectors® Accessories

## Jumpers

Multi-pole jumper bars for DINnector terminal blocks



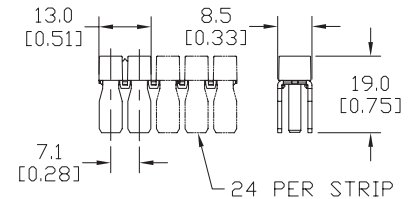
**DN-12JL14B-A**

| Multi-pole Jumper Bars        |     |           |                 |        |     |                    |                  |                                                                                                              |
|-------------------------------|-----|-----------|-----------------|--------|-----|--------------------|------------------|--------------------------------------------------------------------------------------------------------------|
| Part Number                   | Qty | Price     | Number of Poles | Rating |     | Tightening Torque  | Insulation Color | For Use With Terminal Block Series                                                                           |
|                               |     |           |                 | (V)    | (A) |                    |                  |                                                                                                              |
| Screw-down Connection         |     |           |                 |        |     |                    |                  |                                                                                                              |
| <a href="#">DN-2J6</a>        | 100 | \$05cy:   | 2               | 600    | 65  | 0.5 Nm [4.4 Lb-In] | —                | <a href="#">DN-T6</a>                                                                                        |
| <a href="#">DN-3J6</a>        | 100 | \$;005cl: | 3               | 600    | 65  |                    | —                |                                                                                                              |
| <a href="#">DN-4J6</a>        | 100 | \$005d1:  | 4               | 600    | 65  |                    | —                |                                                                                                              |
| <a href="#">DN-55J6</a>       | 1   | \$05d2:   | 55              | 600    | 65  |                    | —                |                                                                                                              |
| <a href="#">DN-24J8</a>       | 5   | \$0ed#:   | 24              | 600    | 50  | 0.6 Nm [5.3 lb-in] | Green            | <a href="#">DN-T8</a>                                                                                        |
| Push-in Connection            |     |           |                 |        |     |                    |                  |                                                                                                              |
| <a href="#">DN-2J2Y</a>       | 100 | \$05cv:   | 2               | 600    | 25  | —                  | Orange           | <a href="#">DN-T12-A</a>                                                                                     |
| <a href="#">DN-2J2YMN</a>     | 25  | \$07uh:   | 2               | 600    | 25  |                    | Orange           | <a href="#">DN-EMX</a>                                                                                       |
| <a href="#">DN-3J2Y</a>       | 100 | \$05c_:   | 3               | 600    | 25  |                    | Orange           | <a href="#">DN-Q12-A</a>                                                                                     |
| <a href="#">DN-3J2YMN</a>     | 25  | \$07uk:   | 3               | 600    | 25  |                    | Orange           | <a href="#">DN-QD12-A</a>                                                                                    |
| <a href="#">DN-24J2Y</a>      | 5   | \$07og:   | 24              | 600    | 25  |                    | Orange           | <a href="#">DN-QEMX</a>                                                                                      |
| <a href="#">DN-2J4Y</a>       | 100 | \$05cx:   | 2               | 600    | 25  |                    | Orange           | <a href="#">DN-QKBD12-A</a>                                                                                  |
| <a href="#">DN-2J4YMN</a>     | 25  | \$-07ui:  | 2               | 600    | 25  |                    | Yellow           | <a href="#">DN-T10-A</a><br><a href="#">DN-D10-A</a><br><a href="#">DN-M10-A</a><br><a href="#">DN-Q10-A</a> |
| <a href="#">DN-3J4Y</a>       | 100 | \$05c#:   | 3               | 600    | 25  |                    | Yellow           |                                                                                                              |
| <a href="#">DN-3J4YMN</a>     | 25  | \$-07ul:  | 3               | 600    | 25  |                    | Yellow           |                                                                                                              |
| <a href="#">DN-24J4Y</a>      | 5   | \$07oh:   | 24              | 600    | 25  |                    | Yellow           |                                                                                                              |
| <a href="#">DN-2JL14-A</a>    | 100 | \$05cz:   | 2               | 300    | 20  |                    | Red              | <a href="#">DN-TL-A</a>                                                                                      |
| <a href="#">DN-2JL14-AMN</a>  | 25  | \$-07uj:  | 2               | 300    | 20  |                    | Red              |                                                                                                              |
| <a href="#">DN-2JL14B-A</a>   | 100 | \$;05cj:  | 2               | 300    | 20  |                    | Blue             |                                                                                                              |
| <a href="#">DN-2JL14B-AMN</a> | 25  | \$;05cj:  | 2               | 300    | 20  |                    | Blue             |                                                                                                              |
| <a href="#">DN-3JL14-A</a>    | 100 | \$005c?:  | 3               | 300    | 20  |                    | Red              |                                                                                                              |
| <a href="#">DN-3JL14-AMN</a>  | 25  | \$07un:   | 3               | 300    | 20  |                    | Red              |                                                                                                              |
| <a href="#">DN-3JL14B-A</a>   | 100 | \$;005c,: | 3               | 300    | 20  |                    | Blue             |                                                                                                              |
| <a href="#">DN-3JL14B-AMN</a> | 25  | \$05d0:   | 3               | 300    | 20  |                    | Blue             |                                                                                                              |
| <a href="#">DN-12JL14-A</a>   | 10  | \$;05ct:  | 12              | 300    | 20  |                    | Red              |                                                                                                              |
| <a href="#">DN-12JL14B-A</a>  | 10  | \$05cu:   | 12              | 300    | 20  |                    | Blue             | <a href="#">DN-FE4</a>                                                                                       |
| <a href="#">DN-12JFE</a>      | 10  | \$;-07l,: | 12              | 300    | 25  |                    | Blue             |                                                                                                              |
| <a href="#">DN-2J6Y</a>       | 100 | \$-07oi:  | 2               | 600    | 30  |                    | Green            | <a href="#">DN-Q8-A</a>                                                                                      |
| <a href="#">DN-2J6YMN</a>     | 25  | \$-07oj:  | 2               | 600    | 30  |                    | Green            |                                                                                                              |
| <a href="#">DN-3J6Y</a>       | 100 | \$07ok:   | 3               | 600    | 30  |                    | Green            | <a href="#">DN-Q8-A</a>                                                                                      |
| <a href="#">DN-3J6YMN</a>     | 25  | \$05d3:   | 3               | 600    | 30  |                    | Green            |                                                                                                              |
| <a href="#">DN-12J6Y</a>      | 10  | \$;07of:  | 12              | 600    | 30  |                    | Green            | <a href="#">DN-Q8-A</a>                                                                                      |

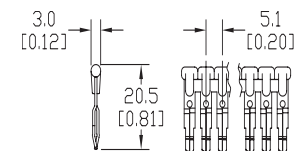
## Dimensions

mm [inches]

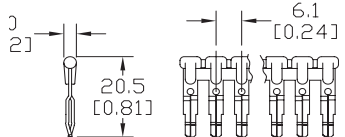
### DN-24J8



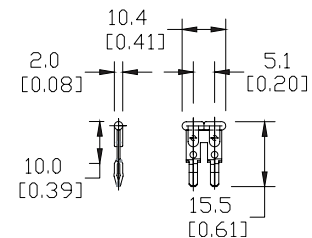
### DN-xJ2Y / DN-xJ2YMN



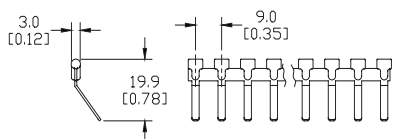
### DN-xJ4Y / DN-xJ4YMN



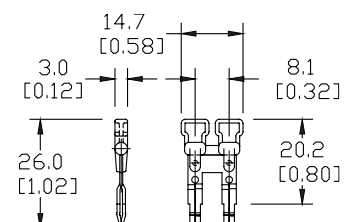
### DN-xJL14 / DN-xJL14x-AMN, DN-xJ14x-A



### DN-12JFE



### DN-xJ6Y / DN-xJ6YMN



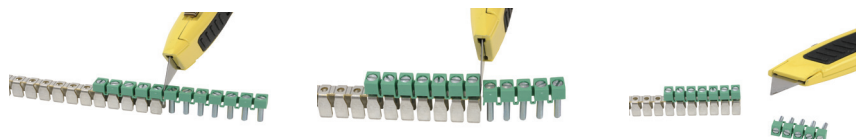
# DINnectors® Accessories

## Modifying a DN-24J8 jumper bar to the required number of poles

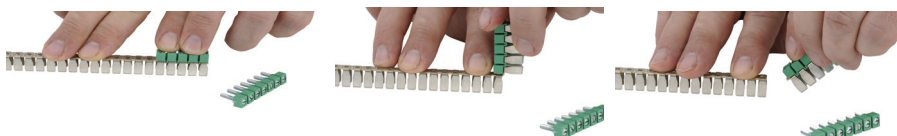
1) Place the insulating part into the jumper bar and insert screws, based on number of poles required.  
(For instance, in the following example, 5 poles are required). Click into place.



2) Using a cutting tool, cut the insulating part at the edge of the jumper bar (see below).



3) Hold the metal jumper bar and insulating jumper with two hands, placing fingers to the left and right of the pole you wish to cut, repeatedly flexing up and down (1 or 2 times should be sufficient) until the jumper bar and insulating jumper break in two.



4) Remove the small remaining piece of jumper (see below). This is important to ensure appropriate insulation distance in the case of contiguously applied jumpers in sequence. This step also facilitates the placement of a separator terminal if the bridge is positioned as the last terminal of a group.



5) The jumpers now are ready to be screwed onto DN-T8 series terminal blocks.



## Jumper Cutting Tools

Jumper cutting tools maintain protective covering.

| Jumper Cutting Tools              |                                                                                                                                                                                                      |     |           |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| Part Number                       | Description                                                                                                                                                                                          | Qty | Price     |
| <a href="#"><u>DN-J2CUT</u></a>   | DINnector jumper cutting tool, for use with DN-2J2Y, DN-3J2Y and DN-24J2Y jumpers.                                                                                                                   | 1   | \$;04,k:  |
| <a href="#"><u>DN-J4CUT</u></a>   | DINnector jumper cutting tool, for use with DN-2J4Y, DN-3J4Y and DN-24J4Y jumpers.                                                                                                                   | 1   | \$;04,n:  |
| <a href="#"><u>DN-J6CUT</u></a>   | DINnector jumper cutting tool, for use with DN-12J6Y jumpers.                                                                                                                                        | 1   | \$;004,p: |
| <a href="#"><u>DN-JL14CUT</u></a> | DINnector jumper cutting tool, for use with DN-12JL 14-A and DN-12JL 14B-A jumpers.                                                                                                                  | 1   | \$007uo:  |
| <a href="#"><u>DN-JXCUT</u></a>   | DINnector jumper cutting tool, for use with DN-J2DIE, DN-J4DIE, DN-J6DIE, DN-JL14DIE and DN-JFEDIE dies.                                                                                             | 1   | \$;04,s:  |
| <a href="#"><u>DN-JFECUT</u></a>  | DINnector jumper cutting tool, for use with DN-12JFE jumpers.                                                                                                                                        | 1   | \$;004,h: |
| <a href="#"><u>DN-JKIT</u></a>    | DINnector cutting tool kit for DN series jumpers. Includes (1) DN-JXCUT cutting tool, (5) dies (DN-J2DIE, DN-J4DIE, DN-J6DIE, DN-JL14DIE, and DN-JFEDIE).                                            | 1   | \$00ebx:  |
| <a href="#"><u>DN-TOOL2</u></a>   | DINnector tool kit, for use with DN series terminal blocks, includes (1) spring opening tool for DN-Q series screwless terminal blocks and (1) jumper removal tool for J2, J4, J6, and JL14 jumpers. | 1   | \$0eby:   |



**DN-J2CUT**



**DN-J4CUT**



**DN-JKIT**



**DN-TOOL2**

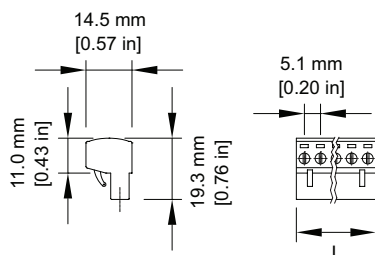
| Replacement Dies                  |                                                                                                         |            |
|-----------------------------------|---------------------------------------------------------------------------------------------------------|------------|
| Part Number                       | Description                                                                                             | Price      |
| <a href="#"><u>DN-J2DIE</u></a>   | DINnector die set, replacement. Package of 2. For use with jumper cutting tools DN-J2CUT or DN-JXCUT.   | \$;-004,l: |
| <a href="#"><u>DN-J4DIE</u></a>   | DINnector die set, replacement. Package of 2. For use with jumper cutting tools DN-J4CUT or DN-JXCUT.   | \$;004,o:  |
| <a href="#"><u>DN-JFEDIE</u></a>  | DINnector die set, replacement. Package of 2. For use with jumper cutting tools DN-JFECUT or DN-JXCUT.  | \$;-004,i: |
| <a href="#"><u>DN-J6DIE</u></a>   | DINnector die set, replacement. Package of 2. For use with jumper cutting tools DN-J6CUT or DN-JXCUT.   | \$;004,q:  |
| <a href="#"><u>DN-JL14DIE</u></a> | DINnector die set, replacement. Package of 2. For use with jumper cutting tools DN-JL14CUT or DN-JXCUT. | \$;-004,j: |

# DINnectors® Accessories

## Terminal Plugs



**DN-xxPLUG / DN-xxPLUGMN**



| Accessories – Terminal Plugs |     |                                                                                                                           |                             |     |         |                 |                |
|------------------------------|-----|---------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----|---------|-----------------|----------------|
| Plugs* Part Number           | Qty | Price                                                                                                                     | Plugs* Part Number          | Qty | Price   | Number of Poles | Length mm [in] |
| <a href="#">DN-2PLUG</a>     | 200 | \$006a9:                                                                                                                  | <a href="#">DN-2PLUGMN</a>  | 10  | \$7n3:  | 2               | 10.2 [0.40]    |
| <a href="#">DN-3PLUG</a>     | 200 | \$006aa:                                                                                                                  | <a href="#">DN-3PLUGMN</a>  | 10  | \$07n4: | 3               | 15.2 [0.60]    |
| <a href="#">DN-4PLUG</a>     | 100 | \$006ab:                                                                                                                  | <a href="#">DN-4PLUGMN</a>  | 10  | \$07n5: | 4               | 20.3 [0.80]    |
| <a href="#">DN-5PLUG</a>     | 100 | \$006ac:                                                                                                                  | <a href="#">DN-5PLUGMN</a>  | 10  | \$07n6: | 5               | 25.4 [1.00]    |
| <a href="#">DN-6PLUG</a>     | 100 | \$006ad:                                                                                                                  | <a href="#">DN-6PLUGMN</a>  | 10  | \$07n7: | 6               | 30.5 [1.20]    |
| <a href="#">DN-7PLUG</a>     | 50  | \$006ae:                                                                                                                  | <a href="#">DN-7PLUGMN</a>  | 5   | \$07n8: | 7               | 35.6 [1.40]    |
| <a href="#">DN-8PLUG</a>     | 50  | \$006af:                                                                                                                  | <a href="#">DN-8PLUGMN</a>  | 5   | \$07n9: | 8               | 40.6 [1.60]    |
| <a href="#">DN-9PLUG</a>     | 50  | \$006ag:                                                                                                                  | <a href="#">DN-9PLUGMN</a>  | 5   | \$07na: | 9               | 45.7 [1.80]    |
| <a href="#">DN-10PLUG</a>    | 50  | \$00675:                                                                                                                  | <a href="#">DN-10PLUGMN</a> | 5   | \$07n0: | 10              | 50.8 [2.00]    |
| <a href="#">DN-11PLUG</a>    | 50  | \$00676:                                                                                                                  | <a href="#">DN-11PLUGMN</a> | 5   | \$07n1: | 11              | 55.9 [2.20]    |
| <a href="#">DN-12PLUG</a>    | 50  | \$00677:                                                                                                                  | <a href="#">DN-12PLUGMN</a> | 5   | \$07n2: | 12              | 61.0 [2.40]    |
| Terminal Plugs Ratings       |     |                                                                                                                           |                             |     |         |                 |                |
| <b>Voltage/Current</b>       |     | 300V, 12A                                                                                                                 |                             |     |         |                 |                |
| <b>Wire Gauge</b>            |     | 14–22 AWG, CU only                                                                                                        |                             |     |         |                 |                |
| <b>Torque</b>                |     | Tightening Torque: 0.51 N·m [4.5 lb-in]                                                                                   |                             |     |         |                 |                |
| <b>Usage Temperature</b>     |     | Ambient air temperature: -20 to 105°C [-4 to 221°F]<br>Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F] |                             |     |         |                 |                |
| <b>Agency Approvals</b>      |     | UL file #: E179129                                                                                                        |                             |     |         |                 |                |

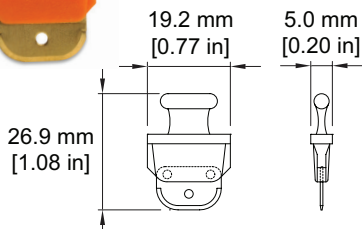
Note: To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

\* DN-xxPLUGs fit all DN-EMXxx & DN-QEMXxx plug-in terminal blocks

## Disconnect Blade



**DN-DIS-BLADE  
DN-DIS-BMN**

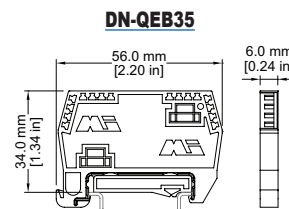
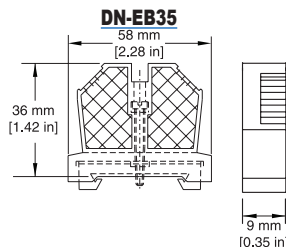
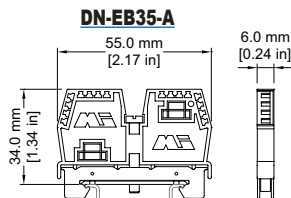
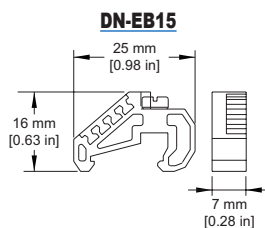


| Disconnect Blade             |                                                                         |     |         |
|------------------------------|-------------------------------------------------------------------------|-----|---------|
| Part Number                  | Description                                                             | Qty | Price   |
| <a href="#">DN-DIS-BLADE</a> | Terminal block disconnect blade for DN-FE2, DN-FE4, DN-DIS2 and DN-DIS4 | 50  | \$07z9: |
| <a href="#">DN-DIS-BMN</a>   |                                                                         | 10  | \$05cs: |

## End Brackets



| End Brackets                 |                                                                                        |          |
|------------------------------|----------------------------------------------------------------------------------------|----------|
| Part Number                  | Description                                                                            | Price    |
| <a href="#">DN-EB15</a>      | DINnecter snap-on end bracket, 7mm wide. Package of 100. For use with 15mm DIN rail.   | \$007ze: |
| <a href="#">DN-EB15MN</a>    | DINnecter snap-on end bracket, 7mm wide. Package of 20. For use with 15mm DIN rail.    | \$07zf:  |
| <a href="#">DN-EB35</a>      | DINnecter screw-down end bracket, 9mm wide. Package of 50. For use with 35mm DIN rail. | \$07zg:  |
| <a href="#">DN-EB35MN</a>    | DINnecter screw-down end bracket, 9mm wide. Package of 20. For use with 35mm DIN rail. | \$07zj:  |
| <a href="#">DN-EB35-A</a>    | DINnecter screw-down end bracket, 6mm wide. Package of 50. For use with 35mm DIN rail. | \$07zh:  |
| <a href="#">DN-EB35-A-10</a> | DINnecter screw-down end bracket, 6mm wide. Package of 10. For use with 35mm DIN rail. | \$07zi:  |
| <a href="#">DN-QEB35</a>     | DINnecter snap-on end bracket, 6mm wide. Package of 50. For use with 35mm DIN rail.    | \$07zk:  |
| <a href="#">DN-QEB35-10</a>  | DINnecter snap-on end bracket, 6mm wide. Package of 10. For use with 35mm DIN rail.    | \$07zl:  |



For more information on accessories, see the "DINnectors Accessories" section of this section.



 **DINnectors** Accessories

## End Covers

Certain end covers can be used with multiple terminal block parts to cover and insulate the open side, or to put more space between adjacent blocks.

| DINnectors End Covers               |                                                                                                                   |           |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------|
| Part Number                         | Description                                                                                                       | Price     |
| <a href="#"><u>DN-EC1210</u></a>    | DINnector terminal block end cover, gray. Package of 100. For use with DN-T12 or DN-T10 series terminal blocks.   | \$;0et2:  |
| <a href="#"><u>DN-EC1210MN</u></a>  | DINnector terminal block end cover, gray. Package of 25. For use with DN-T12 or DN-T10 series terminal blocks.    | \$;0et3:  |
| <a href="#"><u>DN-EC86</u></a>      | DINnector terminal block end cover, gray. Package of 100. For use with DN-T8 or DN-T6 series terminal blocks.     | \$;0et7:  |
| <a href="#"><u>DN-EC86MN</u></a>    | DINnector terminal block end cover, gray. Package of 25. For use with DN-T8 or DN-T6 series terminal blocks.      | \$;0et8:  |
| <a href="#"><u>DN-EC4</u></a>       | DINnector terminal block end cover, gray. Package of 50. For use with DN-T4 series terminal blocks.               | \$;0et6:  |
| <a href="#"><u>DN-EC4MN</u></a>     | DINnector terminal block end cover, gray. Package of 10. For use with DN-T4 series terminal blocks.               | \$7zp:    |
| <a href="#"><u>DN-EC1/0</u></a>     | DINnector terminal block end cover, gray. Package of 50. For use with DN-T1/0 series terminal blocks.             | \$;0et1:  |
| <a href="#"><u>DN-EC1/0MN</u></a>   | DINnector terminal block end cover, gray. Package of 10. For use with DN-T1/0 series terminal blocks.             | \$7zo:    |
| <a href="#"><u>DN-DEC10</u></a>     | DINnector terminal block end cover, gray. Package of 50. For use with DN-D10-A series terminal blocks.            | \$;0et0:  |
| <a href="#"><u>DN-DEC10MN</u></a>   | DINnector terminal block end cover, gray. Package of 10. For use with DN-D10-A series terminal blocks.            | \$7zn:    |
| <a href="#"><u>DN-EC14</u></a>      | DINnector terminal block end cover, gray. Package of 25. For use with DN-TL14 series terminal blocks.             | \$;0et4:  |
| <a href="#"><u>DN-EC14S</u></a>     | DINnector terminal block end cover, gray. Package of 25. For use with DN-TL14S series terminal blocks.            | \$;0et5:  |
| <a href="#"><u>DN-ECM10</u></a>     | DINnector terminal block end cover, gray. Package of 100. For use with DN-M10-A series terminal blocks.           | \$;0eta:  |
| <a href="#"><u>DN-ECM10MN</u></a>   | DINnector terminal block end cover, gray. Package of 25. For use with DN-M10-A series terminal blocks.            | \$;0etb:  |
| <a href="#"><u>DN-ECKBD</u></a>     | DINnector terminal block end cover, gray. Package of 100. For use with DN-KBD12 series terminal blocks.           | \$;0et9:  |
| <a href="#"><u>DN-ECKBDMN</u></a>   | DINnector terminal block end cover, gray. Package of 10. For use with DN-KBD12 series terminal blocks.            | \$7zq:    |
| <a href="#"><u>DN-EMXM1EC1</u></a>  | DINnector terminal block end cover, gray. Package of 25. For use with DN-EMXM1 series terminal block leftside.    | \$;0ete:  |
| <a href="#"><u>DN-EMXM1EC2</u></a>  | DINnector terminal block end cover, gray. Package of 25. For use with DN-EMXM1 series terminal block rightside.   | \$;;0etf: |
| <a href="#"><u>DN-EMXDVEC1</u></a>  | DINnector terminal block end cover, gray. Package of 25. For use with DN-EMXDV series terminal block leftside.    | \$;0etc:  |
| <a href="#"><u>DN-EMXDVEC2</u></a>  | DINnector terminal block end cover, gray. Package of 25. For use with DN-EMXDV series terminal block rightside.   | \$;0etd:  |
| <a href="#"><u>DN-FESEP</u></a>     | DINnector terminal block end cover, gray. Package of 50. For use with DN-FE and DN-DIS series terminal blocks.    | \$07us:   |
| <a href="#"><u>DN-FESEP-10</u></a>  | DINnector terminal block end cover, gray. Package of 10. For use with DN-FE and DN-DIS series terminal blocks.    | \$;7ut:   |
| <a href="#"><u>DN-QEC12</u></a>     | DINnector terminal block end cover, gray. Package of 50. For use with DN-Q12-A or DN-QG12 series terminal blocks. | \$07o4:   |
| <a href="#"><u>DN-QEC12MN</u></a>   | DINnector terminal block end cover, gray. Package of 10. For use with DN-Q12-A or DN-QG12 series terminal blocks. | \$;etg:   |
| <a href="#"><u>DN-QEC10</u></a>     | DINnector terminal block end cover, gray. Package of 50. For use with DN-Q10-A or DN-QG10 series terminal blocks. | \$07o2:   |
| <a href="#"><u>DN-QEC10MN</u></a>   | DINnector terminal block end cover, gray. Package of 10. For use with DN-Q10-A or DN-QG10 series terminal blocks. | \$7o3:    |
| <a href="#"><u>DN-QEC8</u></a>      | DINnector terminal block end cover, gray. Package of 50. For use with DN-Q8-A or DN-QG8 series terminal blocks.   | \$07o6:   |
| <a href="#"><u>DN-QEC8MN</u></a>    | DINnector terminal block end cover, gray. Package of 10. For use with DN-Q8-A or DN-QG8 series terminal blocks.   | \$7o7:    |
| <a href="#"><u>DN-QEC12-1-2</u></a> | DINnector terminal block end cover, gray. Package of 25. For use with DN-Q12-1-2-A series terminal blocks.        | \$07nx:   |
| <a href="#"><u>DN-QEC12-2-2</u></a> | DINnector terminal block end cover, gray. Package of 25. For use with DN-Q12-2-2-A series terminal blocks.        | \$07o5:   |
| <a href="#"><u>DN-QDEC12</u></a>    | DINnector terminal block end cover, gray. Package of 25. For use with DN-QD12 series terminal blocks.             | \$07o1:   |

## Spacers

Spacers are used to put more space between adjacent blocks.

| DINnectors Spacers                  |                                                                        |     |         |
|-------------------------------------|------------------------------------------------------------------------|-----|---------|
| Part Number                         | Description                                                            | Qty | Price   |
| <a href="#"><u>DN-S1210</u></a>     | Spacer for DN-T12-A and DN-T10-A series terminal blocks                | 100 | \$07uu: |
| <a href="#"><u>DN-S1210MN</u></a>   |                                                                        | 25  | \$07uv: |
| <a href="#"><u>DN-S86</u></a>       | Spacer for DN-T8 and DN-T6 series terminal blocks                      | 100 | \$07ux: |
| <a href="#"><u>DN-S86MN</u></a>     |                                                                        | 25  | \$05sc: |
| <a href="#"><u>DN-EMXM1SPA1</u></a> | Spacer for DN-EMXM1 and DN-QEMXM1 single-level plug-in terminal blocks | 25  | \$07uq: |
| <a href="#"><u>DN-EMXDVSPA1</u></a> | Spacer for DN-EMXDV and DN-QEMXDV double-level plug-in terminal blocks | 25  | \$07up: |
| <a href="#"><u>DN-FESPA</u></a>     | Spacer for DN-FE sockets and DN-DIS disconnects                        | 50  | \$05sa: |
| <a href="#"><u>DN-FESPA-10</u></a>  |                                                                        | 10  | \$5sb:  |

## Top Covers

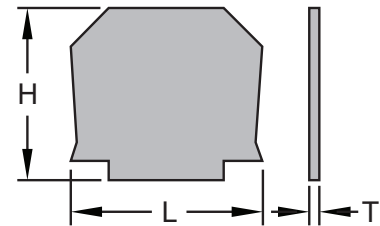
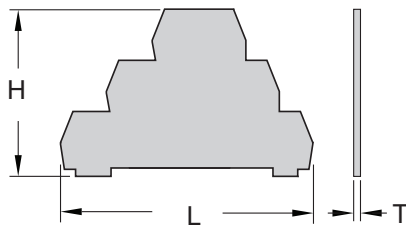
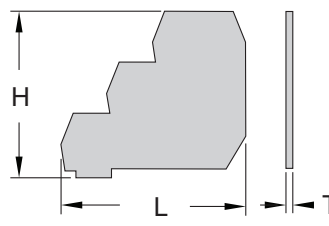
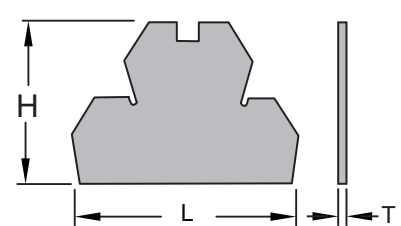
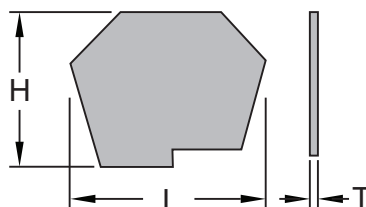
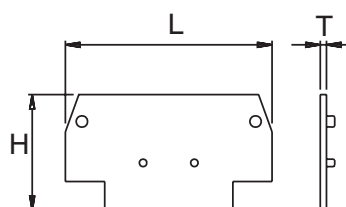
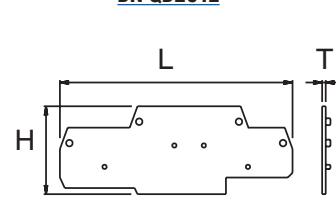
| DINnectors Top Covers            |                                              |                                                              |     |          |
|----------------------------------|----------------------------------------------|--------------------------------------------------------------|-----|----------|
| Part Number                      | Description                                  | For Use With                                                 | Qty | Price    |
| <a href="#"><u>DN-C12</u></a>    | Top cover, clear, printed electrical symbol. | <a href="#"><u>DN-T12-A</u></a>                              | 100 | \$;07u]: |
| <a href="#"><u>DN-C12MN</u></a>  |                                              |                                                              | 25  | \$;07u[: |
| <a href="#"><u>DN-C10</u></a>    | Top cover, clear, printed electrical symbol. | <a href="#"><u>DN-T10-A</u></a>                              | 100 | \$07uy:  |
| <a href="#"><u>DN-C10MN</u></a>  |                                              |                                                              | 25  | \$07uz:  |
| <a href="#"><u>DN-C86</u></a>    | Top cover, clear, printed electrical symbol. | <a href="#"><u>DN-T8</u></a><br><a href="#"><u>DN-T6</u></a> | 100 | \$07u_:  |
| <a href="#"><u>DN-C86MN</u></a>  |                                              |                                                              | 25  | \$07u#:  |
| <a href="#"><u>DN-DC10</u></a>   | Top cover, clear, printed electrical symbol. | DN-D10                                                       | 100 | \$07xy:  |
| <a href="#"><u>DN-DC10MN</u></a> |                                              |                                                              | 25  | \$07xz:  |
| <a href="#"><u>DN-MC10</u></a>   | Top cover, clear, printed electrical symbol. | DN-M10                                                       | 100 | \$;07x[: |
| <a href="#"><u>DN-MC10MN</u></a> |                                              |                                                              | 25  | \$07x_:  |

 **DINnectors** Accessories

**DINnector End Covers and Spacers Dimensions**

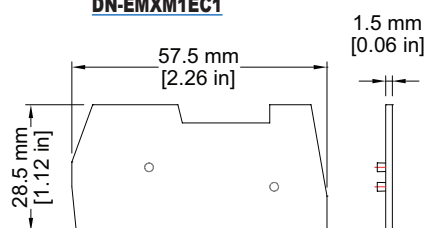
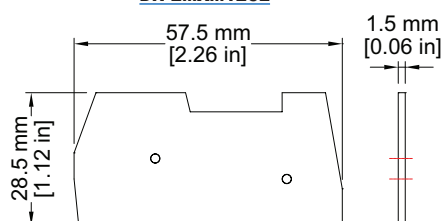
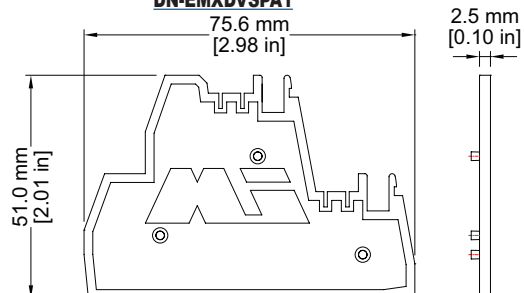
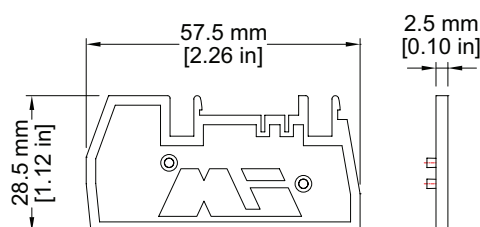
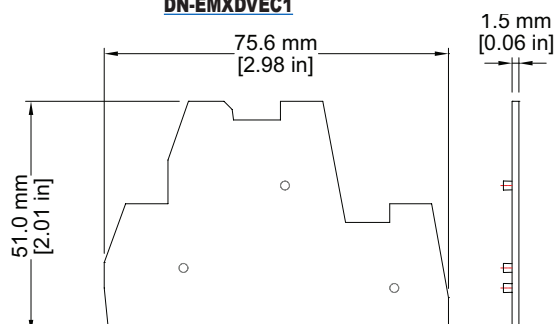
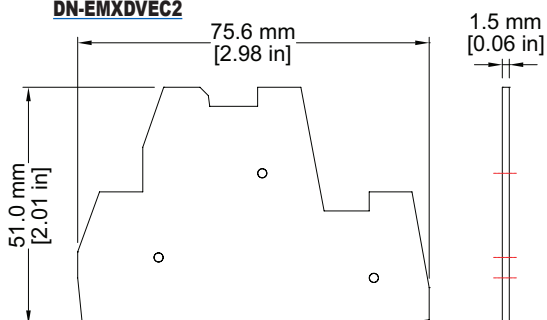
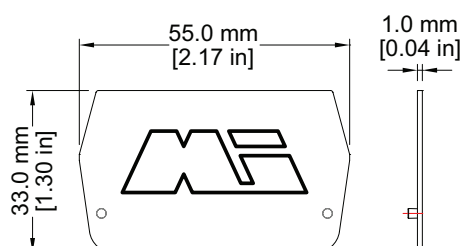
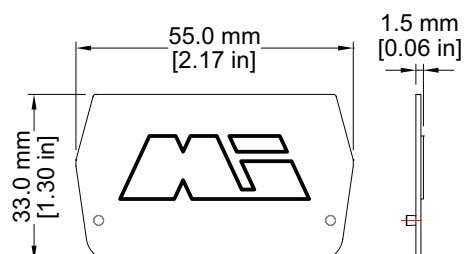
| Part Number                         |                                     | Length<br>mm[in]      | Height<br>mm [in] | Thickness<br>mm [in] |
|-------------------------------------|-------------------------------------|-----------------------|-------------------|----------------------|
| <a href="#"><u>DN-EC1210</u></a>    | <a href="#"><u>DN-EC1210MN</u></a>  | 44 [1.73]             | 35 [1.38]         | 1.5 [0.06]           |
| <a href="#"><u>DN-S1210</u></a>     | <a href="#"><u>DN-S1210MN</u></a>   | 55 [2.17]             | 44 [1.73]         |                      |
| <a href="#"><u>DN-EC86</u></a>      | <a href="#"><u>DN-EC86MN</u></a>    | 50 [1.97]             | 43 [1.69]         |                      |
| <a href="#"><u>DN-S86</u></a>       | <a href="#"><u>DN-S86MN</u></a>     | 55 [2.17]             | 49 [1.93]         |                      |
| <a href="#"><u>DN-EC4</u></a>       | <a href="#"><u>DN-EC4MN</u></a>     | 56 [2.21]             | 48 [1.89]         |                      |
| <a href="#"><u>DN-EC1/0</u></a>     | <a href="#"><u>DN-EC1/0MN</u></a>   | 62 [2.44]             | 60 [2.36]         |                      |
| <a href="#"><u>DN-DEC10</u></a>     | <a href="#"><u>DN-DEC10MN</u></a>   | 72 [2.80]             | 49 [1.93]         |                      |
| <a href="#"><u>DN-EC14</u></a>      | —                                   | 78 [3.08]             | 55 [2.17]         |                      |
| <a href="#"><u>DN-EC14S</u></a>     | —                                   | 55 [2.17]             | 50 [1.97]         |                      |
| <a href="#"><u>DN-ECM10</u></a>     | <a href="#"><u>DN-ECM10MN</u></a>   | 32 [1.26]             | 27 [1.06]         |                      |
| <a href="#"><u>DN-ECKBD</u></a>     | <a href="#"><u>DN-ECKBDMN</u></a>   | 52 [2.05]             | 34.5 [1.36]       |                      |
| <a href="#"><u>DN-EMXM1EC1</u></a>  | <a href="#"><u>DN-EMXM1EC2</u></a>  | as shown on next page |                   |                      |
| <a href="#"><u>DN-EMXDVEC1</u></a>  | <a href="#"><u>DN-EMXDVEC2</u></a>  |                       |                   |                      |
| <a href="#"><u>DN-EMXDVSPA1</u></a> | <a href="#"><u>DN-EMXM1SPA1</u></a> |                       |                   |                      |
| <a href="#"><u>DN-FESPA</u></a>     | <a href="#"><u>DN-FESPA-10</u></a>  |                       |                   |                      |
| <a href="#"><u>DN-FESEP</u></a>     | <a href="#"><u>DN-FESEP-10</u></a>  |                       |                   |                      |
| <a href="#"><u>DN-QEC12</u></a>     | <a href="#"><u>DN-QEC12MN</u></a>   | 50 [1.97]             | 23 [0.9]          | 1.5 [0.06]           |
| <a href="#"><u>DN-QEC10</u></a>     | <a href="#"><u>DN-QEC10MN</u></a>   | 57.4 [2.26]           | 33.6 [1.32]       |                      |
| <a href="#"><u>DN-QEC8</u></a>      | <a href="#"><u>DN-QEC8MN</u></a>    | 63 [2.48]             | 38.5 [1.52]       |                      |
| <a href="#"><u>DN-QEC12-1-2</u></a> | —                                   | 68.5 [2.70]           | 28.5 [1.12]       |                      |
| <a href="#"><u>DN-QEC12-2-2</u></a> | —                                   | 87.5 [3.44]           | 28.5 [1.12]       |                      |
| <a href="#"><u>DN-QDEC12</u></a>    | —                                   | 98 [3.86]             | 37 [1.46]         |                      |

**DN-EC1210 (MN), DN-EC86 (MN), DN-EC4 (MN),  
DN-EC1/0 (MN), DN-ECKBD (MN), DN-S1210 (MN),  
DN-S86 (MN)**

**DN-EC14****DN-EC14S****DN-DEC10 / DN-DEC10MN****DN-ECM10  
DN-ECM10MN****DN-QEC12 (MN), DN-QEC10 (MN)  
DN-QEC8 (MN),  
DN-QEC12-1-2, DN-QEC12-2-2****DN-QDEC12**

# **DINnectors** Accessories

## Dimensional Drawings

**DN-EMXM1EC1****DN-EMXM1EC2****DN-EMXDVSPA1****DN-EMXM1SPA1****DN-EMXDVEC1****DN-EMXDVEC2****DN-FESEP,  
DN-FESEP-10****DN-FESPA, DN-FESPA-10**

 **DINnectors® Accessories**
**Marking Tags Cross Reference Charts - Screw-type**

| <b>DINnector Marking Tags Cross Reference - Screw-type</b> |             |              |              |               |                 |
|------------------------------------------------------------|-------------|--------------|--------------|---------------|-----------------|
| <i>Block Type</i>                                          | <i>DN-L</i> | <i>DN-LA</i> | <i>DN-LT</i> | <i>DN-LAT</i> | <i>DN-EMLBL</i> |
| <b>DN-T12</b>                                              | –           | X            | X            | –             | –               |
| <b>DN-T10</b>                                              | X           | –            | X            | –             | –               |
| <b>DN-T8</b>                                               | X           | –            | X            | –             | –               |
| <b>DN-T6</b>                                               | X           | –            | X            | –             | –               |
| <b>DN-T4</b>                                               | X           | –            | X            | –             | –               |
| <b>DN-T1/0</b>                                             | X           | –            | X            | –             | –               |
| <b><u>DN-T3/0</u></b>                                      | X           | –            | X            | –             | –               |
| <b>DN-D10</b>                                              | X           | –            | X            | –             | –               |
| <b>DN-D10X</b>                                             | X           | –            | X            | –             | –               |
| <b>DN-D10LED</b>                                           | X           | –            | X            | –             | –               |
| <b>DN-D10DR</b>                                            | X           | –            | X            | –             | –               |
| <b>DN-TL14</b>                                             | –           | –            | –            | X             | –               |
| <b>DN-THERM</b>                                            | X           | –            | X            | –             | –               |
| <b>DN-EMXM1</b>                                            | –           | X            | X            | –             | X               |
| <b>DN-EMXDV</b>                                            | –           | X            | X            | –             | X               |
| <b>DN-M10</b>                                              | –           | –            | X            | –             | –               |
| <b><u>DN-MG10</u></b>                                      | –           | –            | X            | –             | –               |
| <b>DN-G10</b>                                              | X           | –            | X            | –             | –               |
| <b>DN-G8</b>                                               | X           | –            | X            | –             | –               |
| <b>DN-G6</b>                                               | X           | –            | X            | –             | –               |
| <b>DN-G4</b>                                               | X           | –            | X            | –             | –               |
| <b>DN-G1/0</b>                                             | X           | –            | X            | –             | –               |
| <b>DN-F6</b>                                               | X           | –            | X            | –             | –               |
| <b>DN-F10</b>                                              | X           | –            | X            | –             | –               |
| <b>DN-DIS2</b>                                             | –           | X            | X            | –             | –               |
| <b>DN-DIS4</b>                                             | X           | –            | X            | –             | –               |
| <b>DN-FE2</b>                                              | –           | X            | X            | –             | –               |
| <b>DN-FE4</b>                                              | X           | –            | X            | –             | –               |
| <b>DN-DIS10</b>                                            | X           | –            | X            | –             | –               |
| <b>DN-KBD12</b>                                            | –           | X            | X            | –             | –               |

Continued on next page

 **DINnectors® Accessories**

## Marking Tags Cross Reference Charts - Screwless

| <b>DINector Marking Tags Cross Reference - Screwless</b> |              |              |              |                 |
|----------------------------------------------------------|--------------|--------------|--------------|-----------------|
| <i>Block Type</i>                                        | <i>DN-QL</i> | <i>DN-LA</i> | <i>DN-LT</i> | <i>DN-EMLBL</i> |
| <b><i>DN-Q12</i></b>                                     | X            | –            | –            | –               |
| <b><i>DN-Q10</i></b>                                     | X            | –            | –            | –               |
| <b><i>DN-Q8</i></b>                                      | X            | –            | –            | –               |
| <b><i>DN-QD12</i></b>                                    | X            | –            | –            | –               |
| <b><i>DN-Q12-1-2</i></b>                                 | X            | –            | –            | –               |
| <b><i>DN-Q12-1-2L</i></b>                                | X            | –            | –            | –               |
| <b><i>DN-Q12-1-2D</i></b>                                | X            | –            | –            | –               |
| <b><i>DN-QKBD</i></b>                                    | X            | –            | –            | –               |
| <b><i>DN-Q12-2-2</i></b>                                 | X            | –            | –            | –               |
| <b><i>DN-Q12-2-2L</i></b>                                | X            | –            | –            | –               |
| <b><i>DN-Q12-2-2D</i></b>                                | X            | –            | –            | –               |
| <b><i>DN-QEMXM1</i></b>                                  | –            | X            | X            | X               |
| <b><i>DN-QEMXDV</i></b>                                  | –            | X            | X            | X               |
| <b><i>DN-QG12</i></b>                                    | X            | –            | –            | –               |
| <b><i>DN-QG10</i></b>                                    | X            | –            | –            | –               |
| <b><i>DN-QG8</i></b>                                     | X            | –            | –            | –               |
| <b><i>DN-QG12-1-2</i></b>                                | X            | –            | –            | –               |
| <b><i>DN-QG12-2-2</i></b>                                | X            | –            | –            | –               |



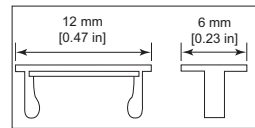
# DINnectors® Accessories

## Marking Tags

### Marking Tags DN-L Series

| Part Number             | Marking Sequence                      | Qty | Price    |
|-------------------------|---------------------------------------|-----|----------|
| <a href="#">DN-L50</a>  | 1-50                                  | 500 | \$07vp:  |
| <a href="#">DN-L100</a> | 51-100                                | 500 | \$07vg:  |
| <a href="#">DN-L150</a> | 101-150                               | 500 | \$07vh:  |
| <a href="#">DN-L200</a> | 151-200                               | 500 | \$-07vi: |
| <a href="#">DN-L250</a> | 201-250                               | 500 | \$-07vj: |
| <a href="#">DN-L300</a> | 251-300                               | 500 | \$07vk:  |
| <a href="#">DN-L350</a> | 301-350                               | 500 | \$-07vl: |
| <a href="#">DN-L400</a> | 351-400                               | 500 | \$07vn:  |
| <a href="#">DN-L450</a> | 401-450                               | 500 | \$07vo:  |
| <a href="#">DN-LB</a>   | Blank                                 | 500 | \$07vq:  |
| <a href="#">DN-LS</a>   | L1, L2, L3, L, N, GND, +, -, COM,COM* | 500 | \$07vs:  |

#### Dimensions

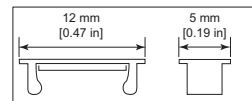


- The marking sequence of 50 tags (i.e. 101-150) is printed 10 times in each package of 500.
- The DN-L tags fit all DINnectors 6mm wide and wider.
- There will be a gap between tags on blocks wider than 6mm.
- Material: Thermoplastic with heat embossed black print.

### Marking Tags DN-LA Series

| Part Number              | Marking Sequence                      | Qty | Price     |
|--------------------------|---------------------------------------|-----|-----------|
| <a href="#">DN-LA100</a> | 1-100                                 | 500 | \$;07u!:  |
| <a href="#">DN-LA200</a> | 101-200                               | 500 | \$07u?:   |
| <a href="#">DN-LA300</a> | 201-300                               | 500 | \$;07u,:: |
| <a href="#">DN-LA400</a> | 301-400                               | 500 | \$07v0:   |
| <a href="#">DN-LAB</a>   | Blank Tags                            | 500 | \$07v1:   |
| <a href="#">DN-LAS</a>   | L1, L2, L3, L, N, GND, +, -, COM,COM* | 500 | \$07v2:   |

#### Dimensions

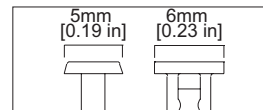


- The marking sequence of 100 tags (i.e. 1-100) is printed five times in each package of 500.
- The DN-LA tags fit all DINnectors 5mm wide and wider. There will be a gap between tags on blocks wider than 5mm.
- Material: Thermoplastic with heat embossed black print.

### Marking Tags DN-LAT Series

| Part Number                 | Marking Sequence                 | Qty | Price    |
|-----------------------------|----------------------------------|-----|----------|
| <a href="#">DN-LAT100-A</a> | 1-100                            | 500 | \$07v4:  |
| <a href="#">DN-LAT200-A</a> | 101-200                          | 500 | \$07v6:  |
| <a href="#">DN-LAT300-A</a> | 201-300                          | 500 | \$07v8:  |
| <a href="#">DN-LAT400-A</a> | 301-400                          | 500 | \$07va:  |
| <a href="#">DN-LAT500-A</a> | 401-500                          | 500 | \$07vb:  |
| <a href="#">DN-LAT600-A</a> | 501-600                          | 500 | \$07vc:  |
| <a href="#">DN-LATB-A</a>   | Blank Tags                       | 500 | \$07vd:  |
| <a href="#">DN-LATS-A</a>   | L1, L2, L3, L, N, +, -, COM,COM* | 500 | \$;07vf: |

#### Dimensions

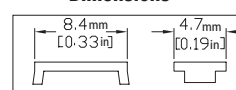


- The marking sequence of 500 tags (i.e. 1-100) is printed five times in each package of 500.
- Material: Thermoplastic with heat embossed black print.

### Marking Tags DN-QL Series

| Part Number              | Marking Sequence                 | Qty | Price    |
|--------------------------|----------------------------------|-----|----------|
| <a href="#">DN-QL100</a> | 1-100                            | 500 | \$059o:  |
| <a href="#">DN-QL200</a> | 101-200                          | 500 | \$059p:  |
| <a href="#">DN-QL300</a> | 201-300                          | 500 | \$059q:  |
| <a href="#">DN-QL400</a> | 301-400                          | 500 | \$059s:  |
| <a href="#">DN-QL500</a> | 401-500                          | 500 | \$;059t: |
| <a href="#">DN-QLB</a>   | Blank Tags                       | 500 | \$059u:  |
| <a href="#">DN-QLS</a>   | L1, L2, L3, L, N, +, -, COM,COM* | 500 | \$059v:  |

#### Dimensions

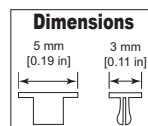


- The marking sequence of 500 (i.e. 1-100) is printed five times in each package of 500.
- Material: Thermoplastic with heat embossed black print.

# DINnectors® Accessories

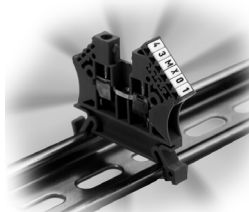
## Marking Tags continued

| Marking Tags DN-LT Series |                  |     |         |
|---------------------------|------------------|-----|---------|
| Part Number               | Marking Sequence | Qty | Price   |
| <a href="#">DN-LT15</a>   | 1-5              | 100 | \$07vv: |
| <a href="#">DN-LT60</a>   | 6-0              | 100 | \$07v_: |
| <a href="#">DN-LT1</a>    | 1                | 100 | \$07vu: |
| <a href="#">DN-LT2</a>    | 2                | 100 | \$07vx: |
| <a href="#">DN-LT3</a>    | 3                | 100 | \$07vy: |
| <a href="#">DN-LT4</a>    | 4                | 100 | \$07vz: |
| <a href="#">DN-LT5</a>    | 5                | 100 | \$07v[: |
| <a href="#">DN-LT6</a>    | 6                | 100 | \$07v[: |
| <a href="#">DN-LT7</a>    | 7                | 100 | \$07v#: |
| <a href="#">DN-LT8</a>    | 8                | 100 | \$07v!: |
| <a href="#">DN-LT9</a>    | 9                | 100 | \$07v?: |
| <a href="#">DN-LT0</a>    | 0                | 100 | \$07vt: |
| <a href="#">DN-LTBLNK</a> | Unprinted        | 100 | \$07x2: |
| <a href="#">DN-LTA</a>    | A                | 100 | \$07v,: |
| <a href="#">DN-LTB</a>    | B                | 100 | \$07x1: |
| <a href="#">DN-LTC</a>    | C                | 100 | \$07x3: |
| <a href="#">DN-LTD</a>    | D                | 100 | \$07x4: |
| <a href="#">DN-LTE</a>    | E                | 100 | \$07x6: |
| <a href="#">DN-LTF</a>    | F                | 100 | \$07x7: |
| <a href="#">DN-LTG</a>    | G                | 100 | \$07x8: |
| <a href="#">DN-LTH</a>    | H                | 100 | \$07xa: |
| <a href="#">DN-LTI</a>    | I                | 100 | \$07xb: |
| <a href="#">DN-LTJ</a>    | J                | 100 | \$07xc: |
| <a href="#">DN-LTK</a>    | K                | 100 | \$07xd: |
| <a href="#">DN-LTL</a>    | L                | 100 | \$07xe: |
| <a href="#">DN-LTM</a>    | M                | 100 | \$07xf: |
| <a href="#">DN-LTN</a>    | N                | 100 | \$07xg: |
| -                         | -                | -   | -       |
| <a href="#">DN-LTP</a>    | P                | 100 | \$07xi: |
| <a href="#">DN-LTQ</a>    | Q                | 100 | \$07xk: |
| <a href="#">DN-LTR</a>    | R                | 100 | \$07xl: |
| <a href="#">DN-LTS</a>    | S                | 100 | \$07xn: |
| <a href="#">DN-LTT</a>    | T                | 100 | \$07xo: |
| <a href="#">DN-LTU</a>    | U                | 100 | \$07xp: |
| <a href="#">DN-LTV</a>    | V                | 100 | \$07xq: |
| <a href="#">DN-LTW</a>    | W                | 100 | \$07xs: |
| <a href="#">DN-LTX</a>    | X                | 100 | \$07xt: |
| <a href="#">DN-LTY</a>    | Y                | 100 | \$07xu: |
| <a href="#">DN-LTZ</a>    | Z                | 100 | \$07xv: |
| <a href="#">DN-LTGND</a>  | ⊕                | 100 | \$07x9: |
| <a href="#">DN-LTPOS</a>  | +                | 100 | \$07xj: |
| <a href="#">DN-LTNEG</a>  | -                | 100 | \$07xh: |
| <a href="#">DN-LTAC</a>   | ~                | 100 | \$07x0: |
| <a href="#">DN-LTDC</a>   | =                | 100 | \$07x5: |

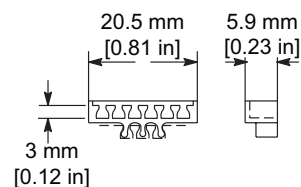


- These marking tags allow the flexibility of creating custom marking sequences on site.
- The DN-M series supports a maximum of three digits (tags), while other DINnectors support up to four digits (tags).
- Material: Thermoplastic with heat embossed black print.

**DN-MTA marking tag adapter**



**DN-MTA dimensions**



| Part Number            | Description                                    | Qty | Price   |
|------------------------|------------------------------------------------|-----|---------|
| <a href="#">DN-MTA</a> | Marking tag adapter holds up to six DN-LT tags | 50  | \$07xx: |

Note: [DN-MTA](#) adapter does not fit [DN-T12-A](#) terminal blocks.

# **DINnectors** Accessories

## Terminal Marking Accessories

**DN-EMLBL1****DN-EMLBL2****DN-EMLBL3**

| Part Number      | Description            | For Use With                                                         | Qty | Price    |
|------------------|------------------------|----------------------------------------------------------------------|-----|----------|
| <b>DN-EMLBL1</b> | Blank labels           | DN-EMPEG1 pin protectors for<br>DN-xEMXxx plug-in terminal<br>blocks | 100 | \$059k:  |
| <b>DN-EMLBL2</b> | Labels printed 1 – 12  |                                                                      | 100 | \$-059l: |
| <b>DN-EMLBL3</b> | Labels printed 13 – 24 |                                                                      | 100 | \$059n:  |

## Marking Pen – for terminal and wire marking tags

- Permanent
- Smudge-proof
- Waterproof
- Weatherproof
- Lightfast (won't fade)
- Dries in seconds (excellent for left-handed users)
- Dry-safe (pen can be left uncapped for days without drying out)
- Low odor ink

| Part Number  | Description                                                                           | Qty | Price   |
|--------------|---------------------------------------------------------------------------------------|-----|---------|
| <b>DN-MP</b> | Staedtler-Mars marking pen, for use with blank marking tags. Permanent Ink, fine tip. | 1   | \$,86]: |

**Marking pen**

## Wire Marking Accessories

**DN-WMTAG1 wire tags &  
DN-WM-x wire tag holders**

| Part Number      | Description                                                                      | For Use With                 | Qty | Price   |
|------------------|----------------------------------------------------------------------------------|------------------------------|-----|---------|
| <b>DN-WMTAG1</b> | Wire tag – blank                                                                 | all DN-WM-x wire tag holders | 525 | \$059x: |
| <b>DN-WM-1</b>   | Wire tag holder, clear, 12mm length, 0.051–0.118 in diameter; for 22–16 AWG wire | <b>DN-WMTAG1</b>             | 200 | \$0edg: |
| <b>DN-WM-2</b>   | Wire tag holder, clear, 12mm length, 0.098–0.196 in diameter; for 16–11 AWG wire |                              | 200 | \$0edh: |
| <b>DN-WM-3</b>   | Wire tag holder, clear, 12mm length, 0.157–0.393 in diameter; for 13–5 AWG wire  |                              | 100 | \$-edi: |
| <b>DN-WM-4</b>   | Wire tag holder, clear, 12mm length, 0.314–0.629 in diameter; for 5AWG wire      |                              | 100 | \$-edj: |

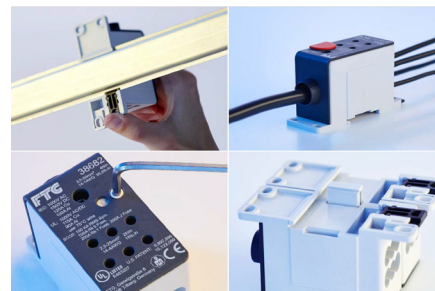
# FTG Enclosed Finger-Safe Power Distribution Blocks



FTG single pole compact power distribution blocks offer many innovative refinements including selectable phase identification, color marking plates, simple and secure DIN mounting clips, incoming cable safety slide, and connection clips for multipole applications.

## Features

- Adjustable dial allows for selection of L1-L2-L3 phase designation
- Red, green, and blue colored marking plates included with part numbers ending in "C"
- Simple and secure DIN rail locking clip allows easy mounting on DIN rail
- Panel mounting option
- Incoming cable safety slide assures IP20 protection with all conductor sizes
- Connection clip included with each PDB for multipole applications
- Suitable for aluminum or copper conductors rated 75°C [167°F]
- IEC 60947-7-1
- Listed to UL 1953 file QPQS-E483207
- 2014/35/EU (Low Voltage Directive)
- 2011/65/EU Annex II 2015/863/EU



## FTG Enclosed Finger-Safe Power Distribution Blocks Selection Guide

| Part Number            | Price    | Amps | Voltage                                               | Wire Type   | Poles | Line Side |                         | Load Side |                 | PDB Block Material     | Housing Color            | Mounting                     | Drawing             |
|------------------------|----------|------|-------------------------------------------------------|-------------|-------|-----------|-------------------------|-----------|-----------------|------------------------|--------------------------|------------------------------|---------------------|
|                        |          |      |                                                       |             |       | Openings  | Wire Size               | Openings  | Wire Size (AWG) |                        |                          |                              |                     |
| <a href="#">38680C</a> | \$6bpz:  | 85A  | IEC:<br>1000VAC<br>1500VDC<br><br>UL:<br>1000 VAC/VDC | Cu<br>or Al | 1     | 1         | 3 to 14 AWG             | 6         | 8 to 14         | Tin-plated<br>aluminum | Light gray,<br>dark gray | Panel or<br>35mm DIN<br>rail | <a href="#">PDF</a> |
| <a href="#">38682C</a> | \$;6bpj: | 115A |                                                       |             | 1     | 1         | 1 to 14 AWG             | 6         | 4 to 14         |                        |                          |                              | <a href="#">PDF</a> |
| <a href="#">38684C</a> | \$;6bpj: | 175A |                                                       |             | 1     | 1         | 2/0 to 14<br>AWG        | 4         | 2 to 14         |                        |                          |                              | <a href="#">PDF</a> |
| <a href="#">38686C</a> | \$6bp_:  | 255A |                                                       |             | 1     | 1         | 250 kcmil<br>to 2 AWG   | 6         | 2 to 14         |                        |                          |                              | <a href="#">PDF</a> |
| <a href="#">38688C</a> | \$6bp#:  | 380A |                                                       |             | 1     | 1         | 500 kcmil<br>to 2/0 AWG | 6         | 2 to 14         |                        |                          |                              | <a href="#">PDF</a> |

**38680C****38684C****38688C**

## Short Circuit Current Rating

*These power distribution blocks have been investigated for high short circuit current ratings according to IEC/UL. They have a 100kA, 600VAC SCCR rating with specific overcurrent protection devices.*

| Part Number                        | 38680                          | 38682                          | 38684                          | 38686                          | 38688                          |
|------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| <b>Fuse Class &amp; Amp Rating</b> | RK5 100A<br>RK1 100A<br>J 100A | RK5 100A<br>RK1 100A<br>J 200A | RK5 200A<br>RK1 200A<br>J 200A | RK5 200A<br>RK1 400A<br>J 400A | RK5 200A<br>RK1 400A<br>J 450A |

## Connection Cross Section

| Part Number            | Single- / Multi-wire                                                                      | With Sleeve / Ferrule                                                                     | Rated Current                                 |
|------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------|
| <a href="#">38680C</a> | 1 x 2.5 - 25mm <sup>2</sup> (14 - 3 AWG)<br>6 x 2.5 - 10mm <sup>2</sup> (14 - 8 AWG)      | 1 x 2.5 - 25mm <sup>2</sup> (14 - 3 AWG)<br>6 x 1.5 - 6mm <sup>2</sup> (14 - 10 AWG)      | IEC: 80A Cu, 63A Al<br>UL: 85A Cu, 65A Al     |
| <a href="#">38682C</a> | 1 x 2.5 - 50mm <sup>2</sup> (14 - 1 AWG)<br>6 x 2.5 - 25mm <sup>2</sup> (14 - 4 AWG)      | 1 x 2.5 - 35mm <sup>2</sup> (14 - 2 AWG)<br>6 x 2.5 - 16mm <sup>2</sup> (14 - 6 AWG)      | IEC: 125A Cu, 100A Al<br>UL: 115A Cu, 90A Al  |
| <a href="#">38684C</a> | 1 x 2.5 - 70mm <sup>2</sup> (14 - 2/0 AWG)<br>4 x 2.5 - 25mm <sup>2</sup> (14 - 4 AWG)    | 1 x 2.5 - 50mm <sup>2</sup> (14 - 1/0 AWG)<br>4 x 2.5 - 16mm <sup>2</sup> (14 - 6 AWG)    | IEC: 175A Cu, 135A Al<br>UL: 175A Cu, 135A Al |
| <a href="#">38686C</a> | 1 x 35 - 120mm <sup>2</sup> (2 - 250 kcmil)<br>6 x 2.5 - 35mm <sup>2</sup> (14 - 2 AWG)   | 1 x 35 - 95mm <sup>2</sup> (2 - 4/0 AWG)<br>6 x 2.5 - 25mm <sup>2</sup> (14 - 4 AWG)      | IEC: 250A Cu, 200A Al<br>UL: 255A Cu, 205A Al |
| <a href="#">38688C</a> | 1 x 70 - 240mm <sup>2</sup> (2/0 - 500 kcmil)<br>6 x 2.5 - 35mm <sup>2</sup> (14 - 2 AWG) | 1 x 70 - 185mm <sup>2</sup> (2/0 - 400 kcmil)<br>6 x 2.5 - 25mm <sup>2</sup> (14 - 4 AWG) | IEC: 415A Cu, 360A Al<br>UL: 380A Cu, 310A Al |

# FTG Enclosed Finger-Safe Terminal Blocks



FTG enclosed terminal blocks feature finger-safe construction and are suitable for use with aluminum or copper wires for maximum safety and flexibility. DIN rail or surface mounting makes installation fast and easy.

## Features

- Suitable for copper or aluminum conductors
- 10kA SCCR; 600VAC/DC
- Plated aluminum construction
- Finger-safe construction per IP20
- DIN rail or surface mounting
- Hex screw input and output connections
- UL1059 recognized file # E98082
- 2014/35/EU (Low Voltage Directive)
- 2011/65/EU Annex II 2015/863/EU



## FTG Enclosed Finger-Safe Terminal Blocks Selection Guide

| Part Number             | Price    | Amps | Number of Poles | Line Side |                      | Load Side |                    | Mounting               | Terminal Block Material  | Drawing             |                     |
|-------------------------|----------|------|-----------------|-----------|----------------------|-----------|--------------------|------------------------|--------------------------|---------------------|---------------------|
|                         |          |      |                 | Openings  | Wire Size            | Openings  | Wire Size          |                        |                          |                     |                     |
| <a href="#">38049AL</a> | \$;6bp!: | 80   | 1               | 3         | 4 to 14 AWG          | 4         | 10 to 14 AWG       | Panel or 35mm DIN rail | Brass, PA66-V0, steel    | <a href="#">PDF</a> |                     |
| <a href="#">38641</a>   | \$6bp?:  | 115  | 1               | 1         | 2 to 8 AWG           | 6         | 4 to 14 AWG        |                        | Aluminum, PA66-V0, steel | <a href="#">PDF</a> |                     |
|                         |          |      |                 | 1         | 4 to 14 AWG          |           |                    |                        |                          |                     |                     |
| <a href="#">38676</a>   | \$;6bp,: | 115  | 1               | 1         | 2 to 8 AWG           | 10        | 4 to 14 AWG        |                        |                          |                     | <a href="#">PDF</a> |
| <a href="#">38675</a>   | \$6bq0:  | 115  | 3               | 1         | 2 to 8 AWG           | 6         | 4 to 14 AWG        |                        |                          |                     | <a href="#">PDF</a> |
| <a href="#">38674</a>   | \$6bq1:  | 175  | 1               | 1         | 2/0 to 8 AWG         | 10        | 4 to 14 AWG        |                        |                          |                     | <a href="#">PDF</a> |
| <a href="#">38673</a>   | \$6bq3:  | 175  | 3               | 1         | 2/0 to 8 AWG         | 6         | 4 to 14 AWG        |                        |                          |                     | <a href="#">PDF</a> |
| <a href="#">38620</a>   | \$6bq4:  | 225  | 1               | 1         | 250 kcmil to 2 AWG   | 2         | 2 to 14 AWG        |                        | <a href="#">PDF</a>      |                     |                     |
|                         |          |      |                 |           |                      | 5         | 6 to 14 AWG        |                        |                          |                     |                     |
|                         |          |      |                 |           |                      | 4         | 8 to 14 AWG        |                        |                          |                     |                     |
| <a href="#">38019AL</a> | \$6bq5:  | 310  | 1               | 1         | 350 kcmil to 3/0 AWG | 2         | 2 to 14 AWG        |                        | Brass, PA66-V0, steel    | <a href="#">PDF</a> |                     |
|                         |          |      |                 |           |                      | 5         | 6 to 14 AWG        |                        |                          |                     |                     |
|                         |          |      |                 |           |                      | 4         | 8 to 14 AWG        |                        |                          |                     |                     |
| <a href="#">38057</a>   | \$6bq6:  | 355  | 1               | 1         | 400 kcmil to 6 AWG   | 1         | 400 kcmil to 6 AWG |                        | <a href="#">PDF</a>      |                     |                     |
| <a href="#">38059</a>   | \$6bq7:  | 840  | 1               | 2         | 600 kcmil to 4 AWG   | 2         | 600 kcmil to 4 AWG |                        |                          |                     |                     |



38049AL



38620

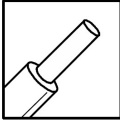
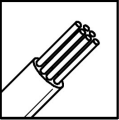
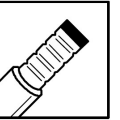
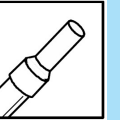


38059



# FTG Enclosed Finger-Safe Terminal Blocks


**38049AL and 38019AL Conductor Cross Sections and Tightening Torque**

| Part Number | Connections  | Solid / Multi-stranded                                                            |                                                                                   | Stranded With Sleeve                                                              |                                                                                    | Torque (N•m [lb•in]) |
|-------------|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------|
|             |              |  |  |  |  |                      |
| 38049AL     | 3 x Ø 7mm    | 2.5 mm <sup>2</sup> - 25mm <sup>2</sup><br>14 AWG - 4 AWG                         |                                                                                   | 2.5 mm <sup>2</sup> - 16mm <sup>2</sup><br>14 AWG - 6 AWG                         |                                                                                    | 1.5 [13.5]           |
|             | 4 x Ø 4.5 mm | 2.5 mm <sup>2</sup> - 6mm <sup>2</sup><br>14 AWG - 10 AWG                         |                                                                                   |                                                                                   |                                                                                    | 0.8 [7.2]            |
| 38019AL     | 1 x Ø 20mm   | 95mm <sup>2</sup> - 185mm <sup>2</sup><br>3/0 AWG - 350 kcmil                     |                                                                                   | 95mm <sup>2</sup> - 150mm <sup>2</sup><br>3/0 AWG - 300 kcmil                     |                                                                                    | 26 [230]             |
|             | 2 x Ø 9mm    | 2.5 mm <sup>2</sup> - 35mm <sup>2</sup><br>14 AWG - 2 AWG                         |                                                                                   | 2.5 mm <sup>2</sup> - 25mm <sup>2</sup><br>14 AWG - 4 AWG                         |                                                                                    | 3.5 [31]             |
|             | 5 x Ø 6.8 mm | 2.5 mm <sup>2</sup> - 16mm <sup>2</sup><br>14 AWG - 6 AWG                         |                                                                                   |                                                                                   |                                                                                    | 1.5 [13.5]           |
|             | 4 x Ø 6.2 mm | 2.5 mm <sup>2</sup> - 10mm <sup>2</sup><br>14 AWG - 8 AWG                         |                                                                                   |                                                                                   |                                                                                    | 2 [18]               |

# Edison Power Distribution Blocks



## Short-Circuit Current Rated Power Distribution Blocks

We offer distinctly different styles of short-circuit current rated Power Distribution Blocks and Terminal Blocks to match different application needs.

- Enclosed style or Open style
- UL1953 Listed power distribution blocks or UL1059 Recognized terminal blocks, that have different minimum spacing requirements.

The table below can assist in the selection of the correct series for your application requirements.

### Why are these important?

Assembly short-circuit current ratings (SCCRs) are now required in the 2005 NEC® and UL508A Listed industrial control panels.

Marking the SCCR on:

- Industrial Control Panels (NEC® 409.110)
- Industrial Machinery Electrical Panels (NEC® 670.3(A))
- HVAC equipment (NEC® 440.4(B))

The above sections are now required by the National Electrical Code. Power Distribution Blocks or Terminal Blocks not marked with an SCCR are typically one of the weakest links and may limit an assembly to no more than 10 kA SCCR per Table SB4.1 UL508A. The EPDB series and HPB series Power Distribution Blocks have increased spacing required where used in feeder circuits in equipment listed to UL508A. The PB series UL1059 Terminal Blocks must be evaluated for proper spacing. Also, for building wiring systems, the EPDB series and HPB series power distribution blocks can be used to meet the 2005 NEC® requirements in section 376.56(B) for power distribution blocks in wireways.

**Edison Power Distribution Blocks Selection Guide\***

| Series      | UL                                       | † Enclosed | High SCCR** | Spacing***<br>1" Air<br>2" Surface | Industrial Control Panels<br>UL 508A<br>Branch Circuit | Industrial Control Panels<br>UL 508A<br>Feeder Circuit | HVAC<br>UL 1995 | Wireways<br>NEC® 376.56(B)<br>(Requires UL 1953) |
|-------------|------------------------------------------|------------|-------------|------------------------------------|--------------------------------------------------------|--------------------------------------------------------|-----------------|--------------------------------------------------|
| <b>EPDB</b> | UL 1953 Listed Power Distribution Blocks | Yes        | Yes         | Yes                                | Yes                                                    | Yes                                                    | Yes             | Yes                                              |
| <b>HPB</b>  | UL 1953 Listed Power Distribution Blocks | No****     | Yes         | Yes                                | Yes                                                    | Yes                                                    | Yes             | Yes (with optional cover)                        |
| <b>PB</b>   | UL 1059 Recognized Terminal Blocks       | No****     | Yes         | No*****                            | Yes                                                    | No*****                                                | Yes             | No                                               |

† IP-20 finger-safe under specific conditions.

\*Refer to specific UL standards and NEC sections for a complete application guide.

\*\*When protected by proper fuse class with maximum ampere rating specified or smaller.

This does not apply to PB40, PB51 and PB71 series.

\*\*\*See Minimum Space Requirements for Equipment table below.

\*\*\*\*Optional covers are available. They are not IP-20 rated, but do provide additional protection against direct contact with Live Parts.

\*\*\*\*\*Exception: Yes, if single pole units installed with proper spacings.

**Minimum Space Requirements for Equipment**

| UL Standard                      | Spacing Between Live Parts of Opposite Polarity |                     | Spacing Between Live Parts and Grounded Parts or Enclosures, Through Air and Over Surface @ 600V |
|----------------------------------|-------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------|
|                                  | Through Air @ 600V                              | Over Surface @ 600V |                                                                                                  |
| 508A Feeder Circuits, Table 10.2 | 1"                                              | 2"                  | 1"                                                                                               |
| 508A Branch Circuits, Table 10.1 | 3/8"                                            | 1/2"                | 1/2"                                                                                             |
| UL 1995 HVAC                     | 3/8"                                            | 1/2"                | 1/2"                                                                                             |

Note: Refer to specific UL standards for complete spacing details.

# EPDB Series Edison Finger-Safe Power Distribution Blocks

## Finger-safe distribution blocks

Use Finger-safe Power Distribution Blocks to manage your power distribution needs, from splitting primary power circuits into a variety of branch circuits to providing a fixed junction tap-off point. The modular design allows the end user to select and configure the number of poles required by each application. These blocks are engineered to allow copper and aluminum conductors and maintain an SCCR rating of 200kA. These features make these blocks the perfect solution to today's power circuit wiring requirements.

## Features

- Fully enclosed block for touch-safe isolation of live parts
- IP20 rating under specific conditions
- Integrated DIN-rail or direct panel mounting. (Panel mount only for [EPDB306](#) and [EPDB702](#))
- Captive termination screws cannot be lost
- Used in UL508A panels for both feeder and branch circuit applications
- Suitable for both factory and field wiring
- Tin-plated aluminum connectors suitable for copper and aluminum conductors

## Ratings

- Ampere ratings from 175 Amps to 760
- 600 VAC or VDC
- Short Circuit Current Rating (SCCR) 200kA with proper fusing
- Flammability: UL 94V0

## Agency Approvals

- UL 1953 Listed - File E256146, Guide QPQS
- CSA Certified - Class 6228-01, File 700490
- CE component IEC 60947-7-1
- IEC-60529, IP20 (Finger-Safe)  
See table for specific conditions.

**Finger-safe Power Distribution Blocks Selection Table**

| Series             | Part Number              | Amps    | Description                            | SCCR Rtg | Qty | Weight   | Price    | Drawing Link        |
|--------------------|--------------------------|---------|----------------------------------------|----------|-----|----------|----------|---------------------|
| Finger-safe (EPDB) | <a href="#">EPDB101</a>  | 175 max | 1 pole distribution block, 1 in/1 out  | 200 kA   | 1   | 3.4 oz.  | \$,06[_] | <a href="#">PDF</a> |
|                    | <a href="#">EPDB104</a>  | 175 max | 1 pole distribution block, 1 in/4 out  | 200 kA   | 1   | 4.2 oz.  | \$,06[#] | <a href="#">PDF</a> |
|                    | <a href="#">EPDB301</a>  | 310 max | 1 pole distribution block, 1 in/1 out  | 200 kA   | 1   | 8.1 oz.  | \$,06[!] | <a href="#">PDF</a> |
|                    | <a href="#">EPDB306</a>  | 380 max | 1 pole distribution block, 1 in/6 out  | 200 kA   | 1   | 9.1 oz.  | \$,06[?] | <a href="#">PDF</a> |
|                    | <a href="#">EPDB512</a>  | 570 max | 1 pole distribution block, 2 in/12 out | 200 kA   | 1   | 12.5 oz. | \$,06[.] | <a href="#">PDF</a> |
|                    | <a href="#">EPDB702</a>  | 760 max | 1 pole distribution block, 2 in/2 out  | 200 kA   | 1   | 16.4 oz. | \$006_0  | <a href="#">PDF</a> |
| Accessory          | <a href="#">DN-EB35*</a> | —       | End bracket                            | —        | 50  | 1.87 lb. | \$07zg   | N/A                 |

\*Note: DIN-rail anchors are required on block or blocks. Anchors must be used to prevent damage to the plastic housing when tightening terminals.

**Finger-safe Power Distribution Block General Specifications**

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| Wire Type             | 75°C*, Cu/Al                                        |
| Voltage               | 600 VAC or VDC maximum (UL 1953), 690 VAC/VDC (IEC) |
| Operating Temperature | -10°C to 60°C [14°F to 140°F]                       |
| Storage Temperature   | -20°C to 60°C [-4°F to 140°F]                       |
| Mounting              | 35mm DIN rail (DN-R35S1) or surface mount.          |

\*Note: Amp Rating is based on NEC table 310.16 for 75°C wire.

**Wire Connector Hole Diameter**

| Part Number             | Line in [mm]  | Load in [mm]  |
|-------------------------|---------------|---------------|
| <a href="#">EPDB101</a> | 0.450 [11.43] | 0.450 [11.43] |
| <a href="#">EPDB104</a> | 0.450 [11.43] | 0.246 [6.25]  |
| <a href="#">EPDB301</a> | 0.720 [18.29] | 0.720 [18.29] |
| <a href="#">EPDB306</a> | 0.870 [22.10] | 0.314 [7.98]  |
| <a href="#">EPDB512</a> | 0.687 [17.45] | 0.265 [6.73]  |
| <a href="#">EPDB702</a> | 0.875 [22.23] | 0.875 [22.23] |

| Part Number             | Minimum Enclosure Size in[mm]*          |
|-------------------------|-----------------------------------------|
| <a href="#">EPDB101</a> | 16 x 16 x 6.75 [406.4 x 406.4 x 171.45] |
| <a href="#">EPDB104</a> | 16 x 16 x 6.75 [406.4 x 406.4 x 171.45] |
| <a href="#">EPDB301</a> | 36 x 30 x 12.63 [914.4 x 762 x 320.80]  |
| <a href="#">EPDB306</a> | 24 x 20 x 6.75 [609.6 x 508 x 171.45]   |
| <a href="#">EPDB512</a> | 24 x 20 x 6.75 [609.6 x 508 x 171.45]   |
| <a href="#">EPDB702</a> | 36 x 30 x 12.63 [914.4 x 762 x 320.80]  |

\*Note: Terminal block SCCR determined based on testing in minimum-size enclosure



# EPDB Series Edison Finger-Safe Power Distribution Blocks Specifications

| Edison Finger-Safe Power Distribution Blocks Wire and Torque Range Specifications |                                               |                      |                                                      |            |                                                           |                      |                                                                                |            |
|-----------------------------------------------------------------------------------|-----------------------------------------------|----------------------|------------------------------------------------------|------------|-----------------------------------------------------------|----------------------|--------------------------------------------------------------------------------|------------|
| Part Number                                                                       | Line                                          |                      |                                                      |            | Load                                                      |                      |                                                                                |            |
|                                                                                   | CU/Al (unless otherwise noted)<br>Wire Range  | Torque<br>Lb-in [Nm] | Trim Length<br>in [mm]                               | Hex<br>Key | CU/Al (unless otherwise noted)<br>Wire Range*             | Torque<br>Lb-in [Nm] | Trim Length<br>in [mm]                                                         | Hex<br>Key |
| <a href="#">EPDB101</a>                                                           | 2/0 to 8 AWG, 70 to 10 mm <sup>2</sup>        | 110 [12.4]           | 0.850 [21.6]                                         | 3/16"      | 2/0 to 8 AWG, 70 to 10 mm <sup>2</sup>                    | 110 [12.4]           | 0.970 [24.6]                                                                   | 3/16"      |
| <a href="#">EPDB104</a>                                                           | 2/0 to 8 AWG, 70 to 10 mm <sup>2</sup>        | 120 [13.6]           | 0.750 [19.0]                                         | 3/16"      | 4 to 12 AWG, 25 to 16 mm <sup>2</sup>                     | 35 [4.0]             | 0.550 [14.0] top row,<br>0.850 [21.6] bottom<br>row                            | 1/8"       |
|                                                                                   |                                               |                      |                                                      |            | 8 AWG, 10 mm <sup>2</sup>                                 | 25 [2.8]             |                                                                                |            |
|                                                                                   | 10 to 14 AWG, Cu                              |                      |                                                      |            | 10 to 14 AWG, 6 to 2.5 mm <sup>2</sup><br>4 to 8 AWG, Al  | 20 [2.3]<br>35 [4.0] |                                                                                |            |
| <a href="#">EPDB301</a>                                                           | 350 kcmil to 6 AWG, 185 to 16 mm <sup>2</sup> | 275 [31.1]           | 1.350 [34.3]                                         | 5/16"      | 350 Kcmil to 6 AWG, 185 to 16 mm <sup>2</sup>             | 275 [31.1]           | 1.250 [31.8]                                                                   | 5/16"      |
| <a href="#">EPDB306</a>                                                           | 500 kcmil to 6 AWG, 240 to 16 mm <sup>2</sup> | 500 [56.5]           | 1.250 [31.8]                                         | 3/8"       | 2 to 3 AWG, 35 mm <sup>2</sup>                            | 50 [5.7]             | 0.590 [15.0] top row<br>1.200 [30.5] bottom<br>row                             | 1/8"       |
|                                                                                   |                                               |                      |                                                      |            | 4 to 6 AWG, 25 to 16 mm <sup>2</sup>                      | 45 [5.1]             |                                                                                |            |
|                                                                                   |                                               |                      |                                                      |            | 8 AWG, 10 mm <sup>2</sup>                                 | 40 [4.5]             |                                                                                |            |
|                                                                                   |                                               |                      |                                                      |            | 10 to 14 AWG, 6 to 2.5 mm <sup>2</sup><br>2 to 12 AWG, Al | 35 [4.0]<br>50 [5.7] |                                                                                |            |
| <a href="#">EPDB512</a>                                                           | 300 kcmil to 4 AWG, 150 to 25mm <sup>2</sup>  | 275 [31.1]           | 1.15 [29.2] top<br>row<br>1.400 [35.6]<br>bottom row | 1/4"       | 4 to 6 AWG, 25 to 16 mm <sup>2</sup>                      | 35 [4.0]             | 0.550 [14.0] top row,<br>1.00 [25.4] middle row,<br>1.220 [31.0] bottom<br>row | 1/8"       |
|                                                                                   |                                               |                      |                                                      |            | 8 AWG, 10 mm <sup>2</sup>                                 | 25 [2.8]             |                                                                                |            |
|                                                                                   |                                               |                      |                                                      |            | 10 to 14 AWG, 6 to 2.5 mm <sup>2</sup><br>4 to 12 AWG, Al | 20 [2.3]<br>35 [4.0] |                                                                                |            |
| <a href="#">EPDB702</a>                                                           | 500 kcmil to 6 AWG, 240 to 16 mm <sup>2</sup> | 500 [56.5]           | 1.250 [31.8]                                         | 3/8"       | 500 kcmil to 6 AWG, 240 to 16 mm <sup>2</sup>             | 500 [56.5]           | 1.250 [31.8]                                                                   | 3/8"       |

\* Wire Range shown is divided based on torque rating. The full range capability spans smallest to largest listed.

| Short-Circuit Current Rating Data |           |                      |                                                  |                      |                                                 |                                |                      |                            |                          |                |
|-----------------------------------|-----------|----------------------|--------------------------------------------------|----------------------|-------------------------------------------------|--------------------------------|----------------------|----------------------------|--------------------------|----------------|
|                                   |           | Line                 |                                                  | Load                 |                                                 | Maximum Fuse Class and Amps*** |                      |                            |                          |                |
| Part Number<br>(All Single Pole)  | Capacity* | Openings<br>per Pole | CU/Al (unless<br>otherwise noted)<br>Wire Range) | Openings<br>per Pole | CU/Al (unless<br>otherwise noted)<br>Wire Range | Class<br>J(JDL)                | Class T<br>(A3T/A6T) | Class RK1<br>(LENRK/LESRK) | Class RK5<br>(ECNR/ECSR) | SCCR<br>Rating |
| <a href="#">EPDB101</a>           | 175A      | 1                    | 2/0 to 8 AWG<br>70 to 10 mm²                     | 1                    | 2/0 to 8 AWG<br>70 to 10 mm²                    | 200                            | 200                  | 100                        | 60                       | 200kA          |
| <a href="#">EPDB104</a>           | 175A      | 1                    | 2/0 to 14 AWG, Cu<br>2/0 to 8 AWG, Al            | 4                    | 4 to 12 AWG, Cu                                 | 200                            | 200                  | 100                        | 60                       | 200kA          |
|                                   |           |                      |                                                  |                      | 4 to 14 AWG, Cu                                 | 175                            | 175                  | 100                        | 30                       | 100kA          |
|                                   |           |                      |                                                  |                      |                                                 | 200                            | 200                  | 100                        | 60                       | 50kA           |
| <a href="#">EPDB301</a>           | 310A      | 1                    | 350 kcmil to 6 AWG<br>185 to 16 mm²              | 1                    | 350 kcmil to 6 AWG<br>150 to 16 mm²             | 400                            | 400                  | 200                        | 100                      | 200kA          |
| <a href="#">EPDB306</a>           | 380A      | 1                    | 500 kcmil to 6 AWG<br>240 to 16 mm²              | 6                    | 2 to 6 AWG, Cu                                  | 400                            | 400                  | 200                        | 100                      | 200kA          |
|                                   |           |                      |                                                  |                      | 2 to 14 AWG, Cu                                 | 200                            | 200                  | 100                        | 60                       | 50kA           |
|                                   |           |                      |                                                  |                      |                                                 | 175                            | 175                  | 100                        | 30                       | 100kA          |
| <a href="#">EPDB512</a>           | 570A      | 2                    | 300 kcmil<br>150 mm²                             | 12                   | 4 to 8 AWG Cu                                   | 600                            | 600                  | 400                        | 200                      | 200kA          |
|                                   |           |                      | 300 kcmil to 4 AWG<br>150 to 12 mm²              |                      | 4 AWG, Cu                                       | 600                            | 400                  | 200                        | 100                      | 50kA           |
|                                   |           |                      |                                                  |                      | 4 to 14 AWG, Cu                                 | 200                            | 200                  | 100                        | 30                       | 50kA           |
| <a href="#">EPDB702</a>           | 760A      | 2                    | 500 kcmil<br>240 mm²                             | 2                    | 500 kcmil<br>240 mm²                            | 600                            | 600**                | 400                        | 200                      | 200kA          |
|                                   |           |                      | 500 kcmil to 6 AWG<br>240 to 16 mm²              |                      | 600                                             | 800**                          | 600                  | 200                        | 100kA                    |                |
|                                   |           |                      |                                                  |                      | 600                                             | 600                            | 400                  | 200                        | 100kA                    |                |

\*Amp ratings are based on NEC® Table 310.16 for 75°C wire and UL508A Table 28.1.

\*\*Class L 800A or less fuses are suitable for this particular SCCR case.

\*\*\*Class G 60A or less, or Class CC 30A or less fuses are suitable for all SCCRs in this table.

# EPDB Series Edison Finger-Safe Power Distribution Blocks IP-20 Finger-safe Status Requirements

| Specific Conditions to Achieve IP-20 Finger-Safe Status for EPDB Series |                                                 |                                                      |                    |               |                                                                           |                                                     |                    |               |
|-------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------|--------------------|---------------|---------------------------------------------------------------------------|-----------------------------------------------------|--------------------|---------------|
| Part Number                                                             | Line                                            |                                                      |                    |               | Load                                                                      |                                                     |                    |               |
|                                                                         | Trim Length in [mm]                             | Installed Wire                                       | IP-20              |               | Trim Length in [mm]                                                       | Installed Wire                                      | IP-20              |               |
|                                                                         |                                                 |                                                      | Conductor Openings | Screw Opening |                                                                           |                                                     | Conductor Openings | Screw Opening |
| <b><u>EPDB101</u></b>                                                   | 0.850 [21.6]                                    | 2/0 to 8 AWG<br>70 to 10mm <sup>2</sup>              | Yes                | Yes           | 0.970 [24.6]                                                              | 2/0 to 8 AWG<br>70 to 10mm <sup>2</sup>             | Yes                | Yes           |
| <b><u>EPDB104</u></b>                                                   | 0.750 [19.0]                                    | 2/0 to 8 AWG<br>70 to 10mm <sup>2</sup>              | Yes                | Yes           | 0.550 [14.0] top row,<br>0.850 [21.6] bottom row                          | 4 to 14 AWG<br>25 to 2.5mm <sup>2</sup>             | Yes                | Yes           |
|                                                                         |                                                 |                                                      |                    |               |                                                                           | screws fully opened                                 | N/A                | Yes           |
|                                                                         |                                                 |                                                      |                    |               |                                                                           | no wire in hole                                     | No                 | N/A           |
| <b><u>EPDB301</u></b>                                                   | 1.350 [34.3]                                    | 350 Kcmil to 2/0<br>AWG<br>185 to 70mm <sup>2</sup>  | Yes                | Yes           | 1.250 [31.8]                                                              | 350 Kcmil to 2/0<br>AWG<br>185 to 70mm <sup>2</sup> | Yes                | Yes           |
|                                                                         |                                                 | 1/0 to 6 AWG<br>50 to 16mm <sup>2</sup>              | No                 | Yes           |                                                                           | 1/0 to 6 AWG<br>50 to 16mm <sup>2</sup>             | No                 | Yes           |
| <b><u>EPDB306</u></b>                                                   | 1.250 [31.8]                                    | 500 to 250 Kcmil<br>240 to 150mm <sup>2</sup>        | Yes                | Yes           | 0.590 [15.0] top row,<br>1.200 [30.5] bottom row                          | 2 to 14 AWG<br>35 to 2.5mm <sup>2</sup>             | Yes                | Yes           |
|                                                                         |                                                 | 4/0 to 6 AWG<br>120 to 16mm <sup>2</sup>             | No                 | Yes           |                                                                           | screws fully opened                                 | N/A                | Yes           |
|                                                                         |                                                 | N/A                                                  | N/A                | N/A           |                                                                           | no wire in hole                                     | No                 | N/A           |
| <b><u>EPDB512</u></b>                                                   | 1.15 [29.2] top row,<br>1.400 [35.6] bottom row | 300 Kcmil to 4/0<br>AWG<br>150 to 120mm <sup>2</sup> | Yes                | Yes           | 0.550 [14.0] top row<br>1.00 [25.4] middle row<br>1.220 [31.0] bottom row | 4 to 14 AWG<br>25 to 2.5mm <sup>2</sup>             | Yes                | Yes           |
|                                                                         |                                                 | 3/0 to 4 AWG<br>95 to 25mm <sup>2</sup>              | No                 | Yes           |                                                                           | screws fully opened                                 | N/A                | Yes           |
|                                                                         |                                                 | screws fully opened                                  | N/A                | No            |                                                                           | no wire in hole                                     | Yes                | N/A           |
|                                                                         |                                                 | no wire in hole                                      | No                 | N/A           |                                                                           |                                                     |                    |               |
| <b><u>EPDB702</u></b>                                                   | 1.250 [31.8]                                    | 500 to 350 Kcmil<br>240 to 185mm <sup>2</sup>        | Yes                | Yes           | 1.250 [31.8]                                                              | 500 to 350 Kcmil<br>240 to 185mm <sup>2</sup>       | Yes                | Yes           |
|                                                                         |                                                 | 300 Kcmil to 6 AWG<br>150 to 16mm <sup>2</sup>       | No                 | Yes           |                                                                           | 300 Kcmil to 6 AWG<br>150 to 16mm <sup>2</sup>      | No                 | Yes           |
|                                                                         |                                                 | screws fully opened                                  | N/A                | No            |                                                                           | screws fully opened                                 | N/A                | No            |
|                                                                         |                                                 | no wire in hole                                      | No                 | N/A           |                                                                           | no wire in hole                                     | No                 | N/A           |



# HPB Series Edison Open-Style Power Distribution Blocks

## Open-style power distribution blocks for cable termination

Edison open-style power distribution blocks are a convenient way to manage your power distribution needs. They are engineered to maintain a high SCCR rating of 200kA with copper conductors making these distribution blocks the ideal solution to today's power circuit wiring needs.



## Features

- Suitable for industrial control panel applications requiring high SCCR ratings
- Suitable for installation in wireways (with optional cover, per NEC 376.56 (B))
- Has minimum spacing requirements at 600VAC/DC of at least 1in (25.4 mm) through air and 2in (50.8 mm) over surface which meets UL 1953 requirements
- Used in UL508A panels
- Meets UL508A requirements and can be used in feeder and branch circuit applications
- Tin-plated aluminum connectors suitable for copper conductors
- Available safety covers for greater protection (purchase separately)
- Suitable for both factory and field wiring
- Panel mounting

## Ratings

- Ampere ratings up to 310A
- 600VAC or VDC
- Short Circuit Current Rating (SCCR) up to 200kA with proper fusing  
See short circuit rating data table.
- Flammability: UL 94V0
- Temperature rating: -4 to 248°F (-20 to 120°C) with a relative humidity not exceeding 85%.

## Agency Approvals

- UL Listed - File E333541  
Guide QPQS
- CE

## Standards

- UL1953

**Open-Style Power Distribution Blocks Selection Table**

| Part Number              | Amps    | Description                              | SCCR Rtg | Qty | Weight [lb] | Price     |
|--------------------------|---------|------------------------------------------|----------|-----|-------------|-----------|
| <a href="#">HPB101-1</a> | 175 max | 1 pole distribution block, 1 in/1 out    | 200kA    | 1   | 0.2         | \$06_1:   |
| <a href="#">HPB101-3</a> | 175 max | 3 pole distribution block, 1 in/1 out    | 200kA    | 1   | 0.8         | \$06_2:   |
| <a href="#">HPB104-1</a> | 175 max | 1 pole distribution block, 1 in/4 out    | 200kA    | 1   | 0.2         | \$06_3:   |
| <a href="#">HPB104-3</a> | 175 max | 3 pole distribution block, 1 in/4 out    | 200kA    | 1   | 0.8         | \$06_4:   |
| <a href="#">HPB10S-3</a> | 175 max | 3 pole distribution block, 1 in/stud out | 200kA    | 1   | 1.0         | \$06_9:   |
| <a href="#">HPB106-1</a> | 175 max | 1 pole distribution block, 1 in/6 out    | 200kA    | 1   | 1.4         | \$06_5:   |
| <a href="#">HPB106-2</a> | 175 max | 2 pole distribution block, 1 in/6 out    | 200kA    | 1   | 0.2         | \$06_6:   |
| <a href="#">HPB106-3</a> | 175 max | 3 pole distribution block, 1 in/6 out    | 200kA    | 1   | 0.8         | \$006_7:  |
| <a href="#">HPB306-1</a> | 310 max | 1 pole distribution block, 1 in/6 out    | 200kA    | 1   | 0.7         | \$06_a:   |
| <a href="#">HPB306-3</a> | 310 max | 3 pole distribution block, 1 in/6 out    | 200kA    | 1   | 2.9         | \$006_b:  |
| <a href="#">HPB309-1</a> | 310 max | 1 pole distribution block, 1 in/9 out    | 200kA    | 1   | 0.8         | \$006_c:  |
| <a href="#">HPB309-3</a> | 310 max | 3 pole distribution block, 1 in/9 out    | 200kA    | 1   | 3.0         | \$006_d:  |
| <a href="#">HPB312-1</a> | 310 max | 1 pole distribution block, 1 in/12 out   | 200kA    | 1   | 0.8         | \$006_e:  |
| <a href="#">HPB312-3</a> | 310 max | 3 pole distribution block, 1 in/12 out   | 200kA    | 1   | 3.2         | \$,006_f: |



**HPB104-1**



**HPB10S-3**



**HPB106-3**



**HPB309-1**



**HPB312-3**

**Open-Style Power Distribution Block General Specifications**

|           |                       |
|-----------|-----------------------|
| Wire type | 75°C* Copper          |
| Voltage   | 600VAC or VDC maximum |
| Mounting  | Surface mount         |

\*Note: Amp rating based on NEC table 310.16 for 75°C copper wire.

### Optional Covers

Covers are ordered for each individual pole, i.e., three 1-pole covers for 3-pole block (see Table A) except HPB106 blocks have one cover for 1-, 2-, or 3-pole versions (see Table B). Shipped with mounting screws.

**Table A**

| Block         | Cover                 |
|---------------|-----------------------|
| HPB1XX-(pole) | <a href="#">PBC21</a> |
| HPB3XX-(pole) | <a href="#">PBC31</a> |

**Table B**

| Block                    | Cover                 |
|--------------------------|-----------------------|
| <a href="#">HPB106-1</a> | <a href="#">PBC31</a> |
| <a href="#">HPB106-2</a> | <a href="#">PBC32</a> |
| <a href="#">HPB106-3</a> | <a href="#">PBC33</a> |

# HPB Series Edison Open-Style Power Distribution Blocks

| Edison Open-Style Power Distribution Blocks Wire and Torque Range Specifications     |                                                 |                   |                     |         |                                        |                   |                                                                        |                                                     |
|--------------------------------------------------------------------------------------|-------------------------------------------------|-------------------|---------------------|---------|----------------------------------------|-------------------|------------------------------------------------------------------------|-----------------------------------------------------|
| Part Number                                                                          | Line                                            |                   |                     |         | Load                                   |                   |                                                                        |                                                     |
|                                                                                      | CU Wire Range                                   | Torque Lb-in [Nm] | Trim Length in [mm] | Hex Key | CU Wire Range*                         | Torque Lb-in [Nm] | Trim Length in [mm]                                                    | Hex Key                                             |
| <a href="#">HPB101-1</a> ,<br><a href="#">HPB101-3</a>                               | 2/0 to 8 AWG<br>70 to 10 mm <sup>2</sup>        | 110 [12.4]        | 0.700 [17.8]        | 3/16"   | 2/0 to 8 AWG, 70 to 10 mm <sup>2</sup> | 110 [12.4]        | 0.700 [17.8]                                                           | 3/16" Hex                                           |
| <a href="#">HPB104-1</a> ,<br><a href="#">HPB104-3</a>                               | 2/0 to 8 AWG<br>70 to 10 mm <sup>2</sup>        | 120 [13.6]        | 0.670 [17.0]        | 3/16"   | 4 to 6 AWG, 25 to 16 mm <sup>2</sup>   | 35 [4.0]          | 0.470 [11.9] top row, 0.780 [19.8] bottom row                          | Slot                                                |
|                                                                                      |                                                 |                   |                     |         | 8 AWG, 10 mm <sup>2</sup>              | 25 [2.8]          |                                                                        |                                                     |
|                                                                                      |                                                 |                   |                     |         | 10 to 14 AWG, 6 to 2.5 mm <sup>2</sup> | 20 [2.3]          |                                                                        |                                                     |
| <a href="#">HPB10S-3</a>                                                             | 2/0 to 8 AWG<br>70 to 10 mm <sup>2</sup>        | 120 [13.6]        | 0.670 [17.0]        | 3/16"   | N/A                                    | 50 [5.7]          | N/A                                                                    | 1/4-20 Stud                                         |
| <a href="#">HPB106-1</a> ,<br><a href="#">HPB106-2</a> ,<br><a href="#">HPB106-3</a> | 2/0 to 8 AWG<br>70 to 10 mm <sup>2</sup>        | 120 [13.6]        | 0.700 [17.8]        | 3/16"   | 4 to 6 AWG, 25 to 16 mm <sup>2</sup>   | 35 [4.0]          | 0.480 [12.2] top row, 0.800 [20.3] bottom row                          | Slot                                                |
|                                                                                      |                                                 |                   |                     |         | 8 AWG, 10 mm <sup>2</sup>              | 25 [2.8]          |                                                                        |                                                     |
|                                                                                      |                                                 |                   |                     |         | 10 to 14 AWG, 6 to 2.5 mm <sup>2</sup> | 20 [2.3]          |                                                                        |                                                     |
| <a href="#">HPB306-1</a> ,<br><a href="#">HPB306-3</a>                               | 350 kcmil to 4 AWG<br>185 to 25 mm <sup>2</sup> | 275 [31.1]        | 0.900 [22.9]        | 5/16"   | 4 to 6 AWG, 25 to 16 mm <sup>2</sup>   | 35 [4.0]          | 1.00 [25.4] top row, 0.450 [11.43] bottom row                          | Slot                                                |
|                                                                                      |                                                 |                   |                     |         | 8 AWG, 10 mm <sup>2</sup>              | 25 [2.8]          |                                                                        |                                                     |
|                                                                                      |                                                 |                   |                     |         | 10 to 12 AWG, 6 to 4 mm <sup>2</sup>   | 20 [2.3]          |                                                                        |                                                     |
| <a href="#">HPB309-1</a> ,<br><a href="#">HPB309-3</a>                               | 350 kcmil to 4 AWG<br>185 to 25 mm <sup>2</sup> | 275 [31.1]        | 0.900 [22.9]        | 5/16"   | 2 to 3 AWG, 35 mm <sup>2</sup>         | 50 [5.7]          | 0.450 [11.4] top row, 0.630 [16.0] middle row, 0.920 [23.4] bottom row | Slot top row. Slot middle row. 3/16" Hex bottom row |
|                                                                                      |                                                 |                   |                     |         | 4 to 6 AWG, 25 to 16 mm <sup>2</sup>   | 45 [5.1]          |                                                                        |                                                     |
|                                                                                      |                                                 |                   |                     |         | 8 AWG, 10 mm <sup>2</sup>              | 40 [4.5]          |                                                                        |                                                     |
|                                                                                      |                                                 |                   |                     |         | 10 to 12 AWG, 6 to 4 mm <sup>2</sup>   | 35 [4.0]          |                                                                        |                                                     |
| <a href="#">HPB312-1</a> ,<br><a href="#">HPB312-3</a>                               | 350 kcmil to 4 AWG<br>185 to 25 mm <sup>2</sup> | 275 [31.1]        | 0.900 [22.9]        | 5/16"   | 4 to 6 AWG, 25 to 16 mm <sup>2</sup>   | 35 [4.0]          | 0.450 [11.4] top row, 0.630 [16.0] middle row, 0.920 [23.4] bottom row | Slot                                                |
|                                                                                      |                                                 |                   |                     |         | 8 AWG, 10 mm <sup>2</sup>              | 25 [2.8]          |                                                                        |                                                     |
|                                                                                      |                                                 |                   |                     |         | 10 to 14 AWG, 6 to 2.5 mm <sup>2</sup> | 20 [2.3]          |                                                                        |                                                     |

\* Wire Range shown is divided based on torque rating. The full range capability spans smallest to largest listed.

| Short-Circuit Current Rating Data                                                    |           |                   |                                                 |                   |                                          |                               |                   |                         |                       |             |
|--------------------------------------------------------------------------------------|-----------|-------------------|-------------------------------------------------|-------------------|------------------------------------------|-------------------------------|-------------------|-------------------------|-----------------------|-------------|
| Part Number<br>(All Single Pole)                                                     | Capacity* | Line              |                                                 | Load              |                                          | Maximum Fuse Class and Amps** |                   |                         |                       |             |
|                                                                                      |           | Openings per Pole | Wire Range (copper only)                        | Openings per Pole | Wire Range (copper only)                 | Class J(JDL)                  | Class T (A3T/A6T) | Class RK1 (LENRK/LESRK) | Class RK5 (ECNR/ECSR) | SCCR Rating |
| <a href="#">HPB101-1</a> ,<br><a href="#">HPB101-3</a>                               | 175 A     | 1                 | 2/0 to 8 AWG<br>70 to 10 mm <sup>2</sup>        | 1                 | 2/0 to 8 AWG<br>70 to 10 mm <sup>2</sup> | 200                           | 200               | 200                     | 60                    | 200kA       |
| <a href="#">HPB104-1</a> ,<br><a href="#">HPB104-3</a>                               | 175 A     | 1                 | 2/0 to 8 AWG<br>70 to 10 mm <sup>2</sup>        | 4                 | 4 to 12 AWG<br>25 to 4 mm <sup>2</sup>   | 200                           | 200               | 200                     | 60                    | 200kA       |
|                                                                                      |           |                   |                                                 |                   | 14 AWG<br>2.5 mm <sup>2</sup>            | 175                           | 175               | 100                     | 60                    | 100kA       |
|                                                                                      |           |                   |                                                 |                   |                                          | 200                           | 200               | 100                     | 60                    | 50kA        |
| <a href="#">HPB10S-3</a>                                                             | 175 A     | 1                 | 2/0 to 8 AWG<br>70 to 10 mm <sup>2</sup>        | Stud              | 1/4-20 x 3/4 Stud                        | 200                           | 200               | 100                     | 60                    | 200kA       |
| <a href="#">HPB106-1</a> ,<br><a href="#">HPB106-2</a> ,<br><a href="#">HPB106-3</a> | 175 A     | 1                 | 2/0 to 8 AWG<br>70 to 10 mm <sup>2</sup>        | 6                 | 4 to 12 AWG<br>25 to 4 mm <sup>2</sup>   | 400                           | 400               | 200                     | 100                   | 200kA       |
|                                                                                      |           |                   |                                                 |                   |                                          | 400                           | 400               | 400                     | 100                   | 100kA       |
|                                                                                      |           |                   |                                                 |                   | 14 AWG<br>2.5 mm <sup>2</sup>            | 175                           | 175               | 100                     | 60                    | 100kA       |
| <a href="#">HPB306-1</a> ,<br><a href="#">HPB306-3</a>                               | 310 A     | 1                 | 350 kcmil to 4 AWG<br>185 to 12 mm <sup>2</sup> | 6                 | 4 to 8 AWG<br>25 to 10 mm <sup>2</sup>   | 400                           | 400               | 200                     | 100                   | 200kA       |
|                                                                                      |           |                   |                                                 |                   |                                          | 400                           | 400               | 400                     | 100                   | 100kA       |
|                                                                                      |           |                   |                                                 |                   | 10 to 12 AWG<br>6 to 4 mm <sup>2</sup>   | 175                           | 175               | 100                     | 60                    | 100kA       |
| <a href="#">HPB309-1</a> ,<br><a href="#">HPB309-3</a>                               | 310 A     | 1                 | 350 kcmil to 4 AWG<br>185 to 12 mm <sup>2</sup> | 9                 | 1/0 to 6 AWG<br>50 to 16 mm <sup>2</sup> | 400                           | 400               | 200                     | 100                   | 200kA       |
|                                                                                      |           |                   |                                                 |                   |                                          | 400                           | 400               | 400                     | 100                   | 100kA       |
|                                                                                      |           |                   |                                                 |                   | 8 to 12 AWG<br>10 to 4 mm <sup>2</sup>   | 175                           | 175               | 100                     | 60                    | 100kA       |
| <a href="#">HPB312-1</a> ,<br><a href="#">HPB312-3</a>                               | 310 A     | 1                 | 350 kcmil to 4 AWG<br>185 to 12 mm <sup>2</sup> | 12                | 4 to 8 AWG<br>25 to 10 mm <sup>2</sup>   | 400                           | 400               | 200                     | 100                   | 200kA       |
|                                                                                      |           |                   |                                                 |                   | 10 to 14 AWG<br>6 to 2.5 mm <sup>2</sup> | 175                           | 175               | 100                     | 60                    | 100kA       |

\*Amp ratings are based on NEC® Table 310.16 for 75°C copper wire and UL508A Table 28.1.

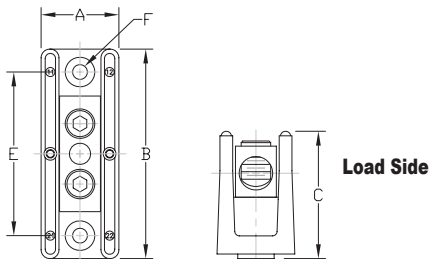
\*\*Class G 60A or less, or Class CC 30A or less fuses are suitable for all SCCRs in this table.

# HPB Series Edison Open-Style Power Distribution Block Dimensions

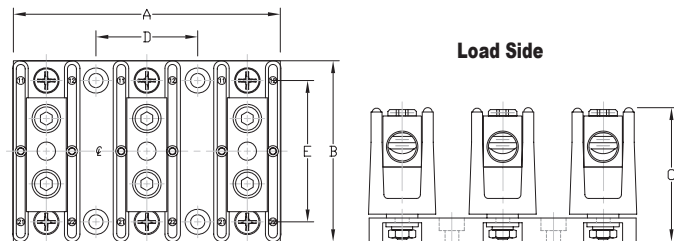
| Edison Open-Style Power Distribution Blocks Dimensions |              |              |             |             |              |                          |
|--------------------------------------------------------|--------------|--------------|-------------|-------------|--------------|--------------------------|
| Part Number                                            | Width        | Length       | Height      |             |              |                          |
|                                                        | A            | B            | C           | D           | E            | F                        |
| <b><u>HPB306-3, HPB312-3, HPB309-3</u></b>             | 6.00 [152.4] | 5.50 [139.7] | 3.70 [93.9] | 3.25 [82.6] | 4.75 [120.7] | 0.22 [5.7]               |
| <b><u>HPB306-1, HPB312-1, HPB309-1</u></b>             | 1.96 [49.8]  | 3.38 [85.9]  | 3.32 [84.3] | -           | 3.38 [85.8]  | 0.21 [2.5] x 0.41 [10.4] |
| <b><u>HPB101-3, HPB104-3, HPB10S-3</u></b>             | 4.27 [108.3] | 2.88 [73.2]  | 2.13 [54.0] | 1.62 [41.1] | 2.25 [57.2]  | 0.22 [5.7]               |
| <b><u>HPB101-1, HPB104-1</u></b>                       | 1.07 [27.2]  | 2.88 [73.2]  | 1.75 [44.5] | -           | 2.25 [57.2]  | 0.20 [5.1]               |
| <b><u>HPB106-1</u></b>                                 | 1.96 [49.8]  | 4.00 [101.6] | 3.32 [84.3] | -           | 3.37 [85.6]  | 0.21 [2.5] x 0.41 [10.4] |
| <b><u>HPB106-2</u></b>                                 | 3.58 [90.9]  | 4.00 [101.6] | 3.32 [84.3] | 1.62 [41.1] | 3.37 [85.6]  | 0.21 [2.5] x 0.41 [10.4] |
| <b><u>HPB106-3</u></b>                                 | 5.20 [132.1] | 4.00 [101.6] | 3.32 [84.3] | 1.62 [41.1] | 3.37 [85.6]  | 0.21 [2.5] x 0.41 [10.4] |

Note: Dimensions are in inches [millimeters]

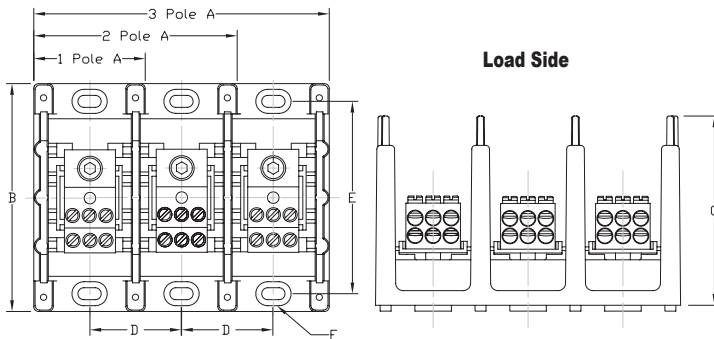
**HPB101-1, HPB104-1**



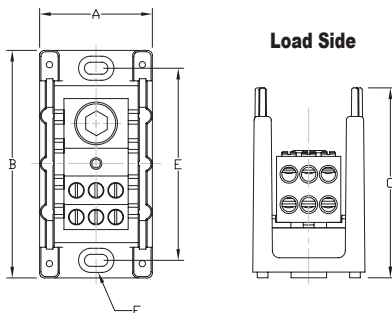
**HPB101-3, HPB104-3, HPB10S-3**



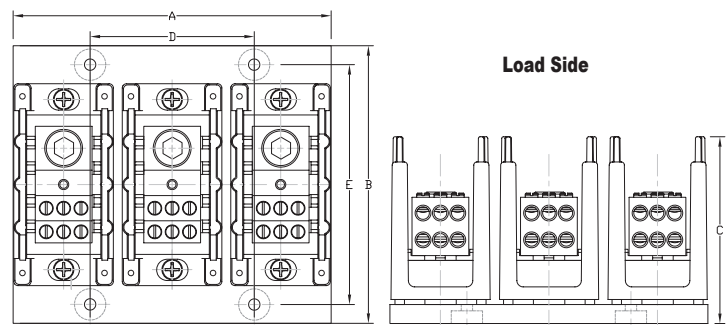
**HPB106-1, HPB106-2, HPB106-3**



**HPB306-1, HPB312-1, HPB309-1**



**HPB306-3, HPB312-3, HPB309-3**

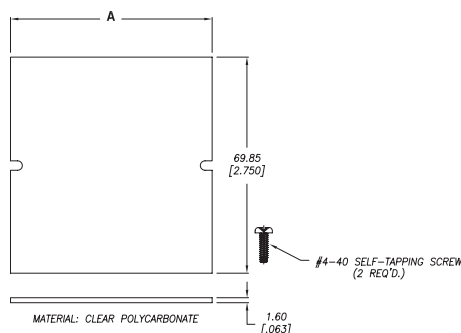


# HPB Series Edison Open-Style Power Distribution Blocks Optional Covers

## Covers

### Optional Cover for HPB101-1, HPB101-3, HPB104-1, HPB104-3, HPB10S-3

Note: One PBC21 will be required for each pole. For example the HPB101-1 will require 1 Qty. HPB101-3 will require 3 Qty.

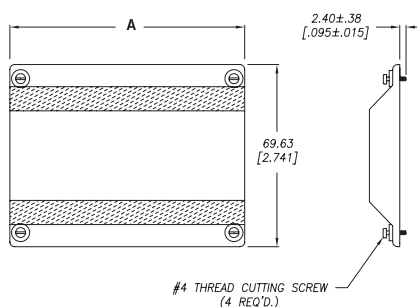


| Part Number  | A Dimension in[mm] |
|--------------|--------------------|
| <u>PBC21</u> | 0.94 [23.88]       |

### Optional Cover for HPB306-1, HPB306-3, HPB309-1, HPB309-3, HPB312-1, HPB312-3

Note: One PBC31 will be required for each pole. For example the HPB306-1 will require Qty 1, and HPB306-3 will require Qty 3.

### Optional Cover for HPB106-1 = PBC31 HPB106-2 = PBC32 HPB106-3 = PBC33



| Part Number  | A Dimension in[mm] |
|--------------|--------------------|
| <u>PBC31</u> | 2.10 [53.34]       |
| <u>PBC32</u> | 3.72 [94.49]       |
| <u>PBC33</u> | 5.34 [135.64]      |

| Part Number                         | Minimum Enclosure Size*                      |
|-------------------------------------|----------------------------------------------|
| <u>HPB101-1, HPB101-3</u>           | 16" x 16" x 6.75" [406.4 x 406.4 x 171.5 mm] |
| <u>HPB104-1, HPB104-3</u>           | 16" x 16" x 6.75" [406.4 x 406.4 x 171.5 mm] |
| <u>HPB10S-3</u>                     | 16" x 16" x 6.75" [406.4 x 406.4 x 171.5 mm] |
| <u>HPB106-1, HPB106-2, HPB106-3</u> | 24" x 20" x 6.76" [609.6 x 508 x 171.5 mm]   |
| <u>HPB306-1, HPB306-3</u>           | 24" x 20" x 6.76" [609.6 x 508 x 171.5 mm]   |
| <u>HPB309-1, HPB309-3</u>           | 24" x 20" x 6.76" [609.6 x 508 x 171.5 mm]   |
| <u>HPB312-1, HPB312-3</u>           | 24" x 20" x 6.76" [609.6 x 508 x 171.5 mm]   |

\*Power distribution blocks SCCR determined based on testing in minimum size enclosure.

# PB Series Edison Open-Style Terminal Blocks

## Open-style terminal blocks for cable termination

Edison Open-style terminal blocks are a convenient way to manage your power distribution needs. They are engineered to maintain an SCCR rating of 200kA with copper conductors and an SCCR of 10 kA for aluminium conductors, making these distribution blocks the ideal solution to today's power circuit wiring needs.

## Features

- Used in UL508A panels for branch circuit applications
- Standard aluminum box connectors accommodate copper wire. PB401x, PB512x and PB712x series accommodate copper or aluminum wire.
- Tin-plated aluminum connectors suitable for copper conductors
- Available safety covers for greater protection (purchase separately)
- Suitable for both factory and field wiring

## Ratings

- Ampere ratings up to 760 Amps
- 600 VAC or VDC
- Short Circuit Current Rating (SCCR) 200kA with proper fusing
- Flammability: UL 94V0

## Agency Approvals

- UL 1059 recognized - File E62622 Guide XCFR2
- CSA Certified: Class 6228-01, File 700489
- CE

| Open Type Power Distribution Blocks Selection Table |         |                                        |             |     |             |           |
|-----------------------------------------------------|---------|----------------------------------------|-------------|-----|-------------|-----------|
| Part Number                                         | Amps    | Description                            | SCCR Rating | Qty | Weight [oz] | Price     |
| <a href="#">PB1011</a>                              | 175 max | 1 pole distribution block, 1 in/1 out  | 200 kA      | 1   | 2.8         | \$06_g:   |
| <a href="#">PB1012</a>                              | 175 max | 2 pole distribution block, 1 in/1 out  | 200 kA      | 1   | 4.6         | \$06_h:   |
| <a href="#">PB1013</a>                              | 175 max | 3 pole distribution block, 1 in/1 out  | 200 kA      | 1   | 6.8         | \$-06_i:  |
| <a href="#">PB1041</a>                              | 175 max | 1 pole distribution block, 1 in/4 out  | 200 kA      | 1   | 3.1         | \$-06_j:  |
| <a href="#">PB1042</a>                              | 175 max | 2 pole distribution block, 1 in/4 out  | 200 kA      | 1   | 5.2         | \$06_k:   |
| <a href="#">PB1043</a>                              | 175 max | 3 pole distribution block, 1 in/4 out  | 200 kA      | 1   | 7.3         | \$-06_l:  |
| <a href="#">PB3061</a>                              | 310 max | 1 pole distribution block, 1 in/6 out  | 200 kA      | 1   | 10.9        | \$06_n:   |
| <a href="#">PB3062</a>                              | 310 max | 2 pole distribution block, 1 in/6 out  | 200 kA      | 1   | 19.1        | \$06_o:   |
| <a href="#">PB3063</a>                              | 310 max | 3 pole distribution block, 1 in/6 out  | 200 kA      | 1   | 25.5        | \$006_p:  |
| <a href="#">PB3121</a>                              | 310 max | 1 pole distribution block, 1 in/12 out | 200 kA      | 1   | 12.7        | \$06_q:   |
| <a href="#">PB3122</a>                              | 310 max | 2 pole distribution block, 1 in/12 out | 200 kA      | 1   | 21.6        | \$006_s:  |
| <a href="#">PB3123</a>                              | 310 max | 3 pole distribution block, 1 in/12 out | 200 kA      | 1   | 31.1        | \$;006_t: |
| <a href="#">PB4011</a>                              | 380 max | 1 pole distribution block, 1 in/stud   | 10 kA       | 1   | 11.9        | \$06_u:   |
| <a href="#">PB4012</a>                              | 380 max | 2 pole distribution block, 1 in/stud   | 10 kA       | 1   | 20.7        | \$06_v:   |
| <a href="#">PB4013</a>                              | 380 max | 3 pole distribution block, 1 in/stud   | 10 kA       | 1   | 29.1        | \$006_x:  |
| <a href="#">PB5121</a>                              | 570 max | 1 pole distribution block, 2 in/12 out | 10 kA       | 1   | 13.8        | \$06_y:   |
| <a href="#">PB5122</a>                              | 570 max | 2 pole distribution block, 2 in/12 out | 10 kA       | 1   | 24.4        | \$006_z:  |
| <a href="#">PB5123</a>                              | 570 max | 3 pole distribution block, 2 in/12 out | 10 kA       | 1   | 34.7        | \$;006_]: |
| <a href="#">PB7121</a>                              | 760 max | 1 pole distribution block, 2 in/12 out | 10 kA       | 1   | 17.0        | \$;006_[: |
| <a href="#">PB7123</a>                              | 760 max | 3 pole distribution block, 2 in/12 out | 10 kA       | 1   | 44.0        | \$006_::  |

| Safety Covers for Open Power Distribution Blocks Selection Table |                                                                                                                                                |     |             |          |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------|----------|
| Part Number                                                      | Description                                                                                                                                    | Qty | Weight (oz) | Price    |
| <a href="#">PBC21</a>                                            | Power distribution block cover for 175A open style 1-pole blocks                                                                               | 1   | 0.3         | \$6_#:   |
| <a href="#">PBC22</a>                                            | Power distribution block cover for 175A open style 2-pole blocks                                                                               | 1   | 0.4         | \$;6_!:  |
| <a href="#">PBC23</a>                                            | Power distribution block cover for 175A open style 3-pole blocks                                                                               | 1   | 0.5         | \$6_?:   |
| <a href="#">PBC31</a>                                            | Power distribution block cover for 310A, 380A, 570A open style 1-pole blocks, and <a href="#">HPB106-1</a>                                     | 1   | 0.9         | \$;06_:: |
| <a href="#">PBC32</a>                                            | Power distribution block cover for 310A, 380A, 570A open style 2-pole blocks, and <a href="#">HPB106-2</a>                                     | 1   | 1.3         | \$06#0:  |
| <a href="#">PBC33</a>                                            | Power distribution block cover for 310A, 380A, 570A open style 3-pole blocks, and <a href="#">HPB106-3</a>                                     | 1   | 1.6         | \$06#1:  |
| <a href="#">PBC71</a>                                            | Power distribution block cover for all 760A open style 1-pole and 3-pole blocks. 1 pole block requires 1 cover. 3-pole block requires 3 covers | 1   | 0.9         | \$06#2:  |

| Open Style Power Distribution Block General Specifications |                        |
|------------------------------------------------------------|------------------------|
| Wire type                                                  | 75°C* Copper           |
| Voltage                                                    | 600 VAC or VDC maximum |
| Mounting                                                   | Surface mount          |

\*Note: Amp Rating based on NEC table 310.16 for 75°C copper wire.





# PB Series Edison Open-Style Terminal Blocks Specifications

| UL Series Wire and Torque Range Specifications |                                                 |                    |                     |         |                                                          |                    |                                                                              |                     |
|------------------------------------------------|-------------------------------------------------|--------------------|---------------------|---------|----------------------------------------------------------|--------------------|------------------------------------------------------------------------------|---------------------|
| Part Number                                    | Line                                            |                    |                     |         | Load                                                     |                    |                                                                              |                     |
|                                                | CU Wire Range                                   | Torque lb-in [N·m] | Trim Length in [mm] | Hex Key | CU Wire Range*                                           | Torque lb-in [N·m] | Trim Length in [mm]                                                          | Hex Key, Slot, Stud |
| <a href="#">PB1011</a>                         | 2/0 to 8 AWG<br>70 to 10 mm <sup>2</sup>        | 110 [12.4]         | 0.70 [17.8]         | 3/16"   | 2/0 to 8 AWG<br>70 to 10 mm <sup>2</sup>                 | 110 [12.4]         | 0.70 [17.8]                                                                  | 3/16" Hex           |
| <a href="#">PB1012</a>                         |                                                 |                    |                     |         |                                                          |                    |                                                                              |                     |
| <a href="#">PB1013</a>                         |                                                 |                    |                     |         |                                                          |                    |                                                                              |                     |
| <a href="#">PB1041</a>                         | 2/0 to 8 AWG<br>70 to 10 mm <sup>2</sup>        | 120 [13.6]         | 0.670 [17.0]        | 3/16"   | 4 to 6 AWG, 25 to 16 mm <sup>2</sup>                     | 35 [4.0]           | 0.470 [11.9] top row,<br>0.780 [19.8] bottom row                             | Slot                |
| <a href="#">PB1042</a>                         |                                                 |                    |                     |         | 8 AWG, 10 mm <sup>2</sup>                                | 25 [2.8]           |                                                                              |                     |
| <a href="#">PB1043</a>                         |                                                 |                    |                     |         | 10 to 14 AWG, 6 to 2.5 mm <sup>2</sup>                   | 20 [2.3]           |                                                                              |                     |
| <a href="#">PB3061</a>                         | 350 kcmil to 4 AWG<br>185 to 25 mm <sup>2</sup> | 275 [31.1]         | 0.90 [22.9]         | 5/16"   | 4 to 6 AWG, 25 to 16 mm <sup>2</sup>                     | 35 [4.0]           | 1.00 [25.4] top row<br>0.45 [11.43] bottom row                               | Slot                |
| <a href="#">PB3062</a>                         |                                                 |                    |                     |         | 8 AWG, 10 mm <sup>2</sup>                                | 25 [2.8]           |                                                                              |                     |
| <a href="#">PB3063</a>                         |                                                 |                    |                     |         | 10 to 12 AWG, 6 to 4 mm <sup>2</sup>                     | 20 [2.3]           |                                                                              |                     |
| <a href="#">PB3121</a>                         | 350 kcmil to 4 AWG<br>185 to 25 mm <sup>2</sup> | 275 [31.1]         | 0.90 [22.9]         | 5/16"   | 4 to 6 AWG, 25 to 16 mm <sup>2</sup>                     | 35 [4.0]           | 0.450 [11.4] top row,<br>0.630 [16.0] middle row,<br>0.920 [23.4] bottom row | Slot                |
| <a href="#">PB3122</a>                         |                                                 |                    |                     |         | 8 AWG, 10 mm <sup>2</sup>                                | 25 [2.8]           |                                                                              |                     |
| <a href="#">PB3123</a>                         |                                                 |                    |                     |         | 10 to 14 AWG, 6 to 2.5 mm <sup>2</sup>                   | 20 [2.3]           |                                                                              |                     |
| <a href="#">PB4011</a>                         | 500 kcmil to 6 AWG<br>300 to 16 mm <sup>2</sup> | 500 [56.5]         | —                   | —       | —                                                        | —                  | —                                                                            | Stud                |
| <a href="#">PB4012</a>                         |                                                 |                    |                     |         |                                                          |                    |                                                                              |                     |
| <a href="#">PB4013</a>                         |                                                 |                    |                     |         |                                                          |                    |                                                                              |                     |
| <a href="#">PB5121</a>                         | 300 kcmil to 4 AWG<br>185 to 25 mm <sup>2</sup> | 275 [31.1]         | —                   | —       | 4 to 14 AWG<br>25 mm <sup>2</sup> to 2.5 mm <sup>2</sup> | 20 [2.3]           | —                                                                            | —                   |
| <a href="#">PB5122</a>                         |                                                 |                    |                     |         |                                                          |                    |                                                                              |                     |
| <a href="#">PB5123</a>                         |                                                 |                    |                     |         |                                                          |                    |                                                                              |                     |
| <a href="#">PB7121</a>                         | 500 kcmil to 6 AWG<br>300 to 16 mm <sup>2</sup> | 500 [56.5]         | —                   | —       | 4 to 14 AWG<br>25 mm <sup>2</sup> to 2.5 mm <sup>2</sup> | 35 [4.0]           | —                                                                            | —                   |
| <a href="#">PB7123</a>                         |                                                 |                    |                     |         |                                                          |                    |                                                                              |                     |

\* Wire Range shown is divided based on torque rating. The full range capability spans smallest to largest listed.

| Short-Circuit Current Rating Data |                 |           |                                     |                              |                        |                   |                        |                              |                    |                          |                        |        |        |
|-----------------------------------|-----------------|-----------|-------------------------------------|------------------------------|------------------------|-------------------|------------------------|------------------------------|--------------------|--------------------------|------------------------|--------|--------|
|                                   |                 |           | Line                                | Load                         | Configuration          | Conductors        |                        | Maximum Fuse Class and Amp** |                    |                          |                        |        |        |
| Part Number                       | Number of Poles | Capacity* | Wire Range                          | Wire Range                   | Openings per Pole      | Line AWG or kcmil | Load AWG or kcmil      | Class J (JDL)                | Class T (A3T/ A6T) | Class RK1 (LENRK/ LESRK) | Class RK5 (ECNR/ ECSR) | SCCR   |        |
| <a href="#">PB1011</a>            | 1               | 175A      | 2/0 to 8 AWG<br>70 to 10 mm²        | 2/0 to 8 AWG<br>70 to 10 mm² | 1/1                    | 2/0 to 8          | 2/0 to 8               | 200                          | 200                | 200                      | 60                     | 200 kA |        |
| <a href="#">PB1012</a>            | 2               |           |                                     |                              |                        |                   |                        |                              |                    |                          |                        |        |        |
| <a href="#">PB1013</a>            | 3               |           |                                     |                              |                        |                   |                        |                              |                    |                          |                        |        |        |
| <a href="#">PB1041</a>            | 1               | 175A      | 2/0 to 8 AWG<br>70 to 10 mm²        | 4 to 14 AWG<br>25 to 2.5 mm² | 1/4                    | 2/0 to 8          | 4 to 12                | 200                          | 200                | 200                      | 60                     | 200 kA |        |
| <a href="#">PB1042</a>            | 2               |           |                                     |                              |                        |                   | 4 to 14                | 175                          | 175                | 100                      | 60                     | 100 kA |        |
| <a href="#">PB1043</a>            | 3               |           |                                     |                              |                        |                   |                        | 200                          | 200                | 100                      | 60                     | 50 kA  |        |
| <a href="#">PB3061</a>            | 1               | 310A      | 350 kcmil to 4 AWG<br>185 to 25 mm² | 4 to 12 AWG<br>25 to 4 mm²   | 1/6                    | 350 to 4          | 4 to 8                 | 400                          | 400                | 200                      | 100                    | 200 kA |        |
| <a href="#">PB3062</a>            | 2               |           |                                     |                              |                        |                   |                        | 400                          | 400                | 400                      | 100                    | 100 kA |        |
| <a href="#">PB3063</a>            | 3               |           |                                     |                              |                        |                   |                        | 4 to 12                      | 175                | 175                      | 100                    | 60     | 100 kA |
| <a href="#">PB3121</a>            | 1               | 310A      | 350 kcmil to 4 AWG<br>185 to 25 mm² | 4 to 14 AWG<br>25 to 2.5 mm² | 1/12                   | 350 to 4          | 4 to 8                 | 400                          | 400                | 200                      | 100                    | 200 kA |        |
| <a href="#">PB3122</a>            | 2               |           |                                     |                              |                        |                   | 4 to 14                | 175                          | 175                | 100                      | 60                     | 100 kA |        |
| <a href="#">PB3123</a>            | 3               |           |                                     |                              |                        |                   |                        | 175                          | 175                | 100                      | 60                     | 100 kA |        |
| <a href="#">PB4011</a>            | 1               | 380A      | 500 kcmil to 6 AWG<br>240 to 16 mm² | One 3/8" - 16 x 1 stud       | One 3/8" - 16 x 1 stud | 500               | One 3/8" - 16 x 1 stud | ***                          | ***                | ***                      | ***                    | 10 kA  |        |
| <a href="#">PB4012</a>            | 2               |           |                                     |                              |                        | 500 to 6          |                        | ***                          | ***                | ***                      | ***                    |        |        |
| <a href="#">PB4013</a>            | 3               |           |                                     |                              |                        |                   |                        | ***                          | ***                | ***                      | ***                    |        |        |
| <a href="#">PB5121</a>            | 1               | 570A      | 300 kcmil to 4 AWG<br>150 to 25 mm² | 4 to 14 AWG<br>25 to 2.5 mm² | 2/12                   | 300               | 4 to 14                | ***                          | ***                | ***                      | ***                    | 10 kA  |        |
| <a href="#">PB5122</a>            | 2               |           |                                     |                              |                        |                   |                        | ***                          | ***                | ***                      | ***                    |        |        |
| <a href="#">PB5123</a>            | 3               |           |                                     |                              |                        | 300 to 4          | 4 to 14                | ***                          | ***                | ***                      | ***                    |        |        |
| <a href="#">PB7121</a>            | 1               | 760A      | 500 kcmil to 6 AWG<br>240 to 16 mm² | 4 to 14 AWG<br>25 to 2.5 mm² | 2/12                   | 500 to 6          | 4 to 14                | ***                          | ***                | ***                      | ***                    | 10 kA  |        |
| <a href="#">PB7123</a>            | 3               |           |                                     |                              |                        |                   |                        | ***                          | ***                | ***                      | ***                    |        |        |

\*Amp ratings are based on NEC® Table 310.16 for 75°C copper wire and UL508A Table 28.1

\*\*Class G 60A or less or Class CC 30A or less fuses are suitable for all SCCR in this table.

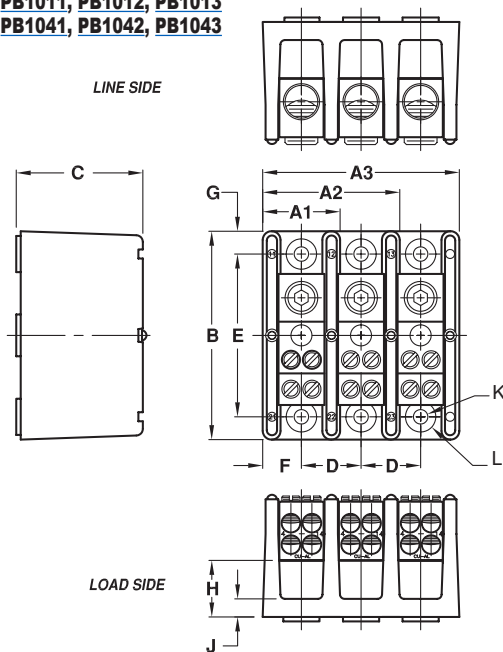
\*\*\*Not High SCCR rated. Refer to UL508A Table SB4.1.

# PB Series Edison Open-Style Terminal Blocks Dimensions

| Edison Open-Style Power Distribution Blocks Dimensions |                 |                 |                  |                 |                 |                 |                 |                  |                 |                  |                 |                                                  |                                                   |
|--------------------------------------------------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|------------------|-----------------|--------------------------------------------------|---------------------------------------------------|
| Part Number                                            | Width           |                 |                  | Length          | Height          |                 |                 |                  |                 |                  |                 |                                                  |                                                   |
|                                                        | A1              | A2              | A3               | B               | C               | D               | E               | F                | G               | H                | J               | K                                                | L                                                 |
| <a href="#">PB1011</a>                                 | 1.06<br>[26.92] | 1.88<br>[47.75] | 2.60<br>[66.04]  | 2.85<br>[72.39] | 1.75<br>[44.45] | 0.81<br>[20.57] | 2.25<br>[57.15] | 0.53<br>[13.46]  | 0.31<br>[7.87]  | 0.84<br>[21.34]  | 0.31<br>[7.87]  | 0.20<br>[5.08]                                   | 0.42<br>[10.67]                                   |
| <a href="#">PB1012</a>                                 |                 |                 |                  |                 |                 |                 |                 |                  |                 |                  |                 |                                                  |                                                   |
| <a href="#">PB1013</a>                                 |                 |                 |                  |                 |                 |                 |                 |                  |                 |                  |                 |                                                  |                                                   |
| <a href="#">PB1041</a>                                 |                 |                 |                  |                 |                 |                 |                 |                  |                 |                  |                 |                                                  |                                                   |
| <a href="#">PB1042</a>                                 |                 |                 |                  |                 |                 |                 |                 |                  |                 |                  |                 |                                                  |                                                   |
| <a href="#">PB1043</a>                                 | 1.96<br>[49.78] | 3.58<br>[90.93] | 5.20<br>[132.08] | 4.0<br>[101.60] | 3.32<br>[84.33] | 1.62<br>[41.15] | 3.37<br>[85.60] | 0.985<br>[25.02] | 0.310<br>[7.87] | 0.780<br>[19.81] | 0.250<br>[6.35] | Slot<br>0.20 [5.08] (w)<br>x<br>0.41 [10.41] (l) | Slot<br>0.42 [10.67] (w)<br>x<br>0.62 [15.75] (l) |
| <a href="#">PB3061</a>                                 |                 |                 |                  |                 |                 |                 |                 |                  |                 |                  |                 |                                                  |                                                   |
| <a href="#">PB3062</a>                                 |                 |                 |                  |                 |                 |                 |                 |                  |                 |                  |                 |                                                  |                                                   |
| <a href="#">PB3063</a>                                 |                 |                 |                  |                 |                 |                 |                 |                  |                 |                  |                 |                                                  |                                                   |
| <a href="#">PB3121</a>                                 |                 |                 |                  |                 |                 |                 |                 |                  |                 |                  |                 |                                                  |                                                   |
| <a href="#">PB3122</a>                                 |                 |                 |                  |                 |                 |                 |                 |                  |                 |                  |                 |                                                  |                                                   |
| <a href="#">PB3123</a>                                 |                 |                 |                  |                 |                 |                 |                 |                  |                 |                  |                 |                                                  |                                                   |
| <a href="#">PB4011</a>                                 |                 |                 |                  |                 |                 |                 |                 |                  |                 |                  |                 |                                                  |                                                   |
| <a href="#">PB4012</a>                                 |                 |                 |                  |                 |                 |                 |                 |                  |                 |                  |                 |                                                  |                                                   |
| <a href="#">PB4013</a>                                 |                 |                 |                  |                 |                 |                 |                 |                  |                 |                  |                 |                                                  |                                                   |
| <a href="#">PB5121</a>                                 |                 |                 |                  |                 |                 |                 |                 |                  |                 |                  |                 |                                                  |                                                   |
| <a href="#">PB5122</a>                                 |                 |                 |                  |                 |                 |                 |                 |                  |                 |                  |                 |                                                  |                                                   |
| <a href="#">PB5123</a>                                 |                 |                 |                  |                 |                 |                 |                 |                  |                 |                  |                 |                                                  |                                                   |

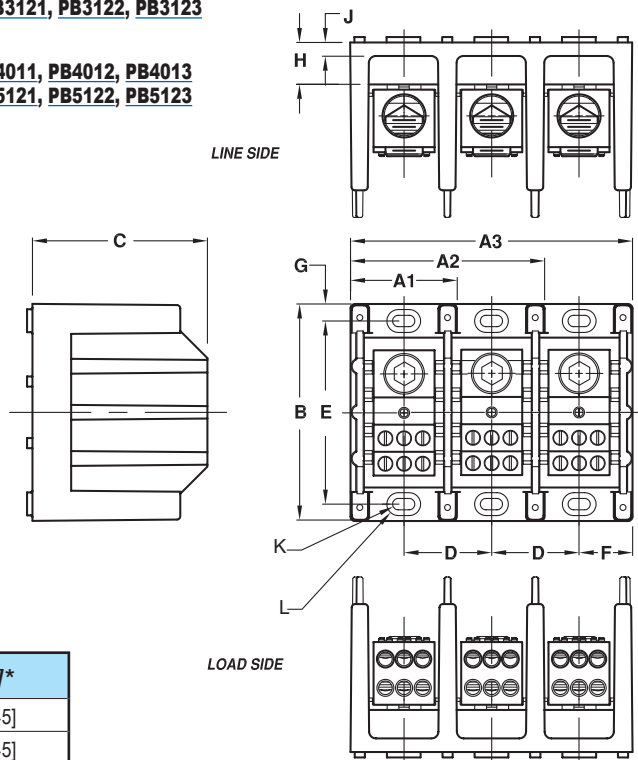
Note: Dimensions are in inches [millimeters]

[PB1011, PB1012, PB1013](#)  
[PB1041, PB1042, PB1043](#)



[PB3061, PB3062, PB3063](#)  
[PB3121, PB3122, PB3123](#)

[PB4011, PB4012, PB4013](#)  
[PB5121, PB5122, PB5123](#)



| Part Number                            | Minimum Enclosure Size in[mm]*          |
|----------------------------------------|-----------------------------------------|
| <a href="#">PB1011, PB1012, PB1013</a> | 16 x 16 x 6.75 [406.4 x 406.4 x 171.45] |
| <a href="#">PB1041, PB1042, PB1043</a> | 16 x 16 x 6.75 [406.4 x 406.4 x 171.45] |
| <a href="#">PB3061, PB3062, PB3063</a> | 24 x 20 x 6.75 [609.6 x 508 x 171.45]   |
| <a href="#">PB3121, PB3122, PB3123</a> | 24 x 20 x 6.75 [609.6 x 508 x 171.45]   |
| <a href="#">PB4011, PB4012, PB4013</a> | N/A                                     |
| <a href="#">PB5121, PB5122, PB5123</a> | N/A                                     |
| <a href="#">PB7121, PB7123</a>         | N/A                                     |

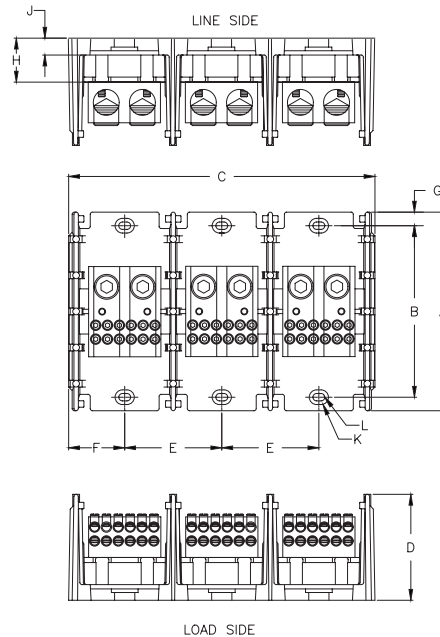
\*Note: Terminal block SCCR determined based on testing in minimum-size enclosure

# PB Series Edison Open-Style Terminal Blocks Dimensions

| Edison Open-Style Power Distribution Blocks Dimensions |         |         |         |         |          |         |         |         |        |         |         |                                               |                                                 |
|--------------------------------------------------------|---------|---------|---------|---------|----------|---------|---------|---------|--------|---------|---------|-----------------------------------------------|-------------------------------------------------|
| Part Number                                            | Width   | Length  | Height  |         |          |         |         |         |        |         |         |                                               |                                                 |
|                                                        | A       | B       | C1      | C2      | C3       | D       | E       | F       | G      | H       | J       | K                                             | L                                               |
| <b>PB7121</b>                                          | 5.5     | 4.75    | 3.10    | 5.79    | 8.48     | 2.93    | 2.69    | 1.55    | 0.38   | 1.19    | 0.44    | Slot: 0.20 [5.08] (w)<br>x<br>0.33 [8.38] (l) | Slot: 0.41 [10.41] (w)<br>x<br>0.53 [13.46] (l) |
| <b>PB7123</b>                                          | [139.7] | [120.7] | [78.74] | [147.1] | [215.39] | [74.42] | [68.33] | [39.37] | [9.65] | [30.23] | [11.18] |                                               |                                                 |

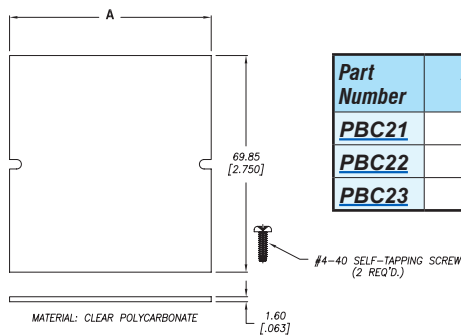
Note: Dimensions are in inches [millimeters]

**PB7121, PB7123**



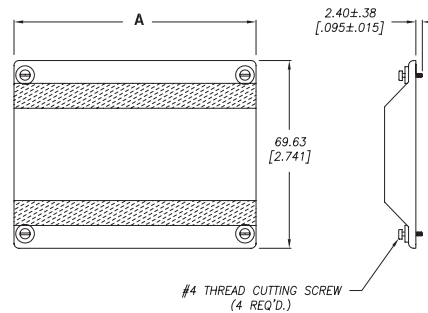
## Covers

Optional Cover for  
**PB1011, PB1012, PB1013**  
**PB1041, PB1042, PB1043**



| Part Number  | A Dimension in [mm] |
|--------------|---------------------|
| <b>PBC21</b> | 0.94 [23.88]        |
| <b>PBC22</b> | 1.75 [44.45]        |
| <b>PBC23</b> | 2.56 [65.02]        |

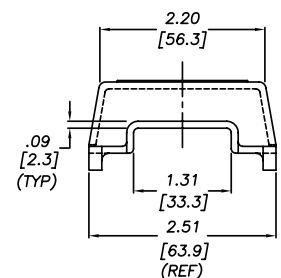
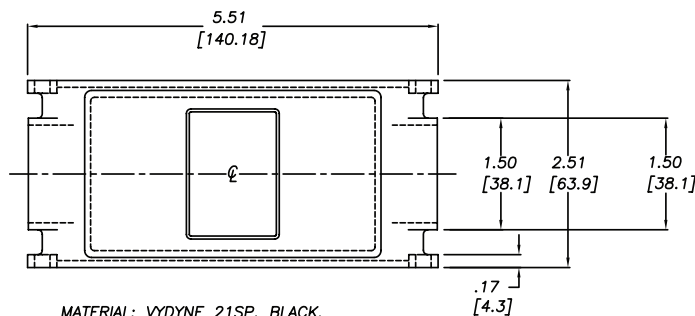
Optional Cover for  
**PB3061, PB3062, PB3063**  
**PB3121, PB3122, PB3123**



**PB4011, PB4012, PB4013**  
**PB5121, PB5122, PB5123**

| Part Number  | A Dimension in [mm] |
|--------------|---------------------|
| <b>PBC31</b> | 2.10 [53.34]        |
| <b>PBC32</b> | 3.72 [94.49]        |
| <b>PBC33</b> | 5.34 [135.64]       |

**PBC71**  
Optional Cover for  
**PB7121 and PB7123**



METRIC  $\pm .13\text{mm}$   
INCHES  $\pm .005"$

# Edison Open-Style Power Distribution Blocks Quick Reference

| Edison Power Distribution Blocks Quick Reference |                           |                         |                         |                         |                         |                         |
|--------------------------------------------------|---------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Openings per pole                                | Type                      | 175 amps                | 310 amps                | 380 amps                | 570 amps                | 760 amps                |
| 1 in<br>1 out                                    | Open UL1059               | PB101x                  | NO                      | NO                      | NO                      | NO                      |
|                                                  | Open UL1953 Listed        | HPB101-x                | HPB101-x                | NO                      | NO                      | NO                      |
|                                                  | Finger Safe UL1953 Listed | <a href="#">EPDB101</a> | <a href="#">EPDB301</a> | NO                      | NO                      | NO                      |
| 1 in<br>1 stud out                               | Open UL1059               | NO                      | NO                      | PB401x                  | NO                      | NO                      |
|                                                  | Open UL1953 Listed        | HPB10S-x                | NO                      | NO                      | NO                      | NO                      |
|                                                  | Finger Safe UL1953 Listed | NO                      | NO                      | NO                      | NO                      | NO                      |
| 2 in<br>2 out                                    | Open UL1059               | NO                      | NO                      | NO                      | NO                      | NO                      |
|                                                  | Open UL1953 Listed        | NO                      | NO                      | NO                      | NO                      | NO                      |
|                                                  | Finger Safe UL1953 Listed | NO                      | NO                      | NO                      | NO                      | <a href="#">EPDB702</a> |
| 1 in<br>4 out                                    | Open UL1059               | PB104x                  | NO                      | NO                      | NO                      | NO                      |
|                                                  | Open UL1953 Listed        | HPB104-x                | HPB104-x                | NO                      | NO                      | NO                      |
|                                                  | Finger Safe UL1953 Listed | <a href="#">EPDB104</a> | NO                      | NO                      | NO                      | NO                      |
| 1 in<br>6 out                                    | Open UL1059               | NO                      | PB306x                  | NO                      | NO                      | NO                      |
|                                                  | Open UL1953 Listed        | HPB106-x                | HPB306-x                | NO                      | NO                      | NO                      |
|                                                  | Finger Safe UL1953 Listed | NO                      | NO                      | <a href="#">EPDB306</a> | NO                      | NO                      |
| 1 in<br>9 out                                    | Open UL1059               | NO                      | NO                      | NO                      | NO                      | NO                      |
|                                                  | Open UL1953 Listed        | NO                      | HPB309-x                | NO                      | NO                      | NO                      |
|                                                  | Finger Safe UL1953 Listed | NO                      | NO                      | NO                      | NO                      | NO                      |
| 1 in<br>12 out                                   | Open UL1059               | NO                      | PB312x                  | NO                      | NO                      | NO                      |
|                                                  | Open UL1953 Listed        | NO                      | HPB312-x                | NO                      | NO                      | NO                      |
|                                                  | Finger Safe UL1953 Listed | NO                      | NO                      | NO                      | NO                      | NO                      |
| 2 in<br>12 out                                   | Open UL1059               | NO                      | NO                      | NO                      | PB512x                  | PB712x                  |
|                                                  | Open UL1953 Listed        | NO                      | NO                      | NO                      | NO                      | NO                      |
|                                                  | Finger Safe UL1953 Listed | NO                      | NO                      | NO                      | <a href="#">EPDB512</a> | NO                      |

# Penn Union Power Distribution Blocks and Splicer/Reducer Blocks

## Features

- Snap lock modular design for easy multi-pole assembly
- Rugged glass-filled reinforced nylon 616 bases and side covers
- Corrosion resistant one-piece aluminum alloy bodies
- Clear flip-up polycarbonate covers (included) for easy visual inspection
- Line- and load-side guards (included) to prevent top/bottom contact
- Dual-rated for aluminum and copper conductors
- DIN rail or panel mounting
- Wide wire ranges allow easy in-line splicing or conductor size reduction
- 100kA UL assigned SCCR
- IP20 finger-safe protection rating

## Ratings

- 600VAC/DC, 90°C AWG conductors
- Suitable for use on the line or load side of the service equipment
- Material temperature rating -40°F to 266°F [-40°C to 130°C]

## Agency Approvals

- Compliant with IEC 60529 and IP-20 standards (requires covers)
- cULus listed AL9CU per UL 1953 for use with copper or aluminum conductors
- UL94V-0 listed
- UL file QPQS/QPQS7.E534364



APDB-14-2/0-1



APDB-212-500-1



ASRB-11-2/0-1



ASRB-22-2/0-1



APDB-CL

| Penn Union Aluminum Power Distribution Blocks (Type APDB) Selection Table |         |                                            |                 |            |                  |                     |
|---------------------------------------------------------------------------|---------|--------------------------------------------|-----------------|------------|------------------|---------------------|
| Part Number                                                               | Price   | Description                                | SCCR Rating (A) | Block Size | Weight (lb [kg]) | Drawing             |
| <a href="#">APDB-112-350-1</a>                                            | \$6apj: | Type APDB<br>Single run with multiple taps | 100,000         | Large      | 1.1 [0.50]       | <a href="#">PDF</a> |
| <a href="#">APDB-14-2/0-1</a>                                             | \$6apz: |                                            |                 | Small      | 0.15 [0.07]      | <a href="#">PDF</a> |
| <a href="#">APDB-14-500-1</a>                                             | \$6apj: |                                            |                 | Large      | 1.2 [0.54]       | <a href="#">PDF</a> |
| <a href="#">APDB-16-500-1</a>                                             | \$6ap_: |                                            |                 | Large      | 1 [0.45]         | <a href="#">PDF</a> |
| <a href="#">APDB-212-500-1</a>                                            | \$6apl: | Type APDB<br>Double run with multiple taps |                 | Large      | 1.1 [0.50]       | <a href="#">PDF</a> |
| <a href="#">APDB-24-500-1</a>                                             | \$6ap?: |                                            |                 | Large      | 1.25 [0.57]      | <a href="#">PDF</a> |
| <a href="#">APDB-26-350-1</a>                                             | \$6ap#: |                                            |                 | Large      | 0.95 [0.43]      | <a href="#">PDF</a> |
|                                                                           |         |                                            |                 |            |                  |                     |

| Penn Union Aluminum Splicer/Reducer Blocks (Type ASRB) Selection Table |         |                   |                 |            |                  |                     |
|------------------------------------------------------------------------|---------|-------------------|-----------------|------------|------------------|---------------------|
| Part Number                                                            | Price   | Description       | SCCR Rating (A) | Block Size | Weight (lb [kg]) | Drawing             |
| <a href="#">ASRB-11-2/0-1</a>                                          | \$6ap.: | Type ASRB, single | 100,000         | Small      | 0.15 [0.07]      | <a href="#">PDF</a> |
| <a href="#">ASRB-11-350-1</a>                                          | \$6aq1: |                   |                 | Medium     | 0.75 [0.34]      | <a href="#">PDF</a> |
| <a href="#">ASRB-11-500-1</a>                                          | \$6aq2: |                   |                 | Medium     | 0.75 [0.34]      | <a href="#">PDF</a> |
| <a href="#">ASRB-22-2/0-1</a>                                          | \$6aq0: | Type ASRB, double |                 | Medium     | 0.75 [0.34]      | <a href="#">PDF</a> |
| <a href="#">ASRB-22-350-1</a>                                          | \$6aq3: |                   |                 | Large      | 1.05 [0.48]      | <a href="#">PDF</a> |
| <a href="#">ASRB-22-500-1</a>                                          | \$6aq4: |                   |                 | Large      | 1.05 [0.48]      | <a href="#">PDF</a> |

| Penn Union Aluminum Splicer/Reducer Blocks (Type APDB/ASRB)<br>Clear Insulating Replacement Covers Selection Table |         |                                            |                  |                     |
|--------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------|------------------|---------------------|
| Part Number                                                                                                        | Price   | Description                                | Weight (lb [kg]) | Drawing             |
| <a href="#">APDB-CS</a>                                                                                            | \$6aq5: | Clear insulating replacement cover, small  | 0.09 [0.04]      | <a href="#">PDF</a> |
| <a href="#">APDB-CM</a>                                                                                            | \$6aq6: | Clear insulating replacement cover, medium | 0.33 [0.15]      | <a href="#">PDF</a> |
| <a href="#">APDB-CL</a>                                                                                            | \$6aq7: | Clear insulating replacement cover, large  | 0.47 [0.21]      | <a href="#">PDF</a> |

Note: IP 20 rated insulating cover



# Gladiator GPB2 Terminal Blocks

**Gladiator**  
from AutomationDirect
**GPB2-115P1-6L****GPB2-420P1-11F****GPB2-175P3-6L**

## Features

- Single-pole splitter allows splitting of power main input into several outputs
- Multiple-pole assembling thanks to the interlocking function on each block
- Pre-printed block markers (L1, L2, L3, N, PE, +, -) included
- Allows grouping of several inputs into one output (solar applications)
- Reversible snap-on cover opens in two directions and facilitates identification and wiring
- Space-saving design minimizes panel space requirements
- Fast assembly time
- Modular, touch-proof design eliminates need for bus bars, isolators, fasteners, and protection screens
- Accepts aluminum and copper conductors
- 8kV rated impulse voltage
- Copper wire temperature 75°C [167°F]

## Ratings

- 1000VAC/1500VDC
- UL Flammability Rating UL 94V-0

## Agency Approvals

- UL file # E179129
- UL Flammability Rating UL 94V-0
- EU RoHS Directive 2011/65/EU
- UL 1059
- CSA file #606611



### Single pole

**GPB2-80P1-4L**  
7 connections

**GPB2-115P1-6L**  
8 connections

**GPB2-160P1-6L**  
8 connections

**GPB2-175P1-10L**  
12 connections

**GPB2-255P1-11L and GPB2-335P1-11L**  
12 connections

### Solar

**GPB2-400P1-12L**  
14 connections

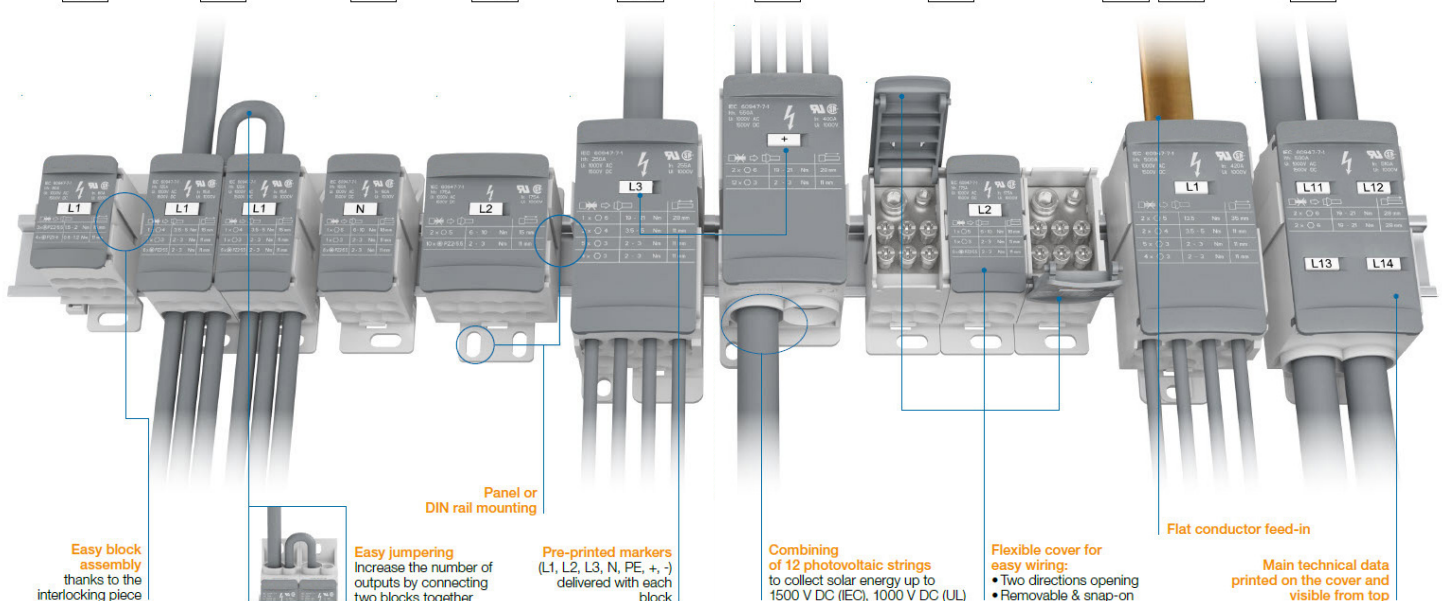
### Three poles

**GPB2-115P3-6L and GPB2-175P3-6L**  
8x3 connections

### Flat conductor

**GPB2-250P1-6F and GPB2-420P1-11F**  
7 and 12 connections

### 2 in/2 out

**GPB2-510P1-2L**  
4 connections


Easy block assembly thanks to the interlocking piece



Easy jumpering Increase the number of outputs by connecting two blocks together

Pre-printed markers (L1, L2, L3, N, PE, +, -) delivered with each block

Combining of 12 photovoltaic strings to collect solar energy up to 1500 V DC (IEC), 1000 V DC (UL)

Flexible cover for easy wiring:  
• Two directions opening  
• Removable & snap-on

Flat conductor feed-in

Main technical data printed on the cover and visible from top

# Gladiator GPB2 Terminal Blocks

**Gladiator**  
from AutomationDirect

## Gladiator GPB2 Terminal Blocks Selection Table

| Part Number                    | Price    | Type             | Maximum Current Rating, IEC (Conductor Size)                                                     | Maximum Current Rating, UL (Cross Section)                                                       | SCCR  | Short Time Withstand Current (IEC Rating $I_{cw}$ , 1s) | Peak Withstand Current | Protection Rating | Weight (lb [g]) | Drawing             |
|--------------------------------|----------|------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------|------------------------|-------------------|-----------------|---------------------|
| <a href="#">GPB2-80P1-4L</a>   | \$6c8s:  | Single pole      | Cu: 80A (16mm <sup>2</sup> )<br>Al: 63A (16mm <sup>2</sup> )                                     | Cu: 80A (4 AWG)                                                                                  | 100kA | 1920A                                                   | 27kA                   | IP20 NEMA 1       | 0.15 [70]       | <a href="#">PDF</a> |
| <a href="#">GPB2-115P1-6L</a>  | \$;6c8t: | Single pole      | Cu: 125A (35mm <sup>2</sup> )<br>Al: 100A (35mm <sup>2</sup> )                                   | Cu: 115A (2 AWG)                                                                                 | 100kA | 4200A                                                   | 30kA                   | IP20 NEMA 1       | 0.27 [122]      | <a href="#">PDF</a> |
| <a href="#">GPB2-115P3-6L</a>  | \$6c8u:  | Three poles      | Cu: 125A (35mm <sup>2</sup> )<br>Al: 100A (35mm <sup>2</sup> )                                   | Cu: 115A (2 AWG)                                                                                 | –     | 4200A                                                   | 30kA                   | IP20 NEMA 1       | 0.81 [367]      | <a href="#">PDF</a> |
| <a href="#">GPB2-160P1-6L</a>  | \$6c8v:  | Single pole      | Cu: 160A (70mm <sup>2</sup> )<br>Al: 135A (70mm <sup>2</sup> )                                   | Cu: 160A (2/0 AWG)                                                                               | 100kA | 6000A                                                   | 30kA                   | IP10 NEMA 1       | 0.26 [120]      | <a href="#">PDF</a> |
| <a href="#">GPB2-175P1-10L</a> | \$6c8x:  | Single pole      | Cu: 175A (70mm <sup>2</sup> )<br>Al: 135A (70mm <sup>2</sup> )                                   | Cu: 175A (2/0 AWG)                                                                               | 100kA | 6000A                                                   | 30kA                   | IP10 NEMA 1       | 0.44 [200]      | <a href="#">PDF</a> |
| <a href="#">GPB2-175P3-6L</a>  | \$6c8y:  | Three poles      | Cu: 175A (70mm <sup>2</sup> )<br>Al: 135A (70mm <sup>2</sup> )                                   | Cu: 175A (2/0 AWG)                                                                               | –     | 6000A                                                   | 30kA                   | IP10 NEMA 1       | 0.79 [360]      | <a href="#">PDF</a> |
| <a href="#">GPB2-255P1-11L</a> | \$6c8z:  | Single pole      | Cu: 250A (120mm <sup>2</sup> )<br>Al: 200A (120mm <sup>2</sup> )                                 | Cu: 255A (250 Kcmil)                                                                             | 100kA | 11400A                                                  | 51kA                   | IP10 NEMA 1       | 0.97 [439]      | <a href="#">PDF</a> |
| <a href="#">GPB2-250P1-6F</a>  | \$;6c8j: | Flat conductors  | Cu:<br>(250A / Flexible busbar:<br>6 x 15.5 x 0.8 mm)<br>(208A / Solid busbar:<br>12 x 4 mm, x2) | Cu:<br>(250A / Flexible busbar:<br>6 x 15.5 x 0.8 mm)<br>(160A / Solid busbar:<br>12 x 4 mm, x2) | 100kA | 11400A                                                  | 22.8 kA                | IP20 NEMA 1       | 0.26 [119]      | <a href="#">PDF</a> |
| <a href="#">GPB2-335P1-11L</a> | \$;6c8f: | Single pole      | Cu: 400A (185mm <sup>2</sup> )<br>Al: 300A (185mm <sup>2</sup> )                                 | Cu: 335A (400 Kcmil)                                                                             | 100kA | 18000A                                                  | 51kA                   | IP10 NEMA 1       | 0.94 [425]      | <a href="#">PDF</a> |
| <a href="#">GPB2-400P1-12L</a> | \$6c8_:  | Solar            | Cu: 550A (2 x 95mm <sup>2</sup> )                                                                | Cu: 400A (250 Kcmil)                                                                             | 100kA | 22800A                                                  | 47.88 kA               | IP10 NEMA 1       | 0.45 [202]      | <a href="#">PDF</a> |
| <a href="#">GPB2-420P1-11F</a> | \$6c8#:  | Flat conductors  | Cu: 500A (Flexible busbar:<br>24 x 10 x 1 mm)<br>(Solid busbar:<br>25 x 5 mm, x2)                | Cu: 420A (24 x 10 x 1 mm)                                                                        | 100kA | 28800A                                                  | 43.9kA                 | IP20 NEMA 1       | 1.13 [514]      | <a href="#">PDF</a> |
| <a href="#">GPB2-510P1-2L</a>  | \$;6c8l: | Two in / two out | Cu: 500A (2 x 95mm <sup>2</sup> )                                                                | Cu: 510A (2 x 250 Kcmil)                                                                         | 100kA | 22800A                                                  | 47.88 kA               | IP10 NEMA 1       | 0.49 [224]      | <a href="#">PDF</a> |

### Fuses

|                                | Over Current Protection Fuse<br>Required Class/Max Amp Rating |      |      |     | SCCR, RMS<br>Sym A<br>(Single<br>Phase Only) |
|--------------------------------|---------------------------------------------------------------|------|------|-----|----------------------------------------------|
| Part Number                    | RK1                                                           | RK5  | J    | CC  |                                              |
| <a href="#">GPB2-80P1-4L</a>   | 100A                                                          | 30A  | 110A | 30A | 100kA                                        |
| <a href="#">GPB2-115P1-6L</a>  | 200A                                                          | 100A | 250A | 30A |                                              |
| <a href="#">GPB2-115P3-6L</a>  |                                                               |      |      |     |                                              |
| <a href="#">GPB2-160P1-6L</a>  |                                                               |      |      |     |                                              |
| <a href="#">GPB2-175P3-6L</a>  |                                                               |      |      |     |                                              |
| <a href="#">GPB2-175P1-10L</a> | 400A                                                          | 200A | 600A | 30A |                                              |
| <a href="#">GPB2-255P1-11L</a> |                                                               |      |      |     |                                              |
| <a href="#">GPB2-335P1-11L</a> |                                                               |      |      |     |                                              |
| <a href="#">GPB2-400P1-12L</a> |                                                               |      |      |     |                                              |
| <a href="#">GPB2-420P1-11F</a> |                                                               |      |      |     |                                              |
| <a href="#">GPB2-510P1-2L</a>  |                                                               |      |      |     |                                              |
| <a href="#">GPB2-250P1-6F</a>  | 600A                                                          | 200A | 600A | 30A |                                              |

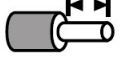
### Usage Conditions

|                                |                             |
|--------------------------------|-----------------------------|
| Installation Temperature Range | -5 to 40°C [23 to 104°F]    |
| Operating Temperature Range    | -55 to 110°C [-67 to 230°F] |

# Gladiator GPB2 Terminal Blocks

**Gladiator**  
from AutomationDirect

## Gladiator GPB2 Terminal Blocks Wire and Torque Specifications

| Part Number                           |        | Number of Connections | Size (Ø mm [in]) | Wire Type                                                                         |                                                                                   | Wire Stripping Length (mm [in])                                                    | Tool (mm [in])                                                                                   | Torque                                |
|---------------------------------------|--------|-----------------------|------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------|
|                                       |        |                       |                  |  |  |  |                                                                                                  |                                       |
| <a href="#"><u>GPB2-80P1-4L</u></a>   | Input  | 3                     | 6.6 [0.26]       | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                        | 2.5 to 16 mm <sup>2</sup><br>[14 to 4 AWG]                                        | 15 [0.59]                                                                          |  5.5 [0.22]   | 1.5 to 2 N•m<br>[13.5 to 18 lb•in]    |
|                                       | Output | 4                     | 4.5 [0.18]       | 2.5 to 6 mm <sup>2</sup><br>[14 to 10 AWG]                                        | 2.5 to 6 mm <sup>2</sup><br>[14 to 10 AWG]                                        | 11 [0.43]                                                                          |  4 [0.16]     | 0.8 to 1.2 N•m<br>[7.2 to 10.8 lb•in] |
| <a href="#"><u>GPB2-115P1-6L</u></a>  | Input  | 1                     | 9.8 [0.39]       | 10 to 35 mm <sup>2</sup><br>[8 to 2 AWG]                                          | 10 to 35 mm <sup>2</sup><br>[8 to 2 AWG]                                          | 15 [0.59]                                                                          |  4 [0.16]     | 3.5 to 5 N•m<br>[31 to 44 lb•in]      |
|                                       | Output | 1                     | 6.8 [0.27]       | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                        | 6 to 16 mm <sup>2</sup><br>[10 to 6 AWG]                                          | 11 [0.43]                                                                          |  3 [0.12]     | 2 to 3 N•m<br>[18 to 26.5 lb•in]      |
|                                       |        | 6                     | 6.4 [0.25]       | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                        | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                        | 11 [0.43]                                                                          |  5 [0.22]     | 2 to 3 N•m<br>[18 to 26.5 lb•in]      |
| <a href="#"><u>GPB2-115P3-6L</u></a>  | Input  | 1                     | 9.8 [0.39]       | 10 to 35 mm <sup>2</sup><br>[8 to 2 AWG]                                          | 10 to 35 mm <sup>2</sup><br>[8 to 2 AWG]                                          | 15 [0.59]                                                                          |  4 [0.16]     | 3.5 to 5 N•m<br>[31 to 44 lb•in]      |
|                                       | Output | 1                     | 6.8 [0.27]       | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                        | 6 to 16 mm <sup>2</sup><br>[10 to 6 AWG]                                          | 11 [0.43]                                                                          |  3 [0.12]   | 2 to 3 N•m<br>[18 to 26.5 lb•in]      |
|                                       |        | 6                     | 6.4 [0.25]       | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                        | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                        | 11 [0.43]                                                                          |  5 [0.22]   | 2 to 3 N•m<br>[18 to 26.5 lb•in]      |
| <a href="#"><u>GPB2-160P1-6L</u></a>  | Input  | 1                     | 11.8 [0.46]      | 16 to 50 mm <sup>2</sup><br>[6 to 1/0 AWG]                                        | 16 to 70 mm <sup>2</sup><br>[6 to 2/0 AWG]                                        | 18 [0.71]                                                                          |  5 [0.20]   | 6 to 10 N•m<br>[53 to 88 lb•in]       |
|                                       | Output | 1                     | 6.8 [0.27]       | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                        | 6 to 16 mm <sup>2</sup><br>[10 to 6 AWG]                                          | 11 [0.43]                                                                          |  3 [0.12]   | 2 to 3 N•m<br>[18 to 26.5 lb•in]      |
|                                       |        | 6                     | 6.4 [0.25]       | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                        | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                        | 11 [0.43]                                                                          |  5.5 [0.22] | 2 to 3 N•m<br>[18 to 26.5 lb•in]      |
| <a href="#"><u>GPB2-175P1-10L</u></a> | Input  | 2                     | 11.8 [0.46]      | 10 to 50 mm <sup>2</sup><br>[8 to 1/0 AWG]                                        | 10 to 70 mm <sup>2</sup><br>[6 to 2/0 AWG]                                        | 15 [0.71]                                                                          |  5 [0.20]   | 6 to 10 N•m<br>[53 to 88 lb•in]       |
|                                       | Output | 10                    | 6.4 [0.25]       | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                        | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                        | 11 [0.43]                                                                          |  5.5 [0.22] | 2 to 3 N•m<br>[18 to 26.5 lb•in]      |
| <a href="#"><u>GPB2-175P3-6L</u></a>  | Input  | 1                     | 11.8 [0.46]      | 16 to 50 mm <sup>2</sup><br>[6 to 1/0 AWG]                                        | 16 to 70 mm <sup>2</sup><br>[6 to 2/0 AWG]                                        | 18 [0.71]                                                                          |  5 [0.20]   | 6 to 10 N•m<br>[53 to 88 lb•in]       |
|                                       | Output | 1                     | 6.8 [0.27]       | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                        | 6 to 16 mm <sup>2</sup><br>[10 to 6 AWG]                                          | 11 [0.43]                                                                          |  3 [0.12]   | 2 to 3 N•m<br>[18 to 26.5 lb•in]      |
|                                       |        | 6                     | 6.4 [0.25]       | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                        | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                        | 11 [0.43]                                                                          |  5.5 [0.22] | 2 to 3 N•m<br>[18 to 26.5 lb•in]      |

# Gladiator GPB2 Terminal Blocks

**Gladiator**  
from AutomationDirect

## Gladiator GPB2 Terminal Blocks Wire and Torque Specifications

| Part Number                           |        | Number of Connections | Size (Ø mm [in]) | Wire Type                                                                         |                                                                                   | Wire Stripping Length (mm [in]) | Tool (mm [in])                                                                        |                                                                                     | Torque                             |
|---------------------------------------|--------|-----------------------|------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|
|                                       |        |                       |                  |  |  |                                 |    |  |                                    |
| <a href="#"><u>GPB2-255P1-11L</u></a> | Input  | 1                     | 15.3 [0.60]      | 35 to 95 mm <sup>2</sup><br>[2 to 3/0 AWG]                                        | 35 to 120 mm <sup>2</sup><br>[2 to 250 Kcmil]                                     | 28 [1.10]                       |    | 5.5 [0.22]                                                                          | 19 to 21 N•m<br>[168 to 185 lb•in] |
|                                       |        | 2                     | 8.7 [0.34]       | 2.5 to 25 mm <sup>2</sup><br>[14 to 4 AWG]                                        | 2.5 to 35 mm <sup>2</sup><br>[14 to 2 AWG]                                        | 11 [0.43]                       |    | 4 [0.16]                                                                            | 3.5 to 5 N•m<br>[31 to 44 lb•in]   |
|                                       | Output | 5                     | 6.4 [0.25]       | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                        | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                        | 11 [0.43]                       |    | 3 [0.12]                                                                            | 2 to 3 N•m<br>[18 to 26.5 lb•in]   |
|                                       |        | 4                     | 5.7 [0.22]       | 2.5 to 10 mm <sup>2</sup><br>[14 to 8 AWG]                                        | 2.5 to 10 mm <sup>2</sup><br>[14 to 8 AWG]                                        | 11 [0.43]                       |    | 3 [0.12]                                                                            | 2 to 3 N•m<br>[18 to 26.5 lb•in]   |
| <a href="#"><u>GPB2-335P1-11L</u></a> | Input  | 1                     | 18.8 [0.74]      | 95 to 150 mm <sup>2</sup><br>[3/0 to 300 Kcmil]                                   | 95 to 185 mm <sup>2</sup><br>[3/0 to 400 Kcmil]                                   | 28 [1.10]                       |    | 8 [0.31]                                                                            | 25 N•m<br>[221 lb•in]              |
|                                       |        | 2                     | 8.7 [0.34]       | 2.5 to 25 mm <sup>2</sup><br>[14 to 4 AWG]                                        | 2.5 to 35 mm <sup>2</sup><br>[14 to 2 AWG]                                        | 11 [0.43]                       |    | 4 [0.16]                                                                            | 3.5 to 5 N•m<br>[31 to 44 lb•in]   |
|                                       | Output | 5                     | 6.4 [0.25]       | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                        | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                        | 11 [0.43]                       |    | 3 [0.12]                                                                            | 2 to 3 N•m<br>[18 to 26.5 lb•in]   |
|                                       |        | 4                     | 5.7 [0.22]       | 2.5 to 10 mm <sup>2</sup><br>[14 to 8 AWG]                                        | 2.5 to 10 mm <sup>2</sup><br>[14 to 8 AWG]                                        | 11 [0.43]                       |    | 3 [0.12]                                                                            | 2 to 3 N•m<br>[18 to 26.5 lb•in]   |
| <a href="#"><u>GPB2-400P1-12L</u></a> | Input  | 2                     | 15.5 [0.59]      | 25 to 95 mm <sup>2</sup><br>[4 to 3/0 AWG]                                        | 25 to 120 mm <sup>2</sup><br>[4 to 250 Kcmil]                                     | 28 [1.1]                        |    | 6 [0.24]                                                                            | 19 to 21 N•m<br>[168 to 185 lb•in] |
|                                       | Output | 12                    | 6.6 [0.26]       | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                        | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                        | 11 [0.43]                       |  | 3 [0.19]                                                                            | 2 to 3 N•m<br>[18 to 26.5 lb•in]   |
| <a href="#"><u>GPB2-510P1-2L</u></a>  | Input  | 2                     | 15.5 [0.59]      | 25 to 95 mm <sup>2</sup><br>[4 to 3/0 AWG]                                        | 25 to 120 mm <sup>2</sup><br>[4 to 250 Kcmil]                                     | 28 [1.1]                        |  | 6 [0.24]                                                                            | 19 to 21 N•m<br>[168 to 185 lb•in] |
|                                       | Output | 2                     | 15.5 [0.59]      | 25 to 95 mm <sup>2</sup><br>[4 to 3/0 AWG]                                        | 25 to 120 mm <sup>2</sup><br>[4 to 250 Kcmil]                                     | 28 [1.1]                        |  | 6 [0.24]                                                                            | 19 to 21 N•m<br>[168 to 185 lb•in] |

## Gladiator GPB2 Terminal Blocks (Flat Entry) Wire and Torque Specifications

| Part Number                           |        | Number of Connections | Size (mm [in])              | Wire Type                                                                           |                                                                                     |                                                                                       | Wire Stripping Length (mm [in]) | Tool (mm [in])                                                                        | Torque                           |
|---------------------------------------|--------|-----------------------|-----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------|----------------------------------|
|                                       |        |                       |                             |  |  |  |                                 |                                                                                       |                                  |
| <a href="#"><u>GPB2-250P1-6F</u></a>  | Input  | 1                     | 15.5 x 7.5<br>[0.59 x 0.28] | 12 x 4 mm<br>[8 to 2 AWG]                                                           |                                                                                     | 3 x 9 x 0.8 mm to<br>6 x 15.5 x 0.8 mm                                                | 15 [0.59]                       |  | 13.5 N•m<br>[120 lb•in]          |
|                                       | Output | 6                     | 6.6 [0.26]                  | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                          |                                                                                     | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                            | 11 [0.43]                       |  | 2 to 3 N•m<br>[18 to 26.5 lb•in] |
| <a href="#"><u>GPB2-420P1-11F</u></a> | Input  | 1                     | 20 x 10.8<br>[1.02 x 0.43]  | 12 x 4 mm up to<br>(2x) 25 x 5 mm                                                   |                                                                                     | 3 x 9 x 0.8 mm to<br>6 x 15.5 x 0.8 mm                                                | 35 [1.38]                       |  | 13.5 N•m<br>[119.5 lb•in]        |
|                                       |        | 2                     | 8.69 [0.34]                 | 2.5 to 25 mm <sup>2</sup><br>[14 to 4 AWG]                                          |                                                                                     | 2.5 to 35 mm <sup>2</sup><br>[14 to 2 AWG]                                            | 11 [0.43]                       |  | 3.5 to 5 N•m<br>[31 to 44 lb•in] |
|                                       | Output | 4                     | 5.7 [0.22]                  | 2.5 to 10 mm <sup>2</sup><br>[14 to 8 AWG]                                          |                                                                                     | 2.5 to 10 mm <sup>2</sup><br>[14 to 8 AWG]                                            | 11 [0.43]                       |  | 2 to 3 N•m<br>[18 to 26.5 lb•in] |
|                                       |        | 5                     | 6.59 [0.26]                 | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                          |                                                                                     | 2.5 to 16 mm <sup>2</sup><br>[14 to 6 AWG]                                            | 11 [0.43]                       |  | 2 to 3 N•m<br>[18 to 26.5 lb•in] |

## Wiring Specifications

|                                                                                                                                                                     |                                                                                                                                                     |                                                                                                                                   |                                                                                                                                          |                                                                                                      |                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <br><b>NOT ALLOWED:</b><br>Flexible without ferrule<br>(IEC V-K & UL: Class 5/6) | <br>Flexible with insulated ferrule<br>(IEC V-K & UL: Class 5/6) | <br>Rigid solid<br>(IEC V-U Class 1, UL solid) | <br>Rigid stranded<br>(IEC V-R Class 2, UL Class B/C) | <br>Solid busbar | <br>Flexible busbar |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|

**Allen Key****Posidriv  
Flat Screwdriver**

# Gladiator GPB1 Terminal Blocks

**Gladiator**  
from AutomationDirect



**GPB1-85P1-15S**

## Features

- Single-pole 7, 15 and 16 connections
- Push-in and spring technology
- Three mounting options: horizontal DIN rail, vertical DIN rail, or panel mount with screws
- Pre-printed block markers (L1, L2, L3, N, PE, +, -, red, blue and green) included
- Increased wiring visibility due to in-line connection and front access
- Hands-free wiring with or without screwdriver
- Compatible with KN-EB4 end brackets
- Built-in voltage test point
- Push-in connections save installation time
- Modular, touch-proof design reduces the need for bus bars, isolators, fasteners, and protection screens
- Copper wire temperature 75°C [167°F]

## Ratings

- Up to 130A, 1000VAC/1500VDC
- UL Flammability Rating UL 94V-0

## Agency Approvals

- UL file # E179129
- EU RoHS Directive 2011/65/EU
- UL 1059
- CSA file # 606611



**Gladiator GPB1 Terminal Blocks Selection Table**

| Part Number                    | Price   | Rated Current and Voltage (IEC) | Rated Current and Voltage (UL) | Rated Cross Section                                                               |        |                                                                                   |      |                                                                                    |       |                                                                                     |      | Protection Rating | Weight (lb [g]) | Drawing             |
|--------------------------------|---------|---------------------------------|--------------------------------|-----------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|------|-------------------|-----------------|---------------------|
|                                |         |                                 |                                |  |        |  |      |  |       |  |      |                   |                 |                     |
|                                |         |                                 |                                | Flexible Without Ferrule                                                          |        | Flexible With Insulated Ferrule                                                   |      | Flexible With Twin Ferrule                                                         |       | Rigid Solid or Stranded                                                             |      |                   |                 |                     |
|                                |         |                                 |                                | #                                                                                 | mm²    | mm²                                                                               | AWG  | mm²                                                                                | AWG   | mm²                                                                                 | AWG  |                   |                 |                     |
| <a href="#">GPB1-85P1-7S</a>   | \$6c87: | 76A<br>1000VAC<br>1500VDC       | 85A<br>1000V                   | 3                                                                                 | 1.5-16 | 1.5-16                                                                            | 16-6 | 1.5-6                                                                              | 16-10 | 1.5-25                                                                              | 16-4 | IP20              | 0.15 [68]       | <a href="#">PDF</a> |
|                                |         |                                 |                                | 4                                                                                 | 1.5-10 | 1.5-10                                                                            | 16-8 | 1.5-4                                                                              | 16-12 | 1.5-16                                                                              | 16-6 |                   |                 |                     |
| <a href="#">GPB1-85P1-15S</a>  | \$6c87: | 76A<br>1000VAC<br>1500VDC       | 85A<br>1000V                   | 3                                                                                 | 1.5-16 | 1.5-16                                                                            | 16-6 | 1.5-6                                                                              | 16-10 | 1.5-25                                                                              | 16-4 | IP20              | 0.30 [136.1]    | <a href="#">PDF</a> |
|                                |         |                                 |                                | 12                                                                                | 1.5-10 | 1.5-10                                                                            | 16-8 | 1.5-4                                                                              | 16-12 | 1.5-16                                                                              | 16.6 |                   |                 |                     |
| <a href="#">GPB1-130P1-16S</a> | \$6c90: | 125A<br>1000VAC<br>1000VDC      | 130A<br>600V                   | 2*                                                                                | 10-35  | 10-35                                                                             | 8-1  | N/A                                                                                | N/A   | 10-35                                                                               | 8-1  | IP20              | 0.40 [181.4]    | <a href="#">PDF</a> |
|                                |         |                                 |                                | 2                                                                                 | 1.5-16 | 1.5-16                                                                            | 16-6 | 1.5-6                                                                              | 16-10 | 1.5-16                                                                              | 16-6 |                   |                 |                     |
|                                |         |                                 |                                | 12                                                                                | 1.5-10 | 1.5-10                                                                            | 16-8 | 1.5-4                                                                              | 16-12 | 1.5-16                                                                              | 16-6 |                   |                 |                     |

\* The 2x10 35mm<sup>2</sup> connections (located on the left side) utilize screw clamp technology.

## Gladiator GPB1 Terminal Blocks Mounting and Torque

|                                                                                                      |                                                                                     |                                       |
|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|
| <b>Rail</b>                                                                                          |  | TH 35-7.5<br>TH 35-15                 |
| <b>Wire Stripping Length</b>                                                                         |  | Screw connection: 17mm [0.67 in]      |
|                                                                                                      |                                                                                     | PI-Spring connection: 15mm [0.591 in] |
| <b>Tool</b>                                                                                          |                                                                                     |                                       |
| <b>For Screw Connection</b>                                                                          |  | Allen key<br>Ø 4mm<br>Ø 0.157 in      |
| <b>For PI-Spring Connection<br/>(Tool for installation and removal<br/>of wires without ferrule)</b> |  | Flat screwdriver<br>Ø 4mm<br>Ø 0.157  |
| <b>Torque</b>                                                                                        |                                                                                     |                                       |
| <b>25-35 mm<sup>2</sup><br/>(4-1 AWG)</b>                                                            |                                                                                     | 3.5-4 N•m<br>[31-35.4 lb•in]          |
| <b>16 mm<sup>2</sup><br/>(6 AWG)</b>                                                                 |                                                                                     | 3-3.5 N•m<br>[26.5-35.4 lb•in]        |
| <b>10 mm<sup>2</sup><br/>(8 AWG)</b>                                                                 |                                                                                     | 3-3.5 N•m<br>[26.5-35.4 lb•in]        |

## Usage Conditions

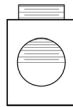
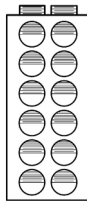
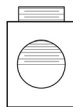
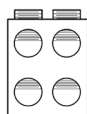
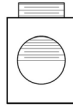
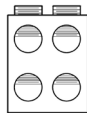
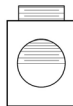
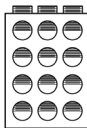
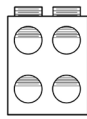
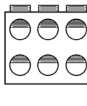
|                                       |                             |
|---------------------------------------|-----------------------------|
| <b>Installation Temperature Range</b> | -5 to 40°C [23 to 104°F]    |
| <b>Operating Temperature Range</b>    | -55 to 110°C [-67 to 230°F] |

## Fuses

| Over Current Protection Fuse<br>Required Class/Max Amp Rating |     |      |     | SCCR, RMS<br>Sym A<br>(Single<br>Phase Only) |
|---------------------------------------------------------------|-----|------|-----|----------------------------------------------|
| RK1                                                           | RK5 | J    | CC  |                                              |
| 200A                                                          | 60A | 200A | 30A | 100kA                                        |



# Penn Union Power Distribution Blocks

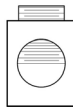
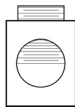
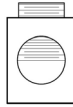
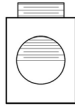
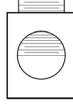
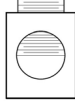
| Penn Union Aluminum Power Distribution Blocks (Type APDB) Specifications |                 |                                                                                     |          |                 |                                                                                     |          |                     |            |                                                     |        |      |
|--------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|----------|-----------------|-------------------------------------------------------------------------------------|----------|---------------------|------------|-----------------------------------------------------|--------|------|
| Part Number                                                              | Run (Line Side) |                                                                                     |          | Tap (Load Side) |                                                                                     |          | Amp Rating Per Pole | Block Size | Torque                                              |        | Fuse |
|                                                                          | Wire Range      | Openings Per Pole                                                                   | Hex Size | Wire Range      | Openings Per Pole                                                                   | Hex Size |                     |            | Wire Range                                          | Torque |      |
| <a href="#">APDB-112-350-1</a>                                           | 350 kcmil-6     |    | 3/8      | 4 - 14          |    | Slot     | 310A                | Large      | Line side:                                          |        |      |
|                                                                          |                 |                                                                                     |          |                 |                                                                                     |          |                     |            | (1) 350 kcmil - 6 AWG 375 in•lb                     |        |      |
|                                                                          |                 |                                                                                     |          |                 |                                                                                     |          |                     |            | Load side:                                          |        |      |
|                                                                          |                 |                                                                                     |          |                 |                                                                                     |          |                     |            | (12) 4-8 AWG 35 in•lb<br>(12) 10-14 AWG 20 in•lb    |        |      |
| <a href="#">APDB-14-2/0-1</a>                                            | 2/0-14 AWG      |    | 3/16     | 4 - 14          |    | Slot     | 175A                | Small      | Line side:                                          |        |      |
|                                                                          |                 |                                                                                     |          |                 |                                                                                     |          |                     |            | (1) 2/0-8 AWG 120 in•lb<br>(1) 10-14 AWG 20 in•lb   |        |      |
|                                                                          |                 |                                                                                     |          |                 |                                                                                     |          |                     |            | Load side:                                          |        |      |
|                                                                          |                 |                                                                                     |          |                 |                                                                                     |          |                     |            | (4) 4-8 AWG 35 in•lb<br>(4) 10-14 AWG 20 in•lb      |        |      |
| <a href="#">APDB-14-500-1</a>                                            | 500 kcmil-4     |    | 3/8      | 4/0 - 6         |    | 3/16     | 380A                | Large      | Line side:                                          |        |      |
|                                                                          |                 |                                                                                     |          |                 |                                                                                     |          |                     |            | (1) 500 kcmil - 4AWG 443 in•lb                      |        |      |
|                                                                          |                 |                                                                                     |          |                 |                                                                                     |          |                     |            | Load side:                                          |        |      |
|                                                                          |                 |                                                                                     |          |                 |                                                                                     |          |                     |            | (4) 4/0 -1/0 AWG 225 in•lb<br>(4) 1-6 AWG 120 in•lb |        |      |
| <a href="#">APDB-16-500-1</a>                                            | 500 kcmil-4     |  | 3/8      | 2/0 - 14        |  | 3/16     | 380A                | Large      | Line side:                                          |        |      |
|                                                                          |                 |                                                                                     |          |                 |                                                                                     |          |                     |            | (1) 500 kcmil - 4AWG 443 in•lb                      |        |      |
|                                                                          |                 |                                                                                     |          |                 |                                                                                     |          |                     |            | Load side:                                          |        |      |
|                                                                          |                 |                                                                                     |          |                 |                                                                                     |          |                     |            | (6) 2/0-8 AWG 120 in•lb<br>(6) 10-14 AWG 20 in•lb   |        |      |
| <a href="#">APDB-212-500-1</a>                                           | 500 kcmil-4     |  | 3/8      | 4 - 14          |  | Slot     | 760A                | Large      | Line side:                                          |        |      |
|                                                                          |                 |                                                                                     |          |                 |                                                                                     |          |                     |            | (2) 500 kcmil - 4AWG 443 in•lb                      |        |      |
|                                                                          |                 |                                                                                     |          |                 |                                                                                     |          |                     |            | Load side:                                          |        |      |
|                                                                          |                 |                                                                                     |          |                 |                                                                                     |          |                     |            | (12) 4-8 AWG 35 in•lb<br>(12) 10-14 AWG 20 in•lb    |        |      |
| <a href="#">APDB-24-500-1</a>                                            | 500 kcmil-4     |  | 3/8      | 4/0 - 6         |  | 5/16     | 760A                | Large      | Primary:                                            |        |      |
|                                                                          |                 |                                                                                     |          |                 |                                                                                     |          |                     |            | (2) 500 kcmil - 4AWG 443 in•lb                      |        |      |
|                                                                          |                 |                                                                                     |          |                 |                                                                                     |          |                     |            | Load side:                                          |        |      |
|                                                                          |                 |                                                                                     |          |                 |                                                                                     |          |                     |            | (4) 4/0 -1/0 AWG 225 in•lb<br>(4) 1-6 AWG 120 in•lb |        |      |
| <a href="#">APDB-26-350-1</a>                                            | 350 kcmil-6     |  | 3/8      | 2/0 - 14        |  | 3/16     | 620A                | Large      | Line side:                                          |        |      |
|                                                                          |                 |                                                                                     |          |                 |                                                                                     |          |                     |            | (2) 350 kcmil - 6AWG 375 in•lb                      |        |      |
|                                                                          |                 |                                                                                     |          |                 |                                                                                     |          |                     |            | Load side:                                          |        |      |
|                                                                          |                 |                                                                                     |          |                 |                                                                                     |          |                     |            | (6) 2/0-8 AWG 120 in•lb<br>(6) 10-14 AWG 20 in•lb   |        |      |

| Fuse Class | Amp Rating |
|------------|------------|
| J          | 110        |
| T          | 110        |
| RK1        | 60         |
| RK5        | 30         |
| G          | 60         |
| CC         | 30         |

When protected by a suitable fuse, these power distribution blocks are rated for use on a circuit capable of delivering no more than 100,000 amp RMS symmetrical or DC 600V maximum. Rated for load use.

NOTE: All wire sizes unless noted otherwise are American Wire Gauge (AWG)

# Penn Union Splicer/Reducer Blocks

| Penn Union Aluminum Splicer/Reducer Blocks (Type ASRB) Specifications |                 |                                                                                     |          |                 |                                                                                     |               |                     |            |                                                   |        |      |
|-----------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|----------|-----------------|-------------------------------------------------------------------------------------|---------------|---------------------|------------|---------------------------------------------------|--------|------|
| Part Number                                                           | Run (Line Side) |                                                                                     |          | Tap (Load Side) |                                                                                     |               | Amp Rating Per Pole | Block Size | Torque                                            |        | Fuse |
|                                                                       | Wire Range      | Openings Per Pole                                                                   | Hex Size | Wire Range      | Openings Per Pole                                                                   | Hex Size (in) |                     |            | Wire Range                                        | Torque |      |
| <a href="#"><u>ASRB-11-2/0-1</u></a>                                  | 2/0-14 AWG      |    | 3/16     | 2/0-14 AWG      |    | 3/16          | 175A                | Small      | Line side:                                        |        |      |
|                                                                       |                 |                                                                                     |          |                 |                                                                                     |               |                     |            | (1) 2/0-8 AWG 120 in•lb<br>(1) 10-14 AWG 20 in•lb |        |      |
|                                                                       |                 |                                                                                     |          |                 |                                                                                     |               |                     |            | Load side:                                        |        |      |
|                                                                       |                 |                                                                                     |          |                 |                                                                                     |               |                     |            | (1) 2/0-8 AWG 120 in•lb<br>(1) 10-14 AWG 20 in•lb |        |      |
| <a href="#"><u>ASRB-11-350-1</u></a>                                  | 350 kcmil-6     |    | 3/8      | 350 kcmil-6     |    | 3/8           | 310A                | Medium     | Line side:                                        |        |      |
|                                                                       |                 |                                                                                     |          |                 |                                                                                     |               |                     |            | (1) 350 kcmil - 6AWG 375 in•lb                    |        |      |
|                                                                       |                 |                                                                                     |          |                 |                                                                                     |               |                     |            | Load side:                                        |        |      |
|                                                                       |                 |                                                                                     |          |                 |                                                                                     |               |                     |            | (1) 350 kcmil - 6AWG 375 in•lb                    |        |      |
| <a href="#"><u>ASRB-11-500-1</u></a>                                  | 500 kcmil-4     |   | 3/8      | 500 kcmil-4     |   | 3/8           | 380A                | Medium     | Line side:                                        |        |      |
|                                                                       |                 |                                                                                     |          |                 |                                                                                     |               |                     |            | (1) 500 kcmil - 4AWG 443 in•lb                    |        |      |
|                                                                       |                 |                                                                                     |          |                 |                                                                                     |               |                     |            | Load side:                                        |        |      |
|                                                                       |                 |                                                                                     |          |                 |                                                                                     |               |                     |            | (1) 500 kcmil - 4AWG 443 in•lb                    |        |      |
| <a href="#"><u>ASRB-22-2/0-1</u></a>                                  | 2/0-14 AWG      |  | 3/16     | 2/0-14 AWG      |  | 3/16          | 350A                | Medium     | Line side:                                        |        |      |
|                                                                       |                 |                                                                                     |          |                 |                                                                                     |               |                     |            | (2) 2/0-8 AWG 120 in•lb<br>(2) 10-14 AWG 20 in•lb |        |      |
|                                                                       |                 |                                                                                     |          |                 |                                                                                     |               |                     |            | Load side:                                        |        |      |
|                                                                       |                 |                                                                                     |          |                 |                                                                                     |               |                     |            | (2) 2/0-8 AWG 120 in•lb<br>(2) 10-14 AWG 20 in•lb |        |      |
| <a href="#"><u>ASRB-22-350-1</u></a>                                  | 350 kcmil-6     |  | 3/8      | 350 kcmil-6     |  | 3/8           | 620A                | Large      | Line side:                                        |        |      |
|                                                                       |                 |                                                                                     |          |                 |                                                                                     |               |                     |            | (2) 350 kcmil - 6AWG 375 in•lb                    |        |      |
|                                                                       |                 |                                                                                     |          |                 |                                                                                     |               |                     |            | Load side:                                        |        |      |
|                                                                       |                 |                                                                                     |          |                 |                                                                                     |               |                     |            | (2) 350 kcmil - 6AWG 375 in•lb                    |        |      |
| <a href="#"><u>ASRB-22-500-1</u></a>                                  | 500 kcmil-4     |  | 3/8      | 500 kcmil-4     |  | 3/8           | 760A                | Large      | Line side:                                        |        |      |
|                                                                       |                 |                                                                                     |          |                 |                                                                                     |               |                     |            | (2) 500 kcmil - 4AWG 443 in•lb                    |        |      |
|                                                                       |                 |                                                                                     |          |                 |                                                                                     |               |                     |            | Load side:                                        |        |      |
|                                                                       |                 |                                                                                     |          |                 |                                                                                     |               |                     |            | (2) 500 kcmil - 4AWG 443 in•lb                    |        |      |

| Fuse Class | Amp Rating |
|------------|------------|
| J          | 110        |
| T          | 110        |
| RK1        | 60         |
| RK5        | 30         |
| G          | 60         |
| CC         | 30         |

When protected by a suitable fuse, these power distribution blocks are rated for use on a circuit capable of delivering no more than 100,000 amp RMS symmetrical or DC 600V maximum. Rated for load use.

NOTE: All wire sizes unless noted otherwise are American Wire Gauge (AWG)



# Splicing Connectors

## Splicing Connectors 221 Series LEVER-NUTS®

### Overview

The 221 series LEVER-NUTS® adds a lever to WAGO's CAGE CLAMP® technology allowing for easy opening and closing of the cage clamp. This allows you to quickly and easily connect all conductor types of different cross sections using two-, three-, and five-wire connectors. The 221 series connectors accommodate solid, stranded and fine-stranded conductors in two variants from 12-24AWG and 10-20AWG. You can open WAGO's splicing connectors easily and quickly. Opening the levers on the 221 series requires little effort. This means you can connect conductors quickly without any tools! While connecting the conductor, recessed handles on the sides ensure a secure grip on the connector.

### Features

- More compact, user friendly, and can handle 20A or 30A currents
- Available in 2-, 3-, and 5-wire connectors
- Copper conductors only
- Lever technology eliminates tool use
- With the transparent body, it is easy to inspect the strip length and verify the conductor is completely inserted
- You can mix solid and stranded wire types
- Built-in test points
- 2-year warranty



## Inline Splicing Connectors 221 Series LEVER-NUTS®

The 221 series inline splicing connector combines all the trusted advantages of the 221 series splicing connectors into a slim design. Offering unsurpassed simplicity, speed and reliability, the 221 series provides universal conductor connections – with lever technology that eliminates tools – while offering a visibly secure conductor contact.

### Features

- Has all the advantages of the 221 series - compact and can handle up to 20 Amps
- Transparent body makes it easy to inspect the strip length and verify the conductor is completely inserted
- You can mix solid and stranded wire types
- 2-year warranty

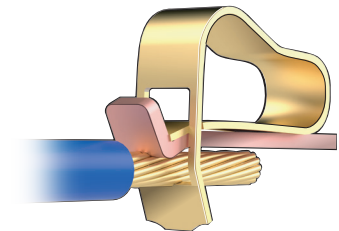


## CAGE CLAMP® Technology

As the world leader in spring pressure connection technology, WAGO offers the perfect connection system to meet your specific needs. As early as 1951, WAGO implemented the concept of using spring pressure instead of screws to connect conductors. With the invention of the CAGE CLAMP®, WAGO set new standards and are continually expanding and optimizing.

### Features

- Shorter wiring times reducing labor costs
- Faster commissioning, reducing upfront costs
- Maintenance-free spring pressure connection technology: Greater system uptime and equipment reliability
- Rugged design: can also be used in harsh environments – anywhere in the world
- 2-year warranty





# Splicing Connectors

## Splicing Connectors 221 Series LEVER-NUTS®

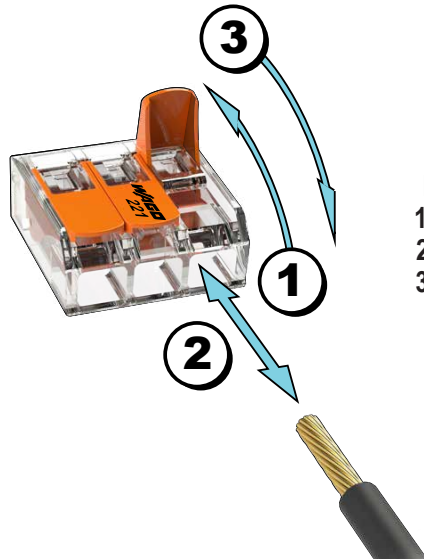
**221-412**

| Splicing Connectors 221 Series LEVER-NUTS® |     |           |                                                               |                    |                   |                             |                  |                     |
|--------------------------------------------|-----|-----------|---------------------------------------------------------------|--------------------|-------------------|-----------------------------|------------------|---------------------|
| Part Number                                | Qty | Price     | Wire Range                                                    | Number of Openings | Number of Commons | Strip Length                | Wiring Direction | Drawing Link        |
| <b>20 Amp Models</b>                       |     |           |                                                               |                    |                   |                             |                  |                     |
| <a href="#">221-412</a>                    | 100 | \$;-6fyj: | 0.2- 4mm²<br>[24-12 AWG]<br>(Solid/Stranded)                  | 2                  | 1                 | 11mm<br>[0.43in]            | Side-Entry       | <a href="#">PDF</a> |
| <a href="#">221-413</a>                    | 50  | \$;-6fyk: |                                                               | 3                  |                   |                             |                  | <a href="#">PDF</a> |
| <a href="#">221-415</a>                    | 25  | \$;-6fyl: |                                                               | 5                  |                   |                             |                  | <a href="#">PDF</a> |
| <a href="#">221-2401</a>                   | 60  | \$;-6fyq: | 0.2-4mm² [20-12 AWG] Solid<br>0.2-2.5mm² [18-12 AWG] Stranded | 2                  |                   |                             | In-Line          | <a href="#">PDF</a> |
| <b>30 Amp Models</b>                       |     |           |                                                               |                    |                   |                             |                  |                     |
| <a href="#">221-612</a>                    | 50  | \$;-6fyn: | 0.5 - 6mm²<br>[20-10 AWG]<br>(Solid/Stranded)                 | 2                  | 1                 | 12 - 14mm<br>[0.47–0.55 in] | Side-Entry       | <a href="#">PDF</a> |
| <a href="#">221-613</a>                    | 30  | \$;-6fyo: |                                                               | 3                  |                   |                             |                  | <a href="#">PDF</a> |
| <a href="#">221-615</a>                    | 15  | \$;-6fyp: |                                                               | 5                  |                   |                             |                  | <a href="#">PDF</a> |

| Splicing Connectors Specifications 221 Series LEVER-NUTS® |                                                                                                     |         |         |          |         |         |         |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------|---------|----------|---------|---------|---------|
| Part Number                                               | 221-412                                                                                             | 221-413 | 221-415 | 221-2401 | 221-612 | 221-613 | 221-615 |
| UL Rated Voltage<br>(per UL 486C)                         | 600V                                                                                                |         |         |          |         |         |         |
| UL Rated Current<br>(per UL 486C)                         | 20A                                                                                                 |         |         |          | 30A     |         |         |
| IEC Rated Voltage<br>(per EN 60664)                       | 450V                                                                                                |         |         |          |         |         |         |
| IEC Rated Current<br>(per EN 60664)                       | 32A                                                                                                 |         |         |          | 41A     |         |         |
| Temperature Range                                         | Surrounding air temperature: 85°C [-40 to 185°F] / Continuous air temperature: 105°C [-40 to 221°F] |         |         |          |         |         |         |
| Connection Technology                                     | CAGE CLAMP®                                                                                         |         |         |          |         |         |         |
| Connector Conductor Material                              | Copper                                                                                              |         |         |          |         |         |         |
| Housing Material                                          | Polycarbonate(PC)                                                                                   |         |         |          |         |         |         |
| Color - Body                                              | Transparent                                                                                         |         |         |          |         |         |         |
| Color - Actuator                                          | Orange                                                                                              |         |         |          |         |         |         |
| Flammability Class<br>(per UL94)                          | V2                                                                                                  |         |         |          |         |         |         |
| Weight                                                    | 1.7g                                                                                                | 2.5g    | 4g      | 2.4g     | 3g      | 4g      | 7.1g    |
| CE Conformity                                             | CE (EN 60947-1 / EN 60947-7-1)                                                                      |         |         |          |         |         |         |
| Approvals                                                 | cULus E69654 / E201573                                                                              |         |         |          |         |         |         |

# WAGO Splicing Connectors

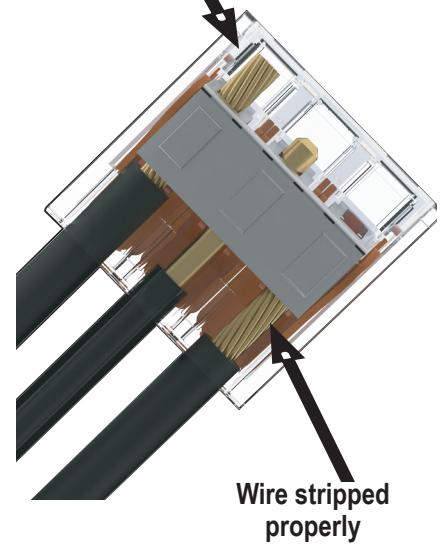
## Splicing Connectors 221 Series LEVER-NUTS®



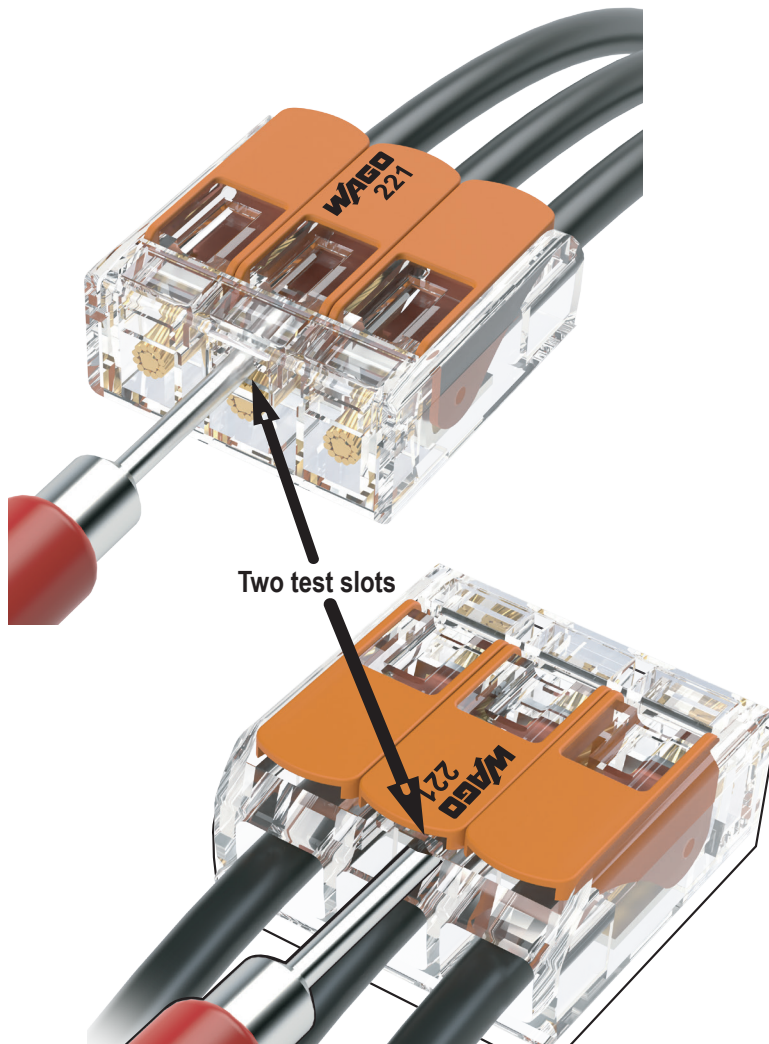
Easy to use  
1. Open lever  
2. Insert wire  
3. Close lever

With the transparent body, it is easy to inspect the strip length and verify the conductor is completely inserted.

Wire inserted properly



Wire stripped properly

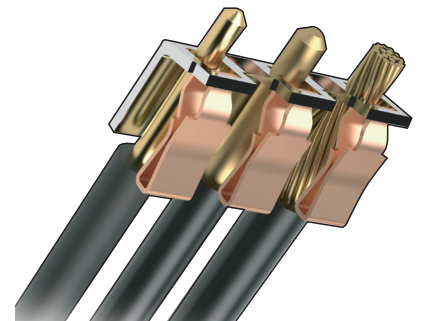


Two test slots

Easily combine various types and sizes of wires: solid, stranded, and flexible.

221-4 series is rated for 20A with a wire range of 24-12 AWG

221-6 series is rated for 30A with a wire range of 20-10 AWG





# WAGO Splicing Connectors

## Splicing Connectors 2773 Series PUSHWIRE®

### Overview

Push your way to fast and reliable connections. The 2773 series uses WAGO's PUSHWIRE® technology to offer a compact and safe way to connect solid and stranded conductors. The compact, clear choice for any wire splicing connection.

### Features

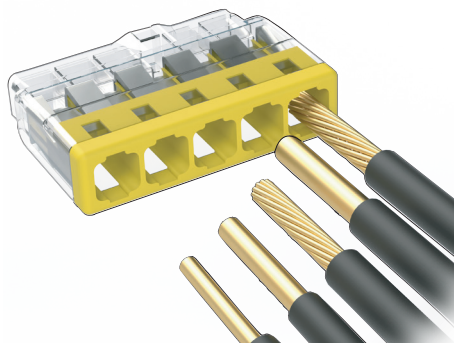
- No twisting, crimping, or taping required
- Takes less time to terminate wires
- Compact design reduces a box fill
- One spring per conductor provides independent contact force against a copper current bar
- You can mix solid and stranded wire types
- Copper conductors only
- With the transparent body, it is easy to inspect the strip length and verify the conductor is completely inserted
- 2-year warranty



### PUSHWIRE® Technology

The 2773 series utilize the PUSHWIRE® technology. Simply push a conductor into the unit – and you are done!

Rigid conductors, such as solid, stranded, and ferruled, and fine-stranded conductors can be terminated by simply pushing them in – no operating tool needed.





# Splicing Connectors

## Splicing Connectors 2773 Series PUSHWIRE®

**2773-404**

| Splicing Connectors 2773 Series PUSHWIRE® |     |           |                                                                              |                    |                   |                   |                  |                     |
|-------------------------------------------|-----|-----------|------------------------------------------------------------------------------|--------------------|-------------------|-------------------|------------------|---------------------|
| Part Number                               | Qty | Price     | Wire Range                                                                   | Number of Openings | Number of Commons | Strip Length      | Wiring Direction | Drawing Link        |
| <b>20 Amp Models</b>                      |     |           |                                                                              |                    |                   |                   |                  |                     |
| <a href="#">2773-402</a>                  | 120 | \$,6fys:  | 0.75-4mm²<br>[20-12 AWG]<br>Solid<br><br>1.5-4mm²<br>[18-12 AWG]<br>Stranded | 2                  | 1                 | 13mm<br>[0.51 in] | Side-Entry       | <a href="#">PDF</a> |
| <a href="#">2773-403</a>                  | 100 | \$,;6fyt: |                                                                              | 3                  |                   |                   |                  | <a href="#">PDF</a> |
| <a href="#">2773-404</a>                  | 80  | \$,6fyu:  |                                                                              | 4                  |                   |                   |                  | <a href="#">PDF</a> |
| <a href="#">2773-405</a>                  | 60  | \$,6fyv:  |                                                                              | 5                  |                   |                   |                  | <a href="#">PDF</a> |
| <a href="#">2773-406</a>                  | 50  | \$,6fyx:  |                                                                              | 6                  |                   |                   |                  | <a href="#">PDF</a> |
| <a href="#">2773-408</a>                  | 40  | \$,6fyy:  |                                                                              | 8                  |                   |                   |                  | <a href="#">PDF</a> |

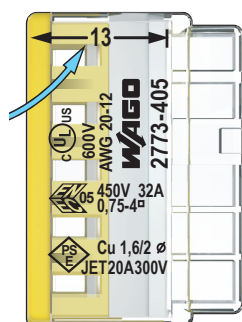
| Splicing Connectors Specifications 2773 Series PUSHWIRE® |                                                                                                               |                          |                          |                          |                          |                          |
|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Part Number                                              | <a href="#">2773-402</a>                                                                                      | <a href="#">2773-403</a> | <a href="#">2773-404</a> | <a href="#">2773-405</a> | <a href="#">2773-406</a> | <a href="#">2773-408</a> |
| <b>UL Rated Voltage</b><br>(per UL 486C)                 | 600V                                                                                                          |                          |                          |                          |                          |                          |
| <b>UL Rated Current</b><br>(per UL 486C)                 | 20A                                                                                                           |                          |                          |                          |                          |                          |
| <b>IEC Rated Voltage</b><br>(per EN 60998)               | 450V                                                                                                          |                          |                          |                          |                          |                          |
| <b>IEC Rated Current</b><br>(per EN 60998)               | 32A                                                                                                           |                          |                          |                          |                          |                          |
| <b>Temperature Range</b>                                 | Processing temperature: -35 to 60°C [-31 to 140°F]<br>Continuous air temperature: -40 to 105°C [-40 to 221°F] |                          |                          |                          |                          |                          |
| <b>Connection Technology</b>                             | PUSHWIRE®                                                                                                     |                          |                          |                          |                          |                          |
| <b>Connector Conductor Material</b>                      | Copper                                                                                                        |                          |                          |                          |                          |                          |
| <b>Housing Material</b>                                  | Polycarbonate (PC)                                                                                            |                          |                          |                          |                          |                          |
| <b>Color - Body</b>                                      | Transparent                                                                                                   |                          |                          |                          |                          |                          |
| <b>Color - Actuator</b>                                  | White                                                                                                         | Orange                   | Red                      | Yellow                   | Gray                     | Light Gray               |
| <b>Flammability Class</b><br>(per UL94)                  | V2                                                                                                            |                          |                          |                          |                          |                          |
| <b>Weight</b>                                            | 1.1g                                                                                                          | 1.6g                     | 2.1g                     | 2.6g                     | 2.6g                     | 3.4g                     |
| <b>CE Conformity</b>                                     | CE (EN 60947-1 / EN 60947-7-1)                                                                                |                          |                          |                          |                          |                          |
| <b>Approvals</b>                                         | cULus E69654 / E201573                                                                                        |                          |                          |                          |                          |                          |

# WAGO Splicing Connectors

## Splicing Connectors 2773 Series PUSHWIRE®

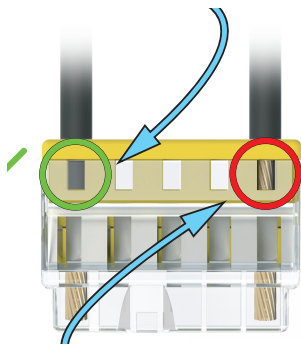
**Strip Length Indication**  
Strip solid or stranded conductor to 13mm [0.51in].

Strip gauge can be found on the side of the connector with the markings.

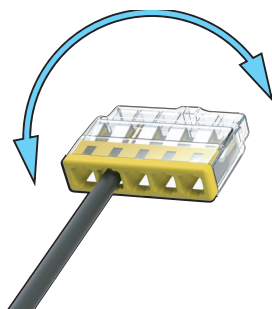


### Visual Inspection Window

The visual inspection window ensures a proper termination every time.

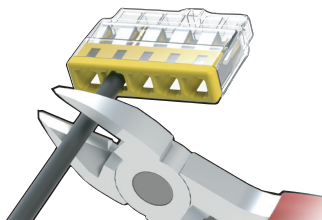


If the conductor is showing in the inspection window, the wire has been stripped incorrectly.



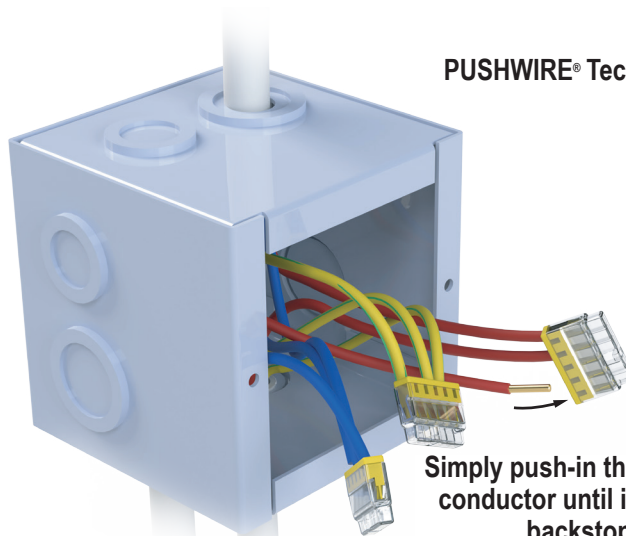
**Solid conductor:**  
Hold wire and twist left and right while pulling the connector.  
Approved for reuse.

### Conductor Removal

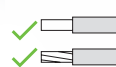


**Stranded conductor:**  
Cut the wire, re-strip, and insert into a new connector.

### PUSHWIRE® Technology



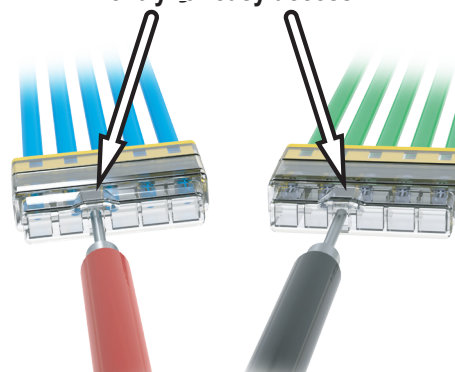
Simply push-in the stripped conductor until it hits the backstop.



Different conductor types can be combined.

Low insertion forces with high retention forces for a secure connection.

**Built-In Test Port**  
Test port located opposite the conductor entry for easy access.





# Wiring Accessories

## Single Insulated Wire Ferrules

These tin-plated copper single insulated ferrules are designed to accommodate conductors with cross-sections ranging from 20AWG to 1AWG (0.5 to 50 mm<sup>2</sup>). Tolerances according to DIN 46228 part 4.

- Heat resistant from -5 to 105°C [23 to 221°F]
- CE / RoHS 2011/65/EU
- UL E333905
- CSA-US 1176867
- Insulating Collar: Polypropylene-fluoropolymer
- Tube: Copper (Cu-DHP)
- Tin Plating: Galvanically tin-plated, bright finish



| Single Insulated Wire Ferrules |             |               |                 |                 |    |      |      |      |      |     |          |
|--------------------------------|-------------|---------------|-----------------|-----------------|----|------|------|------|------|-----|----------|
| Part Number                    |             | Cross Section |                 | Dimensions [mm] |    |      |      |      |      | Qty | Price    |
| Standard                       | DIN         | AWG           | mm <sup>2</sup> | L1              | L2 | D1   | D2   | S1   | S2   |     |          |
| V30AE000006                    | V30AE000038 | 20            | 0.5             | 14              | 8  | 1    | 2.6  | 0.15 | 0.25 | 500 | \$-11ls: |
| V30AE000009                    | V30AE000041 | 18            | 0.75            | 14              | 8  | 1.2  | 2.8  | 0.15 | 0.25 | 500 | \$-11lt: |
| V30AE000013                    | V30AE000045 | 18            | 1.0             | 14              | 8  | 1.4  | 3.0  | 0.15 | 0.25 | 500 | \$-11lu: |
| V30AE000016                    | V30AE000048 | 16            | 1.5             | 14              | 8  | 1.7  | 3.5  | 0.15 | 0.25 | 500 | \$-11lv: |
| V30AE000017                    | V30AE000049 | 16            | 1.5             | 16              | 10 | 1.7  | 3.5  | 0.15 | 0.25 | 500 | \$-11lx: |
| V30AE000052                    | V30AE000052 | 14            | 2.5             | 15              | 8  | 2.2  | 4.2  | 0.15 | 0.25 | 500 | \$-11ly: |
| V30AE000053                    | V30AE000053 | 14            | 2.5             | 19              | 12 | 2.2  | 4.2  | 0.15 | 0.25 | 500 | \$-11lz: |
| V30AE000055                    | V30AE000055 | 12            | 4               | 18              | 10 | 2.8  | 4.8  | 0.2  | 0.3  | 500 | \$-11lj: |
| V30AE000056                    | V30AE000056 | 12            | 4               | 20              | 12 | 2.8  | 4.8  | 0.2  | 0.3  | 500 | \$-11lj: |
| V30AE000025                    | V30AE000058 | 10            | 6               | 20              | 12 | 3.5  | 6.3  | 0.2  | 0.3  | 100 | \$-11ll: |
| V30AE000026                    | V30AE000059 | 10            | 6               | 26              | 18 | 3.5  | 6.3  | 0.2  | 0.3  | 100 | \$-11lm: |
| V30AE000027                    | V30AE000060 | 8             | 10              | 22              | 12 | 4.5  | 7.6  | 0.2  | 0.4  | 100 | \$-11ln: |
| V30AE000028                    | V30AE000061 | 8             | 10              | 28              | 18 | 4.5  | 7.6  | 0.2  | 0.4  | 100 | \$-11lo: |
| V30AE000029                    | V30AE000062 | 6             | 16              | 22              | 12 | 5.8  | 8.8  | 0.2  | 0.4  | 100 | \$-11lp: |
| V30AE000030                    | V30AE000063 | 6             | 16              | 28              | 18 | 5.8  | 8.8  | 0.2  | 0.4  | 100 | \$11n0:  |
| V30AE000031                    | V30AE000064 | 4             | 25              | 30              | 16 | 7.3  | 11.2 | 0.2  | 0.4  | 50  | \$11n1:  |
| V30AE000033*                   | V30AE000067 | 2             | 35              | 30              | 16 | 8.3  | 12.7 | 0.2  | 0.4  | 50  | \$11n2:  |
| V30AE000035                    | V30AE000070 | 1/0           | 50              | 36              | 20 | 10.3 | 15   | 0.3  | 0.5  | 50  | \$11n3:  |

\* Not UL Certified

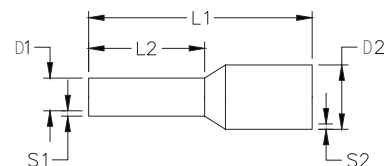
## Twin Insulated Wire Ferrules

These tin-plated copper twin insulated ferrules are designed to accommodate conductors with cross-sections ranging from 20 AWG to 6 AWG (0.5 to 16 mm<sup>2</sup>). Tolerances according to DIN 46228 part 4.

- Heat resistant from -5 to 105°C [23 to 221°F]
- CE / RoHS 2011/65/EU
- UL E333905
- CSA-US 1176867
- Insulating Collar: Polypropylene-fluoropolymer
- Tube: Copper (Cu-DHP)
- Tin Plating: Galvanically tin-plated, bright finish

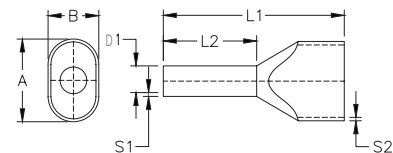


| Available Colors |       |
|------------------|-------|
| Orange           | White |
| Blue             | Ivory |
| Black            | Green |
| Gray             | Brown |
| Yellow           | Beige |
| Red              | Olive |



| Twin Insulated Wire Ferrules |             |               |          |                 |    |     |      |     |      |     |     |         |
|------------------------------|-------------|---------------|----------|-----------------|----|-----|------|-----|------|-----|-----|---------|
| Part Number                  |             | Cross Section |          | Dimensions [mm] |    |     |      |     |      |     | Qty | Price   |
| Standard                     | DIN         | AWG           | mm²      | L1              | L2 | D1  | S1   | S2  | A    | B   |     |         |
| V30AE001134                  | V30AE001145 | 2 x 20        | 2 x 0.5  | 14              | 8  | 1.4 | 0.15 | 0.3 | 5    | 3   | 500 | \$11n4: |
| V30AE000606                  | V30AE000607 | 2 x 18        | 2 x 0.75 | 14              | 8  | 1.7 | 0.15 | 0.3 | 5.5  | 3   | 500 | \$11n5: |
| V30AE000733                  | V30AE000734 | 2 x 18        | 2 x 0.75 | 16              | 10 | 1.7 | 0.15 | 0.3 | 5.5  | 3   | 500 | \$11n6: |
| V30AE000608                  | V30AE000609 | 2 x 18        | 2 x 1    | 15              | 8  | 2   | 0.15 | 0.3 | 5.8  | 3.2 | 500 | \$11n7: |
| V30AE000735                  | V30AE000736 | 2 x 18        | 2 x 1    | 19              | 12 | 2   | 0.15 | 0.3 | 5.8  | 3.2 | 500 | \$11n8: |
| V30AE000623                  | V30AE000625 | 2 x 16        | 2 x 1.5  | 16              | 8  | 2.2 | 0.15 | 0.3 | 6.5  | 3.6 | 500 | \$11n9: |
| V30AE000737                  | V30AE000738 | 2 x 16        | 2 x 1.5  | 20              | 12 | 2.2 | 0.15 | 0.3 | 6.5  | 3.6 | 500 | \$11na: |
| V30AE000611                  | V30AE000611 | 2 x 14        | 2 x 2.5  | 19              | 10 | 2.8 | 0.15 | 0.4 | 8    | 4.5 | 500 | \$11nb: |
| V30AE000748                  | V30AE000748 | 2 x 14        | 2 x 2.5  | 21              | 12 | 2.8 | 0.15 | 0.4 | 8    | 4.5 | 100 | \$11nc: |
| V30AE001148                  | V30AE001148 | 2 x 12        | 2 x 4    | 22              | 12 | 3.5 | 0.2  | 0.5 | 9    | 5.2 | 100 | \$11nd: |
| V30AE001139                  | V30AE001150 | 2 x 10        | 2 x 6    | 23              | 12 | 4.5 | 0.2  | 0.5 | 11.4 | 6.2 | 100 | \$11ne: |
| V30AE001141                  | V30AE001152 | 2 x 8         | 2 x 10   | 24              | 12 | 5.8 | 0.2  | 0.5 | 13.4 | 7.6 | 100 | \$11nf: |
| V30AE001143                  | V30AE001154 | 2 x 6         | 2 x 16   | 29              | 16 | 8.3 | 0.3  | 0.6 | 17.2 | 9.5 | 50  | \$11ng: |

| Available Colors |       |        |
|------------------|-------|--------|
| Orange           | Green | Gray   |
| Blue             | Ivory | Yellow |
| Black            | Red   | White  |



## Crimp Terminals

Partially insulated crimp terminals are constructed from high quality tin-plated copper and PVC. Heat resistant from -4°F [-20°C] up to +167°F [+75°C]. Flammability classification UL 94-V0.

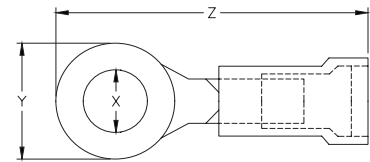


- Insulation: polyvinyl chloride
- Sleeve material: copper

### Ring Terminals



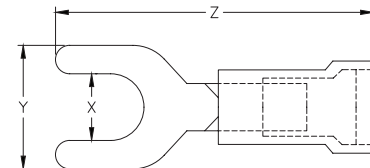
| Partially Insulated PVC Ring Terminals |               |                 |                |     |      |     |         |
|----------------------------------------|---------------|-----------------|----------------|-----|------|-----|---------|
| Part Number                            | Cross Section |                 | Dimension [mm] |     |      | Qty | Price   |
|                                        | AWG           | mm <sup>2</sup> | X              | Y   | Z    |     |         |
| V70RK004004                            | 20 - 18       | 0.5 - 1         | 4.0            | 8.0 | 22.2 | 100 | \$11o1: |
| V70RK004005                            | 20 - 18       | 0.5 - 1         | 5.0            | 8.0 | 22.2 | 100 | \$11o2: |
| V70RK004011                            | 16 - 14       | 1.5 - 2.5       | 4.0            | 8.6 | 23.0 | 100 | \$11o3: |
| V70RK004012                            | 16 - 14       | 1.5 - 2.5       | 5.0            | 8.6 | 23.0 | 100 | \$11o4: |
| V70RK004017                            | 12 - 10       | 4 - 6           | 4.0            | 9.5 | 26.9 | 100 | \$11o5: |
| V70RK004018                            | 12 - 10       | 4 - 6           | 5.0            | 9.5 | 26.9 | 100 | \$11o6: |



### Fork Terminals



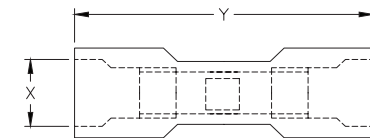
| Partially Insulated PVC Fork Terminals |               |                 |                |     |      |     |         |
|----------------------------------------|---------------|-----------------|----------------|-----|------|-----|---------|
| Part Number                            | Cross Section |                 | Dimension [mm] |     |      | Qty | Price   |
|                                        | AWG           | mm <sup>2</sup> | X              | Y   | Z    |     |         |
| V70GK004003                            | 20 - 18       | 0.5 - 1         | 4.0            | 7.3 | 22.3 | 100 | \$11o7: |
| V70GK004004                            | 20 - 18       | 0.5 - 1         | 5.0            | 8.0 | 21.7 | 100 | \$11o8: |
| V70GK004008                            | 16 - 14       | 1.5 - 2.5       | 4.0            | 7.3 | 22.3 | 100 | \$11o9: |
| V70GK004009                            | 16 - 14       | 1.5 - 2.5       | 5.0            | 8.1 | 22.3 | 100 | \$11oa: |
| V70GK004011                            | 12 - 10       | 4 - 6           | 4.0            | 9.1 | 25.8 | 100 | \$11ob: |
| V70GK004012                            | 12 - 10       | 4 - 6           | 5.0            | 9.1 | 25.8 | 100 | \$11oc: |



### Butt Connectors



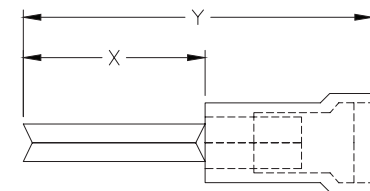
| Fully Insulated PVC Butt Connectors |               |                 |                |      |     |         |
|-------------------------------------|---------------|-----------------|----------------|------|-----|---------|
| Part Number                         | Cross Section |                 | Dimension [mm] |      | Qty | Price   |
|                                     | AWG           | mm <sup>2</sup> | X              | Y    |     |         |
| V70SV004001                         | 20 - 18       | 0.5 - 1         | 5.4            | 26.0 | 100 | \$11od: |
| V70SV004002                         | 16 - 14       | 1.5 - 2.5       | 6.1            | 26.0 | 100 | \$11oe: |
| V70SV004003                         | 12 - 10       | 4 - 6           | 8.0            | 26.0 | 100 | \$11of: |



### Pin Terminals



| Partially Insulated PVC Pin Terminals |               |                 |                |      |     |         |
|---------------------------------------|---------------|-----------------|----------------|------|-----|---------|
| Part Number                           | Cross Section |                 | Dimension [mm] |      | Qty | Price   |
|                                       | AWG           | mm <sup>2</sup> | X              | Y    |     |         |
| V70SS004001                           | 20 - 18       | 0.5 - 1         | 12.0           | 23.3 | 100 | \$11p8: |
| V70SS004002                           | 16 - 14       | 1.5 - 2.5       | 12.0           | 23.4 | 100 | \$11p9: |
| V70SS004003                           | 12 - 10       | 4 - 6           | 14.0           | 28.2 | 100 | \$11pa: |



Note: Dimensions are approximate. Please visit our website [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings.





# Wiring Accessories

## Disconnect Terminals

Disconnect terminals are constructed from copper-enhanced PVC and brass. Heat resistant from -4°F [-20°C] up to +167°F [+75°C]. Flammability classification UL 94-V0.

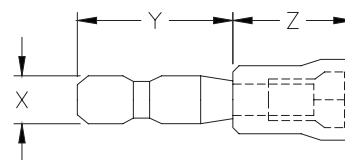
- Insulation: polyvinyl chloride strengthened with copper
- Sleeve material: brass



### Male Bullet Disconnect Terminals



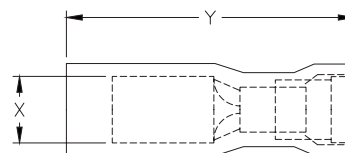
| Partially Insulated Male Bullet Disconnect Terminals |               |                 |                |      |      |         |
|------------------------------------------------------|---------------|-----------------|----------------|------|------|---------|
| Part Number                                          | Cross Section |                 | Dimension [mm] |      |      | Price   |
|                                                      | AWG           | mm <sup>2</sup> | X              | Y    | Z    |         |
| V70RS004001                                          | 20 - 18       | 0.5 - 1         | 4.0            | 11.3 | 9.8  | \$11pb: |
| V70RS004002                                          | 16 - 14       | 1.5 - 2.5       | 5.0            | 11.8 | 11.7 | \$11pc: |
| V70RS004003                                          | 12 - 10       | 4 - 6           | 5.0            | 11.0 | 10.2 | \$11pd: |



### Female Bullet Disconnect Terminals



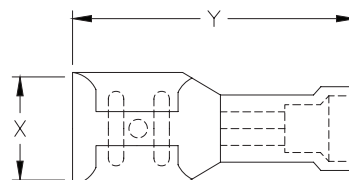
| Fully Insulated Female Bullet Disconnect Terminals |               |                 |                |      |     |         |
|----------------------------------------------------|---------------|-----------------|----------------|------|-----|---------|
| Part Number                                        | Cross Section |                 | Dimension [mm] |      | Qty | Price   |
|                                                    | AWG           | mm <sup>2</sup> | X              | Y    |     |         |
| V70RV004001                                        | 20 - 18       | 0.5 - 1         | 4.0            | 23.9 | 100 | \$11pe: |
| V70RV004002                                        | 16 - 14       | 1.5 - 2.5       | 5.0            | 23.9 | 100 | \$11pf: |
| V70RV004003                                        | 12 - 10       | 4 - 6           | 5.0            | 27.8 | 100 | \$11pg: |



### Partially Insulated PVC Female Disconnect Terminals



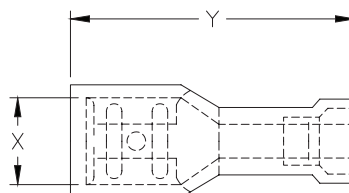
| Partially Insulated Female Disconnect Terminals |               |                 |                |      |     |         |
|-------------------------------------------------|---------------|-----------------|----------------|------|-----|---------|
| Part Number                                     | Cross Section |                 | Dimension [mm] |      | Qty | Price   |
|                                                 | AWG           | mm <sup>2</sup> | X              | Y    |     |         |
| V70FH004001                                     | 20 - 18       | 0.5 - 1         | 2.8 x 0.5      | 19.5 | 100 | \$11og: |
| V70FH004002                                     | 20 - 18       | 0.5 - 1         | 2.8 x 0.8      | 18.8 | 100 | \$11oh: |
| V70FH004003                                     | 20 - 18       | 0.5 - 1         | 4.8 x 0.5      | 19.5 | 100 | \$11oi: |
| V70FH004004                                     | 20 - 18       | 0.5 - 1         | 4.8 x 0.8      | 19.5 | 100 | \$11oj: |
| V70FH004005                                     | 20 - 18       | 0.5 - 1         | 6.3 x 0.8      | 20.9 | 100 | \$11ok: |
| V70FH004006                                     | 16 - 14       | 1.5 - 2.5       | 2.8 x 0.5      | 18.8 | 100 | \$11ol: |
| V70FH004007                                     | 16 - 14       | 1.5 - 2.5       | 2.8 x 0.8      | 18.8 | 100 | \$11on: |
| V70FH004008                                     | 16 - 14       | 1.5 - 2.5       | 4.8 x 0.5      | 19.5 | 100 | \$11oo: |
| V70FH004009                                     | 16 - 14       | 1.5 - 2.5       | 4.8 x 0.8      | 19.5 | 100 | \$11op: |
| V70FH004010                                     | 16 - 14       | 1.5 - 2.5       | 6.3 x 0.8      | 20.9 | 100 | \$11oq: |
| V70FH004011                                     | 12 - 10       | 4 - 6           | 6.3 x 0.8      | 23.8 | 100 | \$11os: |



### Fully Insulated PVC Female Disconnect Terminals



| Fully Insulated Female Disconnect Terminals |               |                 |                |      |     |         |
|---------------------------------------------|---------------|-----------------|----------------|------|-----|---------|
| Part Number                                 | Cross Section |                 | Dimension [mm] |      | Qty | Price   |
|                                             | AWG           | mm <sup>2</sup> | X              | Y    |     |         |
| V70FV004003                                 | 20 - 18       | 0.5 - 1         | 2.8 x 0.5      | 18.6 | 100 | \$11ot: |
| V70FV004004                                 | 20 - 18       | 0.5 - 1         | 2.8 x 0.8      | 18.6 | 100 | \$11ou: |
| V70FV004005                                 | 20 - 18       | 0.5 - 1         | 4.8 x 0.5      | 20.4 | 100 | \$11ov: |
| V70FV004006                                 | 20 - 18       | 0.5 - 1         | 4.8 x 0.8      | 20.3 | 100 | \$11ox: |
| V70FV004001                                 | 20 - 18       | 0.5 - 1         | 6.3 x 0.8      | 22.5 | 100 | \$11oy: |
| V70FV004007                                 | 16 - 14       | 1.5 - 2.5       | 4.8 x 0.5      | 18.8 | 100 | \$11oz: |
| V70FV004008                                 | 16 - 14       | 1.5 - 2.5       | 4.8 x 0.8      | 20.5 | 100 | \$11o:  |
| V70FV004002                                 | 16 - 14       | 1.5 - 2.5       | 6.3 x 0.8      | 22.5 | 100 | \$11o:  |
| V70FV004009                                 | 12 - 10       | 4 - 6           | 6.3 x 0.8      | 24.2 | 100 | \$11o:  |



Note: Dimensions are approximate. Please visit our website [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings.



# Wiring Accessories

## Disconnect Terminals

Disconnect terminals are constructed from copper-enhanced PVC and brass. Heat resistant from -4°F [-20°C] up to +167°F [+75°C]. Flammability classification UL 94-V0.

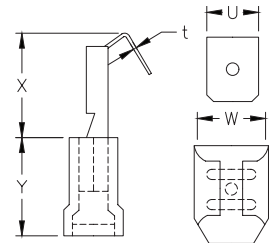
- Insulation: polyvinyl chloride strengthened with copper
- Sleeve material: brass



### Partially Insulated Piggy Back Disconnect Terminals



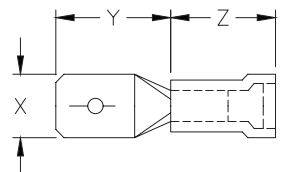
| Piggy Back Disconnect Terminals |               |                 |                |     |     |      |      |     |         |
|---------------------------------|---------------|-----------------|----------------|-----|-----|------|------|-----|---------|
| Part Number                     | Cross Section |                 | Dimension [mm] |     |     |      |      | Qty | Price   |
|                                 | AWG           | mm <sup>2</sup> | w              | u   | t   | x    | y    |     |         |
| V70FP004001                     | 20 - 18       | 0.5 - 1         | 6.6            | 6.3 | 0.8 | 13.4 | 10.0 | 100 | \$11p5: |
| V70FP004002                     | 16 - 14       | 1.5 - 2.5       | 6.6            | 6.3 | 0.8 | 13.4 | 11.0 | 100 | \$11p6: |
| V70FP004003                     | 12 - 10       | 4 - 6           | 6.6            | 6.3 | 0.8 | 13.4 | 12.0 | 100 | \$11p7: |



### Partially Insulated PVC Male Disconnect Terminals



| Partially Insulated Male Disconnect Terminals |               |                 |                |      |     |     |           |
|-----------------------------------------------|---------------|-----------------|----------------|------|-----|-----|-----------|
| Part Number                                   | Cross Section |                 | Dimension [mm] |      |     | Qty | Price     |
|                                               | AWG           | mm <sup>2</sup> | X              | Y    | Z   |     |           |
| V70FS004001                                   | 20 - 18       | 0.5 - 1         | 2.8 x 0.5      | 8.0  | 10  | 100 | \$11o#:   |
| V70FS004002                                   | 20 - 18       | 0.5 - 1         | 2.8 x 0.8      | 9.0  | 9.5 | 100 | \$;11o!:  |
| V70FS004003                                   | 20 - 18       | 0.5 - 1         | 4.8 x 0.5      | 9.0  | 9.9 | 100 | \$11o?:   |
| V70FS004004                                   | 20 - 18       | 0.5 - 1         | 4.8 x 0.8      | 9.4  | 10  | 100 | \$;11o,:: |
| V70FS004005                                   | 20 - 18       | 0.5 - 1         | 6.3 x 0.8      | 10.8 | 10  | 100 | \$11p0:   |
| V70FS004008                                   | 16 - 14       | 1.5 - 2.5       | 4.8 x 0.5      | 8.7  | 10  | 100 | \$11p1:   |
| V70FS004009                                   | 16 - 14       | 1.5 - 2.5       | 4.8 x 0.8      | 9.2  | 10  | 100 | \$11p2:   |
| V70FS004010                                   | 16 - 14       | 1.5 - 2.5       | 6.3 x 0.8      | 10.8 | 10  | 100 | \$11p3:   |
| V70FS004011                                   | 12 - 10       | 4 - 6           | 6.3 x 0.8      | 10.8 | 13  | 100 | \$11p4:   |



Note :Dimensions are approximate. Please visit our website [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings.

## Crimping Tools

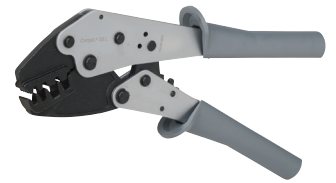
| Crimping Tools                     |                                                                                                                                                                                                                                                            |                |           |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| Part Number                        | Description                                                                                                                                                                                                                                                | Weight         | Price     |
| <a href="#"><u>K70ZA000113</u></a> | Crimping tool for use with single ferrules AWG 20 - 10 [0.5 - 6 mm <sup>2</sup> ] and twin ferrules AWG 2 x 18 - 2 x 12 [2 x 0.75 - 2 x 4 mm <sup>2</sup> ]. 5 crimping positions. With and without insulating collar. Conforms to DIN 46228 part 1 and 2. | 0.74 lb [335g] | \$-011pi: |
| <a href="#"><u>K70ZA000117</u></a> | Crimping tool for use with single ferrules AWG 10 - 4 [6 - 25 mm <sup>2</sup> ] and twin ferrules AWG 2 x 12 - 2 x 8 [2 x 4 - 2 x 10 mm <sup>2</sup> ]. 4 crimping positions. Conforms to DIN 46228 part 1 and 4.                                          | 1.19 lb [540g] | \$-011pj: |
| <a href="#"><u>K70ZA000130</u></a> | Crimping tool for PVC-insulated terminals AWG 20 - 10 [0.5 - 6 mm <sup>2</sup> ]. 3 crimping positions.                                                                                                                                                    | 1.12 lb [510g] | \$011ph:  |

Note: Z&F crimping tools recommended by the ferrule manufacturer before terminating in terminal blocks, wire connectors, or end-product terminals (such as starters, etc.).

[K70ZA000113](#)



[K70ZA000117](#)



[K70ZA000130](#)



| Crimping Tools Cross Reference |                                    |                                    |                                    |                                    |
|--------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
|                                | Part Number                        |                                    | <a href="#"><u>K70ZA000113</u></a> | <a href="#"><u>K70ZA000117</u></a> |
|                                | Standard                           | DIN                                |                                    |                                    |
| Single Ferrules                | <a href="#"><u>V30AE000006</u></a> | <a href="#"><u>V30AE000038</u></a> | X                                  | —                                  |
|                                | <a href="#"><u>V30AE000009</u></a> | <a href="#"><u>V30AE000041</u></a> | X                                  | —                                  |
|                                | <a href="#"><u>V30AE000013</u></a> | <a href="#"><u>V30AE000045</u></a> | X                                  | —                                  |
|                                | <a href="#"><u>V30AE000016</u></a> | <a href="#"><u>V30AE000048</u></a> | X                                  | —                                  |
|                                | <a href="#"><u>V30AE000017</u></a> | <a href="#"><u>V30AE000049</u></a> | X                                  | —                                  |
|                                | <a href="#"><u>V30AE000052</u></a> | <a href="#"><u>V30AE000052</u></a> | X                                  | —                                  |
|                                | <a href="#"><u>V30AE000053</u></a> | <a href="#"><u>V30AE000053</u></a> | X                                  | —                                  |
|                                | <a href="#"><u>V30AE000055</u></a> | <a href="#"><u>V30AE000055</u></a> | X                                  | —                                  |
|                                | <a href="#"><u>V30AE000056</u></a> | <a href="#"><u>V30AE000056</u></a> | X                                  | —                                  |
|                                | <a href="#"><u>V30AE000025</u></a> | <a href="#"><u>V30AE000058</u></a> | X                                  | X                                  |
|                                | <a href="#"><u>V30AE000026</u></a> | <a href="#"><u>V30AE000059</u></a> | X                                  | X                                  |
|                                | <a href="#"><u>V30AE000027</u></a> | <a href="#"><u>V30AE000060</u></a> | —                                  | X                                  |
|                                | <a href="#"><u>V30AE000028</u></a> | <a href="#"><u>V30AE000061</u></a> | —                                  | X                                  |
|                                | <a href="#"><u>V30AE000029</u></a> | <a href="#"><u>V30AE000062</u></a> | —                                  | X                                  |
|                                | <a href="#"><u>V30AE000030</u></a> | <a href="#"><u>V30AE000063</u></a> | —                                  | X                                  |
|                                | <a href="#"><u>V30AE000031</u></a> | <a href="#"><u>V30AE000064</u></a> | —                                  | X                                  |
|                                | <a href="#"><u>V30AE000033</u></a> | <a href="#"><u>V30AE000067</u></a> | —                                  | —                                  |
|                                | <a href="#"><u>V30AE000035</u></a> | <a href="#"><u>V30AE000070</u></a> | —                                  | —                                  |
| Twin Ferrules                  | <a href="#"><u>V30AE001134</u></a> | <a href="#"><u>V30AE001145</u></a> | X                                  | —                                  |
|                                | <a href="#"><u>V30AE000606</u></a> | <a href="#"><u>V30AE000607</u></a> | X                                  | —                                  |
|                                | <a href="#"><u>V30AE000733</u></a> | <a href="#"><u>V30AE000734</u></a> | X                                  | —                                  |
|                                | <a href="#"><u>V30AE000608</u></a> | <a href="#"><u>V30AE000609</u></a> | X                                  | —                                  |
|                                | <a href="#"><u>V30AE000735</u></a> | <a href="#"><u>V30AE000736</u></a> | X                                  | —                                  |
|                                | <a href="#"><u>V30AE000623</u></a> | <a href="#"><u>V30AE000625</u></a> | X                                  | —                                  |
|                                | <a href="#"><u>V30AE000737</u></a> | <a href="#"><u>V30AE000738</u></a> | X                                  | —                                  |
|                                | <a href="#"><u>V30AE000611</u></a> | <a href="#"><u>V30AE000611</u></a> | X                                  | —                                  |
|                                | <a href="#"><u>V30AE000748</u></a> | <a href="#"><u>V30AE000748</u></a> | X                                  | —                                  |
|                                | <a href="#"><u>V30AE001148</u></a> | <a href="#"><u>V30AE001148</u></a> | X                                  | X                                  |
|                                | <a href="#"><u>V30AE001139</u></a> | <a href="#"><u>V30AE001150</u></a> | —                                  | X                                  |
|                                | <a href="#"><u>V30AE001141</u></a> | <a href="#"><u>V30AE001152</u></a> | —                                  | X                                  |
|                                | <a href="#"><u>V30AE001143</u></a> | <a href="#"><u>V30AE001154</u></a> | —                                  | X                                  |

# Wiring Accessories – Crimping Tools

## Crimping Tools Overview

Our high-quality industrial crimping tools are designed to crimp a wide range of insulated and non-insulated crimping terminals, ferrules, and connectors. They feature ergonomic handles and controlled-cycle ratcheting mechanisms to guarantee a uniform crimp every time. Choose from fixed or interchangeable die tools or tool/die sets with multiple dies.

| Interchangeable-Die Crimping Tools |                                                                                                                                                                                                                                                                          |     |           |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| Part #                             | Description *                                                                                                                                                                                                                                                            | Qty | Price     |
| <b><u>DN-CT-HDL</u></b>            | Crimping tool handle for DN-CT-Dx dies (dies NOT included)<br>Approximate dimensions: 9.75 x 2.52 x 0.95 in (234 x 64 x 24 mm); 16.2 oz (460g)                                                                                                                           | 1   | \$0egv:   |
| <b><u>DN-CT-D1</u></b>             | Die set for <b><u>DN-CT-HDL</u></b> ;<br>26-22 & 12-10 AWG (0.1-0.4 & 4-6 mm <sup>2</sup> ) green & yellow insulated terminals                                                                                                                                           | 1   | \$.05st:  |
| <b><u>DN-CT-D2</u></b>             | Die set for <b><u>DN-CT-HDL</u></b> ; 22-14 AWG (0.5-2.5 mm <sup>2</sup> ) red & blue insulated terminals                                                                                                                                                                | 1   | \$05su:   |
| <b><u>DN-CT-D3</u></b>             | Die set for <b><u>DN-CT-HDL</u></b> ; 22-10 AWG (0.5-6 mm <sup>2</sup> ) non-insulated terminals                                                                                                                                                                         | 1   | \$05sv:   |
| <b><u>DN-CT-D4</u></b>             | Die set for <b><u>DN-CT-HDL</u></b> ; 24-8 AWG (0.25-10 mm <sup>2</sup> ) wire ferrules                                                                                                                                                                                  | 1   | \$05sx:   |
| <b><u>DN-CT-D5</u></b>             | Die set for <b><u>DN-CT-HDL</u></b> ; 6-4 AWG (16-25 mm <sup>2</sup> ) wire ferrules                                                                                                                                                                                     | 1   | \$05sy:   |
| <b><u>DN-CT-D6</u></b>             | Die set for <b><u>DN-CT-HDL</u></b> ; 2-1/0 AWG (35-50 mm <sup>2</sup> ) wire ferrules                                                                                                                                                                                   | 1   | \$05sz:   |
| <b><u>DN-CT-D7</u></b>             | Die set for <b><u>DN-CT-HDL</u></b> ; 22-10 AWG (0.5-6 mm <sup>2</sup> ) open barrel non-insulated terminals                                                                                                                                                             | 1   | \$.005s]: |
| <b><u>DN-CT-D8</u></b>             | Die set for <b><u>DN-CT-HDL</u></b> ; 8-pin (RJ45) modular plugs                                                                                                                                                                                                         | 1   | \$.05s[:  |
| <b><u>DN-CT-D9</u></b>             | Die set for <b><u>DN-CT-HDL</u></b> ; 6-pin (RJ11/RJ12) modular plugs                                                                                                                                                                                                    | 1   | \$05s_:   |
| <b><u>DN-CT-SET</u></b>            | Crimping tool modular system; includes handle and three die sets<br>( <b><u>DN-CT-HDL</u></b> + <b><u>DN-CT-D2</u></b> + <b><u>DN-CT-D4</u></b> + <b><u>DN-CT-D5</u></b> )<br>The die pairs are held together for easy handling, and interchange without separate tools. | 1   | \$,004,g: |

\* The DN-CT-xx series features a crimping tool with multiple interchangeable dies separately available. The die pairs are held together for easy handling, and can be interchanged without separate tools.



**DN-CT-HDL**  
Crimping Tool



**DN-CT-SET**  
Crimping Tool & Die Set

# Wiring Accessories – Crimping Tool

## DN-CT-Dx Interchangeable Crimping Dies (for DN-CT-xxx crimping tool only)

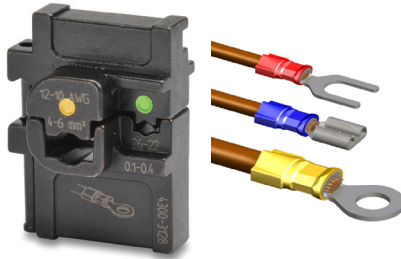
These dies are held together for easy handling, and can be interchanged without additional tools.

All DN-CT-Dx dies have been tested on leading brands of connectors to ensure quality connections.

Dies come in modular holders that can be connected together when not in use.



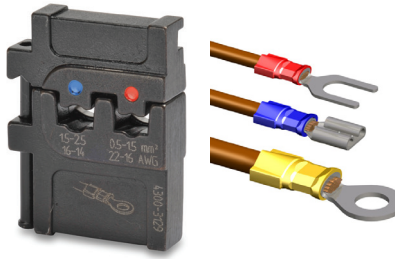
DN-CT-Dx die & holder



**DN-CT-D1 (4300-3128)**

Insulated Terminals & Connectors  
26–22 AWG & 12–10 AWG

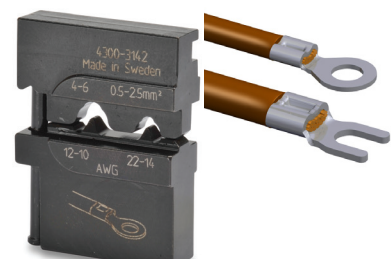
[Green & Yellow] (0.1–0.4 & 4–6 mm<sup>2</sup>)



**DN-CT-D2 (4300-3129)**

Insulated Terminals & Connectors  
22–14 AWG

[Red & Blue] (0.5–2.5 mm<sup>2</sup>)



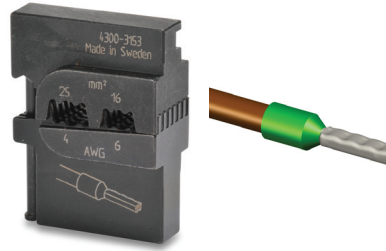
**DN-CT-D3 (4300-3142)**

Non-Insulated Terminals & Connectors  
22–10 AWG (0.5–6 mm<sup>2</sup>)



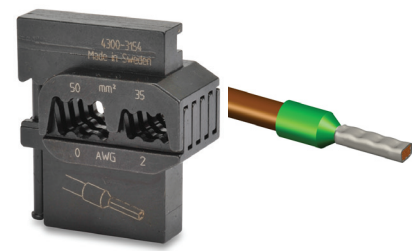
**DN-CT-D4 (4300-3127)**

Wire Ferrules  
24–8 AWG (0.25–10 mm<sup>2</sup>)



**DN-CT-D5 (4300-3153)**

Wire Ferrules  
6–4 AWG (16–25 mm<sup>2</sup>)



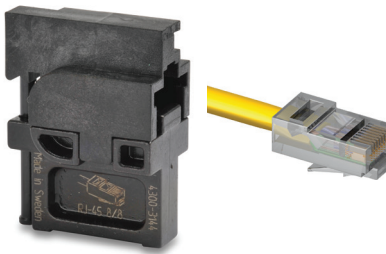
**DN-CT-D6 (4300-3154)**

Wire Ferrules  
2–1/0 AWG (35–50 mm<sup>2</sup>)



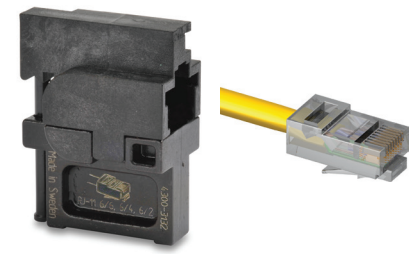
**DN-CT-D7 (4300-3146)**

Non-Insulated Open-Barrel Terminals  
22–10 AWG (0.5–6 mm<sup>2</sup>)



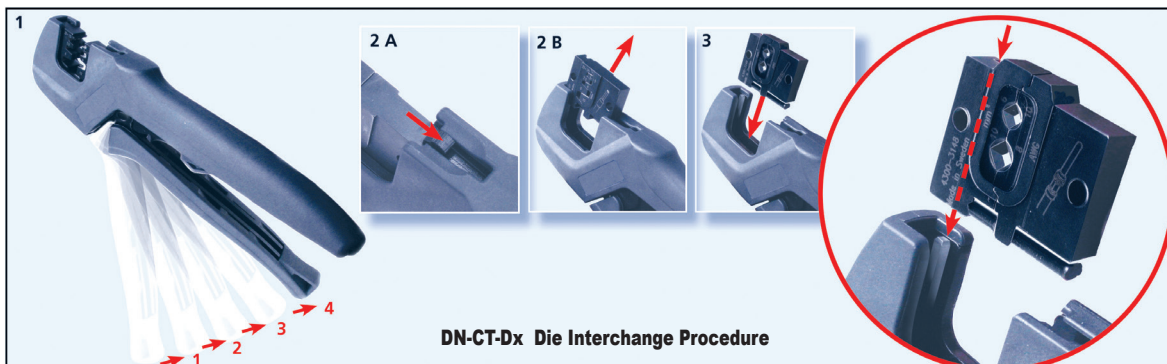
**DN-CT-D8 (4300-3144)**

8-pin Modular Plugs  
RJ45



**DN-CT-D9 (4300-3132)**

6-pin Modular Plugs  
RJ11/RJ12



DN-CT-Dx Die Interchange Procedure



# Wiring Accessories – Self-Adjusting Crimping Tools

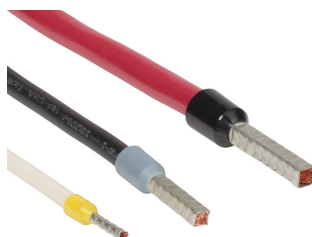
Lightweight, compact, comfortable and self-adjusting tool for crimping ferrules/wire end sleeves.

## Features

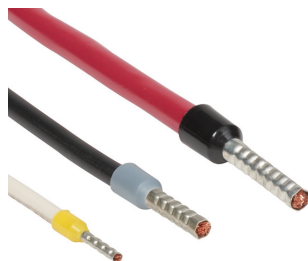
- Ratchet (with emergency release) to ensure crimps are completed according to specification
- Well-balanced to avoid slipping out of the hand
- Non-slip grip pad for applying pressure against a surface
- Ergonomically shaped handles with hardness and surface textures selected for comfortable frequent use
- Low handle force for larger ferrule sizes
- Compact and light-weight design for easy access within confined spaces
- Hole for attaching a safety strap
- Square or Hexagonal crimp profile



**Square  
DN-FE-16S**



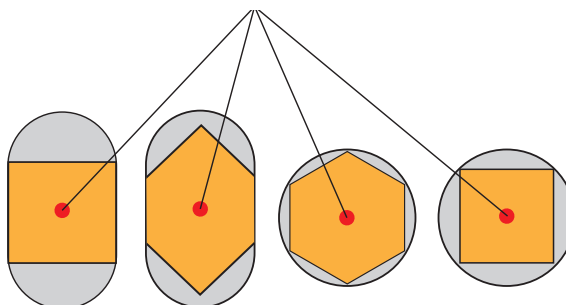
**Hexagonal  
DN-FE-16H**



| Self-Adjusting Crimping Tools |                                                                                                                                      |           |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Part Number                   | Description                                                                                                                          | Price     |
| <b><u>DN-FE-16S</u></b>       | Wire crimping tool, self-adjusting, square profile, 26 to 8 AWG capacity. For use with insulated and non-insulated wire ferrules.    | \$,01g[v: |
| <b><u>DN-FE-16H</u></b>       | Wire crimping tool, self-adjusting, hexagonal profile, 26 to 8 AWG capacity. For use with insulated and non-insulated wire ferrules. | \$,01g[u: |

| Self-Adjusting Crimping Tools Specifications |                                                       |
|----------------------------------------------|-------------------------------------------------------|
| <b>Connectors</b>                            | Insulated and non-insulated ferrules/wire end sleeves |
| <b>Capacity</b>                              | 0.14 - 10.0 mm <sup>2</sup> /AWG 26-8                 |
| <b>Crimp Length</b>                          | Up to 0.47 in [12mm]                                  |
| <b>Crimp Profile</b>                         | DN-FE-16S: Square<br>DN-FE-16H: Hexagonal             |
| <b>Lifespan</b>                              | Tested to 50,000 cycles                               |
| <b>Length</b>                                | 6.93 in [176mm]                                       |
| <b>Width</b>                                 | 1.02 in [26mm]                                        |
| <b>Height</b>                                | 2.44 in [62mm]                                        |
| <b>Handle spread (closed)</b>                | 1.81 in [46mm]                                        |
| <b>Handle spread (open)</b>                  | 5.59 in [142mm]                                       |
| <b>Weight</b>                                | Square: 0.80 lb [362g] Hexagonal: 0.81 lb [371g]      |

The finished square and hexagonal crimps have the same cross-sectional area. Choosing between the square and hexagonal crimp tools depends on the shape of the hole where the wire will be inserted. Square crimps fit better in rectangular holes while hexagonal crimps fit better in round holes.



# Wiring Accessories – Self-Adjusting Crimping Tool with Rotatable Die

Lightweight, compact, comfortable and self-adjusting tool for crimping ferrules/wire end sleeves

## Features

- Rotatable die for front or side crimping
- Ratchet (with emergency release) to ensure crimps are completed according to specification
- Well-balanced to avoid slipping out of the hand
- Non-slip grip pad for applying pressure against a surface
- Ergonomically shaped handles with hardness and surface textures selected for comfortable frequent use
- Low handle force for larger ferrule sizes
- Compact and light-weight design for easy access within confined spaces
- Hole for attaching a safety strap
- Trapezoidal and square crimp profiles available



**DN-FE-16T**



**DN-CT-SQ1**



**DN-FE-16T in Side Crimp Setting**



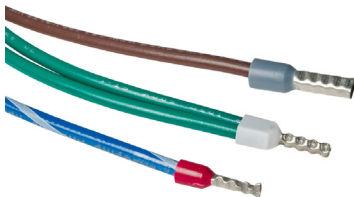
**DN-CT-SQ1 in Side Crimp Setting**



**DN-FE-16T in Front Crimp Setting**

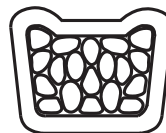


**DN-CT-SQ1 in Front Crimp Setting**

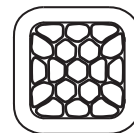


| Self-Adjusting Crimping Tools |                                                                                                                                                                   |            |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Part Number                   | Description                                                                                                                                                       | Price      |
| <b>DN-FE-16T</b>              | Wire crimping tool, self-adjusting, rotatable die, trapezoidal profile, 26 to 8 AWG capacity. For use with insulated and non-insulated wire ferrules.             | \$;-043fi: |
| <b>DN-CT-SQ1</b>              | AutomationDirect wire crimping tool, self-adjusting, rotatable die, square profile, 26-6 AWG capacity, compatible with insulated and non-insulated wire ferrules. | \$;05[a3:  |

| Self-Adjusting Crimping Tool with Rotatable Die Specifications |                                                       |                                                       |
|----------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|
| Part Number                                                    | DN-FE-16T                                             | DN-CT-SQ1                                             |
| <b>Connectors</b>                                              | Insulated and non-insulated ferrules/wire end sleeves | Insulated and non-insulated ferrules/wire end sleeves |
| <b>Capacity</b>                                                | 0.14 - 10.0 mm <sup>2</sup> / AWG 26-8                | 0.14 - 16.0 mm <sup>2</sup> / AWG 26-6                |
| <b>Crimp Length</b>                                            | Up to 0.47 in [12mm]                                  | Up to 0.39 in [10mm]                                  |
| <b>Crimp Profile</b>                                           | Trapezoidal                                           | Square                                                |
| <b>Lifespan</b>                                                | Tested to 50,000 cycles                               |                                                       |
| <b>Length</b>                                                  | 7.09 in [180mm]                                       | 6.93 in [176mm]                                       |
| <b>Width</b>                                                   | 1.02 in [26mm]                                        | 1.02 in [26mm]                                        |
| <b>Height</b>                                                  | 2.56 in [65mm]                                        | 2in [62mm]                                            |
| <b>Handle spread (closed)</b>                                  | 1.81 in [46mm]                                        |                                                       |
| <b>Handle spread (open)</b>                                    | 5.31 in [135mm]                                       |                                                       |
| <b>Weight</b>                                                  | 0.66 lb [300g]                                        | 0.79 lb [362g]                                        |



**DN-FE-16T Trapezoidal Crimp Profile**



**DN-CT-SQ1 Square Crimp Profile**

# Wire Crimping Tools

The DN-CT-TC series crimping tools are designed for insulated and non-insulated wire ferrules according to DIN 46228, ranging from AWG 24 to AWG 0.

- High-strength, through hardened alloy steel construction
- Unique mechanism significantly reduces hand force requirement over competing crimping tools
- Versatile and easy to customize for right hand or left hand users.
- Non-slip pad holds tool in place when leveraging on a work surface
- Full cycle crimp mechanism to ensure consistent, reliable crimp
- Ratchet release mechanism to clear miscrimps and obstructions
- Precision eccentric adjustment for consistent performance and ability to calibrate
- Hole in handle allows attachment of safety strap
- Each tool has a unique serial number for traceability



**DN-CT-TC1**



**DN-CT-TC2**



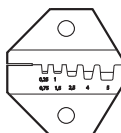
**DN-CT-TC3**

## End Sleeve Ferrule Connector Crimping Tool

| Part Number             | Description                                                                                                                                   | Price      |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <b><u>DN-CT-TC1</u></b> | AutomationDirect wire crimping tool, trapezoidal profile, 24-10 AWG capacity, compatible with insulated and non-insulated wire ferrules.      | \$,05[9?:  |
| <b><u>DN-CT-TC2</u></b> | AutomationDirect wire crimping tool, trapezoidal profile, 6-4 AWG capacity, compatible with insulated and non-insulated wire ferrules.        | \$,;05[9,: |
| <b><u>DN-CT-TC3</u></b> | AutomationDirect wire crimping tool, trapezoidal profile, AWG 2 or AWG 0 capacity, compatible with insulated and non-insulated wire ferrules. | \$,05[a0:  |

## End Sleeve Ferrule Connector Crimping Tool Specifications

| Part Number      | DN-CT-TC1                                                                                                           | DN-CT-TC2                                                  | DN-CT-TC3                                   |
|------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------|
| Length           | 8in [204mm]                                                                                                         | 10.08 in [256mm]                                           |                                             |
| Width            | 0.87 in [22mm]                                                                                                      |                                                            |                                             |
| Height           | 2.99 in [76mm]                                                                                                      | 3.15 in [80mm]                                             |                                             |
| Weight           | 1.11 lb [505g]                                                                                                      | 1.26 lb [570g]                                             |                                             |
| Capacity         | 0.5 - 6 mm <sup>2</sup> / AWG 22-10                                                                                 | 10 - 25 mm <sup>2</sup> / AWG 6-4                          | 35 - 50 mm <sup>2</sup> / AWG 2-0           |
| Crimp Profile    | Trapezoidal                                                                                                         | Trapezoidal                                                | Trapezoidal                                 |
| Crimp Dimensions | AWG 24-20/AWG 18-16/AWG 14/AWG 12/AWG 10<br>[0,25-0,75 mm2/1-1,5 mm2/2,5 mm <sup>2</sup> /4 mm2/6 mm <sup>2</sup> ] | (AWG 5)/AWG 6/AWG 4<br>[10 mm2/16 mm2/25 mm <sup>2</sup> ] | AWG 2/AWG 0<br>[35 mm2/50 mm <sup>2</sup> ] |
| Connector        | Insulated and non-insulated wire ferrules                                                                           |                                                            |                                             |
| Lifespan         | Tested to 50,000 cycles                                                                                             |                                                            |                                             |

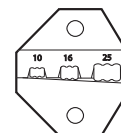


**Die Profile**

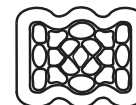


**Crimp Profile**

**DN-CT-TC1**

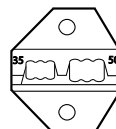


**Die Profile**

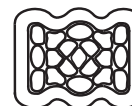


**Crimp Profile**

**DN-CT-TC2**



**Die Profile**



**Crimp Profile**

**DN-CT-TC3**

# Insulated Connector Crimping Tool

The [DN-CT-RBY](#) series crimping tools are for insulated connectors, available up to AWG10, side feeded, Oval-Crimp.

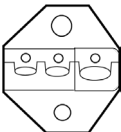
- High-strength, through hardened alloy steel construction
- Unique mechanism significantly reduces hand force requirement over competing crimping tools
- Versatile and easy to customize for right hand or left hand users.
- Non-slip pad holds tool in place when leveraging on a work surface
- Full cycle crimp mechanism to ensure consistent, reliable crimp
- Ratchet release mechanism to clear miscrimps and obstructions
- Precision eccentric adjustment for consistent performance and ability to calibrate
- Hole in handle allows attachment of safety strap
- Each tool has a unique serial number for traceability



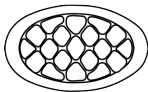
**[DN-CT-RBY](#)**

| Insulated Connector Crimping Tool |                                                                                                              |            |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------|------------|
| Part Number                       | Description                                                                                                  | Price      |
| <b><a href="#">DN-CT-RBY</a></b>  | AutomationDirect wire crimping tool, oval profile, 20-10 AWG capacity, compatible with insulated connectors. | \$,;05[9]! |

| Insulated Connector Crimping Tool Specifications |                                                                                                                                                     |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Length</b>                                    | 10.08 in [256mm]                                                                                                                                    |
| <b>Width</b>                                     | 0.87 in [22mm]                                                                                                                                      |
| <b>Height</b>                                    | 3.15 in [80mm]                                                                                                                                      |
| <b>Weight</b>                                    | 1.23 lb [559g]                                                                                                                                      |
| <b>Capacity</b>                                  | 0.5 - 6 mm <sup>2</sup> / AWG 20-10                                                                                                                 |
| <b>Crimp Profile</b>                             | Oval                                                                                                                                                |
| <b>Crimp Dimensions</b>                          | AWG 20 - AWG 16/AWG 16 - AWG 14/AWG 12 - AWG 1<br>[0.5 - 1.5 mm <sup>2</sup> (red)/1.5 - 2.5 mm <sup>2</sup> (blue)/4 - 6 mm <sup>2</sup> (yellow)] |
| <b>Connector</b>                                 | Insulated connectors                                                                                                                                |
| <b>Lifespan</b>                                  | Tested to 50,000 cycles                                                                                                                             |



**[Die Profile](#)**



**[Crimp Profile](#)**

**[DN-CT-RBY](#)**

# Non-Insulated Connector Crimping Tool

The DN-CT-ID1 series crimping tools are for non-insulated connectors, available up to AWG4, side feeded, Indent-Crimp. For connectors to DIN 46234.

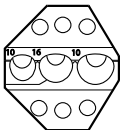
- High-strength, through hardened alloy steel construction
- Unique mechanism significantly reduces hand force requirement over competing crimping tools
- Versatile and easy to customize for right hand or left hand users.
- Non-slip pad holds tool in place when leveraging on a work surface
- Full cycle crimp mechanism to ensure consistent, reliable crimp
- Ratchet release mechanism to clear miscrimps and obstructions
- Precision eccentric adjustment for consistent performance and ability to calibrate
- Hole in handle allows attachment of safety strap
- Each tool has a unique serial number for traceability



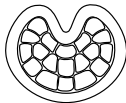
DN-CT-ID1

| Non-Insulated Connector Crimping Tool |                                                                                                                  |           |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------|
| Part Number                           | Description                                                                                                      | Price     |
| DN-CT-ID1                             | AutomationDirect wire crimping tool, indent profile, 8-4 AWG capacity, compatible with non-insulated connectors. | \$;05[a2: |

| Non-Insulated Connector Crimping Tool Specifications |                                             |
|------------------------------------------------------|---------------------------------------------|
| Length                                               | 10.08 in [256mm]                            |
| Width                                                | 0.87 in [22mm]                              |
| Height                                               | 3.15 in [80mm]                              |
| Weight                                               | 1.23 lb [559g]                              |
| Capacity                                             | 10 - 25 mm² / AWG 8-4                       |
| Crimp Profile                                        | Indent                                      |
| Crimp Dimensions                                     | AWG 8/AWG 6/AWG 4<br>[10 mm²/16 mm²/25 mm²] |
| Connector                                            | Non-insulated connectors                    |
| Lifespan                                             | Tested to 50,000 cycles                     |



Die Profile



Crimp Profile

DN-CT-ID1



# Wiring Accessories – Cutting & Stripping Tools

## Wire Cutting and Stripping Tools

### Self-Adjusting Cut and Strip Tools

- Widest stripping capacity of any tool of its type
- Pistol grip option (DN-WS-PG) provides stress free comfort, particularly when operating parallel to a table or workbench
- Easily interchangeable stripping cassettes are available for stripping a wide range of most modern insulation types, from PVC to PTFE; color coded by stripping blade type
- No additional tools required to change stripping blade cassettes
- Precise adjustability allows stripping of various insulation thicknesses without damage to conductors
- Easy snag-free wire removal after stripping
- Ergonomic design with soft-grip handle
- Light weight and strong; molded in high-strength plastic with twice the strength of standard nylon; tested 150k cycles
- Cutting capacity:  
Stranded conductors to 8AWG (10 mm<sup>2</sup>)  
Solid conductors to 16 AWG (1.5 mm<sup>2</sup>)



**DN-WS Cutting & Stripping Tool**

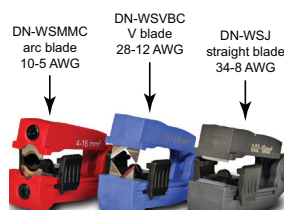
**DN-WS-PG Cutting & Stripping Tool**



**DN-WS stripping blade replacement**



**DN-WSRJ**



**DN-WSxxx  
Blade inserts color coded  
by type**



**DN-WS wire cutting**

### Wire Cutting and Stripping Tools

| Part Number         | Description                                                                                                                                            | Qty | Price     |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| <b>DN-WS</b>        | AutomationDirect automatic cutting and stripping tool, standard grip, self-adjusting, AWG 34-8 capacity. <a href="#">DN-WSJ</a> blade insert included. | 1   | \$;0etv:  |
| <b>DN-WS-PG</b>     | AutomationDirect automatic cutting and stripping tool, pistol grip, self-adjusting, AWG 34-8 capacity. <a href="#">DN-WSJ</a> blade insert included.   | 1   | \$;05[a1: |
| <b>DN-WSJ</b>       | <a href="#">DN-WS</a> and <a href="#">DN-WS-PG</a> replacement straight-blade insert; for PVC insulations; 34-8 AWG [0.02-10 mm <sup>2</sup> ]         | 1   | \$;0etx:  |
| <b>DN-WSMMC</b>     | <a href="#">DN-WS</a> and <a href="#">DN-WS-PG</a> 16 mm <sup>2</sup> blade insert; 10-5 AWG [4-16 mm <sup>2</sup> ]                                   | 1   | \$;0ety:  |
| <b>DN-WSVBC</b>     | <a href="#">DN-WS</a> and <a href="#">DN-WS-PG</a> V-blade insert; for harder insulations such as PTFE & PVC; 28-12 AWG [0.1-4 mm <sup>2</sup> ]       | 1   | \$;0etj:  |
| <b>DN-WSRJ</b>      | <a href="#">DN-WS</a> and <a href="#">DN-WS-PG</a> replacement jaw inserts                                                                             | 2   | \$;etz:   |
| <b>DN-CS-1</b>      | AutomationDirect heavy duty cable stripping tool, 11/64-1-9/16in capacity.                                                                             | 1   | \$;5[a4:  |
| <b>DN-CST</b>       | AutomationDirect sable stripping tool, 0.1 in (2.5mm) to 0.43 in (11mm) diameter capacity                                                              | 1   | \$;04,y:  |
| <b>DN-CST-BLADE</b> | <a href="#">DN-CST</a> replacement blade                                                                                                               | 1   | \$;04,z:  |

# Wiring Accessories – Cutting & Stripping Tools

## Cable Stripping Tool **DN-CST**

Small, simple, safe, and precise tool for removing insulation from copper and fiber optic audiovisual, data transmission, instrumentation, signal, and telephone cables.

- Precise: 9-position blade height adjustment wheel for fine adjustability and repeatability
- Easy to use: Squeeze the tool together to open the stripping cavity, insert cable, rotate once, and remove tool from cable. Separately pull scrap insulation off of cable.
- Safe: Smooth, rounded, pocketable, and lightweight design; no exposed blades
- Tough: Impact resistant nylon tested to over 50k cycles
- Economical: Replacement blades available
- Cable capacity: Ø 0.1-0.43 in [2.5-11 mm]
- Insulation thickness: Up to 0.04 in [1.0 mm]



**DN-CST Precision Stripping Tool**  
[Squeeze, insert cable, rotate, & remove]

## **DN-CST-BLADE** Replacement Blade



Precision Stripping Tool  
Easily replaceable blade

## Cable Stripping Tool **DN-CS-1**

**DN-CS-1** is an adjustable heavy-duty cable stripping tool for all insulation types. Unique features with interchangeable cable retention hooks giving it cable stripping capacity of up to 40 mm/1.57 inch diameter.

- Large capacity: Interchangeable hook feature means that **DN-CS-1** can replace two or more similar products in the toolbox.
- Easy to use: Positive locking positions for circular, lengthways and spiral strips.
- The blade automatically returns to its starting position at the end of a strip reducing the possibility of broken blades.
- No special tools are required to change hooks – one replaces the other. The blade height adjuster is almost friction free and is easy to rotate for fine blade height adjustment.
- Safety straps can be fixed to the eyelet at the base of **DN-CS-1** to prevent accidental dropping of the tool.
- Ergonomic: The well balanced design features rests for thumb, first and little fingers to ease raising of the cable retention hook.
- Tested to over 100,000 cycles.



Lengthways cable stripping option

**DN-CS-1 Cable Stripping Tool**  
[circular, lengthways, and spiral strips]



Spiral cable stripping option



Circular cable stripping option