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.

### Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Trip Indicator</th>
<th>Pcs/Pkg</th>
<th>Price</th>
<th>Part Number</th>
<th>Trip Indicator</th>
<th>Pcs/Pkg</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN-DIS2</td>
<td></td>
<td>50</td>
<td>$84.00</td>
<td>DN-DIS2MN</td>
<td></td>
<td>50</td>
<td>$84.00</td>
</tr>
<tr>
<td>DN-DIS2MN</td>
<td></td>
<td>10</td>
<td>$20.50</td>
<td>DN-DIS4</td>
<td></td>
<td>50</td>
<td>$84.00</td>
</tr>
<tr>
<td>DN-DIS2L12</td>
<td>12 VAC/DC LED</td>
<td>50</td>
<td>$108.00</td>
<td>DN-DIS4L12</td>
<td>12 VAC/DC LED</td>
<td>50</td>
<td>$108.00</td>
</tr>
<tr>
<td>DN-DIS2L24</td>
<td>24 VAC/DC LED</td>
<td>50</td>
<td>$108.00</td>
<td>DN-DIS4L24</td>
<td>24 VAC/DC LED</td>
<td>50</td>
<td>$108.00</td>
</tr>
<tr>
<td>DN-DIS2L24MN</td>
<td>24 VAC/DC LED</td>
<td>10</td>
<td>$24.50</td>
<td>DN-DIS4L24MN</td>
<td>24 VAC/DC LED</td>
<td>10</td>
<td>$24.50</td>
</tr>
</tbody>
</table>

### Technical Specifications

- **Stripping Length**: 5mm [0.20 in] to 6mm [0.24 in]
- **Tightening Torque**: 0.5 N·m [4.4 lb·in] to 0.8 N·m [7 lb·in]
- **UL Approval**: 300V 10A with SUPP
- **Operating Temperature**: Ambient air temperature: -20°C to 85°C [-4°F to 185°F], Relative humidity: 50% max at 40°C [104°F], 90% max at 20°C [68°F]
- **SCCR Rating**: 100kA per Table SB4.1, 2009, UL 508A, Maximum short circuit current rating for unmarked components
- **CE Conformity**: CE (EN 60947-1 / 60947-7-3)

### Accessories

- **End Cover/Spacers**
  - DN-FESPA: 50 pcs, $17.00
  - DN-FESPA-10: 10 pcs, $3.25
- **Separator**
  - DN-FESEP: 50 pcs, $17.00
  - DN-FESEP-10: 10 pcs, $3.25
- **35mm DIN Rail**
  - DN-R35S1: 50 pcs, $10.00
  - DN-R35S1-2: 10 pcs, $3.25
- **15mm DIN Rail**
  - DN-R35HS1: 50 pcs, $10.00
  - DN-R35HS1-2: 10 pcs, $3.25
- **End Brackets**
  - DN-EB35: 50 pcs, $44.00
  - DN-EB35MN: 20 pcs, $20.50
  - DN-EB35-A: 50 pcs, $31.50
  - DN-EB35-A-10: 10 pcs, $8.50
  - DN-EB35-A-10MN: 50 pcs, $28.00
  - DN-EB35-10: 10 pcs, $8.50
- **Angled Support Bracket**
  - DN-ASB1: 50 pcs, $55.00
- **Disconnect Blade**
  - DN-DIS-BLADE: 50 pcs, $24.00
  - DN-DIS-BMN: 10 pcs, $6.25
- **Marking Tags**
  - DN-LA or DN-LT series: 500/100, 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.

For latest prices, please check AutomationDirect.com/terminal-blocks
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.

### Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Trip Indicator</th>
<th>Pcs/Pkg</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN-FE2</td>
<td></td>
<td>50</td>
<td>$73.00</td>
</tr>
<tr>
<td>DN-FE2L12</td>
<td>12 VAC/DC LED</td>
<td>50</td>
<td>$99.00</td>
</tr>
<tr>
<td>DN-FE2L24</td>
<td>24 VAC/DC LED</td>
<td>50</td>
<td>$99.00</td>
</tr>
<tr>
<td>DN-FE2L24-5</td>
<td>12 VAC/DC LED</td>
<td>5</td>
<td>$10.00</td>
</tr>
<tr>
<td>DN-FE4</td>
<td></td>
<td>50</td>
<td>$73.00</td>
</tr>
<tr>
<td>DN-FE4L12</td>
<td>12 VAC/DC LED</td>
<td>50</td>
<td>$99.00</td>
</tr>
<tr>
<td>DN-FE4L24</td>
<td>24 VAC/DC LED</td>
<td>50</td>
<td>$99.00</td>
</tr>
<tr>
<td>DN-FE4L24-5</td>
<td>12 VAC/DC LED</td>
<td>5</td>
<td>$10.00</td>
</tr>
<tr>
<td>DN-FE2L50</td>
<td>5</td>
<td>50</td>
<td>$8.00</td>
</tr>
<tr>
<td>DN-FE4L50</td>
<td>5</td>
<td>50</td>
<td>$8.00</td>
</tr>
</tbody>
</table>

### Technical Specifications

- **Stripping Length**: 5mm [0.20 in], 6mm [0.24 in]
- **Tightening Torque**: 0.5 N·m [4.4 lb·in], 0.8 N·m [7 lb·in]
- **UL Approval**
  - 300V 10A with SUPP/20A with disconnect
  - 24-12 AWG*
- **Operating Temperature**
  - Ambient air temperature: -20°C to 105°C [-4°F to 221°F]
  - Relative humidity: 50% max at 40°C [104°F]; 90% max at 20°C [68°F]
- **SCCR Rating**: 100kA 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)

### Accessories

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Part Number</th>
<th>Pcs/Pkg</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>End Cover/Spacer**</td>
<td>DN-FESP</td>
<td>50</td>
<td>$17.00</td>
</tr>
<tr>
<td>End Cover/Spacer**-10</td>
<td>DN-FESP-10</td>
<td>10</td>
<td>$3.25</td>
</tr>
<tr>
<td>Jumper****</td>
<td>DN-JFECUT</td>
<td>1</td>
<td>$61.00</td>
</tr>
<tr>
<td>Jumper Cutting Tool</td>
<td>DN-R35S1</td>
<td>10</td>
<td>$31.00</td>
</tr>
<tr>
<td>Jumper Cutting Tool</td>
<td>DN-R35S1-2</td>
<td>2</td>
<td>$10.00</td>
</tr>
<tr>
<td>35mm DIN Rail</td>
<td>DN-R35HST1</td>
<td>10</td>
<td>$55.00</td>
</tr>
<tr>
<td>7.5 mm high</td>
<td>DN-R35S1L1</td>
<td>10</td>
<td>$14.00</td>
</tr>
<tr>
<td>15mm high</td>
<td>DN-R35S1L2</td>
<td>2</td>
<td>$14.00</td>
</tr>
<tr>
<td>End Brackets</td>
<td>DN-B35</td>
<td>50</td>
<td>$44.00</td>
</tr>
<tr>
<td>End Brackets</td>
<td>DN-B35MN</td>
<td>20</td>
<td>$20.50</td>
</tr>
<tr>
<td>Angled Support Bracket</td>
<td>DN-DIS-BLADE</td>
<td>50</td>
<td>$24.00</td>
</tr>
<tr>
<td>Angled Support Bracket</td>
<td>DN-DIS-BMN</td>
<td>10</td>
<td>$6.25</td>
</tr>
<tr>
<td>Supplementary Protector</td>
<td>DN-SUPP-x***</td>
<td>see next page</td>
<td>see next page</td>
</tr>
<tr>
<td>Marking Tags</td>
<td>DN-LA or DN-LT series</td>
<td>500/100</td>
<td>various</td>
</tr>
<tr>
<td>Marking Tags</td>
<td>DN-L or DN-LT series</td>
<td>500/100</td>
<td>various</td>
</tr>
</tbody>
</table>

*For copper wire only

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

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

****For jumper installation, use two End Covers/Spacers per DN-FE.

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

### Technical Notes

- For latest prices, please check AutomationDirect.com

---

For more information, please visit AutomationDirect.com. Contact us at 1-800-633-0405.
Supplementary Protectors

### Supplementary Protectors Specifications DN-SUPP-x Series

#### Voltage Rating
- **(UL – U.S. & Canada)**
  - 250VAC / 72VDC
- **(VDE)**
  - 250VAC / 65VDC

#### Typical Life Span
- 6,000 operations @ 1 x IN (low inductance)
- 3,000 operations @ 1 x IN (inductive)
- 500 operations @ 2 x IN (inductive)

#### Insulation Coordination
- Rated impulse withstand voltage 2.5 kV;
- reinforced insulation in operating area;
- pollution degree 2

#### Dielectric Strength
- Operating area: 3,000VAC
- Installation area: 1,500VAC

#### Insulation Resistance
- >100MΩ @ 500VDC

#### Interrupting Capacity
- **(UL 1077), SCCR**
  - 2,000A @ 250VAC; 200A @ 65VDC,
  - SCCR = 2kA with series overcurrent protection

#### Interrupting Capacity ICN
- 0.1 to 5A: 6 x IN
- 6 to 10A: 8 x IN

#### Degree of Protection
- **(IEC 60829 / DIN 40050)**
  - Operating area: IP40; terminal area: IP00

#### Vibration (without terminal block)
- 5g (57-500 Hz) ±0.38 mm (10-57 Hz) to IEC 6068-2-6; test Fc, 10 frequency cycles/axis and to EN 50155

#### Shock (without terminal block)
- 25g (11ms) to IEC 6068-2-27, test Ea

#### Corrosion
- 96 hours @ 5% salt mist to IEC 6068-2-11, test Ka

#### Usage Temperature
- -4°F to 140°F (-20°C to 60°C)

#### Humidity
- 240 hours @ 95% RH to IEC 6068-2-3, test Ca

#### Mass (weight)
- 15g (0.53 oz)

#### Agency Approval
- UL file # E320462 (435T Series); VDE

#### Mounting Restrictions
- When 2 or more devices are mounted side by side, each device should only carry 80% of its rating, or must be derated accordingly.

#### Supplementary Protectors for Terminal Block Sockets

- **DN-SUPP-P25**
  - 0.25 A
  - Internal Resistance: 14Ω
  - Terminal Block Socket Types: DN-FEx or DN-DISx if disconnect blade is removed
  - 20 Pcs /Pkg
  - **$220.00**

- **DN-SUPP-P25-1**
  - 1 Pcs
  - **$11.50**

- **DN-SUPP-P5**
  - 0.5 A
  - Internal Resistance: 3.4Ω
  - 1 Pcs
  - **$11.50**

- **DN-SUPP-P5-1**
  - 20 Pcs /Pkg
  - **$220.00**

- **DN-SUPP-1**
  - 1A
  - Internal Resistance: 0.9Ω
  - 20 Pcs /Pkg
  - **$220.00**

- **DN-SUPP-1-1**
  - 1 Pcs
  - **$11.50**

- **DN-SUPP-2**
  - 2A
  - Internal Resistance: 0.25Ω
  - 20 Pcs /Pkg
  - **$220.00**

- **DN-SUPP-2-1**
  - 1 Pcs
  - **$11.50**

- **DN-SUPP-3**
  - 3A
  - Internal Resistance: 0.11Ω
  - 20 Pcs /Pkg
  - **$220.00**

- **DN-SUPP-3-1**
  - 1 Pcs
  - **$11.50**

- **DN-SUPP-4**
  - 4A
  - Internal Resistance: 0.07Ω
  - 20 Pcs /Pkg
  - **$220.00**

- **DN-SUPP-4-1**
  - 1 Pcs
  - **$11.50**

- **DN-SUPP-6**
  - 6A
  - Internal Resistance: ≤0.05Ω
  - 20 Pcs /Pkg
  - **$220.00**

- **DN-SUPP-6-1**
  - 1 Pcs
  - **$11.50**

- **DN-SUPP-8**
  - 8A
  - Internal Resistance: ≤0.05Ω
  - 20 Pcs /Pkg
  - **$220.00**

- **DN-SUPP-8-1**
  - 1 Pcs
  - **$11.50**

- **DN-SUPP-10**
  - 10A
  - Internal Resistance: ≤0.05Ω
  - 20 Pcs /Pkg
  - **$220.00**

- **DN-SUPP-10-1**
  - 1 Pcs
  - **$11.50**

For latest prices, please check AutomationDirect.com
**Accessories**

**DN-L**
- **Fits terminal block types**: Screwless DINnectors, DN-T12-A, DN-M10-A, DN-MG, and DN-TL series
- **Material**: Thermoplastic with embossed black print

**DN-LA**
- **Fits terminal block types**: DN-T12-A series
- **Material**: Thermoplastic with heat embossed black print

**DN-LAT-A**
- **Fits terminal block types**: Triple level
- **Material**: Thermoplastic with heat embossed black print

**DN-QL**
- **Fits terminal block types**: Screwless DIN-Q series
- **Material**: Thermoplastic with heat embossed black print

**DN-LQ**
- **Material**: Thermoplastic with heat embossed black print

**Note**:
1. The marking sequence (i.e., 1-100) is printed five times in each package of 500 tags.
2. The DN-L tags fit all DINnectors 6mm wide and wider but will leave gap between tags on blocks wider than 6mm.
3. The DN-L tags fit all DINnectors 6mm wide and wider but will leave gap between tags on blocks wider than 6mm.

---

**Marking Sequence** | **Part #** | **Pcs/ Pkg** | **Price**
--- | --- | --- | ---
1-50 | DN-L50 | 500 | $36.50
51-100 | DN-L100 | 500 | $36.50
101-150 | DN-L150 | 500 | $36.50
151-200 | DN-L200 | 500 | $36.50
201-250 | DN-L250 | 500 | $36.50
251-300 | DN-L300 | 500 | $36.50
301-350 | DN-L350 | 500 | $36.50
351-400 | DN-L400 | 500 | $36.50
401-450 | DN-L450 | 500 | $36.50
Blank | DN-LB | 500 | $25.00
L1, L2, L3, L, N, GND, +, -COM.COM* | DN-LS | 500 | $36.50

**Marking Sequence** | **Part #** | **Pcs/ Pkg** | **Price**
--- | --- | --- | ---
1-100 | DN-LA100 | 500 | $36.50
101-200 | DN-LA200 | 500 | $36.50
201-300 | DN-LA300 | 500 | $36.50
301-400 | DN-LA400 | 500 | $36.50
Blank Tags | DN-LAB | 500 | $25.00
L1, L2, L3, L, N, GND, +, -COM.COM* | DN-LAS | 500 | $36.50

**Marking Sequence** | **Part #** | **Pcs/ Pkg** | **Price**
--- | --- | --- | ---
1-100 | DN-LAT100-A | 500 | $32.00
101-200 | DN-LAT200-A | 500 | $32.00
201-300 | DN-LAT300-A | 500 | $32.00
301-400 | DN-LAT400-A | 500 | $32.00
401-500 | DN-LAT500-A | 500 | $32.00
501-600 | DN-LAT600-A | 500 | $32.00
Blank Tags | DN-LATB-A | 500 | $25.00
L1, L2, L3, L, N, GND, +, -COM.COM* | DN-LATS-A | 500 | $32.00

**DN-LTA marker shown top; DN-LTGND shown bottom**

---

For latest prices, please check AutomationDirect.com
**Terminal Marking Accessories**

**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

<table>
<thead>
<tr>
<th>Part#</th>
<th>Description</th>
<th>Pcs/Pkg</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN-MP</td>
<td>Indelible black ink marking pen</td>
<td>1</td>
<td>$3.75</td>
</tr>
</tbody>
</table>

**Part # | Description | For Use With | Pcs/Pkg | Price Each |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DN-EMBL1</td>
<td>Blank labels</td>
<td>DN-EMPEG1 pin protectors for DN-XEMXX plug-in terminal blocks</td>
<td>100</td>
<td>$6.00</td>
</tr>
<tr>
<td>DN-EMBL2</td>
<td>Labels printed 1 – 12</td>
<td>DN-EMPEG1 pin protectors for DN-XEMXX plug-in terminal blocks</td>
<td>100</td>
<td>$8.25</td>
</tr>
<tr>
<td>DN-EMBL3</td>
<td>Labels printed 13 – 24</td>
<td>DN-EMPEG1 pin protectors for DN-XEMXX plug-in terminal blocks</td>
<td>100</td>
<td>$8.25</td>
</tr>
</tbody>
</table>

**Part # | Description | Pcs/Pkg | Price Each |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DN-WMTAG1</td>
<td>Wire tag – blank</td>
<td>all DN-WM-x wire tag holders</td>
<td>525</td>
</tr>
<tr>
<td>DN-WM-1</td>
<td>Wire tag holder, clear, 12mm length, 0.051–0.118 in diameter; for 22–16 AWG wire</td>
<td>200</td>
<td>$8.00</td>
</tr>
<tr>
<td>DN-WM-2</td>
<td>Wire tag holder, clear, 12mm length, 0.098–0.196 in diameter; for 16–11 AWG wire</td>
<td>200</td>
<td>$8.00</td>
</tr>
<tr>
<td>DN-WM-3</td>
<td>Wire tag holder, clear, 12mm length, 0.157–0.393 in diameter; for 13–5 AWG wire</td>
<td>100</td>
<td>$5.25</td>
</tr>
<tr>
<td>DN-WM-4</td>
<td>Wire tag holder, clear, 12mm length, 0.314–0.629 in diameter; for 4/0 AWG wire</td>
<td>100</td>
<td>$4.75</td>
</tr>
</tbody>
</table>

For latest prices, please check AutomationDirect.com