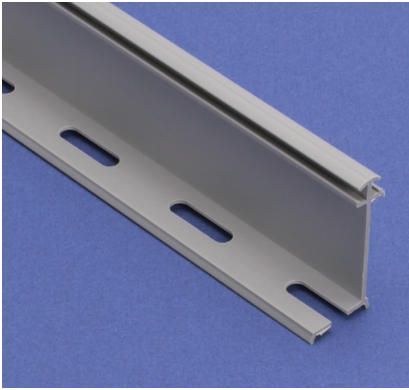



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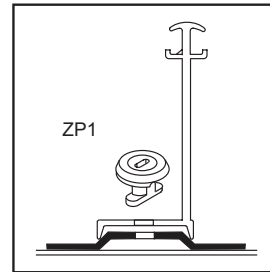
# Wire Duct – Accessories

## Duct Separators

Duct separators allow the physical separation of circuits within a single piece of duct. The various mounting arrangements allow alternate compartmentalization of duct and differing ratios of usable sections.



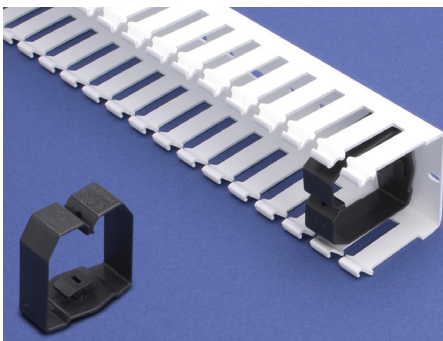
| Duct Separators                  |         |                               |       |     |               |                            |
|----------------------------------|---------|-------------------------------|-------|-----|---------------|----------------------------|
| Part Number                      | Price   | Description                   | Color | Qty | Length ft [m] | Drawing Link               |
| <a href="#"><u>SEP-15E-1</u></a> | \$8.25  | Separator for 1.5" high duct  | Gray  | 1   | 6.56 [2]      | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>SEP-22E-1</u></a> | \$11.00 | Separator for 2.25" high duct | Gray  | 1   |               | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>SEP-30E-1</u></a> | \$12.00 | Separator for 3.0" high duct  | Gray  | 1   |               | <a href="#"><u>PDF</u></a> |



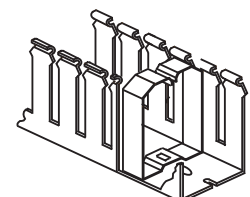
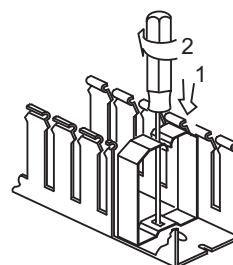
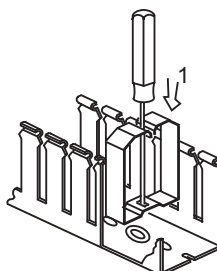
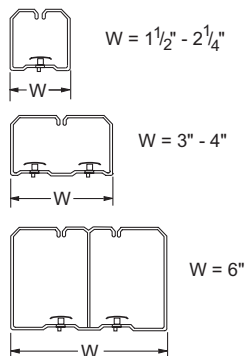
**SEP-E Mounting Detail**  
Order **ZP1** mount separately

## Wire Retainers

For holding wires during wiring operations, these retainers are essential. They allow easy access to the interior of the wire duct during maintenance or alterations, while assuring that wiring bundles will not fall out when the duct cover is removed. Installed with a simple rotating movement, they anchor firmly in the recess boss in the duct base.



| Wire Retainers                 |         |                                              |       |     |
|--------------------------------|---------|----------------------------------------------|-------|-----|
| Part Number                    | Price   | Description                                  | Color | Qty |
| <a href="#"><u>CL-1515</u></a> | \$69.00 | Wire retainer fastener for 1.5 x 1.5" duct   | Black | 40  |
| <a href="#"><u>CL-1522</u></a> | \$73.00 | Wire retainer fastener for 1.5 x 2.25" duct  |       | 40  |
| <a href="#"><u>CL-1530</u></a> | \$42.00 | Wire retainer fastener for 1.5 x 3.0" duct   |       | 20  |
| <a href="#"><u>CL-2215</u></a> | \$80.00 | Wire retainer fastener for 2.25 x 1.5" duct  |       | 40  |
| <a href="#"><u>CL-2222</u></a> | \$45.00 | Wire retainer fastener for 2.25 x 2.25" duct |       | 20  |
| <a href="#"><u>CL-2230</u></a> | \$46.00 | Wire retainer fastener for 2.25 x 3.0" duct  |       | 20  |
| <a href="#"><u>CL-2240</u></a> | \$51.00 | Wire retainer fastener for 2.25 x 4.0" duct  |       | 20  |
| <a href="#"><u>CL-3022</u></a> | \$28.00 | Wire retainer fastener for 3.0 x 2.25" duct  |       | 10  |
| <a href="#"><u>CL-3030</u></a> | \$31.50 | Wire retainer fastener for 3.0 x 3.0" duct   |       | 10  |
| <a href="#"><u>CL-3040</u></a> | \$31.50 | Wire retainer fastener for 3.0 x 4.0" duct   |       | 10  |
| <a href="#"><u>CL-4022</u></a> | \$35.00 | Wire retainer fastener for 4.0 x 2.25" duct  |       | 10  |
| <a href="#"><u>CL-4030</u></a> | \$31.50 | Wire retainer fastener for 4.0 x 3.0" duct   |       | 10  |
| <a href="#"><u>CL-4040</u></a> | \$21.50 | Wire retainer fastener for 4.0 x 4.0" duct   |       | 5   |
| <a href="#"><u>CL-6040</u></a> | \$26.50 | Wire retainer fastener for 6.0 x 4.0" duct   |       | 5   |



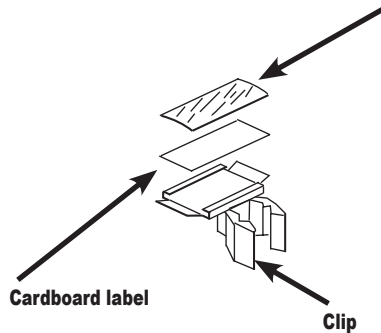

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# Wire Duct – Accessories

## Duct Marking Tags

| Part Number | Price   | Description                                                                                                                                    | Qty |
|-------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| <b>DM1</b>  | \$31.00 | Single-width white cardboard identification label for wire duct. Supplied with black plastic mounting clip and transparent plastic cover slide | 50  |

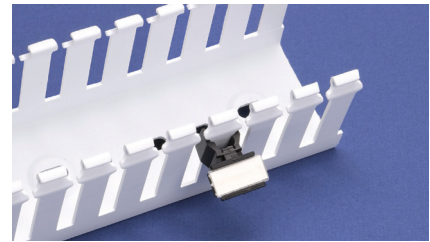
Note: **DM1** marking tags can only be used with T1 series wire duct.



## Identification Tags

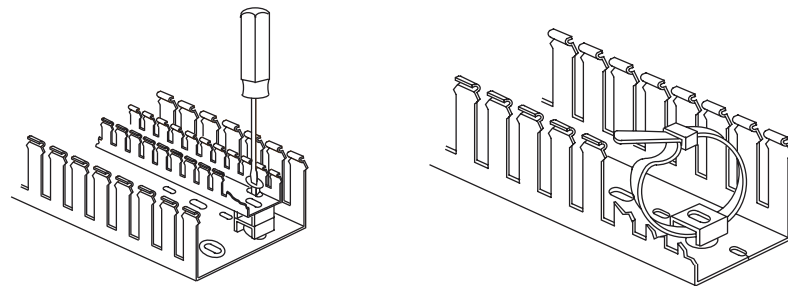
Allowing easy identification of control gear and switchgear, these tags are mounted by snapping the clip onto the sidewall finger segments of the duct. No gluing - no drilling! After installation, they need not be removed during maintenance or any work which involves the removal of the covers.

Note: Take care that clip is installed above the wires coming out to the sidewall slots.



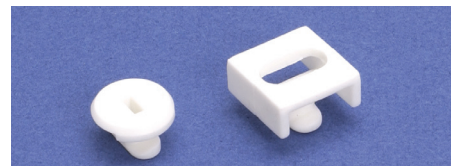
## Mounting Devices

| Part Number | Price   | Description                                                                          | Qty |
|-------------|---------|--------------------------------------------------------------------------------------|-----|
| <b>ZP1</b>  | \$16.50 | Round, white polyamide 'button' used to mount components and separators inside duct. | 100 |
| <b>ZP2</b>  | \$20.00 | Square white polyamide cable tie mount used to tighten a wire bundle inside duct.    | 50  |



## Mounting Inserts

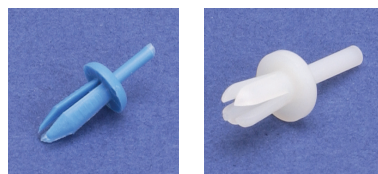
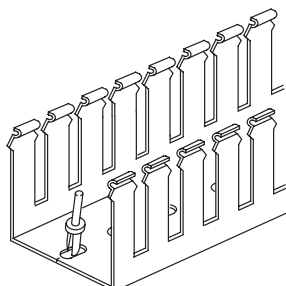
We carry mounts in two styles: ZP1 for mounting components and SEP-E separators inside duct, or for mounting small sizes of duct inside larger sizes (for separation of circuits with different functions); and ZP2, which is used with a cable tie to secure a wire bundle inside the duct.



## Wire Duct Rivets and Rivet Tools

| Part Number | Price   | Description                                                                                                   | Qty |
|-------------|---------|---------------------------------------------------------------------------------------------------------------|-----|
| <b>R4*</b>  | \$19.00 | Blue polyamide rivet used to install all types of wire duct with standard 4.5 mm [0.17 in] mounting holes.    | 250 |
| <b>B4</b>   | \$50.00 | Red polyamide rivet tool used to install R4 rivets.                                                           | 1   |
| <b>R6*</b>  | \$22.00 | Natural polyamide rivet used to install all types of wire duct with standard 6.5 mm [0.26 in] mounting holes. | 250 |
| <b>B6</b>   | \$50.00 | Yellow polyamide rivet tool used to install R6 rivets.                                                        | 1   |

\* R4 drill hole size - 5/32" (4mm), R6 drill hole size - 7/32" [5.5 mm]  
When using with Flexible wire duct, only the R4 rivet will currently work.



## Rivets and Rivet Tools

Wire duct rivets install quickly and easily with the companion rivet tool, offering good temperature resistance and excellent mechanical properties. They can be used to install all types of wire duct with standard mounting holes.




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# Wire Duct – Material Specifications

| Material Specifications            |               |                 |                    |                  |                       |                       |                     |                              |
|------------------------------------|---------------|-----------------|--------------------|------------------|-----------------------|-----------------------|---------------------|------------------------------|
| Materials                          | Test Standard | Unit of Measure | Rigid PVC          | Polypropylene    | PVC Molded Components | Polyamide 6           | Polyethylene        | Flame Retardant Polyethylene |
| Technical Characteristics          |               |                 |                    |                  |                       |                       |                     |                              |
| Chemical/Physical Properties       |               |                 |                    |                  |                       |                       |                     |                              |
| Specific Gravity                   | ASTM D792     | g/cm³           | 1.55               | 1.01             | 1.32                  | 1.14                  | 0.92                | 0.97                         |
| H <sub>2</sub> O 73.4°F Absorption | ISO 62        | %               | < 0.1              | 0.02             | < 0.1                 | 2.5                   | < 0.1               | < 0.1                        |
| Formaldehyde                       | –             | ppm             | absent             | absent           | absent                | absent                | absent              | absent                       |
| Cadmium                            | –             | ppm             | absent             | absent           | absent                | absent                | absent              | absent                       |
| Mechanical Properties              |               |                 |                    |                  |                       |                       |                     |                              |
| Tensile Stress at Break            | ASTM D638     | MPa             | 39                 | 28               | 30                    | 45                    | 17                  | 15                           |
| Traction Strength                  | ASTM D638     | MPa             | 44                 | 27               | 27                    | 55                    | 9.5                 | 9                            |
| Elongation at Break                | ASTM D638     | %               | 130                | 200              | 97                    | 250                   | 400                 | 600                          |
| Modulus of Elasticity at Traction  | ASTM D638     | MPa             | 4400               | n/a              | –                     | 950                   | –                   | 240                          |
| Modulus of Elasticity at Flexion   | ASTM D790     | MPa             | 3200               | 2100             | –                     | 1100                  | 210                 | 130                          |
| Thermal Properties                 |               |                 |                    |                  |                       |                       |                     |                              |
| Temperature VICAT                  | ASTM D1525    | °C              | 84                 | 95               | 70                    | 198                   | 89                  | –                            |
| HDT                                | ASTM D648     | °C              | 72                 | 60               | 60                    | 185                   | –                   | –                            |
| Coefficient of Expansion           | ASTM D696     | K <sup>-1</sup> | 6x10 <sup>-5</sup> | 10 <sup>-5</sup> | 8x10 <sup>-5</sup>    | 8-10x10 <sup>-5</sup> | 22x10 <sup>-5</sup> | 10 <sup>-5</sup>             |
| Specific Heat                      | ASTM C351     | kJ/kgK          | 0.94               | n/a              | 1.24                  | 1.7                   | –                   | –                            |
| Thermal Conductivity               | ASTM C177     | W/mK            | 0.14               | 0.21             | 0.14                  | 0.29                  | 0.32                | 0.32                         |
| Electrical Properties              |               |                 |                    |                  |                       |                       |                     |                              |
| Dielectric Constant                | ASTM D150     | –               | 3.2 - 4.0          | 2.5              | 3.2                   | 5.0                   | 2.4                 | 2.3                          |
| Dielectric Strength                | IEC 243       | kV/mm           | 70                 | 25               | 60                    | 35                    | 90                  | 90                           |
| Surface Resistance                 | IEC 93        | Ω               | 10 <sup>13</sup>   | 10 <sup>13</sup> | 10 <sup>13</sup>      | 5x10 <sup>11</sup>    | 10 <sup>13</sup>    | 10 <sup>13</sup>             |
| Self-Extinguishing                 |               |                 |                    |                  |                       |                       |                     |                              |
| Self-Extinguishing UL 94 1.6 mm    | UL 94         | –               | V-0                | V-0              | V-0                   | V-2                   | HB                  | V-2                          |
| Self-Extinguishing UL 94 3.2 mm    | UL 94         | –               | V-0                | V-0              | V-0                   | V-2                   | HB                  | V-2                          |
| Hot Wire Test (2 mm)               | IEC 695-2-1   | °C              | 960                | 960              | 960                   | 650                   | 650                 | 850                          |
| Oxygen Number                      | ASTM D2863    | %               | 43                 | 30               | 34                    | 25                    | –                   | 25                           |