



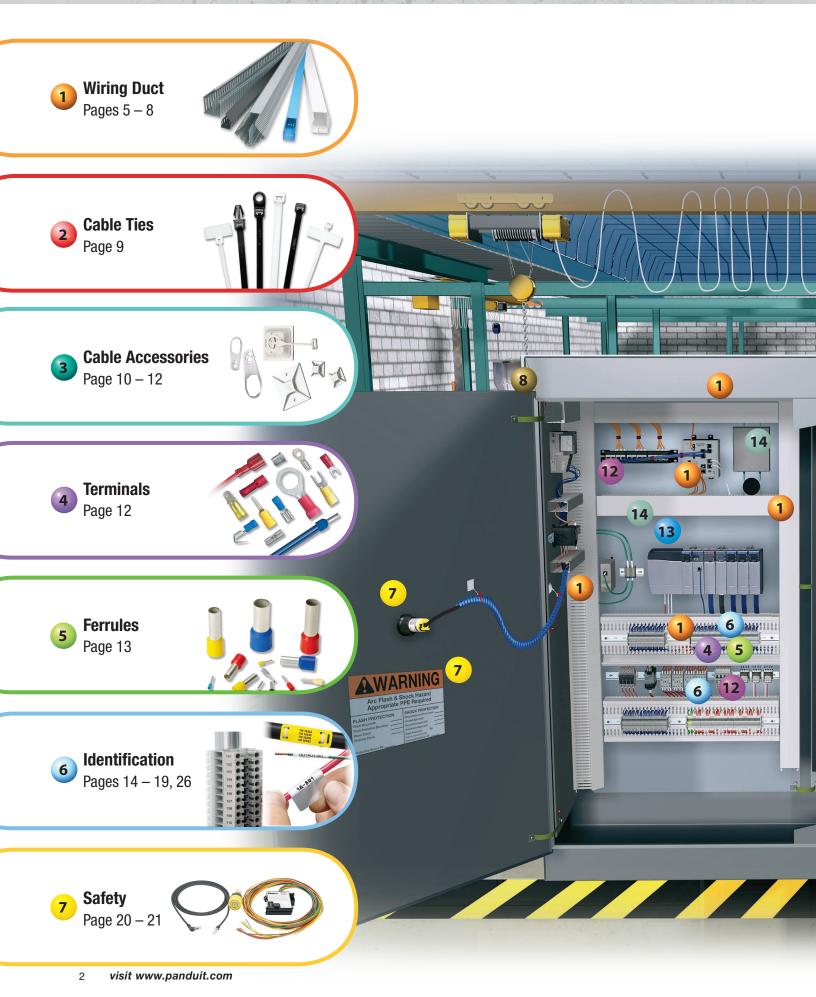
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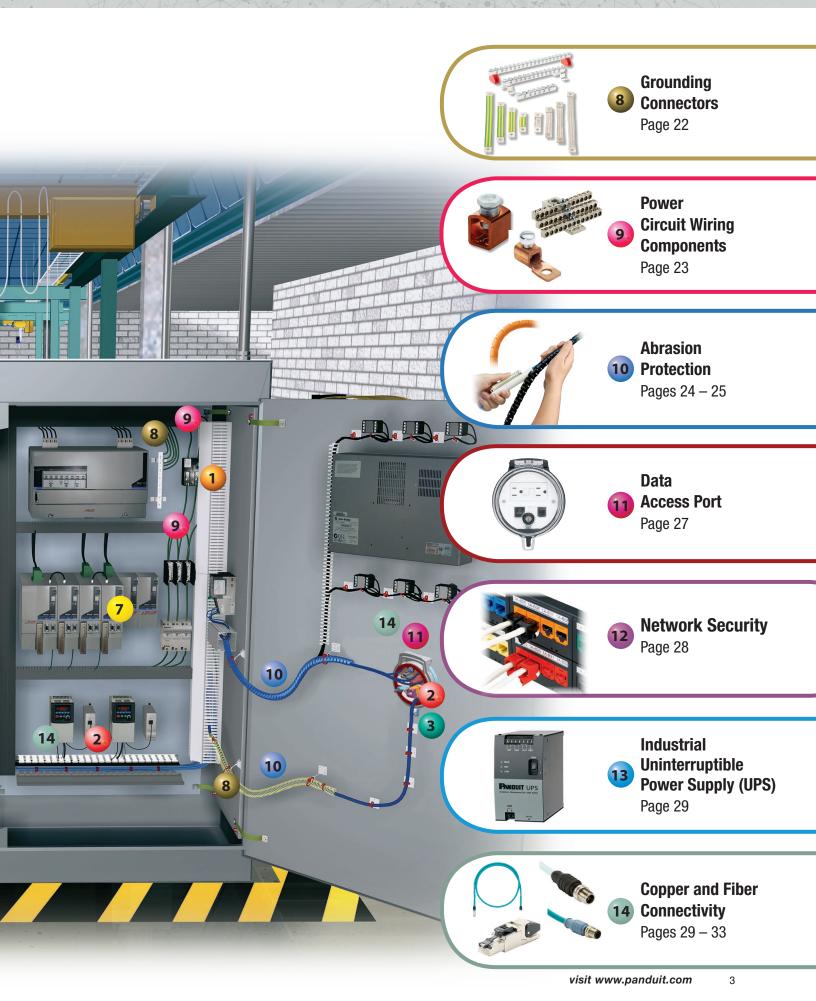
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# **Innovative Products for Reliable Control Panel Performance**



# Everything you need to enable space optimization, productivity, safety and security.



# Panduit Control Panel Solutions Deliver Reliable System Performance

### **Optimizing Space in the Control Panel (pages 5-8)**

In manufacturing organizations, real estate is typically one of the biggest expenses associated with running the business. As a result, production facility managers are under pressure to manage their space in the most effective and efficient manner to minimize capital and operational expenses. This can mean placing as much equipment as possible into a given area in the facility, which challenges equipment designers and builders to reduce the size and footprint of the machines they create. This, in turn, challenges the controls engineers to design and build control panels within a smaller footprint or fit more equipment into an existing space. There are many challenges associated with designing smaller control panels. Considerations for cable segregation, thermal management, cable entry, electromagnetic interference (EMI), cable bend radius and space for future expansion must be addressed when attempting to reduce the size of control panels.

### **Improving Productivity in Control Panel Applications (pages 9-19)**

Efficiency. Output. Yield. Productivity. Businesses today insist on accomplishing as much as possible in as little time as possible. Products and processes that maximize uptime, reduce costs and meet production deadlines are in high demand as machine designers and builders race to remain competitive and deliver upon their customer's expectations.

## Mitigating Security and Safety Risks (pages 20-28)

Integrating the security element into equipment and enclosures is essential as it allows design/controls engineers to create multiple layers of security that work together to protect the network and equipment without retrofitting or replacing components. Physical security solutions that help control access to automation devices can be effective additions to other layers of security employed in contemporary control systems. Panduit offers diverse and complete solutions for protecting equipment from intentional and unintentional security threats to add value to their customers' physical security needs.

While safety in the workplace is everyone's responsibility, it is particularly crucial that facility managers, electricians, and control panel engineers take all recommended precautions to ensure a safe environment for employees. These precautions not only prevent harm and danger, but also impact the bottom line, both directly and indirectly. Panduit has developed a wide range of solutions designed to protect workers against mechanical, electrical and hazardous situations, as well as products that provide multiple layers of security that work together to protect equipment.

### The Connected Control Panel (pages 29-33)

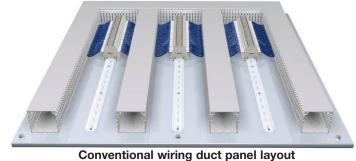
The manufacturing plant floor is undergoing dramatic changes that require businesses to adopt new strategies to fully utilize Industrial Ethernet through things such as advanced motor controls and control architectures to improve efficiencies, increase productivity and drive out costs.

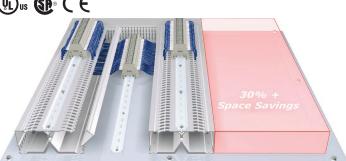
The increasing number of Ethernet nodes on the plant floor and the need to measure productivity in real-time are frequent challenges. Greater use of Ethernet connected advanced controllers, computers and high-speed motion control and power electronics require new design strategies beyond traditional panel selection and layout to ensure the automation systems deliver improved network performance and accommodate an increasing use of Industrial Ethernet managed switches and networked devices. Copper and fiber connectivity for harsh environment deployments, DIN rail mountable patching devices, Motor Control Center (MCC) Connectivity, and Uninterruptible Power Supplies are integrated into the control panel design for a complete network Connected Control Panel.

### **Space Optimization**

Regardless of the challenges encountered, Panduit solutions will provide maximum optimization of the limited space inside a control panel. Optimized control systems increase design flexibility and organization while providing robust, environment-rated solutions that ensure ideal performance, availability and uptime.

# Panduct<sup>®</sup> PanelMax<sup>™</sup> DIN Rail Wiring Duct (⊕) Stress C €

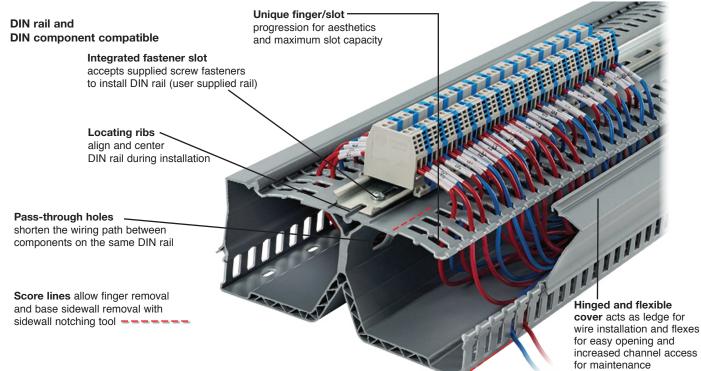




DIN rail wiring duct panel layout with 30% space savings

| A Manufacture and a second | Part Number | Description   | Std.<br>Pkg.<br>Qty. |
|----------------------------|-------------|---|----------------------|
| Contraction                | DRD22LG6    | 2" height PanelMax <sup>™</sup> DIN Rail Wiring Duct with dual wiring channels. Base, covers, and DIN rail fasteners included. Length 6'. | 6 Ft.                |
| DRD                        | DRD33LG6    | 3" height PanelMax <sup>™</sup> DIN Rail Wiring Duct with dual wiring channels. Base, covers, and DIN rail fasteners included. Length 6'  | 6 Ft.                |
|                            | DRD44LG6    | 4" height PanelMax <sup>™</sup> DIN Rail Wiring Duct with dual wiring channels. Base, covers, and DIN rail fasteners included. Length 6'. | 6 Ft.                |
| C C                        | DRDC2LG6    | 2" Replacement Cover for PanelMax <sup>™</sup> Rail Duct. Length 6'.  | 6 Ft.                |
|                            | DRDC3LG6    | 3" Replacement Cover for PanelMax <sup>™</sup> Rail Duct. Length 6'.  | 6 Ft.                |
|                            | DRDC4LG6    | 4" Replacement Cover for PanelMax <sup>™</sup> Rail Duct. Length 6'.  | 6 Ft.                |
| DRDWR                      | DRDSF-C     | Replacement DIN rail fasteners for PanelMax <sup>™</sup> DIN Rail Wiring Duct.  | 100 Pcs.             |
|                            | DRDWR2-X    | 2" wire retainer for PanelMax <sup>™</sup> DIN Rail Wiring Duct, Black. 10 per package.   | 10 Pcs.              |
|                            | DRDWR3-X    | 3" wire retainer for PanelMax <sup>™</sup> DIN Rail Wiring Duct, Black. 10 per package.   | 10 Pcs.              |
|                            | DRDWR4-X    | 4" wire retainer for PanelMax <sup>™</sup> DIN Rail Wiring Duct, Black. 10 per package.   | 10 Pcs.              |
|                            | DRDCS2-X    | 2" corner strip for PanelMax <sup>™</sup> DIN Rail Wiring Duct. 10 per package.   | 10 Pcs.              |
|                            | DRDCS3-X    | 3" corner strip for PanelMax <sup>™</sup> DIN Rail Wiring Duct. 10 per package.   | 10 Pcs.              |
| DRDCS                      | DRDCS4-X    | 4" corner strip for PanelMax <sup>™</sup> DIN Rail Wiring Duct. 10 per package.   | 10 Pcs.              |

Product is sold base and cover together in 6 ft, lengths. Part numbers shown in LG (Light Gray); also available in WH (White).



# **Space Optimization**

# Panduct<sup>®</sup> PanelMax<sup>m</sup> Corner Wiring Duct $\mathbf{W} \otimes \mathbf{C} \in \mathbf{C}$





CWD3LG6 CWD4LG6

CDCLP3 CDCLP4

**D4H6** SD4H6

PanelMax<sup>™</sup> Corner Wiring Duct is used in the vertical corners of medium to large electrical control panels (with both side and back panels) to route, conceal, and protect electrical wiring.

| Part<br>Number | Part Description  | W x H<br>In. | W x H<br>(mm) | Cover<br>Part<br>Number | Std.<br>Pkg.<br>Qty. |
|----------------|---|--------------|---------------|-------------------------|----------------------|
| CWD2LG6        | One-piece corner wiring duct for use with 2" height wiring duct. Cover sold separately. | 3.35 x 2.57  | 85.0 x 65.3   | C2LG6                   | 6 Ft.                |
| CWD3LG6        | One-piece corner wiring duct for use with 3" height wiring duct. Cover sold separately. | 4.40 x 3.57  | 111.8 x 90.7  | C2LG6                   | 6 Ft.                |
| CWD4LG6        | One-piece corner wiring duct for use with 4" height wiring duct. Cover sold separately. | 5.33 x 4.58  | 135.3 x 115.7 | C2LG6                   | 6 Ft.                |

Part numbers shown in LG (Light Gray); also available in WH (White).

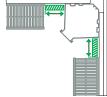
| Part<br>Number | Part Description   | Screw or Fastener Required  | Std.<br>Pkg.<br>Qty. |
|----------------|--|---|----------------------|
| CDCLP2         | Quick mounting clip for installing CWD2 corner wiring duct.                          | #10 - 32 x 1/4 (user supplied)  | 16<br>Pcs.           |
| CDCLP3         | Quick mounting clip for installing CWD3 corner wiring duct.                          | #10 – 32 x 1/2" (user supplied)                                       | 16<br>Pcs.           |
| CDCLP4         | Quick mounting clip for installing CWD4 corner wiring duct.                          | #10 - 32 x 1/2" (user supplied)                                       | 16<br>Pcs.           |
| D4H6           | 4" height solid divider wall for use with CWD2,<br>CWD3, or CWD4 corner wiring duct. | Installs directly to PanelMax <sup>™</sup> Corner<br>Wiring Duct base | 6 Ft.                |
| SD2H6          | 2" height slotted divider wall for use with CWD2, CWD3, or CWD4 corner wiring duct.  | Installs directly to PanelMax <sup>™</sup> Corner<br>Wiring Duct base | 6 Ft.                |
| SD3H6          | 3" height slotted divider wall for use with CWD2, CWD3, or CWD4 corner wiring duct.  | Installs directly to PanelMax <sup>™</sup> Corner<br>Wiring Duct base | 6 Ft.                |
| SD4H6          | 4" height slotted divider wall for use with CWD2, CWD3, or CWD4 corner wiring duct.  | Installs directly to PanelMax <sup>™</sup> Corner<br>Wiring Duct base | 6 Ft.                |

# Examples of Space Savings Using 48" W x 24" D x 60" H Enclosure



moves conventional duct outward.





Gains up to 5ft<sup>2</sup> mounting space per enclosure (over 72" height)

| Description  | Conventional          | With PanelMax™<br>Corner<br>Wiring Duct  | Benefits  |
|--|-----------------------|--|---|
| Sub-Panel Space Savings                                    |                       |  |   |
| Usable sub-panel mounting area<br>(assumes 60"H enclosure) | 28.7 ft. <sup>2</sup> | 32.2 ft. <sup>2</sup>                    | Provides 12% more space,<br>maximizing space utilization for<br>more panel components and greater<br>flexibility in panel layout design |
| Footprint Space Savings                                    |                       |  |   |
| Footprint width x depth<br>(square footage)                | 48" x 24"<br>(8 ft.²) | 43.5" x 21.7"<br>(6.6 ft. <sup>2</sup> ) | Provides 12% more space,<br>maximizing space utilization for<br>more panel components and greater<br>flexibility in panel layout design |
| Floor space cost**   | \$560                 | \$462***                                 | 18% reduction in enclosure size;<br>ideal for space contrained<br>environments  |
| Encloseure and sub-panel costs                             | \$3,700               | \$3,050***                               | \$650 in enclosure savings  |

\*\*Based on \$70/square foot industrial facility construction cost.

\*\*\*This is a representative application. Actual savings dependent on wiring duct size, component layout and enclosure size and type. Footprint savings is based on commercially available enclosures and may not be achievable in some applications.

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# Panduct<sup>®</sup> PanelMax<sup>M</sup> Shielded Wiring Duct and Noise Shield $\mathbf{N}$ $\mathfrak{G}$ $\in$ $\in$

Panduit noise shielding solution is designed to reduce the effects of EMI/RFI (electromagnetic interference, radio frequency interference) and provide space optimization within industrial control panels. The shielding provides up to 20dB reduction in noise, or 90% noise voltage reduction (NVR), which is equivalent to 6 inches of air spacing, generating valuable panel space savings of 40% or more.



| Part Number       | Description  | Std.<br>Pkg.<br>Qty. |
|-------------------|--|----------------------|
| G2X2LG6EMI        | 2" x 2" PanelMax <sup>™</sup> Shielded Wiring Duct; 6' length. Foil metal finish includes anti-oxidizing paste. Cover sold separately. | 12 Ft.               |
| G2X3LG6EMI        | 2" x 3" PanelMax <sup>™</sup> Shielded Wiring Duct; 6' length. Foil metal finish includes anti-oxidizing paste. Cover sold separately. | 12 Ft.               |
| G2X4LG6EMI        | 2"x 4" PanelMax <sup>™</sup> Shielded Wiring Duct; 6' length. Foil metal finish includes anti-oxidizing paste. Cover sold separately.  | 12 Ft.               |
| Use C2LG6 cover w | ith shielded wiring duct. Standard package quantity in feet.   |                      |



| Part Number | Description  | Std.<br>Pkg.<br>Qty. |
|-------------|--|----------------------|
| SD2EMI      | EMI noise shield kit for 2" height Panduit wiring duct; two 3' sections, bonding clips, and anti-oxidizing paste.    | 1                    |
| SD3EMI      | EMI noise shield kit for 3" height Panduit wiring duct; two 3' sections,<br>bonding clips, and anti-oxidizing paste. | 1                    |
| SD4EMI      | EMI noise shield kit for 4" height Panduit wiring duct; two 3' sections,<br>bonding clips, and anti-oxidizing paste. | 1                    |
| SDCLIP      | Noise shield replacement bonding clips - 2 clips.  | 1                    |

# Panduct<sup>®</sup> Type F Narrow Slot Wiring Duct 🔊 👁

Narrow slot/finger design provides more slots to fit the spacing of high-density terminal blocks and other hardware. Cover sold separately.



|             | Duct Size (W x H) |               | Slot Width |     | Cover          | Std.         | Base         | Cover        |
|-------------|-------------------|---------------|------------|-----|----------------|--------------|--------------|--------------|
| Part Number | In.               | mm            | In.        | mm  | Part<br>Number | Pkg.<br>Qty. | Ctn.<br>Qty. | Ctn.<br>Qty. |
| F1X1LG6     | 1.25 x 1.13       | 32.0 x 28.7   | 0.20       | 5.0 | C1LG6          | 6            | 120          | 120          |
| F1X1.5LG6   | 1.25 x 1.62       | 32.0 x 41.1   | 0.20       | 5.0 | C1LG6          | 6            | 120          | 120          |
| F1X2LG6     | 1.25 x 2.12       | 32.0 x 53.8   | 0.20       | 5.0 | C1LG6          | 6            | 120          | 120          |
| F1X3LG6     | 1.25 x 3.13       | 32.0 x 79.4   | 0.20       | 5.0 | C1LG6          | 6            | 120          | 120          |
| F1X4LG6     | 1.25 x 4.10       | 32.0 x 104.1  | 0.20       | 5.0 | C1LG6          | 6            | 60           | 120          |
| F1.5X2LG6   | 1.75 x 2.12       | 44.5 x 53.8   | 0.20       | 5.0 | C1.5LG6        | 6            | 120          | 120          |
| F1.5X3LG6   | 1.75 x 3.12       | 44.5 x 79.2   | 0.20       | 5.0 | C1.5LG6        | 6            | 120          | 120          |
| F1.5X4LG6   | 1.75 x 4.10       | 44.5 x 104.1  | 0.20       | 5.0 | C1.5LG6        | 6            | 60           | 120          |
| F2X4LG6     | 2.25 X 4.10       | 57.2 X 104.1  | 0.20       | 5.0 | C2LG6          | 6            | 60           | 120          |
| F2X5LG6     | 2.25 x 5.10       | 57.2 x 129.5  | 0.20       | 5.0 | C2LG6          | 6            | 60           | 120          |
| F3X4LG6     | 3.25 X 4.10       | 82.6 X 104.1  | 0.20       | 5.0 | C3LG6          | 6            | 60           | 120          |
| F3X5LG6     | 3.25 x 5.10       | 82.6 x 129.5  | 0.20       | 5.0 | C3LG6          | 6            | 60           | 120          |
| F4X4LG6     | 3.25 X 5.10       | 82.6 X 129.5  | 0.20       | 5.0 | C4LG6          | 6            | 60           | 120          |
| F4X5LG6     | 4.25 x 5.10       | 108.0 x 129.5 | 0.20       | 5.0 | C4LG6          | 6            | 60           | 120          |

# Panduct<sup>®</sup> Type G Wide Slot Wiring Duct 🔊 🐨 🖤

Wide slot/finger design provides greater sidewall rigidity and can be used with a wide range of wire bundle sizes. Cover sold separately.



|             | Duct Size   | e (W x H)*    | Slot Width |       | Cover          | Std.         | Base         | Cover        |
|-------------|-------------|---------------|------------|-------|----------------|--------------|--------------|--------------|
| Part Number | In.         | mm            | In.        | mm    | Part<br>Number | Pkg.<br>Qty. | Ctn.<br>Qty. | Ctn.<br>Qty. |
| G1X1LG6     | 1.25 x 1.12 | 32.0 x 28.4   | 0.31       | 7.9   | C1LG6          | 6            | 120          | 120          |
| G1X1.5LG6   | 1.25 x 1.62 | 32.0 x 41.1   | 0.31       | 7.9   | C1LG6          | 6            | 120          | 120          |
| G1X2LG6     | 1.25 x 2.12 | 32.0 x 53.8   | 0.31       | 7.9   | C1LG6          | 6            | 120          | 120          |
| G1X3LG6     | 1.25 x 3.12 | 32.0 x 79.2   | 0.31       | 7.9   | C1LG6          | 6            | 120          | 120          |
| G1X4LG6     | 1.25 x 4.10 | 32.0 x 104.1  | 0.31       | 7.9   | C1LG6          | 6            | 60           | 120          |
| G1.5X2LG6   | 1.75 x 2.12 | 44.5 x 53.8   | 108.0      | 129.5 | C1.5LG6        | 6            | 120          | 120          |
| G1.5X3LG6   | 1.75 x 3.12 | 44.5 x 79.2   | 0.31       | 7.9   | C1.5LG6        | 6            | 120          | 120          |
| G1.5X4LG6   | 1.74 x 4.10 | 44.5 x 104.1  | 0.31       | 7.9   | C1.5LG6        | 6            | 60           | 120          |
| G2X4LG6     | 2.25 x 4.10 | 57.2 X 104.1  | 0.31       | 7.9   | C2LG6          | 6            | 60           | 120          |
| G2X5LG6     | 2.25 x 5.10 | 57.2 x 129.5  | 0.38       | 9.7   | C2LG6          | 6            | 60           | 120          |
| G3X4LG6     | 3.25 x 4.10 | 82.6 x 104.1  | 0.31       | 7.9   | C3LG6          | 6            | 60           | 120          |
| G3X5LG6     | 3.25 x 5.10 | 82.6 x 129.5  | 0.38       | 9.7   | C3LG6          | 6            | 60           | 120          |
| G4X4LG6     | 4.25 x 4.10 | 108.0 x 104.1 | 0.31       | 7.9   | C4LG6          | 6            | 60           | 120          |
| G4X5LG6     | 4.25 x 5.10 | 108.0 x 129.5 | 0.38       | 9.7   | C4LG6          | 6            | 60           | 120          |

# **Panduct® Installation Tools**

Easily install Panduct® Products with the bench mount or hand-held duct cutting tool.



| Part Number | Part Description  | Std.<br>Pkg.<br>Qty. |
|-------------|---|----------------------|
| DCT         | Hand-held duct cutting tool.  | 1                    |
| DFCT        | Hand-held duct finger cutting tool.   | 1                    |
| DNT-100     | Hand-held sidewall notching tool.   | 1                    |
| NR1-M       | Nylon rivet for use with TNR rivet tool.  | 1000                 |
| PBDCT*      | Panduit bench-mount duct cutting tool. Cuts slotted wiring ducts and wiring duct covers with up to 6" width and up to 5" height. Full 78.74" (2 meter) measuring scale. Includes safety guarding. | 1                    |
| TNR         | Hand-held nylon rivet installation tool.  | 1                    |



\*If ordering PBDCT outside the U.S., these part numbers must both be ordered: PBDCT-B and PBDCT-M.

# **Productivity**

Panduit has never stopped improving, advancing or reinventing its products to meet modern challenges. We are committed to providing manufacturers with the keys to efficient and effective productivity. Panduit products tap into a 60-year legacy of knowledge, experience, and innovation to provide high quality tools and products that allow designers and builders to be more competitive, more productive, more flexible and, more profitable.

# Cable Ties 🔊 🚯 🕬

Fasten, bundle, clamp and manage wiring with cable ties and tools designed to speed installation and improve operator safety.



| Dort Number | Description  | Std.<br>Pkg. |
|-------------|--|--------------|
| Part Number | Description  | Qty.         |
| BT1M-C      | Dome-Top <sup>®</sup> barb ty cable tie, miniature cross section, 4.0 (102mm) length, nylon 6.6, natural, standard package.                                | 100<br>Pcs.  |
| BT1.5M-M    | Dome-Top® barb ty cable tie, miniature cross section, 6.3 (160mm) length, nylon 6.6, natural, bulk package.  | 1000<br>Pcs. |
| BT2I-M0     | Dome-Top® barb ty cable tie, intermediate cross section, 8.0 (203mm) length, weather resistant nylon 6.6, black, bulk package.                             | 1000<br>Pcs. |
| BT2M-M      | Dome-Top® barb ty cable tie, miniature cross section, 7.9 (201mm) length, nylon 6.6, natural, bulk package.  | 1000<br>Pcs. |
| BT2S-C      | Dome-Top <sup>®</sup> barb ty cable tie, standard cross section, 8.0 (203mm) length, nylon 6.6, natural, standard package.                                 | 100<br>Pcs.  |
| BT3I-M      | Dome-Top® barb ty cable tie, intermediate cross section, 11.3 (287mm) length, nylon 6.6, natural, bulk package.  | 1000<br>Pcs. |
| BT3S-C0     | Dome-Top <sup>®</sup> barb ty cable tie, standard cross section, 12.0 (305mm) length, weather resistant nylon 6.6, black, standard package.                | 100<br>Pcs.  |
| BT4S-M0     | Dome-Top <sup>®</sup> barb ty cable tie, standard cross section, 15.1 (384mm) length, weather resistant nylon 6.6, black, bulk package.                    | 1000<br>Pcs. |
| PLA2S-A-C   | Combination adhesive mount/cable tie; White; mounting base 1.0" x 0.9" (25mm x23mm); nylon 6.6.  | 100<br>Pcs.  |
| PLM1M-C     | Panduit <sup>®</sup> Marker Tie, wrap, Miniature cross section, 3.9" (99mm) length, 0.26" x 0.95" (6.6 x 24.1mm) marker write-on area, nylon 6.6, Natural. | 100<br>Pcs.  |
| PLT1M-C     | Panduit <sup>®</sup> Locking Tie, Miniature cross section, 3.9" (99mm) length, nylon 6.6, Natural.   | 100<br>Pcs.  |
| PLT1.5M-M   | Panduit <sup>®</sup> locking tie, miniature cross section, 5.6 (142mm) length, nylon 6.6, natural, bulk package.   | 1000<br>Pcs. |
| PLT2I-M     | Panduit <sup>®</sup> locking tie, intermediate cross section, 8.0 (203mm) length, nylon 6.6, natural, bulk package.  | 1000<br>Pcs. |
| PLT2M-C     | Panduit® Locking Tie, Miniature cross section, 8.0" (203mm) length, nylon 6.6, Natural.  | 100<br>Pcs.  |
| PLT2S-C     | Panduit <sup>®</sup> Locking Tie, Standard cross section, 7.4" (188mm) length, nylon 6.6, Natural.   | 100<br>Pcs.  |
| PLT3I-M0    | Panduit <sup>®</sup> locking tie, intermediate cross section, 11.4 (290mm) length, weather resistant nylon 6.6, black, bulk package.                       | 1000<br>Pcs. |
| PLT3S-C     | Panduit <sup>®</sup> locking tie, standard cross section, 11.5 (292mm) length, nylon 6.6, natural, standard package.                                       | 100<br>Pcs.  |
| PLT4S-C0    | Panduit <sup>®</sup> locking tie, standard cross section, 14.5 (368mm) length, weather resistant nylon 6.6, black, standard package.                       | 100<br>Pcs.  |
| GTS-E       | Ergonomic cable tie hand tool; installs Subminiature, Miniature, Intermediate, Standard cable tie cross sections; material: impact resistant resin.        | 1<br>Pc.     |

# Adhesive Cable Tie Mounts 🔊

Panduit adhesive backed cable tie mounts are a product the control panel industry depends upon to secure wires and cables where mounting holes cannot be drilled. The adhesive backed mounts use premium Panduit adhesive for a long-term reliable bond. Multiple sizes, colors, and adhesive options allow for a selection of mounts to meet customer dependent applications. Mounts should be used with compatible Panduit cable ties for a complete wire routing solution.



|                 |   | Std.<br>Pkg. |
|-----------------|---|--------------|
| Part Number     | Description   | Qty.         |
| ABM100-A-C      | 4-way adhesive backed cable tie mount; 1" x 1"<br>(25.4mm x 25.4mm); nylon 6.6. Natural.                      | 100<br>Pcs.  |
| ABM100-AT-C0    | 4-way acrylic adhesive backed cable tie mount; 1" x 1"<br>(25.4mm x 25.4mm); nylon 6.6. Black.                | 100<br>Pcs.  |
| ABM112-A-C      | 4-way adhesive backed cable tie mount; 1.12" x 1.12"<br>(28.5mm x 28.5mm); nylon 6.6. Natural.                | 100<br>Pcs.  |
| ABM112-AT-C0    | 4-way acrylic adhesive backed cable tie mount; 1.12" x 1.12"<br>(28.5mm x 28.5mm); nylon 6.6. Black.          | 100<br>Pcs.  |
| ABM1M-A-C       | 4-way adhesive backed cable tie mount; 0.50" x 0.50"<br>(12.7mm x 12.7mm); nylon 6.6. Natural.                | 100<br>Pcs.  |
| ABMM-A-C        | 4-way adhesive backed cable tie mount; 0.75" x 0.75"<br>(19.1mm x 19.1mm); ABS. Natural.                      | 100<br>Pcs.  |
| ABMM-AT-C0      | 4-way acrylic adhesive backed cable tie mount; 0.75" x 0.75" (19.1mm x 19.1mm); weather-resistant ABS. Black. | 100<br>Pcs.  |
| ABM2S-A-C       | 4-way adhesive backed cable tie mount; 1" x 1" (25.4mm x 25.4mm); ABS. White.                                 | 100<br>Pcs.  |
| ABM2S-AT-C0     | 4-way acrylic adhesive backed cable tie mount; 1" x 1" (25.4mm x 25.4mm); ABS. Black.                         | 100<br>Pcs.  |
| ABM3H-A-L       | 4-way adhesive backed cable tie mount; 1.5" x 1.5"<br>(38.1mm x 38.1mm); nylon 6.6. Natural.                  | 50<br>Pcs.   |
| ABM4H-A-L       | 4-way adhesive backed cable tie mount; 2.0" x 2.0"<br>(50.8mm x 50.8mm); nylon 6.6. Natural.                  | 50<br>Pcs.   |
| SGABM20-AV-C300 | Super grip adhesive backed cable tie mount; 0.75" x 0.75" (19.1mm x 19.1mm); nylon 6.6. Black.                | 100<br>Pcs.  |
| SGABM25-AV-C300 | Super grip adhesive backed cable tie mount; 1" x 1" (25.4mm x 25.4mm); nylon 6.6. Black.                      | 100<br>Pcs.  |

Representative list only. Please visit www.panduit.com for full offering.

# ABMQ Multiple Bridge Mount .

The large adhesive surface area of the Multiple Bridge Mount provides a secure mounting method for up to four cable bundles. The dovetail feature allows multiple mounts to be perfectly aligned, providing an aesthetically pleasing solution with more cable routing capabilities for complex control panel systems. The score in the middle of the mount allows the user to cleanly break the mount in half if all four attachment points are not necessary. The rubber-based tape provides a high quick tack solution to improve adhesive performance in indoor applications.



| Part Number | Part Description  | Std.<br>Pkg.<br>Qty. |
|-------------|---|----------------------|
| ABMQS-A-C   | 4-way adhesive backed multiple bridge cable tie mount, ABS, used with Miniature, Intermediate and Standard cable ties. White. | 100<br>Pcs.          |



# Dynamic Cable Manager 🔊



The Panduit dynamic cable manager provides an engineered solution to secure cable bundles that require routing across the enclosure door hinge. The ball-in-socket design provides a reliable and cost-effective solution to secure the cable bundle that minimizes excessive strain on the mount and the wiring. The rubber-based tape provides a high quick-tack solution to improve adhesive performance in indoor applications.



| Part Number | Part Description   | Std.<br>Pkg.<br>Qty. |
|-------------|--|----------------------|
| ABDCM30-A-C | Dynamic cable manager for panel strain relief,<br>1.12" x 1.12" (28.4mm x 28.4mm), nylon 6.6, White. | 100<br>Pcs.          |

Representative list only. Please visit www.panduit.com for full offering

# Non-Adhesive Cable Tie Mounts

Panduit non-adhesive cable tie mounts are available for screw-mount or push mount applications. Non-adhesive cable tie mounts are also available in a wide selection of specialty materials for resistance to severe environmental conditions. A variety of styles allow for the user to select the most appropriate mount for their application. Mounts should be used with compatible Panduit cable ties for a complete wire routing solution.



PP2S-S10-C

| Part Number | Part Description  | Std.<br>Pkg.<br>Qty. |
|-------------|---|----------------------|
| PBMS-H25-C  | The push button cable tie mount requires a 0.25" (6.4 mm) hole and is natural color. It is made of nylon 6.6, which increases mechanical strength, heat and wear resistance, and stiffness.                                       | 100<br>Pcs.          |
| PP2S-S10-C  | The pan-post standoff is natural color and requires a #10 (M5) screw. It measures $1.06$ "L x .72"W x 4.60"H (26.9 x 18.3x 116.9 mm). It is used with miniature, intermediate, and standard cable ties.                           | 100<br>Pcs.          |
| PWMS-H25-C  | The winged push barb cable tie mount requires a 0.250" (6.5 mm) hole<br>and is natural color. It is made of nylon 6.6, which increases mechanical<br>strength, heat and wear resistance, and stiffness                            | 100<br>Pcs.          |
| TM3S10-C    | The cable tie mount in natural color is applied with a #10 (M5) screw and is $0.61"$ (15.5 mm) wide. It is made of nylon 6.6, which increases mechanical strength, heat and wear resistance, and stiffness in indoor environments | 100<br>Pcs.          |
| TMEH-S25-Q0 | The extra heavy cable tie mount in black is applied with a 1/4" (M6) screw. It is made of weather-resistant nylon 6.6, which increases mechanical strength, heat and wear resistance, and stiffness in outdoor environments.      | 25<br>Pcs.           |

# **Control Panel Mounts**

Panduit control panel mounts are designed to provide strain relief for cables that terminate to a control panel switch. These mounts are intended for installation behind a control panel switch and provide a way to secure the terminated cables with a cable tie to maintain a reliable connection. Two sizes are available for the most common sizes of control panel switch designs.



| Part Number | Part Description  | Std.<br>Pkg.<br>Qty. |
|-------------|---|----------------------|
| CPM87S-C    | Control panel switch cable tie mount, 0.89" (22.6mm) hole, material zinc plated steel, used with Miniature, Intermediate and Standard cable ties. | 100<br>Pcs.          |
| CPM122S-C   | Control panel switch cable tie mount, 1.22" (31.0mm) hole, material zinc plated steel, Miniature, Intermediate and Standard cable ties.           | 100<br>Pcs.          |

# **Productivity**

## Adhesive Cable Accessories

Adhesive backed cable accessories allow the user to route and secure control panel wiring quickly and reliably with a single piece cable management solution. A wide range of styles and sizes can be used to secure a variety of cables, from individual small diameter wires to large cable bundles. Products are available with designs that use friction to hold a few cables, or with more secure releasable latching designs. The adhesive backed cable accessories use premium Panduit adhesive for a long-term reliable bond.



ACC38-A-C

| Part Number | Part Description   | Std.<br>Pkg.<br>Qty. |
|-------------|--|----------------------|
| ACC38-A-C   | Adhesive backed cord clip, .38" (9.7mm) bundle, natural.         | 100<br>Pcs.          |
| ACC62-A-C   | Adhesive backed cord clip, .62" (15.8mm) bundle, natural.        | 100<br>Pcs.          |
| BEC62-A-L   | Adhesive backed bevel entry clip, .62" (15.8mm) bundle, natural. | 50<br>Pcs.           |
| BEC75-A-L   | Adhesive backed bevel entry clip, .75" (19.1mm) bundle, natural. | 50<br>Pcs.           |
| LWC50-A-C14 | Adhesive backed latching wire clip, .50" (12.7mm) bundle, gray.  | 100<br>Pcs.          |
| LWC75-A-C14 | Adhesive backed latching wire clip, .75" (19.1mm) bundle, gray.  | 100<br>Pcs.          |

# Terminals 🖓 🖤

Panduit terminals are designed and manufactured for fast assembly and reliable performance. Panduit provides an extensive line of tooling designed specifically to provide optimum performance.







|                |  | Std.<br>Pkg. |
|----------------|--|--------------|
| Part Number    | Description  | Qty.         |
| BSN14-C        | Butt splice; 16 – 14 AWG; nylon insulated.   | 100 Pcs.     |
| BSN18-C        | Butt splice; 22 – 18 AWG; nylon insulated.   | 100 Pcs.     |
| BSV10X-Q       | Butt splice; 12 – 10 AWG, vinyl insulated.   | 25 Pcs.      |
| DNF14-250FIB-C | Female disconnect; 16 – 14 AWG, 0.250 x 0.032 tab size, nylon fully insulated, funnel entry.   | 100 Pcs.     |
| DNF14-250FIB-M | Female disconnect; 16 – 14 AWG, 0.250 x 0.032 tab size, nylon fully insulated, funnel entry.   | 1000 Pcs.    |
| DNF18-250FIB-M | Female disconnect; 22 – 18 AWG, 0.250 x 0 .032 tab size, nylon fully insulated, funnel entry.  | 1000 Pcs.    |
| PN10-10R-D     | Ring terminal; 12 – 10 AWG; stud size #10 nylon insulated.   | 500 Pcs.     |
| PN14-10R-M     | Ring terminal; 18 – 14 AWG; stud size #10 nylon insulated.   | 1000 Pcs.    |
| PNF10-10R-D    | Ring terminal; 12 – 10 AWG; stud size #10 nylon insulated.   | 500 Pcs.     |
| PV10-10F-L     | Fork terminal, 12 – 10 AWG, #10 stud size, vinyl insulated, funnel entry.  | 50 Pcs.      |
| PV10-10R-L     | Locking fork terminal, 18- 14 AWG, #10 stud size, vinyl insulated, funnel entry.   | 100 Pcs.     |
| PV10-14R-L     | Ring terminal; 12 – 10 AWG; stud size 1/4", vinyl insulated, funnel entry.   | 50 Pcs.      |
| PV14-10R-M     | Ring terminal; 16 – 14 AWG; stud size #10, vinyl insulated, funnel entry.  | 1000 Pcs.    |
| CT-1550        | Crimps most Pan-Term <sup>®</sup> #22 – 10 AWG Nylon and Vinyl Insulated<br>Terminals, Splices, and Disconnects. The CT-1550 has the Red/Blue pocket<br>closest to the pivot which provides a reduced crimp effort for those who<br>make Red/Blue terminations.  | 1            |
| CT-2300/ST     | The Panduit <sup>®</sup> BlackFin <sup>®</sup> Battery Powered Micro-crimping Tool crimps 65 percent faster than a manual crimping tool thanks to an innovative trigger with power sensing technology. The lightweight, ergonomic design requires less hand force, reducing the risk of injury. The 4.7" (120mm) jaw with a force of 1.7 tons crimps a range of #22 – 10 AWG terminals, #26 – 10 AWG single wire ferrules, #22 – 12 AWG twin wire ferrules, and #14 – 10 AWG copper lugs. Includes battery powered micro-crimping tool, one 10.8 V, 1.5 Ah Li-ion battery, battery charger with USA Type A plug, case. Crimp dies (Panduit CD-525, CD-550, CD-570 and CD-090) sold separately. | 1            |

**Ferrules** 



Panduit ferrule end sleeves terminate stranded wire into terminal blocks with superior termination performance. A wide assortment of ferrule styles and tool designs provide a proven way to make reliable connections. Meet UL486F, CSA-C22.2, and DIN standards. Automated solutions also available for high-volume applications.





CP-881



CP-991



CT-1000



CT-1170



CTFP-40

| David Niversham       | Description  | Std.<br>Pkg.             |
|-----------------------|--|--------------------------|
| Part Number           | Description  | <b>Qty.</b><br>1000 Pcs. |
| F78-8-M               | Ferrule, non-insulated, 16 AWG (1.5mm <sup>2</sup> ) wire range, 0.31 (8.0mm) length.<br>Single wire DIN end sleeve insulated ferrule; Turquoise funnel entry; AWG #24 –   | 1000 Pcs.<br>500 Pcs.    |
| FSD74-8-D             | 22 $(0.34 \text{ mm}^2)$ ; 0.49 $(12.5 \text{ mm})$ length.  | 500 PCS.                 |
| FSD75-8-D             | Single wire DIN end sleeve insulated ferrule; White funnel entry; AWG #22 – 20 (0.5 mm <sup>2</sup> ); 0.53 (13.5 mm) length.  | 500 Pcs.                 |
| FSD75-8-DSL10         | Insulated ferrules, on strip, single wire white DIN end sleeve, 20 AWG (0.50mm <sup>2</sup> ), 0.31(8.0mm) pin length.   | 500 Pcs.                 |
| FSD75-8-K             | Insulated ferrules, single wire white DIN end sleeve on mini-reel, 22 – 20 AWG (0.50mm <sup>2</sup> ), 0.31 (8.0mm) pin length.  | 500 Pcs.                 |
| FSD76-8-D             | Single wire DIN end sleeve insulated ferrule; Gray funnel entry; AWG #18 (0.75 mm <sup>2</sup> ); 0.55 (14 mm) length.   | 500 Pcs.                 |
| FSD76-8-DSL8          | Insulated ferrules, on strip, single wire gray DIN end sleeve, 18 AWG (0.75mm <sup>2</sup> ), 0.31(8.0mm) pin length.  | 500 Pcs.                 |
| FSD76-8-K             | Insulated ferrules, single wire gray DIN end sleeve on mini-reel, 18 AWG (0.75mm <sup>2</sup> ), 0.31 (8.0mm) pin length.  | 500 Pcs.                 |
| FSD77-8-D             | Single wire DIN end sleeve insulated ferrule; Red funnel entry; 1.00 mm <sup>2</sup> ; 0.57 (14.5 mm) length.  | 500 Pcs.                 |
| FSD77-8-DSL2          | Insulated ferrules, on strip, single wire red DIN end sleeve, 18 AWG (1.0mm <sup>2</sup> ), 0.31(8.0mm) pin length.  | 500 Pcs.                 |
| FSD77-8-K             | Insulated ferrules, single wire red DIN end sleeve on mini-reel, (1.0mm <sup>2</sup> ), 0.31 (8.0mm) pin length.   | 500 Pcs.                 |
| FSD77-10-D            | Polypropylene insulated ferrules single wire red DIN end sleeve, 18 AWG (1.0mm <sup>2</sup> ), .39 (10.0mm) pin length.  | 500 Pcs.                 |
| FSD77-12-D            | Single wire DIN end sleeve insulated ferrule; red funnel entry; 1.0 mm <sup>2</sup> ; 0.73 (18.5mm) length.<br>Single wire DIN end sleeve insulated ferrule; Black funnel entry; AWG #16 (1.5  | 500 Pcs.                 |
| FSD78-8-D             | mm <sup>2</sup> ); 0.57 (14.5 mm) length.<br>Insulated ferrules, on strip, single wire black DIN end sleeve, 16 AWG (1.5mm <sup>2</sup> ),   | 500 Pcs.                 |
| FSD78-8-DSL0          | 0.31(8.0mm) pin length.  |                          |
| FSD78-8-K             | Insulated ferrules, single wire black DIN end sleeve on mini-reel, 16 AWG (1.5mm <sup>2</sup> ), 0.31 (8.0mm) pin length.  | 500 Pcs.                 |
| FSD78-10-D            | Polypropylene insulated ferrules single wire black DIN end sleeve, 16 AWG (1.5mm <sup>2</sup> ), .39 (10.0mm) pin length.  | 500 Pcs.                 |
| FSD78-12-D            | Single wire DIN end sleeve insulated ferrule; black funnel entry; AWG #16 (1.5 mm <sup>2</sup> ); 0.73 (18.5mm) length.  | 500 Pcs.                 |
| FSD80-8-D             | Single wire DIN end sleeve insulated ferrule; blue funnel entry; AWG #14 (2.5mm <sup>2</sup> ); 0.59 (15mm) length.  | 500 Pcs.                 |
| FSD80-8-DK            | Insulated ferrules, single wire blue DIN end sleeve on mini-reel, 14 AWG (2.5mm <sup>2</sup> ), 0.31 (8.0mm) pin length.   | 500 Pcs.                 |
| FSD80-8-DSL6          | Insulated ferrules, on strip, single wire blue DIN end sleeve, 14 AWG (2.5mm <sup>2</sup> ), 0.31(8.0mm) pin length.   | 500 Pcs.                 |
| FSD80-12-D            | Single wire DIN end sleeve insulated ferrule; blue funnel entry; AWG #14 (2.5 mm <sup>2</sup> ); 0.75 (19.0mm) length.   | 500 Pcs.                 |
| FSD81-10-D            | Single wire DIN end sleeve insulated ferrule; gray funnel entry; AWG #12 (4mm <sup>2</sup> );<br>0.69 (17.5mm) length.   | 500 Pcs.                 |
| FTD78-8-D             | Polypropylene insulated ferrules twin wire black DIN color end sleeve,<br>16 AWG (1.5mm <sup>2</sup> ), 0.31(8.0mm) pin length.<br>Twin wire DIN end sleeve insulated ferrule: Blue funnel entry, 14 AWG (2.5mm <sup>2</sup> ),  | 500 Pcs.                 |
| FTD80-10-TL<br>CP-881 | 0.39 (10.0mm) pin length.<br>A semi-automated tool that provides a quick three step process (wire stripping, fer-  | 250 Pcs.<br>1000 Pcs.    |
|                       | rule placement, and ferrule crimping) with a cycle time of 1.5 seconds. This tool is used with Panduit continuously molded #20 – 14 AWG (0.5 – 2.5mm <sup>2</sup> ) DIN ferrules on mini-reels of 500 – 5000 pieces for quality, medium to high volume terminations.                               |                          |
| CP-991                | A bowl-fed semi-automated tool that provides a quick three step process (wire stripping, ferrule placement, and ferrule crimping) with a cycle time of 1.5 seconds. This tool is used with #24 - 12 AWG (0.50 - 2.5mm <sup>2</sup> ) DIN ferrules for quality, medium to high volume terminations. | 1                        |
| CT-1000               | Controlled cycle crimp tool with trapezoid profile for #20 – 14 AWG (0.50 – 2.5mm <sup>2</sup> ) insulated continuously molded ferrules on strips. Also cuts and strips wire.  | 1                        |
| CT-1170               | Controlled cycle ferrule crimp tool with square profile for $28 - 5$ AWG (0,08 - 16 mm <sup>2</sup> ) insulated and non-insulated single wire ferrules and $23 - 10$ AWG (2 x 0.25mm <sup>2</sup> - 2x 6mm <sup>2</sup> ) insulated twin ferrules.   | 1 Pc.                    |
| CTFP-40               | Bench-top pneumatic loose piece ferrule tool; ferrule range = #24 – 12 AWG (0.25 – 4mm <sup>2</sup> )  | 1                        |

Representative list only. Please visit www.panduit.com for full offering.

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# Military Grade Two-Sided Heat Shrink Labels 🔊 🏵

Permanent, one-piece, heat shrink sleeve designed to provide clear, durable identification of wires and cables. Print using Easy-Mark Plus<sup>™</sup> Labeling Software and TDP43ME thermal transfer desktop printer on pages 18 – 19.



| Part Number   | Description   | Wire<br>Range        | Std.<br>Pkg.<br>Qty. |
|---------------|---|----------------------|----------------------|
| H200X025H1T-2 | 2-sided Military Grade printable heat shrink label, White, 1/8"<br>(3.1 mm) diameter polyolefin. 500 labels per roll. | 22 – 18<br>AWG       | 1 Roll               |
| H200X034H1T-2 | 2-sided MilitaryGrade printable heat shrink label, White, 3/16"<br>(4.7mm) diameter polyolefin. 500 labels per roll.  | 18 – 12<br>AWG       | 1 Roll               |
| H200X044H1T-2 | 2-sided Military Grade printable heat shrink label, White, 1/4"<br>(6.3 mm) diameter polyolefin. 500 labels per roll. | 16 – 10<br>AWG       | 1 Roll               |
| H200X064H1T-2 | 2-sided Military Grade printable heat shrink label, White, 3/8" (9.7mm) diameter polyolefin. 500 labels per roll.     | 12 – 6<br>AWG        | 1 Roll               |
| H200X084H1T-2 | 2-sided Military Grade printable heat shrink label, White, 1/2" (12.7mm) diameter polyolefin. 500 labels per roll.    | 8 – 1<br>AWG         | 1 Roll               |
| H200X122H1T-2 | 2-sided Military Grade printable heat shrink label, White, 3/4" (19.1mm) diameter polyolefin. 250 labels per roll.    | 8 – 4/0<br>AWG       | 1 Roll               |
| H200X165H1T-2 | 2-sided Military Grade printable heat shrink label, White, 1" (25.4 mm) diameter polyolefin. 250 labels per roll.     | 4 AWG –<br>500 kcmil | 1 Roll               |

Representative list only. Please visit www.panduit.com for full offering.

# Vinyl Self-Laminating Labels 🔊 🖓

Includes a colored print-on area and clear over-laminate to protect the legend for clear and durable identification. Print using Easy-Mark Plus<sup>™</sup> Labeling Software and TDP43ME thermal transfer desktop printer on pages 18 – 19.



| Part Number  | Part Description   | Std.<br>Pkg.<br>Qty. |
|--------------|--|----------------------|
| S100X075VATY | Thermal Transfer, Vinyl, 1.00" W x 0.75" H, 0.25" POA, Clear/White, 3" Core, 18 – 14 AWG wire/cable.     | 5000<br>Pcs.         |
| S100X125VATY | Thermal Transfer, Vinyl, 1.00" W x 1.25" H, 0.38" POA, Clear/White, 3" Core, 12 – 10 AWG wire/cable.     | 5000<br>Pcs.         |
| S100X150VATY | Thermal Transfer, Vinyl, 1.00" W x 1.50" H, 0.50" POA, Clear/White, 3" Core, 10 – 6 AWG wire/cable.      | 5000<br>Pcs.         |
| S100X225VATY | Thermal Transfer, Vinyl, 1.00" W x 2.25" H, 0.75" POA, Clear/White, 3" Core, 8 – 4 AWG wire/cable.       | 5000<br>Pcs.         |
| S100X400VATY | Thermal Transfer, Vinyl, 1.00" W x 4.00" H, 1.00" POA, Clear/White, 3" Core, 2 – 1 AWG wire/cable.       | 2500<br>Pcs.         |
| S100X650VATY | Thermal Transfer, Vinyl, 1.00" W x 6.50" H, 1.50" POA, Clear/White, 3" Core, $1/0 - 250$ MCM wire/cable. | 1000<br>Pcs.         |

## Turn-Tell<sup>™</sup> Labels

Innovative label design allows labels to rotate for visibility from any angle, and for repositioning on the wire/cable to align legends and improve aesthetics. Print using Easy-Mark Plus<sup>™</sup> Labeling Software and TDP43ME thermal transfer desktop printer on pages 18 – 19.



| Part Number | Part Description   | Std.<br>Pkg.<br>Qty. |
|-------------|--|----------------------|
| R100X075V1T | Thermal transfer, vinyl, 1.00" W x 0.75" H, 0.25" POA, Clear/White, 3" Core, 18 – 14 AWG wire/cable. | 2500<br>Pcs.         |
| R100X125V1T | Thermal transfer, vinyl, 1.00" W x 1.25" H, 0.38" POA, Clear/White, 3" Core, 12 – 10 AWG wire/cable. | 2500<br>Pcs.         |
| R100X150V1T | Thermal transfer, vinyl, 1.00" W x 1.50" H, 0.50" POA, Clear/White, 3" Core, CAT 5e wire/cable.      | 2500<br>Pcs.         |
| R100X225V1T | Thermal transfer, vinyl, 1.00" W x 2.25" H, 0.75" POA, Clear/White, 3" Core, CAT 6 wire/cable.       | 2500<br>Pcs.         |
| R100X400V1T | Thermal transfer, vinyl, 1.00" W x 4.00" H, 1.00" POA, Clear/White, 3" Core, 2 – 1 AWG wire/cable.   | 1000<br>Pcs.         |

Representative list only. Please visit www.panduit.com for full offering.

### LabelCore<sup>™</sup> Fiber Optic Cable Identification System

Provides a larger surface on small fiber cables and allows legends to be clearly seen.



| Part Number | Part Description   | Std.<br>Pkg.<br>Qty. |
|-------------|--|----------------------|
| NWSLC-2Y    | Yellow cable identification sleeve for 2mm simplex fiber cable, 1" long: Use with labels S100X150YAJ (laser/inkjet), S100X150VAC (LS8E hand-held printer), S100X150VA1Y or S100X150VATY (thermal transfer printer).          | 100<br>Pcs.          |
| NWSLC-2Y-AQ | Aqua cable identification sleeve for 2mm simplex fiber cable, 1" long: Use with labels S100X150YAJ (laser/inkjet), S100X150VAC (LS8E hand-held printer), S100X150VA1Y or S100X150VATY (thermal transfer printer).            | 100<br>Pcs.          |
| NWSLC-3Y    | Orange cable identification sleeve for 2mm simplex fiber cable, 1" long:<br>Use with labels S100X150YAJ (laser/inkjet), S100X150VAC<br>(LS8E hand-held printer), S100X150VA1Y or S100X150VATY<br>(thermal transfer printer). | 100<br>Pcs.          |
| NWSLC-7Y    | White cable identification sleeve for 3mm duplex cable, 1" long: Use with labels S100X225YAJ (laser/inkjet), S100X225VAC (LS8E handheld printer), and S100X225VA1Y or S100X225VATY (thermal transfer printer).               | 100<br>Pcs.          |

## **Standard Marker Plates**

Non-adhesive and halogen-free; used to identify wires, cables, equipment, and many other applications. Print using Easy-Mark Plus<sup>™</sup> Labeling Software and TDP43ME thermal transfer desktop printer on pages 18 – 19.



| Part Number | Description  | Std.<br>Pkg.<br>Qty. |
|-------------|--|----------------------|
| M200X050Y6T | Yellow, thermal transfer marker plate, 2.00" x 0.50". 500 labels per roll. | 1 Roll               |
| M200X050Y7T | White, thermal transfer marker plate, 2.00" x 0.50". 500 labels per roll.  | 1 Roll               |
| M200X100Y6T | Yellow, thermal transfer marker plate, 2.00" x 1.00". 500 labels per roll. | 1 Roll               |
| M200X100Y7T | White, thermal transfer marker plate, 2.00" x 1.00". 500 labels per roll.  | 1 Roll               |
| M300X050Y6T | Yellow, thermal transfer marker plate, 3.00" x 0.50". 500 labels per roll. | 1 Roll               |
| M300X050Y7T | White, thermal transfer marker plate, 3.00" x 0.50". 500 labels per roll.  | 1 Roll               |
| M300X100Y6T | Yellow, thermal transfer marker plate, 3.00" x 1.00". 500 labels per roll. | 1 Roll               |
| M300X100Y7T | White, thermal transfer marker plate, 3.00" x 1.00". 500 labels per roll.  | 1 Roll               |

Representative list only. Please visit www.panduit.com for full offering.

### **Terminal Block Markers**

Flexible marker design; create and install single or multiple markers in a single step. Less marker waste - print only as many as you need. Print using Easy-Mark Plus<sup>™</sup> Labeling Software and TDP43ME thermal transfer desktop printer on pages 18 – 19.



| Part Number    | Description   | Std.<br>Pkg.<br>Qty. |
|----------------|---|----------------------|
| TB05X12EWT-AB1 | Flexible terminal block markers on continuous rolls, 5mm x 12mm, White.<br>Compatible with Allen-Bradley 1492-J3 and 1492-W3 terminal blocks and<br>Weidmuller WDU 2.5 terminal blocks. 1000 labels per roll.                 | 1<br>Roll            |
| TB06X12EWT-AB1 | Flexible terminal block markers on continuous rolls, 6mm x 12mm, White.<br>Compatible with Allen-Bradley 1492-J4 and 1492-W4 terminal blocks and<br>Weidmuller WDU4 terminal blocks. 1000 labels per roll.                    | 1<br>Roll            |
| TB08X12EWT-AB1 | Flexible terminal block markers on continuous rolls, 8mm x 12mm, White.<br>Compatible with Allen-Bradley 1492-J6 terminal blocks and Weidmuller<br>WDU6 terminal blocks. 1000 labels per roll.                                | 1<br>Roll            |
| TB05X08EWT-AB2 | Flexible terminal block markers on continuous rolls, 5mm x 8mm, White.<br>Compatible with Allen-Bradley 1492-JD3/1492-L3/1492-LD3/1492-L3Q<br>terminal blocks and Weidmuller WDR2.5 terminal blocks. 1000 labels<br>per roll. | 1<br>Roll            |
| TB06X08EWT-AB2 | Flexible terminal block markers on continuous rolls, 6mm x 8mm, White.<br>Compatible with Allen-Bradley 1492-JD4/1492-L4/1492-LD4 terminal<br>blocks and Weidmuller WDR4 terminal blocks. 1000 labels per roll.               | 1<br>Roll            |

# Raised Panel Labels 🔊 🖓 IP69K

Raised thermal transfer printable surface with high-tack adhesive for strong holding power on rough, textured, painted, and powder coated surface areas. Print using Easy-Mark Plus<sup>™</sup> Labeling Software and TDP43ME thermal transfer desktop printer on pages 18 – 19.



| Part Number     | Description  | Std.<br>Pkg.<br>Qty. |
|-----------------|--|----------------------|
| C100X050APT     | Thermal transfer raised panel component label, 1.00" W x 0.50" H, raised panel, White.                 | 500<br>Pcs.          |
| C120X190APT-22  | Thermal transfer raised panel push button label, 1.20"W x 1.90" H, 22mm hole, raised panel, White.     | 500<br>Pcs.          |
| C180X180APT-30  | Thermal transfer raised panel push button label, 1.80"W x 1.80"H, 30mm hole, raised panel, White.      | 500<br>Pcs.          |
| C180X130APT-30H | Thermal transfer raised panel half push button label, 1.80"W x 1.30"H, 30mm hole, raised panel, White. | 500<br>Pcs.          |
| C200X100APT     | Thermal transfer raised panel component label, 2.00"W x 1.00"H, raised panel, White.                   | 500<br>Pcs.          |

Representative list only. Please visit www.panduit.com for full offering.

# Super-Tack Polyester Labels 🔊 🕬 IP69K

Super-Tack Polyester labels are used on rough, textured, painted, and coated surface areas. Print using Easy-Mark Plus<sup>™</sup> Labeling Software and TDP43ME thermal transfer desktop printer on pages 18 – 19.



| Part Number | Description   | Std.<br>Pkg.<br>Qty. |
|-------------|---|----------------------|
| C100X050YPT | Thermal transfer component label, 1.00" W x 0.50" H, super-tack polyester, White. | 10000<br>Pcs.        |
| C200X100YPT | Thermal transfer component label, 2.00" W x 1.00" H, super-tack polyester, White. | 2500<br>Pcs.         |
| C275X125YPT | Thermal transfer component label, 2.75" W x 1.25" H, super-tack polyester, White. | 2500<br>Pcs.         |
| C300X200YPT | Thermal transfer component label, 3.00" W x 2.00" H, super-tack polyester, White. | 2500<br>Pcs.         |
| C400X300YPT | Thermal transfer component label, 4.00" W x 3.00" H, super-tack polyester, White. | 2500<br>Pcs.         |

# Easy-Mark Plus<sup>™</sup> Labeling Software

- Powerful, easy-to-use, and affordable software that provides innovative features and functionality to address unique labeling needs
- Quickly create simple or complex labels with text boxes, lines, frames, or tables, and other useful tools
- Design detailed labels with multiple zones and objects for applications such as rating plates, arc flash labels and fiber optic enclosures
- Simple user interface shows labels on the screen as they will be printed
- Create and print labels using QR codes, or any of the other 21 included barcode symbologies
- Free demo version available at http://www.panduit.com/emp



| Part Number   | Part Description   | Std.<br>Pkg.<br>Qty. | Std.<br>Ctn.<br>Qty. |
|---------------|--|----------------------|----------------------|
| EMPLUS-CD     | Easy-Mark Plus <sup>™</sup> Labeling Software, CD-ROM.                           | 1                    | 10                   |
| EMPLUS-DL     | Easy-Mark Plus <sup>™</sup> Labeling Software, online download.                  | 1                    | 10                   |
| EMPLUS-2GO    | Easy-Mark Plus <sup>™</sup> Portable Application, USB flash drive.               | 1                    | 10                   |
| EMPLUS-SERVER | Easy-Mark Plus <sup>™</sup> Labeling Software, networkable server based version. | 1                    | 10                   |

<sup>^</sup>WINDOWS is a registered trademark of Microsoft Corporation in the United States and/or other countries. System Requirements: 300 MB hard drive space and 2 GB Memory, Windows XP, Vista, 7, 8, 8.1, or 10<sup>^</sup>, 32 or 64 bit operating systems, Microsoft.NET Framework 2.0 or higher, Mouse or compatible pointing device, Keyboard, Optical Disc Drive or USB Port

### **TDP43ME Thermal Transfer Desktop Printer and Accessories**

- Creates durable, crisp, clear legends and graphics that offer superior legibility
- Prints durable legends for harsh industrial environments
- Fine resolution for small type characters and images
- Easy-Mark Plus<sup>™</sup> Labeling Software included with printer
- Up to 4 inches per second print speed

- Connects quickly and easily to PC, and offers connectivity flexibility to print by USB, parallel, serial, or Ethernet
- · Easy ribbon loading reduces printer down time
- · Able to connect to a network for sharing capability
- UL60950 listed, File #E165747



| Part Number    | Part Description   | Std.<br>Pkg.<br>Qty. |
|----------------|--|----------------------|
| TDP43ME        | 300 dpi printer; includes printer, Panduit <sup>®</sup> Easy-Mark Plus <sup>™</sup> Labeling<br>Software, RMEH4BL Black hybrid ribbon, AC power adapter with US<br>power cord, USB cable, user manual, quick start card, and driver disk; for<br>use in North America.   | 1                    |
| TDP43ME-KIT    | TDP43ME printer kit. Includes: printer, Panduit <sup>®</sup> Easy-Mark Plus <sup>™</sup><br>Labeling Software, RMEH4BL Black hybrid ribbon, AC power<br>adapter with US power cord, USB cable, user manual, quick start card,<br>TDP43ME-RS roll stand, TDP43ME-CASE, one roll of S100X150VATY<br>labels, and driver disk; for use in North America. | 1                    |
| TDP43ME-CASE   | Hardside carrying case accommodates printer, AC power adapter, ribbons, printer cable, external roll stand, labels, and tools.   | 1                    |
| TDP43ME-CUTTER | Optional power/automatic cutter for TDP43ME thermal transfer desktop printer; easy to install for automatic cutting of labels.   | 1                    |
| TDP43ME-RS     | External label roll stand for TDP43ME printer; used to rear feed labels that are supplied on 3" cores.   | 1                    |

#### **TDP43ME Desktop Printer Ribbons**



|             |   |      | Width |       | igth | Std.         |   |
|-------------|---|------|-------|-------|------|--------------|---|
| Part Number | Part Description  | In.  | mm    | Ft.   | m    | Pkg.<br>Qty. |   |
| RMER1BL     | Black resin thermal transfer ribbon. Use with terminal block markers.   | 1.1  | 27.9  | 300.0 |      | 1            |   |
| RMEH4BL     | Black hybrid thermal transfer ribbon. Use with heat shrink, self-laminating, Turn-Tell® Labels, tan polyimide, and vinyl cloth labels.    |      | 108.0 |       |      |              | 1 |
| RMER4BL     | Black resin thermal transfer ribbon. Use with polyester labels, continuous vinyl tape, marker plates, and raised panel labels.            | _    |       |       |      | 1            |   |
| RMER4BU     | Printer ribbon for use with TDP43ME polyester, continuous vinyl tape, marker plates, and raised panel labels comes in blue resin.         | 4 25 |       |       | 91.4 | 1            |   |
| RMER4GR     | Printer ribbon for use with TDP43ME polyester, continuous vinyl tape, marker plates, and raised panel labels comes in green resin.        | 4.25 |       |       |      | 1            |   |
| RMER4RD     | Printer ribbon for use with TDP43ME polyester labels, continuous vinyl tapes, marker plates and raised panel labels comes in red resin.   |      |       |       |      | 1            |   |
| RMER4WH     | Printer ribbon for use with TDP43ME polyester labels, continuous vinyl tapes, marker plates and raised panel labels comes in white resin. |      |       |       |      | 1            |   |

# **Safety and Security**

# VeriSafe<sup>™</sup> Absence of Voltage Testers

The Safe Way to Verify the Absence of Voltage.



When servicing electrical equipment, workers must comply with safety regulations that require a voltage verification test to validate the absence of voltage. This process includes a number of stages that can be complex and time-consuming when using hand-held portable test instruments.

The patent-pending VeriSafe<sup>™</sup> Absence of Voltage Tester from Panduit simplifies this process by automating the voltage verification process.

Once installed, a simple push of a button enables gualified personnel to verify the absence of voltage and see an active indication when the absence of voltage is confirmed. This provides a new and innovative way to safely, reliably, and efficiently verify the absence of voltage before accessing potentially dangerous electrical equipment.

#### System Components

#### Indicator Module

- 30mm knockout, mount on exterior of enclosure
- · Operate and maintain without exposure to electrical hazards
- Instruction label with operating instructions
- VS-AVT2 will have a blue faceplate while VS-AVT will have a yellow faceplate

#### 2 AVT System Cable

- · Connects isolation module to indicator module
- 600 V cable available in multiple lengths for easy installation
- · Replaceable with connectors on each end
- · Replaceable with additional lengths
- · Locking connectors on both ends
- · Right angle connector at indicator module saves space

#### 3 Isolation Module

- · Prevents hazardous voltage from reaching door
- Universal mounting (DIN rail or surface tabs)
- · Output contacts provide ability to create alarms or communicate with other systems

#### 4 Sensor Leads

- · Can be installed on line or load side of electrical disconnect
- . Two leads per phase; must be physically separated from each other
- Optimized for use with the VeriSafe<sup>™</sup> Insulation **Piercing Connector**

#### Simple Battery Replacement

- Long-life industrial battery
- · Replaceable from outside the enclosure
- Interior battery compartment is fingersafe (IP20)
- No tools required











Instruction Label

Shown: VS-AV1

Shown: Insulation Piercing Connectors





(IL) SR. C E RoHS NOM

# VeriSafe<sup>™</sup> Absence of Voltage Tester (AVT)



Shown: VS-AVT



**VS-AVT-RBOX** 

Shown: VS-AVT2

| Part No.                | Description   |
|-------------------------|---|
| VS-AVT-C02-L03          | VeriSafe <sup>™</sup> Absence of Voltage Tester with 2 ft. system cable, 3 ft. sensor leads   |
| VS-AVT-C08-L10          | VeriSafe <sup>™</sup> Absence of Voltage Tester with 8 ft. system cable, 10 ft. sensor leads  |
| Equipment Retrofit Kits | S   |
| VS-AVT-RKP1             | Complete kit to retrofit equipment with VeriSafe <sup>™</sup> Absence of Voltage Tester. Includes AVT device with 10 ft. sensor leads, 8 ft. system cable, VeriSafe <sup>™</sup> Insulation Piercing Connection Kit 14 – 6 AWG power connectors, (12) cable ties, (6) cable tie mounts, (1) wire marker card  |
| VS-AVT-RKP2             | Complete kit to retrofit equipment with VeriSafe <sup>™</sup> Absence of Voltage Tester. Includes AVT device with 10 ft. sensor leads, 8 ft. system cable, VeriSafe <sup>™</sup> Insulation Piercing Connection Kit 4 – 3/0 AWG power connectors, (12) cable ties, (6) cable tie mounts, (1) wire marker card |
| VeriSafe™ Retrofit Enc  | losure  |
| VS-AVT-RBOX             | Complete enclosure to retrofit equipment with VeriSafe Absence of Voltage Tester. Includes 8" x 8", 4" panel and AVT device with 10ft. sensor leads and 2ft. system cable.  |
| Accessories             |   |
| VS-AVT-CABLE-02         | AVT System Cable for use with VeriSafe" AVT device. Cable length is 2 ft.   |
| VS-AVT-CABLE-04         | AVT System Cable for use with VeriSafe" AVT device. Cable length is 4 ft.   |
| VS-AVT-CABLE-08         | AVT System Cable for use with VeriSafe" AVT device. Cable length is 8 ft.   |
| VS-AVT-CABLE-16         | AVT System Cable for use with VeriSafe" AVT device. Cable length is 16 ft.  |
| VS-AVT-CABLE-20         | AVT System Cable for use with VeriSafe" AVT device. Cable length is 20 ft.  |
| VS-AVT-CABLE-30         | AVT System Cable for use with VeriSafe <sup>™</sup> AVT device. Cable length is 30 ft.  |
| VS-AVT-IL-LINE          | Instruction Label for Verisafe <sup>™</sup> AVT Device with Line Side Checked   |
| VS-AVT-IL-LOAD          | Instruction Label for Verisafe <sup>™</sup> AVT Device with Line Side Checked   |
| VS-AVT-DL               | Diagnostic Label for Verisafe <sup>™</sup> AVT Device   |

# VeriSafe<sup>™</sup> Hazardous Locations Absence of Voltage Tester (AVT)

- Services other environments with Hazardous Location offering covering Class 1 Division 2 and Class 1 Zone 2 environments.
- · Reduces the risk of exposure to electrical hazards which improves worker safety.
- Continues to provide a simplified process for easier compliance when used as part of the lockout/tagout process described in NFPA 70E.

| Part No.        | Description  |
|-----------------|--|
| VS-AVT2-C02 L03 | VeriSafe <sup>™</sup> Absence of Voltage Tester for Class 1 Division 2 hazardous locations - 2 ft. system cable, 3 ft. sensor leads  |
| VS-AVT2-C08 L10 | VeriSafe <sup>™</sup> Absence of Voltage Tester for Class 1 Division 2 hazardous locations - 8 ft. system cable, 10 ft. sensor leads |

# VeriSafe<sup>™</sup> Insulation Piercing Connectors

- The VeriSafe<sup>™</sup> Insulation Piercing Connector provides a fast, secure, and reliable way to terminate AVT sensor leads.
- The compact connector design accommodates up to two taps in a single housing that fully insulates both connections.
- The patent pending connector allows taps to be made without compromising the integrity of conductors and includes integrated strain relief.
- · Installation is fast and easy without the need to strip wires.
- Ideal for new and retrofit applications, connections can be made without modifying existing conductor runs.

| Part No.         | Description   |
|------------------|---|
| VS-CKP14-6       | VeriSafe <sup>™</sup> Insulation Piercing Connection Kit for Tapping 14 to 6 AWG conductors. Kit includes 3 connectors for installment of 1 AVT   |
| VS-CKP4-000      | VeriSafe <sup>™</sup> Insulation Connection Kit for Tapping 4 to 3/0 AWG conductors. Kit includes 3 connectors for installment of 1 AVT   |
| Equipment Retrof | it Kits   |
| VS-AVT-RKP1      | Complete kit to retrofit equipment with VeriSafe <sup>™</sup> Absence of Voltage Tester. Includes AVT device with 10 ft. sensor leads, 8 ft. system cable, VeriSafe <sup>™</sup> Insulation Piercing Connection Kit 14 – 6 AWG power connectors, (12) cable ties, (6) cable tie mounts, (1) wire marker card  |
| VS-AVT-RKP2      | Complete kit to retrofit equipment with VeriSafe <sup>™</sup> Absence of Voltage Tester. Includes AVT device with 10 ft. sensor leads, 8 ft. system cable, VeriSafe <sup>™</sup> Insulation Piercing Connection Kit 4 – 3/0 AWG power connectors, (12) cable ties, (6) cable tie mounts, (1) wire marker card |



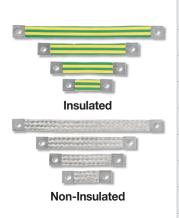
# **Safety and Security**

# StructuredGround<sup>™</sup> Flat Braided Bonding Straps



StructuredGround<sup>™</sup> Flat Braided Bonding Straps are used to electrically bond enclosure doors, subpanels, motors, and machines in most applications for safety and ESD (Electrostatic Discharge). The flat ferrule design of this bonding component helps to reduce the effects of EMI because it passes high-frequency noise more effectively than round stranded-type cables.

In applications where motion or vibration is a concern, these straps resist breaking and cracking of individual strands that can degrade the effectiveness of the bond. They are constructed of #4 AWG tin-plated copper with a minimum strap width of 1" and can be terminated with a seamless ferrule that maintains the flat braided shape across its entire length.



| Part Number | Description   | Std.<br>Pkg.<br>Qty. |
|-------------|---|----------------------|
| BS100445    | Braided bonding strap, one-hole, insulated, 4.00" length x 1.06" width (101.6mm x 27.0mm).      | 1                    |
| BS100645    | Braided bonding Strap, one-hole, insulated, 6.00" length x 1.06" width (152.4mm x 27.0mm).      | 1                    |
| BS100845    | Braided bonding strap, one-hole, insulated, 8.00" length x 1.06" width (203.2mm x 27.0mm).      | 1                    |
| BS101245    | Braided bonding strap, one-hole, insulated, 12.00" length x 1.06" width (304.8mm x 27.0mm).     | 1                    |
| BS100445U   | Braided bonding strap, one-hole, non-insulated, 4.00" length x 1.06" width (101.6mm x 27.0mm).  | 1                    |
| BS100645U   | Braided bonding strap, one-hole, non-insulated, 6.00" length x 1.06" width (152.4mm x 27.0mm).  | 1                    |
| BS100845U   | Braided bonding strap, one-hole, non-insulated, 8.00" length x 1.06" width (203.2mm x 27.0mm).  | 1                    |
| BS101245U   | Braided bonding strap, one-hole, non-insulated, 12.00" length x 1.06" width (304.8mm x 27.0mm). | 1                    |

Representative list only. Please visit www.panduit.com for full offering.

# StructuredGround<sup>™</sup> Universal Ground Bar System



The StructuredGround<sup>™</sup> Universal Ground Bar System (UGB) is precision machined from electrolytic copper and tin plated to inhibit corrosion and offers multiple termination methods and mounting options, making it ideal for any control panel or enclosure application. The UGB enables the end user to choose the method in which to terminate conductors with connectors of their choice or simply cut and strip the wires. The UGB system will help reduce the types of ground bars that are needed to meet the various applications and customer requirements. The UGB is UL 467 Listed and CSA 22.2 Certified for grounding and bonding an equipment conductor up to 2/0 AWG; meets UL 508A requirements.



| Part Number   | Description  | Std.<br>Pkg.<br>Qty. |
|---------------|--|----------------------|
| UGB2/0-414-6  | Universal ground bar accepts #14 – 4 AWG wire in 6 wire ports; add up to a 2/0 AWG main equipment grounding conductor with a compression or mechanical connector; 4.92" (125mm) length, 0.62" (15.7mm) width, 0.48" (12.2mm) height.     | 1                    |
| UGB2/0-414-12 | Universal ground bar accepts #14 – 4 AWG wire in 12 wire ports; add up to a 2/0 AWG main equipment grounding conductor with a compression or mechanical connector; 8.28" (210.3mm) length, 0.62" (15.7mm) width, 0.48" (12.2mm) height.  | 1                    |
| UGB2/0-414-18 | Universal ground bar accepts #14 – 4 AWG wire in 18 wire ports; add up to a 2/0 AWG main equipment grounding conductor with a compression or mechanical connector; 11.64" (295.7mm) length, 0.62" (15.7mm) width, 0.48" (12.2mm) height. | 1                    |
| UGB-IN-SO     | Universal ground bar isolation stand-offs; includes two stand-offs and hardware; 1.57" (40mm) length, 0.59" (15.0mm) width, 0.98" (25.0mm) height.   | 1                    |
| UGB-B-SO      | Universal ground bar bonding stand-offs; includes two tin-plated copper stand-offs and hardware; 2.34" (59.3mm) length, 0.63" (15.9mm) width, 0.75" (19.1mm) height.   | 1                    |

# **Power Circuit Wiring Components**



The mechanical lugs are made from high conductivity electrolytic copper. UL listed for use in the U.S. and Canada. The dual-rated neutral bars are made from high strength aluminum alloy, tin plated to prevent corrosion and oxidation. UL listed and CSA certified.



| Part Number            | Description  | Std.<br>Pkg.<br>Qty. |
|------------------------|--|----------------------|
| CCB4/0-1AR-Q           | One-hole, copper mechanical connector, anti-rotation lug,<br>#2 AWG – 4/0 AWG STR.                 | 25<br>Pcs.           |
| NBA350-12              | Neutral bar, assembly, 12-port, al., tin-plated, 14 – 6 AWG, with connector 350 – 6 AWG.           | 1                    |
| CXS125-14-Q            | One-hole, copper, single barrel, straight fixed tongue lug, #4 – 1/0 AWG, 1/4" (6.4mm) stud hole.  | 25<br>Pcs.           |
| CXS35-36-C             | One-hole, copper, single barrel, straight fixed tongue lug, #14 – #6 AWG, 3/16" (4.8mm) stud hole. | 100<br>Pcs.          |
| Representative list on | ly Please visit www.panduit.com.for.full.offering  |                      |

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## **Armored Cable Grounding Kits**

The armored cable grounding kit provides a secure bond to the armor sheath on indoor and indoor/outdoor fiber optic cables at both cassette and enclosure ends.



| Part Number | Part Description   | Std.<br>Pkg.<br>Qty. |
|-------------|--|----------------------|
| ACG24K      | #6 AWG(16mm <sup>2</sup> ) jumper for armored cable diameter up to 0.84" (21.3mm); 24" (609.6mm) length; factory terminated on one end with LCC6 two-hole copper compression lug and the other end with grounding terminal; provided with two each #12-24 and M6 thread-forming screws and a Black polypropylene terminal cover.             | 1                    |
| ACG24K-500  | #6 AWG(16mm <sup>2</sup> ) jumper for armored cable diameter 0.85" (21.3mm) to 1.03" (26.2mm); 24" (609.6mm) length; factory terminated on one end with LCC6 two-hole copper compression lug and the other end with grounding terminal; provided with two each #12-24 and M6 thread-forming screws and a Black polypropylene terminal cover. | 1                    |
| ACGK        | Armored cable grounding kit with one grounding terminal for #6 AWG and one #10 mechanical clamp, 9/16" – 1 1/16" diameter range.   | 1                    |
| ACG24KX-500 | #6 AWG(16mm <sup>2</sup> ) jumper for armored cable diameter 0.94" (23.9mm) to 1.5" (38.1mm); 24" (609.6mm) length; factory terminated on one end with LCC6 two-hole copper compression lug and the other end with grounding terminal; provided with two each #12-24 and M6 thread-forming screws and a Black polypropylene terminal cover.  | 1                    |
| ACGKX       | Armored cable grounding kit w ith one grounding terminal for #6 AWG and one #16 mechanical clamp, $15/16" - 1 1/2"$ diameter range.  | 1                    |

# **Safety and Security**

# Adhesive Lined Grommet Edging



Grommet edging protects and prevents wires and cables from chafing against sharp edges of panel walls and knockouts. Pressure sensitive adhesive provides an easy, clean, and secure application where additional holding strength is required. Use the slotted grommet edging to line irregularly shaped and round panel holes. Use the solid product for straight runs. The adhesive lined grommet edging has a shelf life of 3 years.



| Part Number | Description   | Std.<br>Pkg.<br>Qty. |
|-------------|---|----------------------|
| GEE62F-A-C  | Slotted grommet edging with adhesive, 0.036" – 0.062" panel thickness, polyethylene, Natural. 100 feet per roll.                            | 1<br>Roll            |
| GEE99F-A-C  | Slotted grommet edging with adhesive, 0.062" – 0.099" panel thickness, polyethylene, Natural. 100 feet per roll.                            | 1<br>Roll            |
| GEE144F-A-C | Slotted grommet edging with adhesive, 0.099" – 0.144" panel thickness, polyethylene, Natural. 100 feet per roll.                            | 1<br>Roll            |
| GES62F-A-C  | Solid grommet edging with adhesive (use on straight edges only), 0.036" – 0.062" panel thickness, polyethylene, Natural. 100 feet per roll. | 1<br>Roll            |
| GES99F-A-C  | Solid grommet edging with adhesive (use on straight edges only), 0.062" – 0.099" panel thickness, polyethylene, Natural. 100 feet per roll. | 1<br>Roll            |
| GES144F-A-C | Solid grommet edging with adhesive (use on straight edges only), 0.099" – 0.144" panel thickness, polyethylene, Natural. 100 feet per roll. | 1<br>Roll            |

Representative list only. Please visit www.panduit.com for full offering.



Spiral wrap products provide abrasion protection for wire, cable, hoses, and tubing. The spiral wrap harnesses multiple cables into a single manageable bundle and allows for breakouts of single/multiple cables. Spiral wrap is available in several different colors to allow for easy identification of specific cable bundles. Multiple material options are available to allow the user to select the material that best suits their application needs. A simple installation tool is supplied in each package.



|             |   | Std.<br>Pkg. |
|-------------|---|--------------|
| Part Number | Description   | Qty.         |
| T25F-C      | Spiral wrap, offers abrasion protection for wires, cables, hoses and tubing, 0.25" (6.3mm) x 100', polyethylene, Natural. 100 feet per roll.                | 1<br>Roll    |
| T25N-TL     | Spiral Wrap, offers abrasion protection for wires, cables, hoses and tubing, .25" (6.3mm) x 250', nylon 6.6, Natural, 250 feet per roll.                    | 1<br>Roll    |
| T25T-L      | Spiral wrap, offers abrasion protection for wires, cables, hoses, and tubing, $0.25$ " (6.4mm) x 50', TFE, Natural, 50 feet per roll.                       | 1<br>Roll    |
| T38F-C      | Spiral wrap, offers abrasion protection for wires, cables, hoses and tubing, 0.38" (9.7mm) x 100', polyethylene, Natural. 100 feet per roll.                | 1<br>Roll    |
| T38N-TL     | Spiral Wrap, offers abrasion protection for wires, cables, hoses and tubing, .38" (9.7mm) x 250', nylon 6.6, Natural, 250 feet per roll.                    | 1<br>Roll    |
| T38T-L      | Spiral Wrap, offers abrasion protection for wires, cables, hoses and tubing, .38" (9.7mm) x 50', TFE, Natural, 50 feet per roll.                            | 1<br>Roll    |
| T50F-C      | Spiral wrap, offers abrasion protection for wires, cables, hoses and tubing, 0.50" (12.7mm) x 100', polyethylene, Natural. 100 feet per roll.               | 1<br>Roll    |
| T50FR-C20Y  | Spiral Wrap, offers abrasion protection for wires, cables, hoses and tubing, 0.50" (12.7mm) x 100', flame retardant polyethylene, Black. 100 feet per roll. | 1<br>Roll    |
| T100F-C     | Spiral wrap, offers abrasion protection for wires, cables, hoses and tubing, 1.00" (25.4mm) x 100', polyethylene, Natural. 100 feet per roll.               | 1<br>Roll    |
| T100FR-C20Y | Spiral Wrap, offers abrasion protection for wires, cables, hoses and tubing, 1" (25.4mm) x 100', flame retardant polyethylene, Black. 100 feet per roll.    | 1<br>Roll    |

# Pan-Wrap<sup>™</sup> Split Harness Wrap 🔊

Pan-Wrap<sup>™</sup> Split Harness Wrap is an abrasion protection product that incorporates an innovative design to maintain uniform bundle protection in dynamic applications. The unique wall design provides for easy cable breakouts and the patented slot pattern provides improved flexibility and abrasion protection properties. The large overlap accommodates a wide range of bundle diameters. The Pan-Wrap<sup>™</sup> Installation Tool is effective in considerably reducing the time required to install a cable bundle within the Pan-Wrap<sup>™</sup> Split Harness Wrap.



| Part Number  | Description  | Std.<br>Pkg.<br>Qty. |
|--------------|--|----------------------|
| PW50F-T20    | Pan-Wrap <sup>™</sup> Split Harness Wrap, 0.50" (12.7mm), 200 ft. (61m) per reel, polyethylene, Black.                   | 1<br>Roll            |
| PW75F-C20    | Pan-Wrap <sup>™</sup> Split Harness Wrap, 0.75" (19.1mm), 100 ft. (30.5m) per reel, polyethylene, Black.                 | 1<br>Roll            |
| PW75FR-C20Y  | Pan-Wrap <sup>™</sup> Split Harness Wrap, 0.75" (19.1mm), 100 ft. (30.5m) per reel, flame retardant polyethylene, Black. | 1<br>Roll            |
| PW100F-C20   | Pan-Wrap <sup>™</sup> Split Harness Wrap Split, 1" (25.4mm), 100 ft. (30.5m) per reel, polyethylene, Black.              | 1<br>Roll            |
| PW100FR-C20Y | Pan-Wrap <sup>™</sup> Split Harness Wrap, 1" (25.4mm), 100 ft. (30.5m) per reel, flame retardant polyethylene, Black.    | 1<br>Roll            |
| PW150FR-L20Y | Pan-Wrap <sup>™</sup> Split Harness Wrap, 1.5" (38.1mm), 50 ft. (15m) per reel, flame retardant polyethylene, Black.     | 1<br>Roll            |
| PWT50        | Pan-Wrap <sup>™</sup> Installation Tool; 1/2".   | 1                    |
| PWT75        | Pan-Wrap <sup>™</sup> Installation Tool; 3/4".   | 1                    |
| PWT100       | Pan-Wrap <sup>™</sup> Installation Tool; 1".   | 1                    |
| PWT150       | Pan-Wrap <sup>™</sup> Installation Tool; 1 1/2".   | 1                    |

Representative list only. Please visit www.panduit.com for full offering.

# **Corrugated Loom Tubing**

Corrugated Loom Tubing is a cost-effective solution to provide abrasion protection and light crush and impact resistance for cables. The lengthwise slit makes it easy to install a bundle of wires or a pre-assembled harness assembly. The corrugated material is designed to be flexible and allow for navigating around tighter corners. The corrugated tubing does not have any insulating properties and is only suitable for indoor use only.



| Part Number | Description   | Std.<br>Pkg.<br>Qty. |
|-------------|---|----------------------|
| CLT25F-C20  | The corrugated loom tubing slit wall measures .25" (6.4mm) x 100' (30.5m). It is black and made of polyethylene.  | 1<br>Roll            |
| CLT50F-C20  | The corrugated loom tubing slit wall measures .50" (12.7mm) x 100' (30.5m). It is black and made of polyethylene. | 1<br>Roll            |
| CLT75F-C20  | The corrugated loom tubing slit wall measures .75" (19.1mm) x 100' (30.5m). It is black and made of polyethylene. | 1<br>Roll            |
| CLT100F-C20 | The corrugated loom tubing slit wall measures 1" (25.4mm) x 100' (30.5m). It is black and made of polyethylene.   | 1<br>Roll            |

# Arc Flash Super-Tack Polyester Labels 🔊 🖓 IP69K

Panduit Arc Flash Labeling Solutions are designed to comply with the latest regulations including the 2018 NFPA 70E Standard. Print using Easy-Mark Plus<sup>™</sup> Labeling Software and TDP43ME thermal transfer desktop printer shown on pages 18 – 19.



| Part Number | Description  | Std.<br>Pkg.<br>Qty. |
|-------------|--|----------------------|
| C200X400A51 | Die cut arc flash warning label, 4.00" x 2.00" (101.6mm x 50.8mm), warning header, polyester adhesive, Orange header and Black/White.  | 1<br>Roll            |
| C200X400YZ1 | Die cut arc flash danger label, 4.00" x 2.00" (101.6mm x 50.8mm), danger header, polyester adhesive, Red header and Black/White.       | 1<br>Roll            |
| C400X400A51 | Die cut arc flash warning label, 4.00" x 4.00" (101.6mm x 101.6mm), warning header, polyester adhesive, Orange header and Black/White. | 1<br>Roll            |
| C400X400YZ1 | Die cut arc flash danger label, 4.00" x 4.00" (101.6mm x 101.6mm), danger header, polyester adhesive, Red header and Black/White.      | 1<br>Roll            |
| C400X600A51 | Die cut arc flash warning label, 4.00" x 6.00" (101.6mm x 152.4mm), warning header, polyester adhesive, Orange header and Black/White. | 1<br>Roll            |
| C400X600Y81 | Die-cut safety label, 4.00" x 6.00" (101.6mm x 152.4mm), polyester adhesive, Yellow.   | 1<br>Roll            |
| C400X600YZ1 | Die-cut arc flash danger label, 4.00" x 6.00" (101.6mm x 152.4mm), polyester adhesive, Red/White danger header.                        | 1<br>Roll            |

## Data Access Port Rated Type (UL, CSA, NEMA) 4, 4X, and 12, IP65, IP66

The Data Access Port provides data port and electrical outlet access to equipment without the safety hazards of opening the panel. The access port provides availability to log in to the network at the work site and can be used for reprogramming internal controllers. The circular design allows for data access ports to be installed effortlessly by using a standard panel punch. The modular design allows for RJ45 jacks, circuit breakers, USB, and other modular connectors to be interchanged at any time, allowing maximum design flexibility. Snap on mounting plate covers mounting screws and prevents tampering or unauthorized removal of access port from the control panel. Data access port has both a quarter turn lock and provisions for a padlock, both of which provide exceptional security. Versions are configured to accommodate any specification, including custom marking. In addition to the Simplex and GFCI outlets, options are available to incorporate standard 45mm European outlets.



DAP4



DAP3



IAEBH

| Part Number       | Description  |
|-------------------|--|
| 4 Inch Data Acces | s Port   |
| DAP4BC-G0         | Data Access Port, 4in. Base, GFCI Outlet   |
| DAP4BB-G0         | Data Access Port, 4in. Base w/ Black Cover, GFCI Outlet                          |
| DAP4BC-X0         | Data Access Port, 4in Base w/ International Faceplate insert                     |
| DAP4BC-G0-5U      | Data Access Port, 4in. Base, GFCI Outlet, CAT 5e Coupler, USB Coupler            |
| DAP4BC-G0-5       | Data Access Port, 4in. Base, GFCI Outlet, CAT 5e Coupler                         |
| DAP4BC-G3-5       | Data Access Port, 4in. Base, GFCI Outlet, CAT 5e Coupler, 3 Amp Breaker          |
| DAP4BC-G0-4       | Data Access Port, 4in. Base, GFCI Outlet, CAT 5e Shielded Coupler                |
| DAP4BC-G3-4       | Data Access Port, 4in. Base, GFCI Outlet, CAT 5e Shielded Coupler, 3 Amp Breaker |
| DAP4BC-G0-6       | Data Access Port, 4in. Base, GFCI Outlet, CAT 6 Coupler                          |
| DAP4BC-G3-6       | Data Access Port, 4in. Base, GFCI Outlet, CAT 6 Coupler, 3 Amp Breaker           |

| Inch Data Access Po |
|---------------------|
|---------------------|

4

| 3 Inch Data Access Port |   |  |  |  |
|-------------------------|---|--|--|--|
| DAP3BC-00               | Data Access Port, 3in. Base, 4 Blank Data Modules, No Power                                 |  |  |  |
| DAP3BC-00-55            | Data Access Port, 3in. Base, Two CAT 5e Couplers  |  |  |  |
| DAP3BC-S0               | Data Access Port, 3in. Base, Simplex Outlet   |  |  |  |
| DAP3BB-S0               | Data Access Port, 3in. Base w/ Black Cover, Simplex Outlet                                  |  |  |  |
| DAP3BC-S0-55            | Data Access Port, 3in. Base, Simplex Outlet, Two CAT 5e Couplers                            |  |  |  |
| DAP3BC-S0-5U            | Data Access Port, 3in. Base, Simplex Outlet, CAT 5e Coupler, USB Coupler                    |  |  |  |
| DAP3BC-S0-5             | Data Access Port, 3in. Base, Simplex Outlet, CAT 5e Coupler                                 |  |  |  |
| DAP3BC-S3-5             | Data Access Port, 3in. Base, Simplex Outlet, 3 Amp Breaker, CAT 5e Coupler                  |  |  |  |
| DAP3BC-S0-4             | Data Access Port, 3in. Base, Simplex Outlet, CAT 5e Shielded Coupler                        |  |  |  |
| DAP3BC-S3-4             | Data Access Port, 3in. Base, Simplex Outlet, 3 Amp Circuit Breaker, CAT 5e Shielded Coupler |  |  |  |
| DAP3BC-S0-6             | Data Access Port, 3in. Base, Simplex Outlet, CAT 6 Coupler                                  |  |  |  |
| DAP3BC-S3-6             | Data Access Port, 3in. Base, Simplex Outlet, 3 Amp Breaker, CAT 6 Coupler                   |  |  |  |

| 30 Millimeter Data | Access Port     |
|--------------------|-----------------|
| IAEBHUSBAA         | 30mm Industrial |

| oo mininotor Bate |  |
|-------------------|--|
| IAEBHUSBAA        | 30mm IndustrialNet <sup>™</sup> USB industrial bulkhead connector with protective cover  |
| IAEBH5E           | 30mm IndustrialNet <sup>™</sup> Category 5e, 8-position, 8-wire industrial bulkhead connector with protective cover                      |
| IAEBHC5E          | 30mm IndustrialNet <sup>™</sup> Category 5e, 8-position, 8-wire industrial black bulkhead coupler with protective cover.                 |
| IAEBH5ES          | 30mm Category 5e, 8-position, 8-wire shielded industrial connector with protective cover.  |
| IAEBH6            | 30mm IndustrialNet <sup>™</sup> Category 6, RJ45, 8-position, 8-wire industrial bulkhead connector with protective cover.                |
| IAEBHC6           | 30mm IndustrialNet™ Category 6, RJ45, 8-position, 8-wire black industrial bulkhead coupler with protective cover.                        |
| IAEBH6S           | 30mm IndustrialNet <sup>™</sup> Category 6, RJ45, 8-position, 8-wire shielded black industrial bulkhead connector with protective cover. |

# **Network Security Block-Out and Lock-In Devices**

Deter unauthorized network access and physical system changes.





| Part Number       | Description  | Color | Std.<br>Pkg.<br>Qty. |
|-------------------|--|-------|----------------------|
| Block-Out Devices | 3  |       |                      |
| PSL-DCJB          | Ten RJ45 jack module block-out devices and one removal tool.           | Red   | 1                    |
| PSL-LCAB          | Ten LC jack module block-out devices and one removal tool.             | Red   | 1                    |
| PSL-0SCBD         | Ten SC jack module block-out devices and one removal tool.             | Red   | 1                    |
| PSL-USBA          | Package of five USB Type A blockout devices and one removal tool.      | Red   | 1                    |
| PSL-USBB          | Package of ten USB Type B blockout devices and one removal tool.       | Red   | 1                    |
| Lock-In Devices   |  |       |                      |
| PSL-DCPLX         | Ten RJ45 plug lock-in devices, one installation/removal tool.          | Red   | 1                    |
| PSL-DCPLRX        | Ten recessed RJ45 plug lock-in devices, one installation/removal tool. | Red   | 1                    |
| FLCCLIW-X         | LC duplex lock-in clip and removal tool.                               | White | 1                    |
| QPPLD6-X          | QuickNet <sup>™</sup> 6-pack Plug Pack Lock-In Device.                 | Red   | 1                    |
| QPPLD8-X          | QuickNet <sup>™</sup> 8-pack Plug Pack Lock-In Device.                 | Red   | 1                    |

# **The Connected Control Panel**

An ethernet enabled control panel supports the increasing number of Ethernet nodes on the plant floor and allows the business to measure productivity in real-time, resulting in improved efficiencies, increased productivity and reduced costs.

# Industrial Network Uninterruptible Power Supply (UPS)

The Panduit Industrial Network UPS uses ultracapacitors instead of batteries, providing uninterrupted power and decreased risk of downtime for critical industrial applications including managed network switches, micro PLCs, and HMIs. The no-battery design is maintenance-free, delivering 2X better ROI and 50 – 70% lower cost of ownership than a battery-based UPS. Remote management via Ethernet connectivity with SNMP v1/v2c/v3 capability and standard web browser interface reduces operation expenses.

|  | Part Number | Part Description  | Std.<br>Pkg.<br>Qty |
|--|-------------|---|---------------------|
|  | UPS00100DC  | Uninterruptible Power Supply (UPS), 100 Watt; no-battery, maintenance-free with remote management; 24 – 28 VDC in/out, wide operating temperature range: -40°C to +60°C, DIN rail mount. UL Listed and CSA Certified. | 1                   |
| CON                                    | UPS003LSM   | UPS load sense module. Optional accessory for use in dual, redundant power supply configurations to monitor load on primary supply.   | 1                   |
| No Battery Maintennice Free 100W 204DC | UPS003LSM   | range: -40°C to +60°C, DIN rail mount. UL Listed and CSA Certified.<br>UPS load sense module. Optional accessory for use in dual, redundant power   | 1                   |

## IndustrialNet<sup>™</sup> DIN Rail Mount Patching Solutions

IndustrialNet<sup>™</sup> 8-port DIN Rail Mount Patching Solutions conserve precious real estate by consolidating all patching (fiber and copper) onto the DIN rails of a zone enclosure or control panel. These patching solutions are designed to "fit" with standard industrial switches and promote a structured cabling environment in the industrial network. IndustrialNet<sup>™</sup> 8-port DIN Rail Mount Patching Solutions allow customers to easily deploy copper and fiber connectivity and provide improved network performance and flexibility through the creation of fiber and copper permanent links in the same modular DIN footprint.



| Part Number | Part Description  | Std.<br>Pkg.<br>Qty. |
|-------------|---|----------------------|
| FDME8RG     | 8-port fiber optic patch panel, DIN rail mount; includes a PG21 or 3/4 NPT cable cord grip to secure fiber cable(s) exiting the enclosure.  | 1                    |
| CDPP8RG     | 8-port copper patch panel, DIN rail mount; includes screws to attach faceplate, Ultimate ID® Labels and Clear Covers; can also mount to other surfaces using mounting holes in latches. | 1                    |
| CDPP8RG-S   | IndustrialNet <sup>™</sup> , 8-port DIN Rail mount Shilelded Patch Panel. Includes Ultimate ID lables and label covers.   | 1                    |

Representative list only. Please visit www.panduit.com for full offering.

# Mini-Com<sup>™</sup> DIN Rail Mount Adapter

The DIN Rail Mount Adapter enables connection of active equipment in a zone enclosure or control panel. The adapter accepts a single module space Mini-Com<sup>™</sup> Module allowing easy moves, adds or changes to a single connection, with no specialized tools required. Low profile, compact size enables high component density on valuable DIN rail real estate.



| Part Number  | Part Description   | Std.<br>Pkg.<br>Qty |
|--|--|---------------------|
| CADIN1IG*  | Mini-Com <sup>™</sup> DIN Rail Mount Adapter mounts to standard 35mm DIN rail and accepts any single port Mini-Com <sup>®</sup> Module, International Gray.  | 1                   |
| El (Electric Ivory). Port o<br>to ground shielded jack | er than IG (International Gray), replace suffix with WH (White), IW (Off White), BL (Black) or<br>an be identified with UILS8BW and LS8E hand-held thermal transfer printer. Use CJSGK-X\<br>modules to ground wire in shielded applications.<br>Please visit www.panduit.com for full offering. |                     |

# IndustrialNet<sup>™</sup> Copper Connectivity

IndustrialNet<sup>™</sup> plugs, connectors, and adapters provide an ideal solution to support Industrial Ethernet connections to machines, devices and the rest of the plant network.



|                           |   | Std.         |  |  |
|---------------------------|---|--------------|--|--|
| Part Number               | Description   | Pkg.<br>Qty. |  |  |
| Industrial M12 Connectors |   |              |  |  |
| ISPS5E44MFA               | Category 5e M12 D-code shielded field terminable connector, male.                       |              |  |  |
| ISPS6A88MFA               | Category 6A M12 X-code shielded field terminable connector, male.                       |              |  |  |
| ICAM12X90RJS              | Category 6A M12 X-code shielded to RJ45 industrial adapter, 90° angle, panel mount.     | 1            |  |  |
| ICAM12XRJS                | Category 6A M12 X-code shielded to RJ45 industrial adapter, panel mount.                | 1            |  |  |
| ICAM12DRJS                | Category 5e M12 D-code to RJ45 industrial adapter, panel mount.                         | 1            |  |  |
| Industrial Bulkhea        | ad RJ45 Connector with Protective Cover   |              |  |  |
| IAEBHV56XS                | Category 6A Variant 5 IP67 rated RJ45 connector, shielded.                              | 1            |  |  |
| IAEBH6X                   | Category 6A Variant 1 IP67 rated RJ45 connector.  | 1            |  |  |
| IAEBH6XS                  | Category 6A Variant 1 IP67 rated RJ45 connector, shielded.                              | 1            |  |  |
| IAEBH6                    | Category 6 Variant 1 IP67 rated RJ45 connector.   | 1            |  |  |
| IAEBH6S                   | Category 6 Variant 1 IP67 rated RJ45 connector, shielded.                               | 1            |  |  |
| IAEBH5E                   | Category 5e Variant 1 IP67 rated RJ45 connector.  | 1            |  |  |
| IAEBH5ES                  | Category 5e Variant 1 IP67 rated RJ45 connector, shielded.                              | 1            |  |  |
| Industrial Shielde        | d Field Term Plug   |              |  |  |
| FPS6X88MTG                | IndustrialNet <sup>™</sup> , Category 6A Shielded, Field Terminable RJ45 Plug           | 1            |  |  |
| FPE6X88MTG                | PROFINET, Category 5e Shielded Field Terminable RJ45 Plug                               | 1            |  |  |
| Industrial Bulkhea        | ad Couplers with Protective Cover   |              |  |  |
| IAEBHC6                   | Category 6 Variant 1 IP67 rated RJ45 coupler.   | 1            |  |  |
| IAEBHC5E                  | Category 5e Variant 1 IP67 rated RJ45 coupler.  | 1            |  |  |
| Industrial Mini-Co        | m <sup>®</sup> Coupler Module   |              |  |  |
| IAEBHUSBAA                | USB 2.0 Variant 1 IP67 rated female A to female A coupler.                              | 1            |  |  |
| Industrial RJ45 PI        | ugs   |              |  |  |
| MPSIV56XT                 | Category 6A Variant 5 IP67 rated RJ45 plug for 26 – 22 AWG solid or stranded, shielded. | 1            |  |  |
| ISPS688FA                 | Category 6A RJ45 plug for 24 – 22 AWG solid, 1.0 – 1.6mm, shielded.                     | 1            |  |  |
| ISPS688FAS                | Category 6A RJ45 plug for 24 – 22 AWG stranded,<br>0.85 – 1.00mm, shielded.             |              |  |  |
| Bulkhead Faceplates       |   |              |  |  |
| IAEFP1                    | Vertical faceplate, accepts one IndustrialNet <sup>™</sup> Bulkhead Connector.          |              |  |  |
| IAEFP2-2G                 | Double gang, vertical faceplate, accepts two IndustrialNet <sup>™</sup> Bulkhead        | 1            |  |  |

Representative list only. Please visit www.panduit.com for full offering.

Connectors.

# **Copper Patch Cords**

Patch cords are ideal for patching in panel building applications and are available in performance levels of Category 5e, 6 and 6A for UTP and shielded applications. The variety of cable colors and lengths meet individual length and color-coding requirements for greater system flexibility. Robust, 600V-rated patch cords deliver reliability for panel or on-machine applications when space is shared with high voltage power cables in industrial environments.



| Part Number  | Description  | Std.<br>Pkg.<br>Qty. |
|--------------|--|----------------------|
| UTPCH*Y      | Category 5e, UTP patch cord with Pan-Plug® Modular Plugs on each end.  | 1                    |
| STPCH*MBBL   | Category 5e, shielded patch cord with Pan-Plug® Shielded Modular Plugs on<br>each end.   |                      |
| UTPSP*Y      | Category 6, UTP patch cord with TX6 <sup>™</sup> PLUS Modular Plugs on each end.   | 1                    |
| STP6X*IG     | Category 6A, 10 Gb/s S/FTP patch cord with TX6A <sup>™</sup> 10Gig <sup>™</sup> Modular Plugs on each end.   | 1                    |
| UTP6ASD*     | Category 6A (SD), 10 Gb/s UTP patch cord with TX6A <sup>™</sup> 10Gig <sup>™</sup> Modular Plugs on each end.  | 1                    |
| UZPPBU*      | Category 6A, UTP, solid, plenum, zone cable assembly with TX6A <sup>™</sup> 10Gig <sup>™</sup> Modular Plugs on each end.  | 1                    |
| ISTPHCH0.3TL | IndustrialNet <sup>™</sup> , Category 5e Shielded, 600V, Patch Cord. Additional lengths available, replace 0.3 with 0.6, 1M, 1.5M, 2M, 2.5M, 3M, 3.5M, 4M, 4.5M, 5M, 7M, or 10M. | 1                    |
| ISTPH6X0.3TL | IndustrialNet <sup>™</sup> , Category 6A Shielded, 600V, Patch Cord. Additional lengths available, replace 0.3 with 0.6, 1M, 1.5M, 2M, 2.5M, 3M, 3.5M, 4M, 4.5M, 5M, 7M, or 10M. | 1                    |

Optional RJ45 plug lock-in devices offer a tamper resistant design that blocks unauthorized removal of critical connections, see page 22. \*A variety of performance levels, standard lengths and colors are available, contact customer service. Representative list only. Please visit www.panduit.com for full offering.

### **Copper Bulkhead Patch Cords**

Part Number

Category 6A

| Part Number | Description   | Std.<br>Pkg.<br>Qty. |
|-------------|---|----------------------|
| ISTP6X10MBL | IndustrialNet <sup>™</sup> Copper Patch Cord, Category 6A, SFTP, patch cord with plug caps, 10 meters. Black. | 1                    |
| ISTPCH%MBLY | Industrial Copper Patch Cord, Category 5e, STP, modular plugs with caps. Black.                               | 1                    |
| IUTPCH%BLY  | Industrial Copper Patch Cord, Category 5e, UTP, modular plugs with caps. Black.                               | 1                    |
| IUTP6X%MBL  | IndustrialNet <sup>™</sup> Copper Patch Cord, Category 6A, SFTP, unshielded plugs with caps. Black.           | 1                    |

#### **Copper Cable**

ISTPH6X0.3T

| III- |  |
|------|--|
|      |  |
|      |  |
|      |  |

IFRH5C04BL-UG

**ISFCH6X04ATL-US** Industrial, 600V, 4-pair, 24/7 AWG Stranded, SF/UTP, CMR, Oil Res., UV Res., 1000 Teal, 1000 ft. Reel. **ISFCH6X04BTL-US** Industrial, 600V, 4-pair, 26/7 AWG Stranded, SF/UTP, CMR, Oil Res., UV Res., 1000 Teal, 1000 ft. Reel. Category 6 ISFCH6X04BTL-UG **IFRH6C04BL-UGS** Industrial, 600V, 4-pair, 23/1 AWG Solid, F/UTP, CMR, Black, 305m/1000 ft. Reel. 1000 **Category 5e** IFRH5C02BL-UG-S Industrial 600V, 2-pair, 24/1 AWG Solid, F/UTP, CMR, Black, 305m/1000 ft. Reel. 1000 IFRH5C04BL-UG-S Industrial 600V, 4-pair, 24/1 AWG Solid, F/UTP, CMR, Black, 305m/1000 ft. Reel. 1000 ISFCH5C02ATL-XG IndustrialNet<sup>™</sup>, 600V, 2-pair, 24/7 AWG, SF/UTP, CMX, Oil Res., UV Res., Weld 1000 Spatter Res., Teal. 1000 ft. Reel. **ISFCH5C04ATL-XG** IndustrialNet<sup>™</sup>, 600V, 4-pair, 24/7 AWG, SF/UTP, CMX, Oil Res., UV Res., Weld 1000 Spatter Res., Teal. 1000 ft. Reel. 31

Description

Std. Pkg.

Qty.

# **Fiber Patch Cords**

IndustrialNet<sup>™</sup> Patch Cords are pre-terminated and provide IP67 seal when mated to IP67 bulkhead adapters.



| Part Number              | Description   | Std.<br>Pkg.<br>Qty. |
|--------------------------|---|----------------------|
| IAEF617P-7PM1            | Industrial LC to LC multimode duplex patch cord, $62.5/125\mu m$ , 1 meter.   | 1                    |
| IAEF617P-NM1             | Industrial LC to pigtail multimode duplex pigtail, 62.5/125 $\mu$ m, 1 meter. | 1                    |
| Representative list only | Please visit www.panduit.com for full offering.                               |                      |

# IndustrialNet<sup>™</sup> Overmolded Cordsets

IndustrialNet<sup>™</sup> Overmolded Cordsets deliver high quality patch connections from machines and devices to switches and enclosures on the plant floor. Protocols supported include Ethernet, EtherNet/IP\*, PROFINET, Modbus, and EtherCAT. The cordsets are industrially rated to IP67/68, NEMA 1, 3, 4, 6, 6P, UL and meet the industrial premise standards for performance, including M.I.C.E guidelines, ensuring high performance and longevity under harsh environmental conditions.

\*EtherNet/IP is a trademark of ODVA, Inc.

|   |  |                        |   |                                      | Std<br>Pkg.                          |              |
|---|--|------------------------|---|--------------------------------------|--------------------------------------|--------------|
| M12, bulkhead, female<br>D-code connector |  | Part Number            | Termination End 1                         | Termination End 2                    | Qty.                                 |              |
|   |  | Category 5e, STP C     | able                                      |                                      |                                      |              |
|   |  | ICD11T1NTL*M           | M12, male D-code, straight connector      | M12, male D-code, straight connector | 1                                    |              |
|   |  | ICD22T1NTL*M           | M12, male D-code, angled connector        | M12, male D-code, angled connector   | 1                                    |              |
| Cicco                                     |  | ICD14T1NTL*M           | M12, male D-code, straight connector      | RJ45<br>Modular Plug                 | 1                                    |              |
|   |  | ICD44T1NTL*M           | M12, bulkhead, female<br>D-code connector | RJ45<br>Modular Plug                 | 1                                    |              |
| M12, male<br>D-code, straight             | M12, female<br>D-code, straight<br>connector | ICD45T1NTL0.5M         | M12, bulkhead, female<br>D-code connector | Unterminated                         | 1                                    |              |
| connector                                 |  | ICD35T1NTL*M           | M12, female D-code, straight connector    | Unterminated                         | 1                                    |              |
|   |  | ICD25T1NTL*M           | M12, male D-code, angled connector        | Unterminated                         | 1                                    |              |
|   |  |                        |   | ICD15T1NTL*M                         | M12, male D-code, straight connector | Unterminated |
| M12, male                                 | RJ45<br>modular<br>plug                      | Category 5e, UTP C     | able                                      |                                      |                                      |              |
| D-code, angled connector                  |  | ICD11T2NTL*M           | M12, male D-code, straight connector      | M12, male D-code, straight connector | 1                                    |              |
|   |  | Category 6A, STP Cable |   |                                      |                                      |              |
|   |  | ICX11T1NTL*M           | M12, male X-code, straight connector      | M12, male X-code, straight connector | 1                                    |              |
|   |  | ICX44T1NTL*M           | M12, bulkhead, female<br>X-code connector | RJ45<br>Modular Plug                 | 1                                    |              |
| M12, bulkhead, female X-code              | M12, male<br>X-code, straight                | ICX45T1NTL0.5M         | M12, bulkhead, female<br>X-code connector | Unterminated                         | 1                                    |              |
| connector                                 | connector                                    | ICX15T1NTL*M           | M12, male X-code, straight connector      | Unterminated                         | 1                                    |              |
|   |  | *A                     |   |                                      |                                      |              |

\*A variety of standard lengths and configurations are available, contact customer service. Representative list only. Please visit www.panduit.com for full offering.

# IndustrialNet<sup>™</sup> Motor Control Center (MCC) Connectivity

IndustrialNet<sup>™</sup> MCC Cable Bundles provide the critical connections between industrial switches and other smart devices to the MCC, allowing businesses to take advantage of new IoT and Ethernet technologies for improved monitoring and maintenance of existing systems. Pre-terminated and industrially rated, Panduit MCC connectivity delivers a fast and reliable solution for harsh plant floor applications.



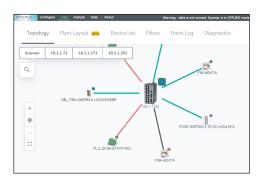
| Part Number | Description   | Std.<br>Pkg.<br>Qty. |
|-------------|---|----------------------|
| I4JPBJLU*   | Category 6A plenum; 300V; jack no stagger to jack-no stagger, no loom, Black. | 1                    |
| I4KOTJLUX*  | Category 6A outdoor; 600V; jack no stagger to jack no stagger, no loom, Teal. | 1                    |

\*A variety of connections and lengths in loomed and non-loomed versions available, contact customer service. Representative list only.

Please visit www.panduit.com for full offering.

# IntraVUE<sup>™</sup> Industrial Ethernet Visualization and Monitoring Software

IntraVUE<sup>™</sup> Software automatically detects Ethernet-connected devices and assembles them into a connection tree map of the physical layer network infrastructure, providing visibility into all levels of devices on a manufacturing floor. This software tool enables quick and efficient identification to network communication problems and provides a comprehensive, accurate view of an entire Ethernet device architecture for non-technical users. IntraVUE<sup>™</sup> Software empowers maintenance and/or controls engineers to shift from a reactive to proactive approach to greatly improve both the uptime and performance of critical, real-time networked automation systems.



| Nodes | Standard<br>Product Number | Advanced<br>Product Number |
|-------|----------------------------|----------------------------|
| 128   | SNMS-0128                  | SNMA-0128                  |
| 256   | SNMS-0256                  | SNMA-0256                  |
| 512   | SNMS-0512                  | SNMA-0512                  |
| 1,204 | SNMS-1024                  | SNMA-1024                  |
| 2,048 | SNMS-2048                  | SNMA-2048                  |
| 4,096 | SNMS-4096                  | SNMA-4096                  |
| 8,192 | SNMS-8192                  | SNMA-8192                  |

Product #WNMS-APPL is an optional Linux-based IntraVUE<sup>™</sup> Appliance Package that contains only hardware.



# CONTROL PANEL / WIRE HARNESS PROGRAM

The Control Panel / Wire Harness Program is built to enable partners to grow market share by partnering with Panduit, creating strong relationships and offering best in class incentives to win projects together.

# **PROGRAM TIER STRUCTURE**



#### PLATINUM \$300,000+ USD | \$390,000 CAD Base 4%, Growth 2%, POS Adder .25% Quarterly

GOLD

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\$125,000 - \$299,999 USD | \$162,500 - \$389,999 CAD Base 3%, Growth 2%, POS Adder .25% Quarterly

### SILVER

\$50,000 - \$124,999 USD | \$65,000 - \$162, 499 CAD Base 2%, Growth 2%, POS Adder .25% Quarterly

### BRONZE

\$10,000 - \$49,999 USD | \$13,000 - \$64,999 CAD Base 1%, Growth 2%, POS Adder .25% Quarterly

CAP: \$30,000 USD | \$39,000 CAD

# FOUR TIERED

- Bronze, Silver, Gold & Platinum
- Annual Purchase Requirement Based

#### CORE BENEFITS & TOOL CREDITS

- Growth Incentive
- Base Incentive
- POS Adder
- CORE REQUIREMENTS
  - Signed T&Cs
  - Annual POS Submittal

FOR MORE INFORMATION PLEASE CONTACT US:



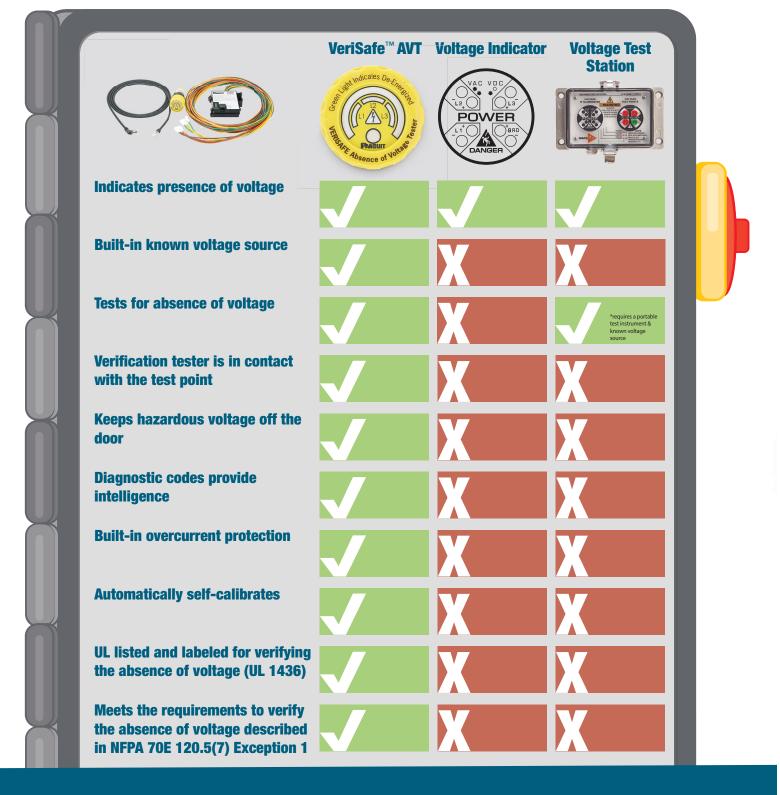
800-759-9428







# ABSENCE OF VOLTAGE TESTERS ARE MORE THAN VOLTAGE INDICATORS





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# PANDUIT

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