Wiring Duct
Product Selection Guide
Panduit wiring duct is the top choice in the market for efficiently organizing and protecting wires and cables. As a leader in the industry, nearly all our wiring duct is proudly manufactured in the USA, adhering to stringent quality standards and innovative design. Wiring duct products that are BABA (Build America, Buy America) compliant are called out in the compliance table on Page 8.

**PVC Flush Cover Wiring Duct**
- Type G, Wide Slots, Wide Fingers
- Type F, Narrow Slots, Narrow Fingers
- Type D, Round Holes
- Type FS, Solid Wall
- Type C Covers for Type F, G, D, FS, and MC Wiring Duct

**PVC Hinged Cover Wiring Duct**
- Type H, Hinged Cover, Wide Slots
- Type MC, Narrow Slots, Narrow Fingers, Metric
- Type HS, Hinged Cover, Solid Wall
- Type HC Covers for Type HN, H, and HS Wiring Duct

**Halogen-Free Wiring Duct**
- Type NE, Halogen-Free, Wide Slots
- Type NNC, Halogen-Free, Wide Slots, Metric
- Type NC Covers for Type NE and NNC Wiring Duct

**Low-Smoke, Halogen-Free Wiring Duct**
- Type TNC, Low Smoke, Halogen-Free, Wide Slots, Metric
- Type TNC Covers for Type TNC Wiring Duct

**PanelMax™ Space Optimization and Noise Mitigation Products**
- Type DRD, DIN Rail Wiring Duct*
- Type CWD, Corner Wiring Duct (use 2" Type C Cover)
- Shielded Wiring Duct
- EMI Noise Shield
- Type FL - Flexible Wiring Duct

* DIN Rail not included.
** More information on PanelMax™ duct types and Halogen free materials on page 6.
These wiring duct types are sold base and cover separately: G, F, D, FS, HN, H, HS, NE, CWD, and Shielded.
These wiring duct types are sold base and cover together: DRD, NNC, TNC, and MC.
## Wiring Duct Available Colors and Sizes

<table>
<thead>
<tr>
<th>Duct Size W x H</th>
<th>LG Light Gray</th>
<th>WH White</th>
<th>BL Black</th>
<th>IB Intrs. Blue+</th>
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<td>3.35 x 2.54*</td>
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<td>4.40 x 3.57*</td>
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<td>5.33 x 4.58**</td>
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<td>6.25 x 2.12**</td>
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<td>7.25 x 3.12**</td>
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<td>8.25 x 4.12**</td>
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<td>DRD</td>
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</tbody>
</table>

*Corner Duct Profile
**DIN Rail Duct Profile
^Only offered with no mounting holes

**Intrinsic Blue Color** Intrinsic Blue wiring duct is made from the same lead-free PVC material as our standard PVC duct. Intrinsic Blue is an Internationally recognized standard blue color that identifies the wiring duct as “incapable of releasing sufficient electrical or thermal energy under normal or abnormal conditions, to cause ignition of a specific hazardous atmospheric mixture in its most easily ignited concentrations.”

*ISA-RD12.6 (Instrument Society of America)
Simplifying this formula results in the formula used for wire fill calculation:

Panduit Wiring Duct wire fills are calculated using the following general formula:

As specified in NFPA79-2012 section 13.5.2, Percentage Fills of Raceways (Ducts), a 50% wire fill is given as the maximum wire fill capacity in all Panduit Wiring Ducts. This helps ensure general safe wiring practices are followed. In actual practice, a 50% wire fill is the maximum amount of wiring the duct can hold given the additional airspace created between cables by non-uniform cable shapes, cable interlacing, and cable packing factors.

The wire area formula is converted to allow calculation using the cable diameter:

Inserting the elements from above into the general formula results in the following:

50% Wire fill = 0.50 (\(\frac{W \times H}{0.90 \times 0.785 \times D^3}\))

Simplifying this formula results in the formula used for wire fill calculation:

50% Wire fill = \(\frac{W \times H}{1.75 \times D^2}\)

Note: When calculating wire fill capacity using the above formula, variables W, H, and D must be expressed in same units (i.e. mm or inches).

### General Formula

Panduit Wiring Duct wire fills are calculated using the following general formula:

\[ \text{Wire Fill} = 50\% \times \left( \frac{\text{Usable Duct Area}}{\text{Wire Area}} \right) \]

### What is the Usable Duct Area?

The usable area we define as the calculation of internal area that can be occupied by wires or cables. Accounting for thickness of material, 90% of the nominal area (WxH) is used in the formula.

### Wire Area

The wire area formula is converted to allow calculation using the cable diameter:

\[ A_{\text{wire}} = \frac{\pi r^2}{4} \]

\[ A_{\text{wire}} = \frac{\pi}{4} \times D^2 \]

\[ A_{\text{wire}} = 0.785 \times D^2 \]

### Formula Derivation

Inserting the elements from above into the general formula results in the following:

50% Wire fill = 0.50 \(\frac{W \times H}{0.90 \times 0.785 \times D^3}\)

Simplifying this formula results in the formula used for wire fill calculation:

50% Wire fill = \(\frac{W \times H}{1.75 \times D^2}\)
Part Numbering System for Panduct® Wiring Duct

G
Type
G = Wide Slot
F = Narrow Slot
FL = Flexible Duct
FS = Solid Wall
H = Hinged Cover, Wide Slot
HN = Hinged Cover, Narrow Slot
HS = Hinged Cover, Solid Wall
D = Round Hole
NHC = Halogen-Free, Metric
NE = Halogen-Free
MC = Narrow Slot, Metric
TNC = Low Smoke, Halogen-Free

2
Nominal Width
in. or mm
X
2
Nominal Height
in. or mm
LG
Color
LG = Light Gray
WH = White
BL = Black
IB = Intrinsic Blue
IG = International Gray
-6
Length
6 ft. or 2m
-A
Options
-A = Adhesive backed
NM = No mounting holes
Leaves blank for no options

Part Numbering System for Panduct® PanelMax™ DIN Rail Wiring Duct

DRD
Type
DRD = DIN Rail Duct

2
Size
Capability Height
22 = 2" Height
33 = 3" Height
44 = 4" Height

LG
Color
LG = Light Gray
WH = White

6
Length
6 ft.

Part Numbering System for Panduct® PanelMax™ Corner Wiring Duct

CWD
Type
CWD = Corner Wiring Duct

2
Size
Capability Height
2 = 2" Height
3 = 3" Height
4 = 4" Height

LG
Color
LG = Light Gray
WH = White

6
Length
6 ft.

Part Numbering System for Panduct® Wiring Duct Covers

C
Type
C = Cover
HC = Hinged Cover
NC = Halogen-Free
TNC = Low Smoke, Halogen-Free
DRDC = DIN Rail Duct

2
Width
In. or mm
LG
Color
LG = Light Gray
WH = White
BL = Black
IB = Intrinsic Blue
IG = International Gray

6
Length
6 ft. or 2m

Panduct® PanelMax™ Shielded Wiring Duct

Shielded wiring duct is a Type G style duct with bridges wrapped with an aluminum foil shield. Sold in 6 ft. lengths, available in three (3) sizes and uses Type C covers.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Size (W x H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G2X2LG6EMI</td>
<td>2&quot; x 2&quot;</td>
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<tr>
<td>G2X3LG6EMI</td>
<td>2&quot; x 3&quot;</td>
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<tr>
<td>G2X4LG6EMI</td>
<td>2&quot; x 4&quot;</td>
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</table>

Panduct® PanelMax™ Noise Shield

Noise shield is zinc-plated steel and black powder coated except at bonding locations. Each kit contains two (2) 3 ft. sections and four (4) bonding clips.*

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Size (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD2EMI</td>
<td>2&quot;</td>
</tr>
<tr>
<td>SD3EMI</td>
<td>3&quot;</td>
</tr>
<tr>
<td>SD4EMI</td>
<td>4&quot;</td>
</tr>
</tbody>
</table>

*Additional bonding clips available – SDCLIP (2 per package).
Rigid Polyvinyl Chloride (PVC)
A general purpose lead-free material for indoor applications. It has a UL 94 flame class of V-0 with a UL recognized continuous-use temperature up to 50°C (122°F). Used in the manufacture of the following types of Panduit wiring duct and covers: G, F, D, FS, MC, H, HN, HS, CWD, DRD.

Modified Polyphenylene Oxide (mPPO) – Halogen-Free
A special purpose material for use in halogen-free or high-temperature applications. It has a UL 94 flame class of V-0 with a UL recognized continuous-use temperature up to 95°C (203°F) and is 20% lighter than PVC. Used in the manufacture of the following types of Panduit wiring duct and covers: NE and NNC.

Polyphenylene Ether + High Impact Polystyrene (PPE+HIPS) – Halogen-Free
A special purpose material for use in low-smoke, halogen-free, and high-temperature applications. It has a UL 94 flame class of V-0 with a UL recognized continuous-use temperature up to 105°C (221°F). Meets the regulatory requirements of the mass transit industry and other applications where fire and public safety are critical; such as in trains, buses, offshore oil and gas platforms, and other similar environments. Used in the manufacture of Type TNC wiring duct and covers.

Polypropylene (PP)
A flexible material with a UL 94 flame class of V-2 with a UL recognized continuous-use temperature up to 65°C (149°F). Used in the manufacture of Type FL flexible wiring duct.

Recommended Precaution when using Type NE, NS, NNC, and TNC Wiring Duct
Cleaning solvents and cutting fluids that contain any of the following chemical agents should not come into contact with these types of wiring duct or covers. These chemicals are the most commonly known to cause stress cracking.
- Hydrocarbons
- Ketones
- Ethers
- Organic, inorganic, and oxidizing acids
Refer to www.panduit.com for more information on chemical resistance.

Unmatched Expertise
Panduit continually invests in resources to solve your greatest business and technology challenges. Our network of sales, technical support, distribution, and manufacturing teams are readily accessible to help you with your project needs.
Complete Your Installation with Accessories and Installation Tools

Wire Duct Cutting Tools

- **Bench Mount Duct Cutting Tool** (PBDCT*)
- **Hand-Held Duct Cutting Tool** (DCT*)
- **Duct Notching Tool** (DNT-100)
- **Duct Finger Cutting Tool** (DFCT)

Wire Duct Installation Tools

- **Nylon Rivet** (TNR) – Nylon Rivet Installation Tool

Accessories

- **Adhesive Tape**
  - Available in roll form or factory applied on select sizes

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<th>Duct Size (WxH)</th>
<th>Tape Part No.</th>
<th>Roll Length</th>
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<td>0.5 x 0.5 thru 1.5 x 4</td>
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<td>7.0 6.4</td>
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<td>2 x 1 thru 3 x 3</td>
<td>P32W2A2-50-72</td>
<td>72.0 65.5</td>
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<td>3 x 4 thru 3 x 5</td>
<td>P32W2A2-50-7</td>
<td>7.0 6.4</td>
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<td>4 x 1.5 thru 4 x 3</td>
<td>P32W2A2-50-72</td>
<td>72.0 65.5</td>
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<tr>
<td>4 x 4 thru 6 x 4</td>
<td>P32W2A2-50-7</td>
<td>7.0 6.4</td>
</tr>
</tbody>
</table>

**Nylon Rivets**
- NR1-C – 100 pcs.
- NR1-M – 1000 pcs.

**Divider Walls**

- **PVC Divider Walls**
  - Light Gray: D2H6 - 2" (H), D3H6 - 3", D4H6 - 4"
  - White: D2WH6 - 2", D3WH6 - 3", D4WH6 - 4"

- **PVC Slotted Divider Walls**
  - Light Gray: SD2H6 - 2", SD3H6 - 3", SD4H6 - 4"
  - White: SD2WH6 - 2", SD3WH6 - 3", SD4WH6 - 4"

- **Halogen-Free Divider Walls**
  - NNC75DWH2 - 75mm
  - Low Smoke, Halogen-Free
  - TNC50D2 - 50mm
  - TNC75D2 - 75mm

- **DB-C**
  - Divider Wall Base for mounting all types of divider walls; halogen free

**Corner Strips**

- **CSC1LG6**
  - 6 ft. length strip with bend radius control
- **CS1LG6**
  - 6 ft. length strip

**Snap-Clip Mounting Brackets**

- **Corner Duct Wiring Clips**
  - CDCLP2
  - CDCLP3
  - CDCLP4

- **For Wiring Duct Types G, F, FS, and D**
  - S1F-C – 1" duct width
  - S2F-C – 2" duct width
  - S3F-C – 3" duct width
  - S4F-C – 4" duct width

- **For Wiring Duct Type NE**
  - SNS.75-C – 0.75’ duct width
  - SNS1-C – 1" duct width
  - SNS1.5-C – 1.5" duct width
  - SNS2-C – 2" duct width

- **Snap-Clip Mounting Brackets**

**Wire Retainers**

- **For Type F and HN Wiring Duct**
  - FWR-C
  - for 1.5" – 4" duct width

- **For Type FS and D Wiring Duct**
  - WRS-A-C10
  - for 1" – 2" duct width

- **For Type G and H Wiring**
  - WR2-C – for 2" duct width
  - WR3-C – for 3" duct width
  - WR4-C – for 4" duct width
  - WR5-C – for 5" duct width

*Replacement blades available
## Panduit Wiring Duct Approvals and Compliances

<table>
<thead>
<tr>
<th>Agency Mark</th>
<th>Agency</th>
<th>Requirement</th>
<th>Classification/Performance</th>
<th>Wiring Duct Types/Products</th>
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<td></td>
<td>Underwriters Laboratories, Inc. File No. E147128</td>
<td>UL 1565</td>
<td>Material Flame Class V-0 Continuous-use temperature up to 50°C (122°F)</td>
<td>All wiring duct types and covers</td>
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<td>Underwriters Laboratories, Inc.</td>
<td>UL 1565 CSA C22.2 No. 18.5-13</td>
<td>Material Flame Class V-0 Continuous-use temperature up to 50°C (122°F)</td>
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<td>Underwriters Laboratories, Inc.</td>
<td>UL 508 section 15</td>
<td>An insulating barrier material shall comply with the minimum material properties indicated in Table 15.1</td>
<td>PVC divider walls</td>
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<td>Underwriters Laboratories, Inc.</td>
<td>UL 508 sections 34 and 181</td>
<td>Qualifies as a metal barrier with required thickness as indicated in Table 6.1</td>
<td>SD’EMI metal barrier</td>
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<td>Canadian Standards Association File No. 016446</td>
<td>CSA C22.2 No. 18.5-02</td>
<td>Material Flame Class V-0 Continuous-use temperature up to 50°C (122°F)</td>
<td>All wiring duct types and covers (except H, HS, and HN)</td>
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<td>Low Voltage Directive 2006/95/EC</td>
<td>EN 50085-1 EN 50085-2-3</td>
<td>• CDS (cable ducting system for impact 2 J) • Minimum storage, transport, installation, and application temperature: -5°C (23°F) • Maximum application temperature: 60°C (140°F) • Non-flame propagating • Without electrical continuity • Cover removable without a tool</td>
<td>H, HS, G, F, D, MC, FS, NNC, NE, DRD, and TNC</td>
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<td>Conformity European</td>
<td>EN 45545-2</td>
<td>Type NNC and Type NE: Exterior (R23) - HL1 Type TNC: Interior (R22) - HL2 &amp; Exterior (R23) - HL2</td>
<td>NNC and TNC</td>
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<td>DIN German Institute for Standardization</td>
<td>DIN 43659</td>
<td>• Specifies dimensions for slotted trunkings used in electrical switch-gear assemblies and that conform to DIN VDE 060 Part 506 • Channel mounting hole pattern, slot dimensions, pitch, and location • Distance from first to last like-size mounting hole • Minimum overall product length</td>
<td>MC, NNC, and TNC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DIN 5510-2 DIN 54837</td>
<td>Burning Class: S4 Smoke Class: SR2 Dripping Class: ST2</td>
<td>TNC</td>
</tr>
<tr>
<td></td>
<td>AFNOR French Association of Normalization</td>
<td>NF F 16-101 NF F 16-102</td>
<td>Type NNC Wiring Duct Classification = F3/4 Type TNC Wiring Duct Classification = F1/4</td>
<td>NNC and TNC</td>
</tr>
<tr>
<td></td>
<td>UNIFER Italian Railway Standards</td>
<td>EN ISO 11925-2</td>
<td>Pass 30-second flame application</td>
<td>TNC</td>
</tr>
<tr>
<td></td>
<td>FRA – Federal Railroad Administration</td>
<td>49 CFR Part 238</td>
<td>Surface Flammability: &lt; 35 Smoke Density D1 (1.5) &lt; 100 D1 (4.0) &lt; 200</td>
<td>TNC</td>
</tr>
<tr>
<td></td>
<td>NFPA – National Fire Protection Association</td>
<td>NFPA130</td>
<td>Non-metallic duct shall be permitted (inside enclosures) only when they are made with a flame-retardant material; flame-retardant material is defined in the standard by the IEC 60332-1 test method</td>
<td>All wiring duct types and covers (except FL)</td>
</tr>
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<td></td>
<td>National Fire Protection Agency</td>
<td>NFPA 79-2012, Section 13.3.1 IEC 60332-1</td>
<td>Panduit publishes a maximum percentage wire fill for common wire types equal to 50% of the interior cross-sectional area of the wiring duct</td>
<td>All wiring duct types and covers</td>
</tr>
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<td>NFPA 79-2012, section 13.1.6.9</td>
<td>Panduit bend radius control accessories can be mounted at right angles and T junctions created using wiring duct in order to maintain cable bend radius control</td>
<td>Corner strip with 1” bend radius control</td>
</tr>
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<td>NFPA 79-2012, Section 13.5.2</td>
<td>Panduit publishes a maximum percentage wire fill for common wire types equal to 50% of the interior cross-sectional area of the wiring duct</td>
<td>All wiring duct types and covers</td>
</tr>
<tr>
<td></td>
<td>RoHS European Union</td>
<td>European Directive 2015/863/EU</td>
<td>Meets the requirements on the Restriction of Hazardous Substances and is free of the six substances listed in the directive</td>
<td>All wiring duct products</td>
</tr>
<tr>
<td></td>
<td>U.S. Government</td>
<td>Build America Buy America Act</td>
<td>Meets the requirements for manufactured products produced in the United States.</td>
<td>All wiring duct types and covers (except flexible wiring duct, metal noise shield, corner duct mounting clips, and tools)</td>
</tr>
</tbody>
</table>