Wyr-Grid® Overhead Cable Tray Routing System

specifications

The overhead cable tray routing system shall consist of pathway sections, splice connectors, sidewalls, waterfalls, mounting brackets, and accessories designed to route and manage copper, fiber optic, or power cables. The pathway sections shall be provided in five widths: 8" (203mm), 12" (305mm), 18" (457mm), 24" (610mm) and 30" (762mm). Optional snap-on sidewalls shall include 2" (50mm), 4" (102mm), and 6" (152mm) heights that can be hand installed at any location along pathway sections. Sidewall waterfalls and intersection bend radius parts shall provide 3" (76mm) bend radius protection. Trapeze, cantilever, and wall mount brackets shall be provided to support the system. Components shall be painted black or electro zinc plated.

technical information

Wire fill table:

<table>
<thead>
<tr>
<th>X (in.)</th>
<th>Y (in.)</th>
<th>Internal Area (in²)</th>
<th>Category 6A Dia. 0.300” 7.6mm</th>
<th>Category 6 Dia. 0.240” 6.1mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.2</td>
<td>2</td>
<td>24.3</td>
<td>172</td>
<td>269</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>48.7</td>
<td>344</td>
<td>538</td>
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<tr>
<td></td>
<td>6</td>
<td>73.0</td>
<td>516</td>
<td>807</td>
</tr>
<tr>
<td>18.2</td>
<td>2</td>
<td>36.3</td>
<td>257</td>
<td>401</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>72.7</td>
<td>514</td>
<td>804</td>
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<tr>
<td></td>
<td>6</td>
<td>109.0</td>
<td>771</td>
<td>1205</td>
</tr>
</tbody>
</table>

Material: Black (BL): Pre-galvanized steel wire and galvanized cold rolled steel prior to paint. Pre-Galvanized (PG): Pre-galvanized steel wire and galvanized cold rolled steel prior to paint. Electro Zinc (EZ): Steel wire and cold rolled steel, electro zinc plated. ABS (Side Waterfall): RoHS Compliant

Approvals: UL Classified for their suitability for use as Equipment Grounding Conductor in accordance with Sections 392.3(C) and 392.7(B) of the NEC. Metal Cable Tray in accordance with CAN/CSA-C22.2 No. 120.1-02, NEMA VE 1-2002 and ANSI/NFPA 70, “National Electric Code” (NEC). Corrosion resistant per ASTM A653/A653M-08 and A641/A641M-09. EN61537:2007 Cable Tray Systems and Cable Ladder Systems for Cable Management. Black: Corrosion resistant per ASTM A653/A653M-08 and A641/A641M-09. Electro Zinc: ASTM B633/ASTM B633M-08 and A641/A641M-09.

CSI spec form: LP-CSISPEC-WG

key features and benefits

Strength to weight ratio: The design of the Wyr-Grid® Pathway Sections provides a greater strength to weight ratio than competitive wire basket; easier handling translates into faster installation.

Grid pattern: The 4" x 5" wire mesh grid pattern allows greater amounts of cables and QuickNet® Cassettes to pass through grid openings without additional cutting, reducing installation time.

No integral sidewalls: Less cutting on straight sections, no cutting at intersections and waterfalls reduces installation time.

Snap-on sidewalls: Sidewalls can be attached where needed to retain cables within the Wyr-Grid® Pathway Sections providing greater configuration versatility.

Bend radius control sidewalls: Protects cables at intersections and can be easily attached without cutting or fabrication.

Bonding splice: A thread cutting screw pierces the paint of adjacent cable tray sections providing a completely bonded connection, ensuring electrical continuity between the sections.

Snap-on waterfalls: Protects cables when transitioning down to equipment and can be easily attached without cutting or fabrication.

applications

The Wyr-Grid® Overhead Cable Tray System is designed to route and manage copper data cables, fiber optic, or power cables within data centers, connected buildings, and industrial automation applications. Innovative features provide quick, safe, and easy assembly for reduced installation costs and faster deployment. Can easily accommodate FiberRunner® Pathways into the application to provide a segregated copper and fiber cabling strategy.

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Wyr-Grid® Pathway Sections

8"W x 120"L: WG8BL10
12"W x 120"L: WG12**10
18"W x 120"L: WG18**10
24"W x 120"L: WG24**10
30"W x 120"L: WG30**10

Splice Connectors

8", 12", and 18" splice: WGGSL1218**
24" and 30" splice: WGGSL2430**
Intersection splice: WGGINTSPL**

Snap-On Sidewalls

2" sidewall: WGSW2**
4" sidewall: WGSW4**
6" sidewall: WGSW6**

Waterfalls

4" side waterfall: WGSWF4BL
Bottom waterfall: WGBTMWF**

Mounting Brackets

12" pathway: WGPB12BL
18" pathway: WGPB18BL
24" pathway: WGPB24BL

Wyr-Grid® to FiberRunner® QuikLock™ Trapeze Brackets

12" pathway: WG12FRTBBL
18" pathway: WG18FRTBBL
24" pathway: WG24FRTBBL
30" pathway: WG30FRTBBL
8" wall bracket: WGWTMB8**
12" wall bracket: WGWTMB12**
18" to 30" wall bracket: WGWTMB1830**
Strut bracket: WGSK**
Vertical mounting bracket: WGVVMBEZ
1200mm D cabinet direct mounting bracket: WGCMB1200BL
1070mm D cabinet direct mounting bracket: WGCMB1070BL
1200mm D cabinet mounting bracket: WGCMP1200BL
1070mm D cabinet mounting bracket: WGCMP1070BL
4 post rack mounting bracket: WGR4PK30

Intersection Bend Radius Control

2" high sidewall: WGiBRC2**
4" high sidewall: WGiBRC4**
6" high sidewall: WGiBRC6**

Tray Liner (Offered in PG only)

8" tray liner: WGT18PG
12" tray liner: WGT12PG
18" tray liner: WGT18PG
24" tray liner: WGT24PG
30" tray liner: WGT30PG

Divider Wall (Offered in PG only)

2" divider wall: WGDW2PG
4" divider wall: WGDW4PG
6" divider wall: WGDW6PG

Accessories

Manual cutting tool: WGCT-M
Hydraulic cutting tool: WGCT-A
Hardware kit: WGRHDKT**
Pathway Sections
- 8" Width: WGSPL1218BL (not shown)
- 12" Width: WGSPL1210
- 18" Width: WGSPL1810
- 24" Width: WGSPL2410
- 30" Wide: WGSPL3010

Snap-On Sidewalls
- 2" Sidewall: WGSW2BL (not shown)
- 4" Sidewall: WGSW4BL
- 6" Sidewall: WGSW6BL

Mounting Brackets
- Trapeze Brackets
  - 8" Wide: WGTBS8BL (not shown)
  - 12" Wide: WGTBS12BL (not shown)
  - 18" Wide: WGTBS18BL
  - 24" Wide: WGTBS24BL
  - 30" Wide: WGTBS30BL

Waterfalls
- 4" Side Waterfall: WGSWF4BL
- Bottom Waterfall: WGBTMWFBL

Intersection Bend Radius Control
- 2" High Sidewall: WGI0RC2BL
- 4" High Sidewall: WGI0RC4BL
- 6" High Sidewall: WGI0RC6BL

Snap-On Sidewalls
- 2" Sidewall: WGSW2BL (not shown)
- 4" Sidewall: WGSW4BL
- 6" Sidewall: WGSW6BL

Cantilever Brackets
- 12" Wide: WGC012BL
- 18" Wide: WGC018BL (not shown)
- 24" Wide: WGC024BL (not shown)

Intersection Bend Radius Control
- 2" High Sidewall: WGI0RC2BL
- 4" High Sidewall: WGI0RC4BL
- 6" High Sidewall: WGI0RC6BL

Wall Mount Termination Brackets
- 8" Wide: WGWM08BL (not shown)
- 12" Wide: WGWM12BL (not shown)
- 18" – 30" Wide: WGWM1830BL

Accessories
- Hardware Kit: WGHRDWKTBL

Splice Connectors
- For 8", 12", and 18" Widths: WGSPL1218BL
- For 24" and 30" Widths: WGSPL2430BL
- Intersection Splice: WGI0INTSPBL

Additional splice connectors are available. Refer to page 1.