FiberRunner® 12x4 Routing System

**Specifications**

The 12x4 routing system shall be a system of channel, fittings, and brackets designed to segregate, route, and protect fiber optic and high performance copper cabling. Channel and fittings shall be assembled using pre-assembled couplers. A selection of spillout options shall be available that easily attach using the vertical tee. Fittings maintain a minimum 2° bend radius to protect against signal loss due to excessive cable bends. Available system colors shall be yellow, orange, and black. A full complement of brackets shall be available for attaching system components to ladder rack, threaded rod, auxiliary framing, strut, equipment racks, cabinets, and raised floor pedestals.

**Technical Information**

Dimensions are in inches

![](image)

<table>
<thead>
<tr>
<th>Open Channel</th>
<th>Cable No. of Cables</th>
<th>Fiber Optic</th>
<th>Ribbon Interconnect Category 6</th>
<th>Category 6A</th>
</tr>
</thead>
<tbody>
<tr>
<td>50% fill capacity</td>
<td>1.6mm 5183</td>
<td>2.0mm 5237</td>
<td>3.0mm 2327</td>
<td></td>
</tr>
<tr>
<td>(4” pile up)</td>
<td>5.20mm 773</td>
<td>6.35mm 519</td>
<td>7.57mm 366</td>
<td></td>
</tr>
</tbody>
</table>

**Material:** Rigid PVC (Channel), ABS (Fittings)

**Approvals:**
- UL Listed to 2024A Optical Fiber Cable Routing Assemblies
- Compliant with the applicable tests in Telcordia GR-63-CORE Network Equipment Building Systems Level 3

**CSI spec form:** LP-CSISPEC-FR

**Key Features and Benefits**

**Fastest installations**
No bolts need to be tightened and no tools are required when installing the QuikLock™ Coupler; QuikLock™ Couplers and Brackets take less than five seconds to mechanically secure connection.

**Easy to maintain**
Hinged channel cover and split fitting covers protect cabling and provide easy access for future cabling moves, adds, and changes.

**System strength**
Robust system of channel, covers, fittings and other non-metallic system components protect cable from physical damage; system includes full range of directional and spillout fittings.

**Versatility**
Multiple spillout options include a spill-over fitting and the vertical tee which accepts a 3-sided trumpet, transition to corrugated tubing and Panduit® FiberRunner® and Fiber-Duct™ Systems.

**Cable protection**
A minimum 2° bend radius maintained throughout all fittings prevents excessive bends in fiber optic cabling.

**Applications**
The FiberRunner® 12x4 Routing System is a system of channel, fittings and brackets designed to segregate, route, and protect fiber optic and high performance copper cabling. It is suited for data center applications where cable is routed from distribution areas to equipment cabinets or racks. It is used in Telco Central Offices to route fiber optic jumper cables between fiber distribution frames and equipment bays. It can be deployed over the racks or in approved under floor applications. Because of its larger capacity, the 12x4 system is used to route higher cable counts. Channel and fittings are assembled using timesaving Panduit® QuikLock™ Couplers. A selection of spillout options is available that easily attach using the vertical tee. Fittings maintain a 2° bend radius to protect against signal loss due to excessive cable bends. Available system colors are yellow, orange, and black to differentiate various types of cabling. A full complement of QuikLock™ Brackets is available to attach system components to support structures found in all applications.

The FiberRunner® 12x4 Routing System is part of the Panduit® complete fiber distribution system, which includes the FiberRunner® 24x4, 6x4, 4x4, and 2x2 Routing Systems, the Fiber-Duct™ 4x4 and 2x2 Routing Systems, Wyr-Grid™ Overhead Cable Tray System, cable management, and racks.

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**Channel and Cover**
- 12x4 channel (6”):
- 12x4 hinged cover (6”):
- Cable retainer:

**Fittings, Split Covers, and Spillouts**
- QuikLock™ Coupler:
- Horizontal right angle:
- Radius control trumpet:
- Horizontal tee:
- Horizontal tee cover:
- Horizontal tee with 6” exits:
- Horizontal 45°:
- Horizontal 45° cover:
- Vertical tee:
- 5/8” C-channel:
- 5/8” C-channel cover:
- 1/2” C-channel:
- 1/2” C-channel cover:
- 3/16” C-channel:
- 3/16” C-channel cover:
- 3/32” C-channel:
- 3/32” C-channel cover:
- 1/8” C-channel:
- 1/8” C-channel cover:
- 3/32” C-channel:
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- 1/8” C-channel cover:
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channel and cover

FR12X4**6  FRHC12**6  FCR12BL-X

fittings, split covers, and spillouts

FRBC12X4**  FRRA12X4**  FRRASC12**  FRT12X4**  FRTSC12**  FRT12X4W6**  FRTSC12W6**  FRH4512X4**

FRH45SC12**  FROVRA12X4**  FROVRASC12**  FRIV4512X4**  FROV4512X4**  FROV45SC12**  FRFWC12X4**  FRFWCSC12**

FRFWC12X4W6**  FRFWCSC12W6**  FREC12X4**  FRRF126**  FRRF126SC**  FRY126**  FRY126SC**  FRRF126R**

FRRF126RSC**  FRRF126L**  FRRF126LSC**  FRADC12X4BL  FRVT12X4**  FRT6X4**  FRIDT6X4**  FRHD4KT**

TRC4HDBL  FRLPR64BL  FRSPJ2X2**  FRSPJC212**  FTR2X2**  FIDT2X2**  FRHD2KT**  TRC2HDBL

FRSPJ4X4**  FRSPJC412**  FRTR4X4**  FRIDT4X4**  FR1.5IDE**  FRTR12X4**

QuikLock™ Mounting Brackets


FRAFC58  FR4PRB58

**Substitute: YL = Yellow, OR = Orange, BL = Black