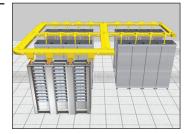
FiberRunner® 12x4 Routing System

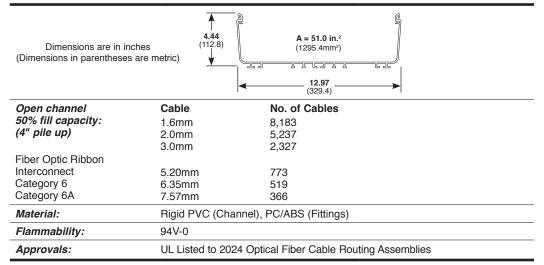


specifications

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 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



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 make a mechanically secure connection
Easy to maintain	Hinged channel cover and split fitting covers protect cabling and provide fast and 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 three-sided trumpet, transition to corrugated tubing and Panduit® FiberRunner® 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 underfloor 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 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, Wyr-Grid™ Overhead Cable Tray System, cable management, and racks.

Channel and Cove

12x4 channel (6'): FR12X4**6 12x4 hinged cover (6'): FRHC12**6 Cable retainer: FRCR12LBL-X

FRRA12X4L**

FRRASC12L**

FRT12X4W6L** FRTSC12W6L**

FRH4512X4L**

FRH45SC12L**

FROVRA12X4L**

FROVRASC12L**

FRIV4512X4L**

FROV4512X4**

FROV45SC12L**

FRFWC12X4L**

FRFWCSC12L**

FRFC12X4I **

FRRF126LS**

FRY126L**

FRRF126SCL**

FRRF126RL**

FRRF126LL**

FRRF126LSCL**

FRADC12X4BL

FRVT12X4L**

FRTR6X4L**

FRIDT6X4L**

FRHD4KTL**

FRLPR64LBL

FRSPJ2X2L**

FRSPJC212L**

FTR2X2L**

FIDT2X2L**

FRHD2KTL**

TRC2HDLBL

FRSPJ4X4L**

FRSPJC412L**

FRTR4X4L**

FRIDT4X4L**

FR1 5IDFI **

FR12USB

FR12ALB

FR12CS12

FR12CS58

FR12ACR12

FR12ACR58

FR12TR12

FR12TB58

F2PCI B12

F2PCLB58

FR12ACAB

FRAFC58

FRFWC12X4W6L**

FRFWCSC12W6L**

FRT12X4L** FRTSC12L**

Fittings, Split Covers. FRBC12X4L³

QuikLock™ Coupler: Horizontal right angle: Right angle cover: Horizontal tee: Horizontal tee cover: Horizontal tee with 6"exits: Tee with 6" exits cover: Horizontal 45° Horizontal 45° cover: Outside vertical 90°: Outside vertical 90° cover: Inside vertical 45°: Outside vertical 45°: Outside vertical 45° cover: 4-way cross: 4-way cross cover: 4-way cross with 6" exits: 4-way cross with 6" exits cover: End cap: 12" to 6" reducer: 12" to 6" reducer cover: Y-reducer from 12" to two 6": Y-reducer from 12" to two 6" cover: FRY126SCL** 12" to 6" reducer right fitting: 12" to 6" reducer right fitting cover: FRRF126RSCL** 12" to 6" reducer left fitting: 12" to 6" reducer left fitting cover: Adapter to CommScope 12x4 FiberGuide*: QuikLock™ Vertical Tee: Three-sided BRC trumpet spillout for 6x4 exit: Corrugated tubing spillout: 4x4 hinged duct vertical cable manager kit: Low profile reducer 6x4 to 4x4 for vertical tee. Spill-over with 2x2 exit: Spill-over cover with 2x2 exit for 12x4 system: 2x2 three-sided trumpet: 1-port spillout to 1.5" I.D. corrugated tubing: 2x2 hinged duct vertical

FRTR12X4L** Three-sided BRC trumpet for QuikLock™ Mounting Brackets QL existing 5/8" thr rod bracket: FR12TRRF58 QL new 5/8" thr rod bracket: FR12TRBN58

QL underfloor bracket: QL adjust ladder rack bracket: QL center support bracket 1/2": QL center support bracket 5/8": QL adjust C-bracket 1/2": QL adjust C-bracket 5/8": QL trapeze 1/2" bracket:

QL trapeze 5/8" bracket: Two-piece ladder rack bracket 1/2" thr rod:

cable manager kit: 2x2 FiberRunner® Bend Radius Control Trumpet:

Spill-over with 4x4 exit:

4x4 three-sided trumpet:

2-port spillout to 1.5" I.D. corrugated tubing:

1-port spillout to 1.5" I.D. corrugated tubing

Spill-over cover with 4x4 exit for 12x4 system:

Two-piece ladder rack bracket 5/8" thr rod: QL adjustable cabinet bracket:

Two-piece framing clip 5/8" thr rod to 9/16" C-channel aux. framing bars:

4 post rack bracket: FR4PRB58 12x4 FiberGuide Management System is a product

**Substitute: YL= Yellow, BL= Black

FiberRunner® 12x4 Routing System

channel and cover







FR12X4**6

FRHC12**6

FRCR12LBL-X

fittings, split covers, and spillouts

















FRBC12X4L**

FRRA12X4L**

FRRASC12L**

FRT12X4L**

FRTSC12L**

FRT12X4W6L** FRTSC12W6L**

FRH4512X4L**

















FROVRA12X4L** FROVRASC12L**

FRIV4512X4L**

FROV4512X4L**

FROV45SC12L**

FRFWC12X4L**

FRFWCSC12L**

















FRFWC12X4W6L** FRFWCSC12W6L**

FREC12X4L**















FRRF126RSCL**

FRRF126LL**

FRRF126LSCL** FRADC12X4BL

FRVT12X4L**



FRIDT6X4L**





FRLPR64LBL

FRSPJ2X2L**

FIDT2X2L** FTR2X2L**



FRHD2KTL**

TRC2HDLBL

FRSPJ4X4L**





FRTR4X4L**



FRSPJC212L**

FRIDT4X4L**



FR1.5IDEL**

FRTR12X4L**

QuikLock™ **Mounting Brackets**





FR12TRBN58



FR12USB



FR12ALB



FR12CS12 FR12CS58



FR12ACB12 FR12ACB58



FR12TB12 **FR12TB58**



F2PCLB58

F2PCLB12 FR12ACAB



FRAFC58

**Substitute: YL = Yellow, BL = Black



FR4PRB58

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