FiberRunner® 12x4 Routing System

SPECIFICATION SHEET

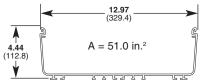
specifications

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 (Dimensions in parentheses are metric).



Open channel	Cable	No. of Cables
50% fill capacity:	1.6mm	8183
(4" pile up)	2.0mm	5237
	3.0mm	2327
Fiber Optic		
Ribbon Interconnect	5.20mm	773
Category 6	6.35mm	519
Category 6A	7.57mm	366
Material:	Rigid PVC (Channel), ABS (Fittings)	
Flammability:	94V-0	
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 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 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.

Channel and Cover

12x4 channel (6'): 12x4 hinged cover (6'): Cable retainer: FRHC12**6 FRCR12BL-X

Fittings, Split Covers, and Spillouts

QuikLock™ Coupler: Horizontal right angle: Horizontal right angle:
Right angle cover:
Horizontal tee:
Horizontal tee with 6" exits:
Tee with 6" exits cover:
Horizontal 45°:
Horizontal 45°:
Cuteido 45° cover:
Uteido vertical 90° 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: 12" to 6" reducer right fitting: 12" to 6" reducer right fitting cover: 12" to 6" reducer left fitting: 12" to 6" reducer left fitting cover: Adapter to ADC 12x4 FiberGuide*: QuikLock™ Vertical Tee: 3-sided BRC trumpet Spillout for 6x4 exit:
Corrugated tubing spillout:
4x4 hinged duct vertical
cable manager kit:
4x4 hinged duct bend
radius control trumpet: Low profile reducer 6x4 to 4x4 for vertical tee: Spill-over with 2x2 exit: Spill-over cover with 2x2 exit for 12x4 system: 2x2 3-sided trumpet: 1-port spillout to 1.5" I.D. corrugated tubing: 2x2 hinged duct vertical cable manager kit: 2x2 FiberRunner® Bend Radius Control Trumpet: Spill-over with 4x4 exit: Spill-over cover with 4x4 exit for 12x4 system: 4x4 3-sided trump ***4 o-sided trumpet: 2-port spillout to 1.5" I.D. corrugated tubing: 1-port spillout to 1.5" I.D. corrugated tubing: 3-sided BRC trumpet for 12x4 exit:

FRRASC12** FRT12X4* FRT12X4W6** FRTSC12W6** FRH4512X4** FRH45SC12** FROVRA12X4** FROVRASC12** FRIV4512X4** FROV4512X4** FROV45SC12** FRFWC12X4** FRFWC12X4W6* FRFWCSC12W6** FREC12X4** FRRF126** FRRF126SC** FRY126** FRY126SC** FRRF126R**

FRRF126RSC** FRRF126L** FRRF126LSC**

FRADC12X4BL FRVT12X4** FRTR6X4** FRIDT6X4**

FRHD4KT** TRC4HDBL

FRLPR64BL FRSPJ2X2**

FRSPJC212** FTR2X2**

FIDT2X2** FRHD2KT*

TRC2HDBL FRSPJ4X4**

FRSPJC412** FRTR4X4*

FRIDT4X4**

FR1.5IDE**

FRTR12X4**

FR4PRB58

QuikLock™ Mounting Brackets QL existing 5/8" thr rod brkt: QL new 5/8" thr rod brkt: QL under floor brkt: FR12TRBE58 FR12TRBN58 FR12USB QL adjust ladder rack brkt: QL center support brkt 1/2": FR12ALB FR12CS12 QL center support brkt 5/8": QL adjust C-brkt 1/2": FR12CS58 FR12ACB12 QL adjust C-brkt 5/8": QL trapeze 1/2" brkt: QL trapeze 5/8" brkt: FR12ACB58 FR12TB12 FR12TB58 Two-piece ladder rack brkt 1/2" thr rod: F2PCLB12 Two-piece ladder rack brkt 5/8" thr rod:
QL adjustable cabinet brkt: F2PCLB58 FR12ACAB Two-piece framing clip 5/8" thr rod to 9/16" C-channel aux. framing bars:

*ADC's 12x4 FiberGuide Management System is a product of ADC Telecommunications. Inc *Substitute: YL = Yellow, OR = Orange, BL = Black

4 post rack brkt:

FiberRunner® 12x4 Routing System

Channel and Cover







FR12X4**6

FRHC12**6

FRCR12BL-X

Fittings, Split Covers and Spillouts

















FRBC12X4**

FRRA12X4**

FRRASC12**

FRT12X4**

FRTSC12**

FRT12X4W6**

FRTSC12W6**

FRH4512X4**

















FRH45SC12** FROVRA12X4** FROVRASC12**

FRIV4512X4**

FROV4512X4** FROV45SC12**

FRFWC12X4**

















FRFWC12X4W6** FRFWCSC12W6**

















FRRF126R**

FRRF126RSC**

FRRF126L**

FRRF126LSC**

FRADC12X4BL

FRVT12X4**

FRTR6X4**



FRHD4KT**





FRLPR64BL











TRC2HDBL



FRSPJ4X4**





FRTR4X4**







QuikLock™ Mounting Brackets



















FR12TRBN58





FR12ACB12 FR12ACB58

FR12TB12 **FR12TB58**

F2PCLB12 F2PCLB58

FR12ACAB



FR4PRB58

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

WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT CANADA Markham, Ontario cs-cdn@panduit.com Phone: 800.777.3300

PANDUIT EUROPE LTD. London, UK cs-emea@panduit.com Phone: 44.20.8601.7200 PANDUIT SINGAPORE PTE. LTD. Republic of Singapore cs-ap@panduit.com Phone: 65.6305.7575

PANDUIT JAPAN Tokyo, Japan cs-japan@panduit.com Phone: 81.3.6863.6000 PANDUIT LATIN AMERICA Jalisco, Mexico cs-la@nanduit.com Phone: 52.33.3777.6000

PANDUIT AUSTRALIA PTY. LTD. Victoria, Australia cs-aus@panduit.com Phone: 61.3.9794.9020

For a copy of Panduit product warranties, log on to www.panduit.com/warranty

For more information

Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com or by phone: 800-777-3300 and reference FRSP04

