FiberRunner[®] 4x4 Routing System

SPECIFICATION

specifications

The 4x4 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 installs easily and fully encloses the channel for cable protection; split hinged channel cover creates radiused 3/4" (19mm) opening for easy access to add or remove cables; the 4x4 hinged and split hinged channel covers will stay open between 30° and 90° to allow cable access even in height restricted areas
	Split fitting covers allow cable to be laid in without removing the fitting cover; the covers are also designed to prevent cables from coming out of the channel as cable is pulled through
	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[®] 4x4 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. 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® 4x4 Routing System is part of the Panduit® complete fiber distribution system, which includes the FiberRunner® 24x4, 12x4, 6x4, and 2x2 Routing Systems, Wyr-Grid[™] Overhead Cable Tray System, cable management, and racks.

Channel and Cover		
4x4 channel (6'):	FR4X4**6	
4x4 hinged cover (6'):	FRHC4**6	
4x4 split hinged cover (6'):	FRSHC4**6	
Cable retainer: Fittings, Split Covers, and Spi	FRCR4LBL-X	
QuikLock [™] Coupler:	FRBC4X4L**	
Horizontal right angle:	FRRA4X4L**	
Right angle cover:	FRRASC4L**	
Horizontal tee: Horizontal tee cover:	FRT4X4L** FRTSC4L**	
Horizontal tee with 6"exits:	FRT4X4W6L**	
Tee with 6" exits cover:	FRTSC4W6L**	
Inside vertical 45°:	FRIV454X4L**	
Outside vertical 45°:	FROV454X4L**	
Outside vertical 45° cover: Horizontal 45°:	FROV45SC4L** FRH454X4L**	
Horizontal 45° cover:	FRH45SC4L**	
Inside vertical 90°:	FRIVRA4X4L**	
Outside vertical 90°:	FROVRA4X4L**	
Outside vertical 90° cover:	FROVRASC4L**	
4-way cross: 4-way cross cover:	FRFWC4X4L** FRFWCSC4L**	
End cap:	FREC4X4L**	
6x4 to 4x4 FiberRunner®		
Reducer Fitting: 6x4 to 4x4 FiberRunner®	FRRF6FR4L**	
Reducer Fitting Cover:	FRRF6FR4SCL**	
4" FiberRunner® to 2" FiberDuct®:	FRRF4FD2L**	
4"FiberRunner [®] to 4"	FNNF4FD2L	
FiberDuct [®] :	FRRF4FD4L**	
Adapter to 4x4 FiberGuide*:	FRADC4X4BL	
Adapter to CommScope 12x4 FiberGuide*:	FRADC12X4BL	
QuikLock [™] Vertical Tee:	FRVT12X4L**	
Three-sided vertical tee trumpet spillout:	FTR4X4L**	
Corrugated tubing spillout:	FRIDT6X4L**	
Low profile reducer 4x4 to 2x2 for vertical tee:		
	FRLPR64LBL FRSPJ2X2L**	
Spill-over with 2x2 exit: Spill-over cover with 2x2	FNGFJZAZL	
exit for 12x4 system:	FRSPJC212L**	
2x2 exit for 4x4 system:	FRSPJC24L**	
2x2 three-sided trumpet: 2x2 hinged duct vertical	FTR2X2L**	
cable manager kit:	FRHD2KTL**	
2x2 FiberRunner [®] Bend Radius Control Trumpet:	TRC2HDLBL	
Spill-over with 4x4 exit:	FRSPJ4X4L**	
Spill-over cover with 4x4 exit	FRSPJC412L**	
for 4x4 system: 4x4 three-sided trumpet:	FRTR4X4L**	
4x4 hinged duct vertical		
cable manager kit: 1-port spillout to 1 5" I D	FRHD4KTL**	
corrugated tubing:	FR1.5IDEL**	
2-port spillout to 1.5" I.D. corrugated tubing:	FRIDT4X4L**	
4x4 up spout:	FRUPS4X4**	
QuikLock [™] Mounting Brackets		
QL existing 1/2" thr rod bracket:	FR6TRBE12	
QL existing 5/8" thr rod bracket: QL new 1/2" thr rod bracket:	FR6TRBE58 FR6TRBN12	
QL new 5/8" thr rod bracket:	FR6TRBN58	
QL underfloor bracket:	FR6USB	
QL adjust ladder rack bracket:	FR6ALB	
QL center support bracket 1/2":	FR6CS12	
QL center support bracket 5/8": QL adjust C-bracket 1/2":	FR6CS58 FR6ACB12	
QL adjust C-bracket 5/8":	FR6ACB58	
QL trapeze 3/8" bracket:	FR6TB38	
QL trapeze 1/2" bracket:	FR6TB12	
Two-piece ladder rack bracket 1/2" thr rod:	F2PCLB12	
Two-piece ladder rack bracket 5/8" thr rod:		
QL "L" wall mount bracket:	F2PCLB58 FR6LB	
QL NetFrame [™] Rack Mount		
Bracket:	FRRMBNF58	
QL adjustable cabinet mount bracket:	FR6ACAB	
Two-piece framing clip 5/8" thr		

*CommScope's 4x4 FiberGuide Management System is a product of CommScope

**Substitute: YL= Yellow, BL= Black

www.panduit.com

FiberRunner® 4x4 Routing System



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

Tokyo, Japan

Phone: 81.3.6863.6000

Guadalajara, Mexico

Phone: 52.33.3777.6000

Republic of Singapore

Phone: 65.6305.7575



Phone: 800.777.3300

London, UK

Phone: 44.20.8601.7200

For more information Visit us at www.panduit.com Contact Customer Service by email: cs@panduit.com or by phone: 800.777.3300

© 2020 Panduit Corp. ALL RIGHTS RESERVED. FRSP27--WW-ENG 10/2020

Victoria, Australia

Phone: 61.3.9794.9020