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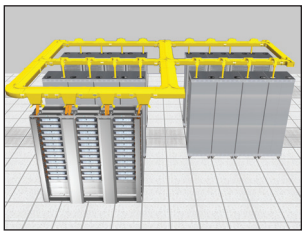
FiberRunner® 6x4 Routing System

PANDUIT®

SPECIFICATION SHEET

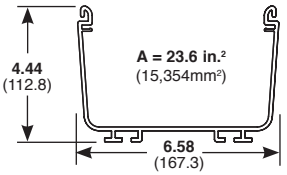
specifications

The 6x4 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

Dimensions are in inches
(Dimensions in parentheses are metric)



Open channel 50% fill capacity: (4" pile up)	**Cable**	**No. of Cables**
	1.6mm	3,819
	2.0mm	2,444
	3.0mm	1,086
Fiber Optic Ribbon Interconnect Category 6 Category 6A	5.20mm	361
	6.35mm	242
	7.57mm	171
Material:	PVC (Channel), PC/ABS (Fittings)	
Flammability:	94V-0	
Approvals:	UL Listed to 2024 Optical Fiber Cable Routing Assemblies	
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 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 6x4 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
System strength	Hinged channel covers and split fitting covers protect cabling and provide fast and easy access for future cabling moves, adds, and changes 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 spill-over fittings and the vertical tee which accepts a three-sided trumpet, transition to corrugated tubing and Panduit® FiberRunner™ System
Cable protection	A minimum 2" bend radius maintained throughout all fittings prevents excessive bends in fiber optic cabling

applications

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

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Channel and Cover	
6x4 channel (6'):	FR6X4**6
6x4 hinged cover (6'):	FRHC6**6
6x4 split hinged cover (6'):	FRSHC6**6
Cable retainer:	FRCR6LBL-X
Fittings, Split Covers, and Spillouts	
QuikLock™ Coupler:	FRBC6X4L**
Horizontal right angle:	FRRA6X4L**
Horizontal right angle cover:	FRRASC6L**
Horizontal 45°:	FRH456X4L**
Horizontal 45° cover:	FRH45SC6L**
Horizontal tee:	FRT6X4L**
Horizontal tee cover:	FRTSC6L**
4-way cross:	FRFWC6X4L**
4-way cross cover:	FRFWCSC6L**
End cap:	FREC6X4L**
Inside vertical 90°	FRIVRA6X4L**
Inside vertical 45°:	FRIV456X4L**
Outside vertical 45°:	FROV456X4L**
Outside vertical 45° cover:	FROV45SC6**
Outside vertical 90°:	FROVRA6X4L**
Outside vertical 90° cover:	FROVRASC6L**
6x4 to 4x4 FiberRunner® Reducer Fitting:	FRRF6FR4L**
6x4 to 4x4 FiberRunner® Reducer Fitting Cover:	FRRF6FR4SCL**
6x4 FiberRunner® System to 4x4 Fiber-Duct™ Reducer Fitting:	FRRF64**
Adapter to CommScope 6x4 FiberGuide[1]:	FRADC6X4L**
Adapter to Tyton 8x4 Lightguide[2]:	FRTYT68
Adapter to Warren & Brown 8x4 Lightpaths[3]:	FRWBS68
QuikLock™ Vertical Tee:	FRVT6X4L**
Three-sided vertical tee trumpet spillout:	FTR4X4L**
2-port spillout to 1.5" I.D. corrugated tubing:	FIDT4X4LBL
4x4 hinged duct vertical cable manager kit:	FRHD4KT**
Bend radius control trumpet:	TRC4HDBL
Low profile reducer 4x4 to 2x2 for vertical tee:	FRLPR42LBL
Spill-over with 2x2 exit:	FRSPJ2X2L**
Spill-over cover with 2x2 exit for 6x4 system:	FRSPJC26L**
2x2 three-sided trumpet:	FTR2X2L**
1-port spillout to 1.5" I.D. corrugated tubing:	FIDT2X2L**
2x2 hinged duct vertical cable manager kit:	FRHD2KT**
2x2 FiberRunner® Bend Radius Control Trumpet:	TRC2HDLBL
Spill-over with 4x4 exit:	FRSPJ4X4L**
Spill-over cover with 4x4 exit for 6x4 system:	FRSPJC46L**
Dual downspout:	FRDDS6X4L**
Dual downspout cover:	FRDDSHC6L**
4x4 three-sided trumpet:	FRTR4X4L**
2-port spillout to 1.5" I.D. corrugated tubing:	FRIDT4X4L**
Three-sided BRC trumpet spillout for 6x4 exit:	FRTR6X4L**
6x4 up spout:	FRUPS6X4L**
Innerduct transition fitting:	FITF6X4
Corrugated tubing spillout:	FRIDT6X4L**
QuikLock™ Mounting Brackets	
QL existing 1/2" thr rod bracket:	FR6TRBE12
QL existing 5/8" thr rod bracket:	FR6TRBE58
QL new 1/2" thr rod bracket:	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":	FR6CS58
QL adjust C-bracket 1/2":	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:	F2PCLB58
QL ladder rack bracket:	FR6LRB
QL "L" wall mount bracket:	FR6LB
QL NetFrame™ Rack Mount Bracket:	FRRMBNF58
QL adjust cabinet mount bracket:	FR6ACAB
Two-piece framing clip 5/8" thr rod to 9/16" C-channel aux. framing bars:	FRAFC58
4 post rack bracket:	FR4PRB58

[1] FiberGuide is a registered trademark of CommScope Telecommunications, Inc.

[2] Lightguide Fiber Optic Protection System is a product of the Hellerman Tyton Corporation

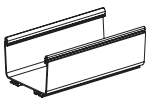
[3] Lightpaths is a trademark of Warren & Brown Technologies Pty Ltd.

** Substitute: YL= Yellow, BL= Black

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FiberRunner® 6x4 Routing System

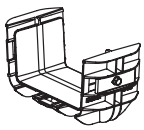
channel and cover

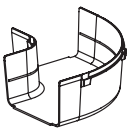

FR6X4**6

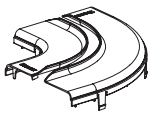

FRHC6**6

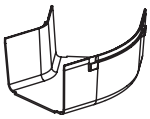

FRSHC6**6

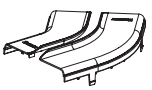
fittings, split covers, and spillouts

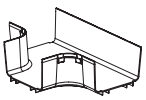

FRBC6X4L**


FRRA6X4L**

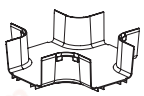

FRRASC6L**


FRH456X4L**


FRH45SC6L**

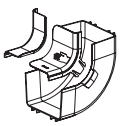

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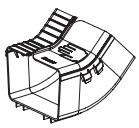

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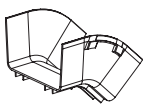

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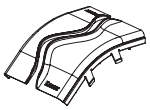

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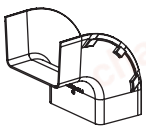

FREC6X4L**


FRIVRA6X4L**

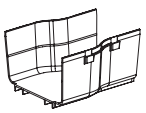

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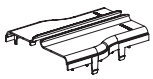

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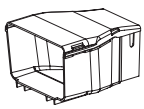

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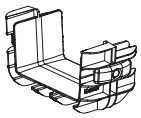

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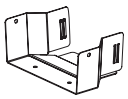

FROVRASC6L**


FRRF6FR4L**

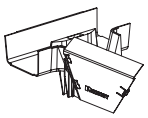

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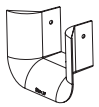

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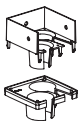

FRADC6X4L**


FRTYT68


FRWBS68

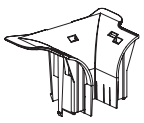

FRVT6x4L

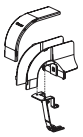

FTR4X4L**


FIDT4X4LBL


FRHD4KT**

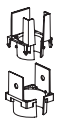

TRC4HDLBL


FRLPR42LBL

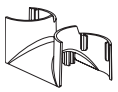

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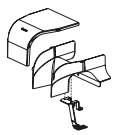

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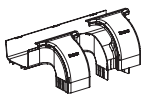

FIDT2X2L**


FRHD2KT**


TRC2HDLBL


FRSPJ4X4L**


FRSPJC46L**


FRDDS6X4L**

FRDDSHC6L**

FRTR4X4L**

FRIDT4X4L**

FR1.5IDEL**

FRTR6X4L**

FRUPS6X4L**

FITF6X4

FRIDT6X4**

QuikLock™ Mounting Brackets

FR6TRBE12
FR6TRBE58

FR6TRBN12
FR6TRBN58

FR6USB

FR6ALB

FR6CS12
FR6CS58

FR6ACB12
FR6ACB58

FR6TB38
FR6TB12

F2PCLB12
F2PCLB58

FR6LRB

FR6LB

FRRMBNF58

FR6ACAB

FRAFC58

FR4PRB58

**Substitute: YL = Yellow, B= Black

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