

FiberRunner® 24x4 Routing System

SPECIFICATIONS

The 24x4 routing system shall be a system of channel, fittings, covers, and brackets designed to segregate, route, and protect fiber optic and high performance copper cabling. Channel and fittings shall be installed using pre-assembled couplers. Fittings maintain a minimum 3" bend radius to protect against signal loss due to excessive cable bends. Available system colors shall be yellow and black. Brackets shall be available for attaching system components to 1/2" threaded rod.



TECHNICAL INFORMATION

Attributes:	Cable In. (mm)	No. of Cables
Open channel 50% fill capacity: (4" pile up)	0.06 (1.6)	15,820
	0.07 (2.0)	10,124
	0.11 (3.0)	4,500
Fiber optic ribbon interconnect:	0.20 (5.2)	1,494
Category 6:	0.25 (6.4)	1,004
Category 6A:	0.30 (7.7)	707
Material:	Rigid PVC (Channel) PC/ABS (Fittings)	
Flammability:	94V-0	
Approvals:	UL Listed to 2024 Optical Fiber Cable Routing Assemblies (Does not include 24x4 covers) RoHS	
CSI Spec Form:	LP-CSISPEC-FR	

KEY FEATURES AND BENEFITS

Rigid one-piece construction:	Molded and extruded solid components increase the strength and integrity of the system; reduces cost of ownership and enhances network reliability
Channel length:	Solid one-piece channel is provided in 10' lengths, reducing the use of couplers and simplifying installation
Channel covers:	Snap-on channel cover is provided in four 30" lengths (totaling 10') to facilitate rapid cover installation and ease of handling
QuikLock™ Couplers and Brackets:	No bolts need to be tightened and no tools are required when installing the QuikLock™ Couplers; ready to use right from the package; speeds installation and reduces cost
Wide selection of directional fittings and spillouts:	Offers multiple configuration options; provides design flexibility and scalability to meet wide range of applications
Fitting covers:	Channel and fitting covers protect cabling and provide fast and easy access for future cabling moves, adds, and changes
Cable protection:	A minimum 3" bend radius maintained throughout all fittings prevents excessive bends in fiber optic cabling

Channel and Cover

24x4 channel (10'):	FR24X4**10
24x4 snap-on cover (10'):	FRCV24**10

Fittings, Covers, and Spillouts

QuikLock™ Coupler:	FRBC24X4L**
In-line cable organizer:	FRCP24BL
Horizontal tee with 12" exits:	FRT24X4W12L**
Horizontal tee with 12" exits cover:	FRTC24W12L**
Horizontal tee with 24" exits:	FRT24X4L**
Horizontal 45°:	FRH4524X4L**
Horizontal 45° cover:	FRH45CV24L**
Inside vertical 45°:	FRIV4524X4L**
Outside vertical 45°:	FROV4524X4L**
Outside vertical 45° cover:	FROV45CV24L**
4-way cross:	FRFWC24X4L**
4-way cross cover:	FRFWCCV24L**
4-way cross with 12" exits:	FRFWC24X4W12L**
4-way cross with 12" exits cover:	FRFWCCV24W12L**
End cap:	FREC24X4L**
24" to 12" reducer:	FRRF2412L**
24" to 12" reducer cover:	FRRF2412CVL**
Spill-over with 12x4 exit:	FRSPJ12X4L**
Spill-over with 4x4 exit:	FRSPJ4X4L**
Spill-over with 2x2 exit:	FRSPJ2X2L**
Side downspout with 12" exit:	FRSDS24X4W12L**
Side downspout with 24" exit:	FRSDS24X4L**
Three-sided BRC trumpet for 24x4 exit:	FRTR24X4L**

Mounting Brackets

Trapeze bracket for new ½" threaded rod:	FR24TBN12
Trapeze bracket for existing ½" threaded rod:	FR24TBE12
Strut clip kit:	FRSTRCBL
Two-piece ladder rack bracket for ½" threaded rod:	F2PCLB12

**Substitute YL= Yellow, BL= Black

FiberRunner® 24x4 Routing System

APPLICATIONS

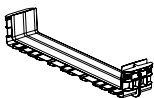
The FiberRunner® 24x4 Routing System is a system of channel, fittings, covers, and brackets designed to route, manage, and protect fiber optic and high performance copper cabling above network racks and cabinets within data centers and service provider facilities. Because of its larger capacity, the 24x4 system is used to route higher cable counts. Channel and fittings are assembled using timesaving Panduit® QuikLock™ Couplers. Fittings maintain a 3" 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. The FiberRunner® 24x4 Routing System is part of the Panduit® complete fiber distribution system, which includes the FiberRunner® 12x4, 6x4, 4x4, and 2x2 Routing Systems, Wire Basket Overhead Cable Tray Routing System and cable management products and racks.

CHANNEL AND COVER

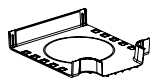


FR24X4**10 FRCV24**10

FITTINGS, SPLIT COVERS, AND SPILLOUTS



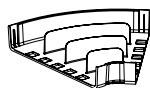
FRBC24X4L**



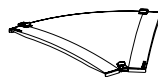
FRT24X4W12L**



FRTC24W12L**



FRH4524X4L**



FRH45CV24L**



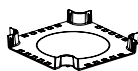
FRIV4524X4L**



FROV4524X4L**



FROV45CV24L**



FRFWC24X4L**



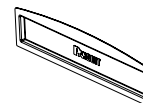
FRFWCCV24L**



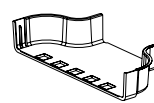
FRFWC24X4W12L**



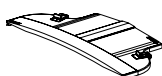
FRFWCCV24W12L**



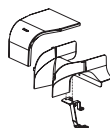
FREC24X4L**



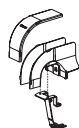
FRRF2412L**



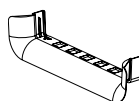
FRRF2412CVL**



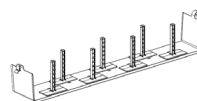
FRSPJ4X4L**
(2" bend radius)



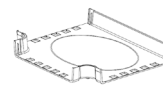
FRSPJ2X2L**
(2" bend radius)



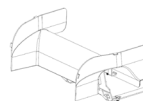
FRTR24X4L**



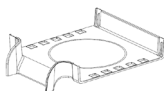
FRCOP24**



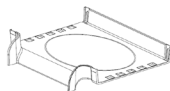
FRT24X4L**



FRSPJ12X4L**

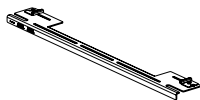


FRSDS24X4W12L**

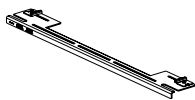


FRSDS24X4L**

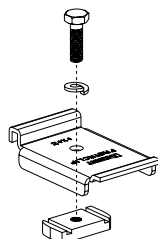
MOUNTING BRACKETS



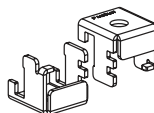
FR24TBN12



FR24TBE12



FRSTRCBL

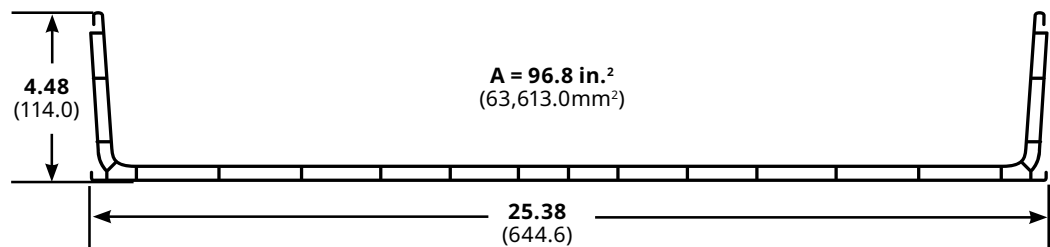


F2PCLB12

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ENGINEERING DRAWINGS



Dimensions are in inches. [Dimensions in brackets are metric].