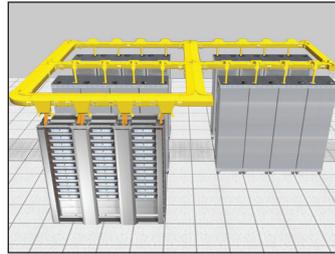


FiberRunner™ 4x4 LSZH Routing System

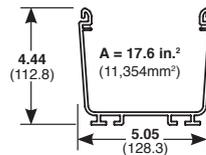
specifications

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 colours 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 and raised floor pedestals.



technical information

Dimensions are in inches
(Dimensions in parentheses are metric)



Open channel	Cable	No. of Cables
50% fill capacity: (4" pile up)	1.6mm	2824
	2.0mm	1807
	3.0mm	803
Fiber Optic Ribbon		
Interconnect	5.20mm	267
Category 6	6.35mm	179
Category 6A	7.57mm	126

Material:	LSZH PC(Channel), LSZH PC/ABS (Fittings)	
Flammability:	94V-0	
Approvals:	UL Listed to 2024 Optical Fiber Cable Routing Assemblies	

CSI Spec Form:	LP-CSISPEC-FR
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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 spill-over fittings and the vertical tee which accepts a 3-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 colours 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"):	FR4X4L**2
4x4 hinged cover (6"):	FRHC4L**2
4x4 split hinged cover (6"):	FRSHC4L**2
Cable retainer:	FRCR4LBL-X

Fittings, Split Covers, and Spillouts

QuikLock™ Coupler:	FRBC4X4L**
Horizontal right angle:	FRRA4X4L**
Right angle cover:	FRRASC4L**
Horizontal tee:	FRT4X4L**
Horizontal tee cover:	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:	FROV45SC4L**
Horizontal 45°:	FRH454X4L**
Horizontal 45° cover:	FRH45SC4L**
Inside vertical 90°:	FRIVRA4X4L**
Outside vertical 90°:	FROVRA4X4L**
Outside vertical 90° cover:	FROVRASC4L**
4-way cross:	FRFWC4X4L**
4-way cross cover:	FRFWCSC4L**
End cap:	FREC4X4L**
6x4 to 4x4 FiberRunner™ Reducer Fitting:	FRRF6FR4L**
6x4 to 4x4 FiberRunner™ Reducer Fitting Cover:	FRRF6FR4SC**
4" FR to 2" FD:	FRRF4FD2**
4" FR to 4" FD:	FRRF4FD4**
Adapter to 4x4 FiberGuide*:	FRADC4X4BL
Adapter to CommScope® 12x4 FiberGuide*:	FRADC12X4BL
QuikLock™ Vertical Tee:	FRVT12X4L**
3-sided vertical tee trumpet spillout:	FTR4X4L**
Corrugated tubing spillout:	FRIDT6X4L**
Low profile reducer 4x4 to 2x2 for vertical tee:	FRLPR42LBL
Spill-over with 2x2 exit:	FRSPJ2X2L**
Spill-over cover with 2x2 exit for 12x4 system:	FRSPJC212L**
2x2 exit for 4x4 system:	FRSPJC24L**
2x2 3-sided trumpet:	FTR2X2L**
2x2 hinged duct vertical cable manager kit:	FRHD2KTL**
2x2 FiberRunner™ Bend Radius Control Trumpet:	TRC2HDLBL
Spill-over with 4x4 exit:	FRSPJ4X4L**
Spill-over cover with 4x4 exit for 4x4 system:	FRSPJC44L**
4x4 3-sided trumpet:	FRTR4X4L**
4x4 hinged duct vertical cable manager kit:	FRHD4KT**
1-port spillout to 1.5" I.D. corrugated tubing:	FR1.5IDEL**
2-port spillout to 1.5" I.D. corrugated tubing:	FRIDT4X4L**
4x4 up spout:	FRUPS4X4**

QuikLock™ Mounting Brackets

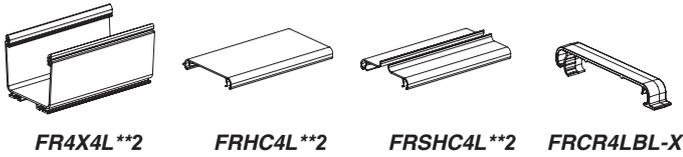
QL existing 1/2" thr rod bracket:	FR6TRBE12
QL existing 5/8" thr rod bracket:	FR6TRBE58
QL New 1/2" thr rod bracket:	FR6TRBN12
QL New 5/8" thr rod bracket:	FR6TRBN58
QL underfloor bracket:	FR6USB
QL adjust ladder rack bracket:	FR6ALB
QL center support bracket 1/2":	FR6CS12
QL center support bracket 5/8":	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 "L" wall mount bracket:	FR6LB
QL NetFrame™ Rack Mount Bracket:	FRRMBNF58
QL adjustable cabinet mount bracket:	FR6ACAB
Two-piece framing clip 5/8" thr rod to 9/16" C-channel aux. framing bars:	FRFC58
4 post rack bracket:	FR4PRB58

*CommScope's 4x4 FiberGuide Management System is a product of CommScope® Telecommunications, Inc.

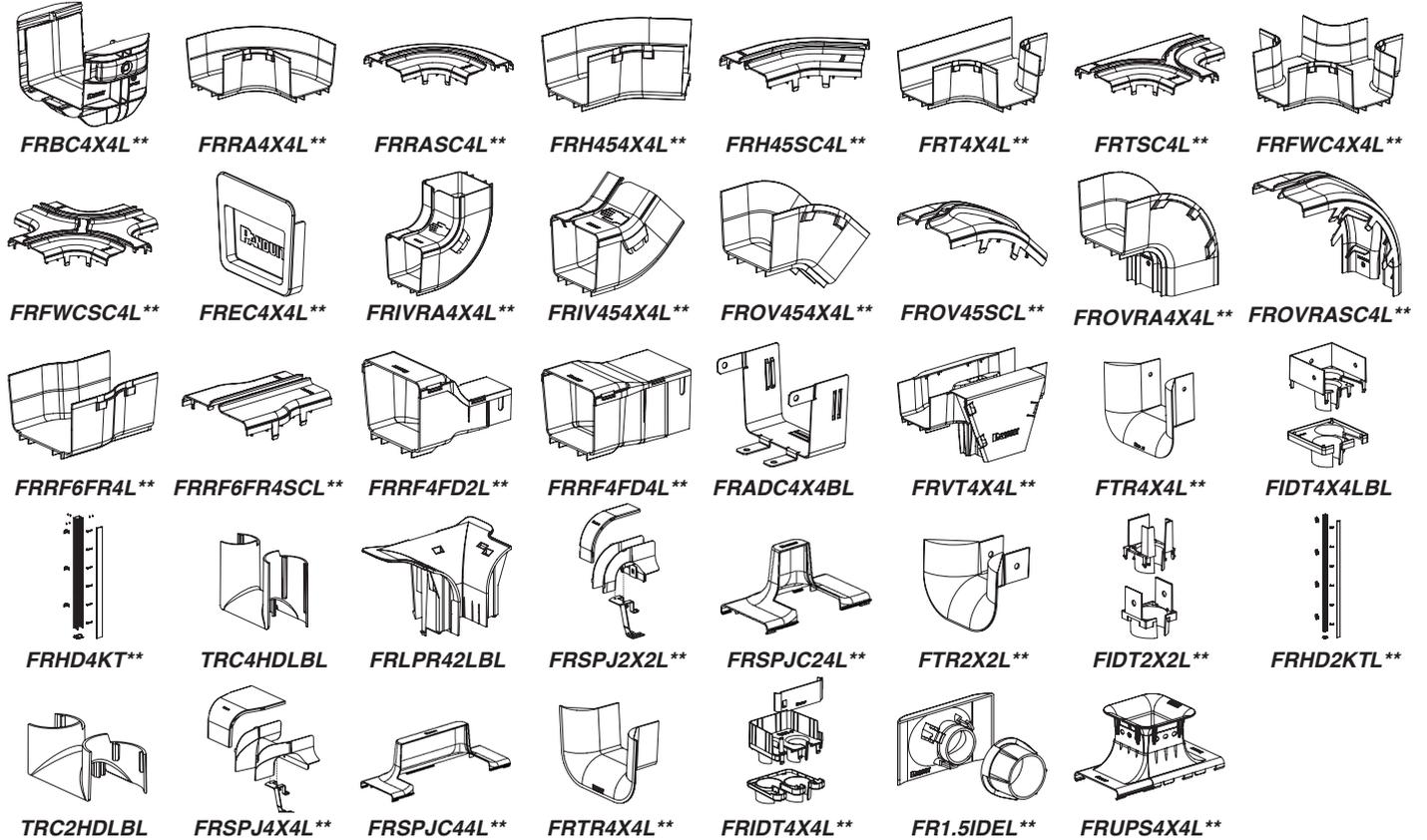
**Substitute: YL= Yellow, BL= Black

FiberRunner™ 4x4 Routing System EMEA

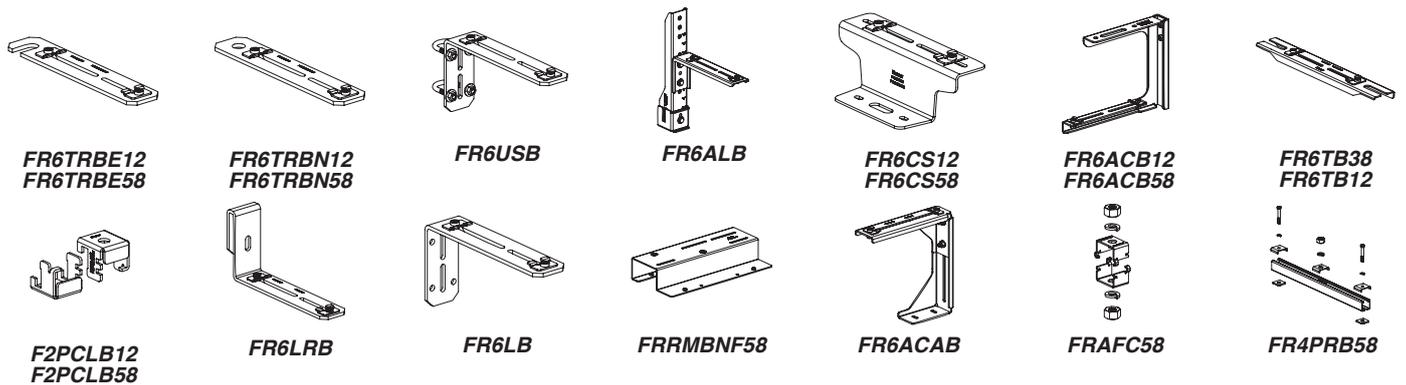
channel and cover



fittings, split covers, and spillouts



QuikLock™ Mounting Brackets



*Substitute: YL = Yellow, BL = Black

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