FiberRunner® 12x4 Routing System

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).	(112.8)	A = 51.0 in. ²	
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 (Char	nnel), 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 Cove

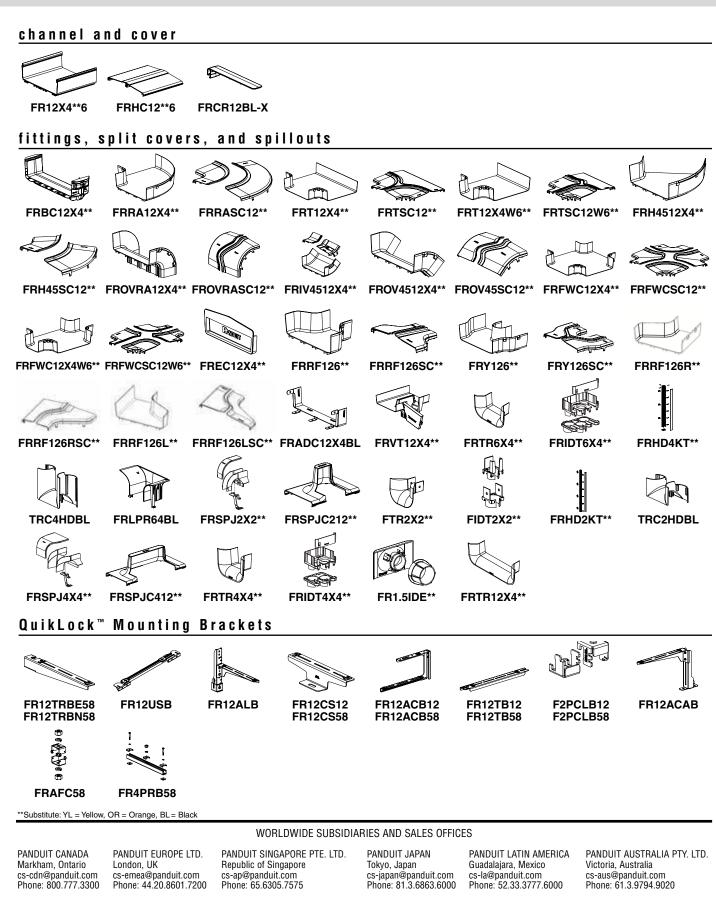
Channel and Cover	
12x4 channel (6'):	FR12X4**6
12x4 hinged cover (6'): Cable retainer:	FRHC12**6 FRCR12BL-X
	-
Fittings, Split Covers, an	
QuikLock [™] Coupler: Horizontal right angle:	FRBC12X4**
Right angle cover:	FRRA12X4** FRRASC12**
Horizontal tee:	FRT12X4**
Horizontal tee cover:	FRTSC12**
Horizontal tee with 6"exits: Tee with 6" exits cover:	FRTSC12** FRT12X4W6** FRTSC12W6**
Horizontal 45°:	FRH4512X4**
Horizontal 45° cover:	FRH45SC12**
Outside vertical 90°:	FROVRA12X4**
<i>Outside vertical 90° cover:</i> Inside vertical 45°:	FROVRASC12** FRIV4512X4**
Outside vertical 45°:	FROV4512X4**
Outside vertical 45° cover:	FROV45SC12**
4-way cross:	FRFWC12X4**
4-way cross cover: 4-way cross with 6" exits:	FRFWCSC12** FRFWC12X4W6
4-way cross with 6" exits cover:	
6" exits cover: End con:	FRFWCSC12W6
End cap: 12 to 6 reducer:	FREC12X4** FRRF126**
12 to 6 reducer cover:	FRRF126SC**
Y-reducer from 12" to two 6":	FRY126**
Y-reducer from 12" to two 6" cover:	FRY126SC**
12" to 6" reducer right fitting: 12" to 6" reducer	FRRF126R**
12" to 6" reducer	
right fitting cover: 12" to 6" reducer left fitting:	FRRF126RSC** FRRF126L**
12" to 6" reducer left fitting: 12" 6" reducer left fitting cover:	
left fitting cover:	FRRF126LSC**
Adapter to ADC 12x4 FiberGuide*:	FRADC12X4BL
QuikLock™ Vertical Tee:	FRVT12X4**
3-sided BRC trumpet spillout for 6x4 exit:	FRTR6X4**
Corrugated tubing spillout:	FRIDT6X4**
Corrugated tubing spillout: 4x4 hinged duct vertical	FRHD4KT**
cable manager kit: 4x4 hinged duct bend	
radius control trumpet:	TRC4HDBL
Low profile reducer 6x4 to 4x4 for vertical tee:	FRLPR64BL
Spill-over with 2x2 exit:	FRSPJ2X2**
Spill-over cover with	
2x2 exit for 12x4 system: 2x2 3-sided trumpet:	FRSPJC212** FTR2X2**
1-port spillout to 1.5" I.D.	TINZAZ
corrugated tubing: 2x2 hinged duct vertical	FIDT2X2**
2x2 hinged duct vertical cable manager kit:	FRHD2KT**
2x2 FiberRunner® Bend	
Radius Control Trumpet:	TRC2HDBL
Spill-over with 4x4 exit: Spill-over cover with	FRSPJ4X4**
4x4 exit for 12x4 system:	FRSPJC412**
4x4 3-sided trumpet	FRTR4X4**
corrugated tubing: 1-port spillout to 1.5" I.D.	FRIDT4X4**
1-port spillout to 1.5" I.D.	
corrugated tubing:	FR1.5IDE**
3-sided BRC trumpet for 12x4 exit:	FRTR12X4**
QuikLock [™] Mounting Bra	
QL existing 5/8" thr rod brkt: QL new 5/8" thr rod brkt:	FR12TRBE58 FR12TRBN58
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Gainebook mounting bi	auncio
QL existing 5/8" thr rod brkt:	FR12TRBE58
QL new 5/8" thr rod brkt:	FR12TRBN58
QL under floor brkt:	FR12USB
QL adjust ladder rack brkt:	FR12ALB
QL center support brkt 1/2":	FR12CS12
QL center support brkt 5/8":	FR12CS58
QL adjust C-brkt 1/2":	FR12ACB12
QL adjust C-brkt 5/8":	FR12ACB58
QL trapeze 1/2" brkt:	FR12TB12
QL trapeze 5/8" brkt:	FR12TB58
Two-piece ladder rack brkt	
1/2" thr rod:	F2PCLB12
Two-piece ladder rack brkt	
5/8" thr rod:	F2PCLB58
QL adjustable cabinet brkt:	FR12ACAB
Two-piece framing clip 5/8" thr rod to 9/16" C-channel	
aux. framing bars:	FRAFC58
4 post rack brkt:	FR4PRB58

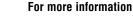
*ADC's 12x4 FiberGuide Management System is a product of ADC Telecommunications, Inc. **Substitute: YL = Yellow, OR = Orange, BL = Black

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





Contact Customer Service by email: cs@panduit.com or by phone: 800.777.3300

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