

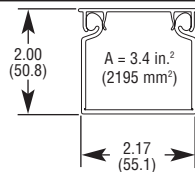
specifications

The 2x2 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 spillover 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 and raised floor pedestals.



technical information

Dimensions are in inches
(Dimensions in parentheses
are metric)



Open channel 50% fill capacity: (2" Pile Up)	Cable	No. of Cables
	1.6mm	545
	2.0mm	347
	3.0mm	155
	CAT6 5.2mm	52
	CAT5e 5.5mm	46
Material:	Rigid PVC (Channel), ABS (Fittings)	
Flammability:	94V-0	
Approvals:	UL Listed 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 <i>QUIKLOCK™</i> Coupler; <i>QUIKLOCK™</i> Couplers take less than five seconds to make a mechanically secure connection
Easy to maintain	Hinged channel cover, hinged door vertical tee and solid 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 spillover fittings
Versatility	The vertical tee accepts a three sided trumpet, transition to corrugated tubing and <i>PANDUIT® FIBERRUNNER®</i> and <i>FIBER-DUCT™</i> systems
Cable protection	A minimum 2" bend radius maintained throughout all fittings prevents excessive bends in fiber optic cabling

applications

The *FIBERRUNNER®* 2x2 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. Channel and fittings are assembled using timesaving *PANDUIT® QUIKLOCK™* couplers. A selection of spillover 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 brackets is available to attach system components to support structures found in all applications. The *FIBERRUNNER®* 2x2 Routing System is part of the *PANDUIT®* complete fiber distribution system, which includes the *FIBERRUNNER®* 12x4, 6x4 and 4x4 Routing Systems, the *FIBER-DUCT™* 4x4 and 2x2 Routing Systems and *OPTICOM®* HD Cable Management products.

Channel & Cover

2x2 solid hinged channel (6 ft):	HS2X2**6
2x2 slotted hinged channel (6 ft):	H2X2**6
2x2 hinged cover (6 ft):	HC2**6

Fittings

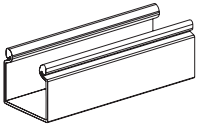
<i>QUIKLOCK™</i> coupler:	FBC2X2**
Horizontal right angle:	FRA2X2**
Horizontal tee:	FT2X2**
4-way cross:	FFWC2X2**
End cap:	FHDEC2X2**
Vertical tee:	FVTHD2X2**
Three-sided BRC trumpet spillover:	FTR2X2**
Inside vertical 45°:	FIV452X2**
Outside vertical 45°:	FOV452X2**
Inside vertical 90°:	FIVRA2X2**
Outside vertical 90°:	FOVRA2X2**
4x4 <i>FIBER-DUCT™</i> to 2x2 reducer:	FRF42**
4x4 <i>FIBERRUNNER®</i> to 2x2 reducer:	FRRF4FD2**
Hinged channel 1" bend radius control trumpet:	TRC2HDBL

Mounting Brackets

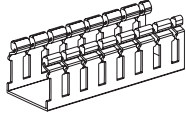
Existing ½" thr rod brkt:	FTRBE12
Existing 5/8" thr rod brkt:	FTRBE58
New ½" thr rod brkt:	FTRBN12
New 5/8" thr rod brkt:	FTRBN58
Under-floor brkt:	FUSB
½" thr rod to 1 ½" ladder rack brkt:	FLB12X15
5/8" thr rod to 1 ½" ladder rack brkt:	FLB58X15
½" thr rod to 2" ladder rack brkt:	FLB12X20
5/8" thr rod to 2" ladder rack brkt:	FLB58X20
2 pc. ladder rack ½" thr rod:	F2PCLB12
2 pc. ladder rack 5/8" thr rod:	F2PCLB58
Ladder rack brkt:	FLRB
"L" wall mount brkt:	FLB
Strut mtl frmng brkt ½" thr rod:	FTRB12
Strut mtl frmng brkt 5/8" thr rod:	FTRB58
Adjustable "Z" bracket:	FZBA1.5X4
Top rail of rack support bracket:	FMRB
EIA/TIA threaded rod mounting bracket:	FEIAB58

FIBERRUNNER® 2x2 Routing System

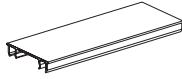
Channel & Cover



HS2X2**

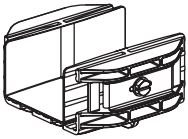


H2X2**6

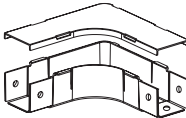


HC2**6

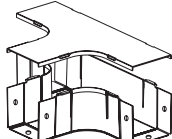
Fittings



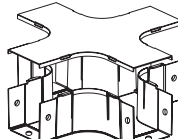
FBC2X2**



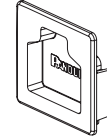
FRA2X2**



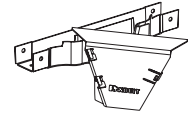
FT2X2**



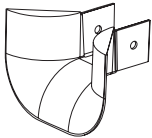
FFWC2X2**



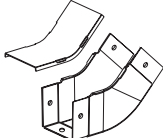
FHDEC2X2**



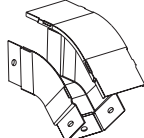
FVTHD2X2**



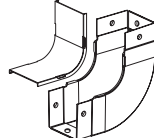
FTR2X2**



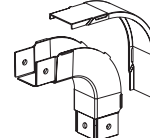
FIV452X2**



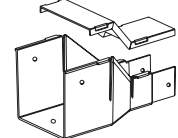
FOV452X2**



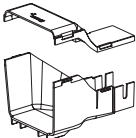
FIVRA2X2**



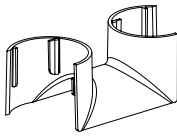
FOVRA2X2**



FRF42**

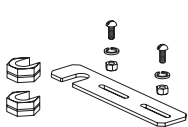


FRRF4FD2**

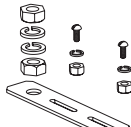


TRC2HDBL

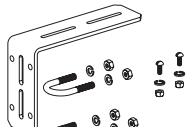
Mounting Brackets



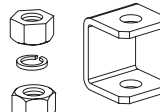
FTRBE12
FTRBE58



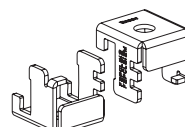
FTRBN12
FTRBN58



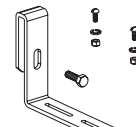
FUSB



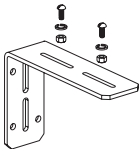
FLB12X15
FLB58X15
FLB12X20
FLB58X20



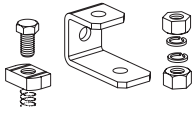
F2PCLB12
F2PCLB58



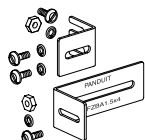
FLRB



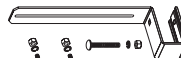
FLB



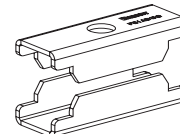
FTRB12
FTRB58



FZBA1.5X4



FMRB



FEIAB58

** Substitute: YL = Yellow OR = Orange BL = Black

WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT® CANADA
Markham, Ontario
Phone: 800.777.3300

PANDUIT® EUROPE LTD.
London, UK
Phone: 44.208.601.7200

PANDUIT® ASIA PACIFIC PTE. LTD.
Republic of Singapore
Phone: 65.6379.6700

PANDUIT® JAPAN
Tokyo, Japan
Phone: 81.3.3767.7011

PANDUIT® LATIN AMERICA
Jalisco, Mexico
Phone: 52.333.666.2501

PANDUIT® AUSTRALIA PTY. LTD.
Victoria, Australia
Phone: 61.3.9794.9020

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



For more information or to request a catalog

800-777-3300

cs@panduit.com

www.panduit.com

Copyright © PANDUIT Corp. All rights reserved.
Printed in U.S.A.

WW-FRSP06

03/2004