2x2 and 4x4 Fiber-Duct™Routing System

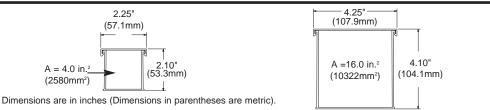


specifications

The 2x2 and 4x4 routing systems shall be used to route, segregate and protect fiber optic and communication cabling. The solid wall routing systems should be UL Listed as an optical fiber channel for general purpose use. They shall be compliant with UL 2024A and NEC articles 770 and 800 when installed per instructions. The slotted wall channel and cover shall be UL Recognized. A full complement of fittings with a 2" minimum bend radius, snap-on covers and mounting brackets shall be available. Channel and fittings shall be manufactured from impact-resistant and flame retardant (V-0) materials. Channel shall have non-slip snap-on covers that can be easily removed to allow access for moves, additions and changes. Channel and fittings finish shall be pure color, resist scratches, dents, and not peel or corrode. 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



	,	<u> </u>
Open channel 50% fill capacity (2" pile up): 2x2 FIBER-DUCT™ System	Cable 1.6mm 2.0mm	No. of Cables 562 359
Fiber Optic Ribbon Interconnect	3.0mm 5.20mm Category 6 6.35mm	160 53 36
Augmented	Category 6 9mm	18
Open channel 50% fill capacity (4" pile up):		
4x4 <i>FiBER-Duc</i> T [™] System	1.6mm 2.0mm 3.0mm	2343 1449 666
Fiber Optic Ribbon Interconnect	5.20mm Category 6 6.35mm	221
Augmented	Category 6 9mm	74
Material:	Rigid PVC (channel), ABS (fittings)	
Flammability:	94V-0	
Approvals:	UL Listed to 2024A Optical Fiber Cable Routing Assemblies UL Recognized (File No. E147128) slotted wall CSA Certified (File No. 016446 0 000) slotted wall	
CSI spec form:	LP-CSISPEC-FD-1	

key features and benefits

Large capacity 2" x 2" and 4" x 4" sizes	Ideal for routing, segregating, and protecting large amounts of fiber cabling; provides a more secure installation for fiber or high performance copper cabling
Minimum 2" bend radius control fittings	Bend radius control in fittings helps prevent excessive bends in fiber optic and high performance copper cabling
Snap-on covers	Covers snap on or off channel and fittings to enclose or gain access to system; fully encloses the channel to provide protection per UL 2024A; provides quick and easy access for moves, adds, and changes
Mates to PANDUIT cable management rack panels	Provides methods to mate system to equipment mounted on standard EIA 19" or 23" equipment racks and vertical cable managers

applications

The FIBER-DUCT™ 2x2 and 4x4 Routing Systems are comprised of channel, fittings and brackets designed to segregate, route, and protect fiber optic cable and 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. Fittings maintain a minimum 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 FIBER-DUCT™ 2x2 and 4x4 Routing Systems are part of the PANDUIT complete fiber distribution system, which includes the FIBERRUNNER™ 12x4, 6x4, 4x4 and 2x2 Routing Systems, cable management, and racks.

Channel and Cover

2x2 solid wall channel (6'): 4x4 solid wall channel (6'): S4X4**6NM 2x2 slotted wall channel (6'). E2X2**6 4x4 slotted wall channel (6'): E4X4**6 C2**6 C4**6 4x4 cover (6'):

FCF2X2*

FCF4X4**

FRA2X2**

FRA4X4** FT2X2**

FT4X4**

FFWC2X2** FFWC4X4** FEC2X2**

FEC4X4**

FIV452X2** FIV454X4**

F0V452X2**

FOV454X4**

FIVRA2X2** FIVRA4X4**

FOVRA2X2*

FOVRA4X4**

FRF42**

TRC2BL

TRC4BL

FITF2X2

FITF4X4A

FITF4X4B

FADC4X4

NR2WH NR4BL

F14PWN F14PN

FTDNS4X4**

Fittings and Spillouts

2x2 coupler: 4x4 coupler: 2x2 horizontal right angle: 4x4 horizontal right angle: 2x2 horizontal tee: 4x4 horizontal tee: 2x2 4-way cross: 4x4 4-way cross: 2x2 end cap: 4x4 end cap: 2x2 inside vertical 45°: 4x4 inside vertical 45°: 2x2 outside vertical 45°: 4x4 outside vertical 45°: 2x2 inside vertical right angle: 4x4 inside vertical right angle: 2x2 outside vertical right angle: 4x4 outside vertical right angle: 4x4 to 2x2 Fiber-Duct™ Reducer: 2x2 hend radius control trumnet: 4x4 bend radius control trumpet: 2x2 innerduct transition: 4x4 innerduct transition: 4x4 innerduct transition: 4x4 adapter to ADC 4x4 FiberGuide* 4x4 adapter to various 4x4 systems: 2x2 plastic snap rivet: 4x4 plastic snap rivet: Plastic bolts and wing nuts: Plastic bolts and hex nuts: 2x2 boltless snap bracket: 4x4 boltless snap bracket: 2x2 vertical tee: 4x4 vertical tee: 1-port spillout to 1.5" I.D. corrugated tubing: 2-port spillout to 1.5" I.D.

FBB4 FVTHD2X2** FVT4X4**

FIDT2X2**

FBB2

FIDT4X4BL

FTR4X4** FTR2X2**

FRAFC58

spillout for 2x2 exit: Mounting Brackets

thr rod to 9/16" C-channel

aux. framing bars:

corrugated tubing:

trumpet spillout: 3-sided BRC trumpet

3-sided vertical tee

Existing 1/2" thr rod brkt: Existing 5/8" thr rod brkt: FTRBE12 FTRBE58 New 1/2" thr rod brkt: New 5/8" thr rod brkt: FTRBN12 FTRBN58 Under-floor brkt: FUSB 1/2" thr rod to 1 1/2" ladder rack brkt: FLB12X15 5/8" thr rod to 1 1/2" ladder rack brkt: FLB58X15 1/2" thr rod to 2" ladder rack brkt: FLB12X20 5/8" thr rod to 2" ladder rack brkt: FLB58X20 Ladder rack brkt: **FLRB** "L" wall mount brkt: FLB Adjustable "Z" bracket: Low profile "Z" bracket: FZBA1.5X4 **FZBLP** EIA/TIA threaded rod mounting bracket: FFIAR58 Two-piece ladder rack 1/2" thr rod: F2PCI B12 Two-piece ladder rack 5/8" thr rod: F2PCLB58 Two-piece framing clip 5/8

*ADC's 6x4 FiberGuide Management Systems is a registered trademark of ADC Telecommunications, Inc. **Substitute: YL = Yellow, OR = Orange, BL = Black

2x2 and 4x4 FIBER-Duct™ Routing System

Channel and Cover







S4X4**6NM

E4X4**6

Fittings and Spillouts



FCF2X2**



FOVRA2X2**



FOVRA4X4**



F14PWN



FRF42**

FRA2X2**

FRA4X4**

F14PN



FT2X2

FT4X4**



FBB2 FBB4



FFWC2X2** FFWC4X4**



TRC4BL



FVTHD2X2**





FITF2X2 FITF4X4A FITF4X4B



FIV452X2**

FIV454X4**



FADC4X4

FIDT2X2**





FTDNS4X4**

FIDT4X4BL



FIVRA2X2**

FIVRA4X4**

NR2WH NR4BL





Mounting Brackets



FTRBE12 FTRBE58



FTRBN12 FTRBN58



FUSB



FLB12X15 FLB58X15 FLB12X20 FLB58X20



FLRB



FLB



FZBA1.5X4



FZBLP

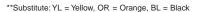


FEIAB58









WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT CANADA Markham, Ontario cs-cdn@panduit.com Phone: 800.777.3300

PANDUIT EUROPE LTD. London, UK cs-emea@panduit.com Phone: 44.20.8601.7200 PANDUIT SINGAPORE PTE. LTD. Republic of Singapore cs-ap@panduit.com Phone: 65.6379.6700

PANDUIT JAPAN Tokyo, Japan cs-japan@panduit.com Phone: 81.3.3767.7011

PANDUIT LATIN AMERICA Jalisco, Mexico cs-la@panduit.com Phone: 52.333.777.6000

PANDUIT AUSTRALIA PTY. LTD. Victoria, Australia cs-aus@panduit.com Phone: 61.3.9794.9020

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



4/2007