2x2 and 4x4 Fiber-Duct™ Routing System

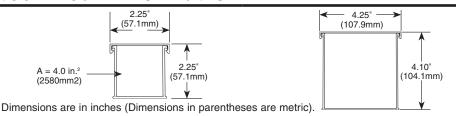
FARDUT SPECIFICATION SHEET

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, adds, 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, black, and light gray. A full complement of brackets shall be available for attaching system components to ladder rack, threaded rod, auxiliary framing, equipment racks, and raise floor pedestals.



technical information



Open channel 50% fill capacity (2" pile up): 2x2 Fiber-Duct™ System	Cable 1.6mm 2.0mm 3.0mm	No. of Cables 562 359 160
Fiber Optic Ribbon Interconnect	5.20mm Category 6, 6.1mm	53 39
Augmented	Category 6, 7.6mm	25
Open channel 50% fill capacity (4" pile up):		
4x4 Fiber-Duct™ System	1.6mm 2.0mm 3.0mm	2343 1499 666
Fiber Optic Ribbon Interconnect	5.20mm Category 6, 6.1mm	221 161
Augmented	Category 6, 7.6mm	103
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, black, and light gray 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 Fiber-Runner® 24x4, 12x4, 6x4, 4x4, and 2x2 Routing Systems, cable management, and racks.

www.panduit.com

Channel and Cover

 2x2 solid wall channel (6'):
 \$2X2**6NM

 4x4 solid wall channel (6'):
 \$4X4**6NM

 2x2 slotted wall channel (6'):
 \$2X2**6

 4x4 slotted wall channel (6'):
 \$2X2**6

 2x2 cover (6'):
 \$C2**6

 4x4 cover (6'):
 \$C4**6

Fittings and Spillouts

2x2 coupler: FCF2X2** 4x4 coupler: FCF4X4** FRA2X2** 2x2 horizontal right angle: 4x4 horizontal right angle: FRA4X4** 2x2 horizontal tee: FT2X2** FT4X4** 4x4 horizontal tee: FFWC2X2** 2x2 4-way cross: FFWC4X4** FEC2X2** FEC4X4** 4x4 4-way cross: 2x2 end cap: 4x4 end cap: 2x2 inside vertical 45°: FIV452X2** FIV454X4** 4x4 inside vertical 45°: FOV452X2** 2x2 outside vertical 45°: 4x4 outside vertical 45°: FOV454X4** 2x2 inside vertical right angle: 4x4 inside vertical FIVRA2X2** right angle: FIVRA4X4** 2x2 outside vertical right angle: 4x4 outside vertical FOVRA2X2** right angle: FOVRA4X4** 4x4 to 2x2 Fiber-Duct™ Reducer: FRF42** 2x2 bend radius control trumpet: TRC2BL 4x4 bend radius control trumpet: TRC4BL 4x4 innerduct transition: FITF4X4B 4x4 adapter to TE 4x4 FiberGuide*: FADC4X4 4x4 adapter to various 4x4 systems: 2x2 plastic snap rivet: FTDNS4X4** NR2WH 4x4 plastic snap rivet: NR4BL Plastic bolts and wing nuts: F14PWN F14PN Plastic bolts and hex nuts: FVTHD2X2** 2x2 vertical tee: 4x4 vertical tee: FVT4X4** 1-port spillout to 1.5" I.D. corrugated tubing: FIDT2X2** 2-port spillout to 1.5" I.D. corrugated tubing: FIDT4X4BL 3-sided vertical tee trumpet spillout: FTR4X4** 3-sided BRC trumpet FTR2X2** spillout for 2x2 exit: Mounting Brackets FTRBE12

Existing 1/2" thr rod brkt:
Existing 5/8" thr rod brkt:
New 1/2" thr rod brkt:
New 5/8" thr rod brkt:
Under-floor brkt:
Ladder rack brkt:
"L" wall mount brkt:
Adjustable "Z" bracket:
Low profile "Z" bracket:
EIA/TIA threaded rod
mounting bracket:
Two-piece ladder
rack 1/2" thr rod:
Two-piece ladder
rack 5/8" thr rod:
Two-piece framing clip 5/8'
hr rod to 9/16" C-channel
aux. framing bars:

F2PCLB58
FRAFC58

FTRBE58 FTRBN12

FTRBN58

FZBA1.5X4 FZBLP

FEIAB58

F2PCLB12

FUSB FLRB

*TE 4x4 FiberGuide Management Systems is a registered trademark of TE Connectivity.
**Substitute:YL = Yellow, OR = Orange, BL = Black, and LG = Light Gray.

2x2 and 4x4 Fiber-Duct™ Routing System

Channel and Cover







S2X2**6NM S4X4**6NM

E2X2**6 E4X4**6

C2**6 C4**6

Fittings and Spillouts

















FCF2X2** FCF4X4**

FRA2X2** FRA4X4**

FT2X2** FT4X4**

FFWC2X2** FFWC4X4**

FEC4X4**

FIV452X2** FIV454X4**

F0V452X2** F0V454X4**

FIVRA2X2** FIVRA4X4**

















FOVRA2X2** FOVRA4X4**



TRC2BL

FVTHD2X2**

TRC4BL

FITF4X4B

FTDNS4X4** FADC4X4

NR2WH NR4BL



F14PWN



F14PN











FTR4X4**



FTR2X2**

Mounting Brackets







FTRBN12 FTRBN58



FUSB



FLRB















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