

3M™ Fiber Dome Closure FDC 08S

The new, compact 3M™ Fiber Dome Closure FDC 08S is a hermetically sealed fiber dome closure for aerial, buried above-grade, and buried below-grade applications. This closure is designed to meet the needs of anyone using fiber optic splice closures in the long haul, metro, local access (DSL, HFC, mobile wireless back haul) and FTTP feeder and distribution networks. It is designed for butt, single or ribbon fiber cable applications.

This compact closure requires no special tools, which may help reduce tooling costs and allows for ease of installation and re-entry into the closure.

The closure features a fixed O-ring sealing system along with an innovative latching mechanism. This combination provides for simple closure sealing and re-entry.

The fiber dome closure utilizes the 3M External Cable Assembly module (ECAM) built-in cable entry port system. The ECAM design allows true plug-and-play capability which may reduce installation and labor costs because the cable preparation and installation are completed outside of the closure body. Also, the built-in cable entry system allows the technician to add and remove cables from the closure without breaking the cable seals. The FDC 08S is Rural Development (RUS) Listed.



3M™ Fiber Dome Closure FDC 08S-A



3M™ Fiber Dome Closure FDC 08S-B



3M™ External Cable Assembly Module Cable Entry Port 12 mm

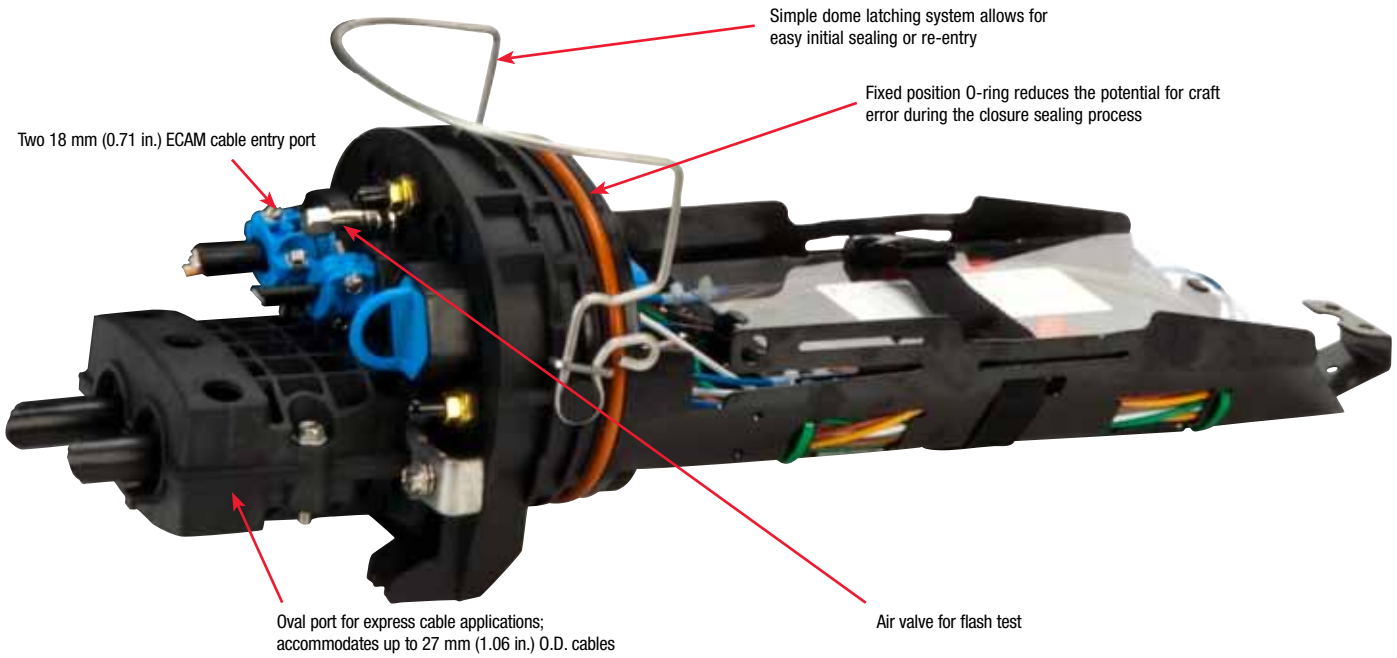


3M™ External Cable Assembly Module Cable Entry Port 18 mm

Features	Benefits
Constructed of highly chemical-resistant material	Can be deployed in all environments: buried, underground, and aerial
ECAM port design with true plug-and-play capability	Cost effective: cable preparation and installation is completed outside of the closure
Built-in cable entry termination system	Permits re-entry into the closure without breaking the cable seals
No special tools required	Simple installation and re-entry
Spacious slack storage area	Slack storage basket provides separate area for routing, protecting, and “expressing” buffer tubes and ribbon fibers
Fixed O-ring seal	Easy closure sealing and re-entry
Innovative latching mechanism	Simple re-entry into closure by lifting the dome lid away from the base



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Specifications

	3M Fiber Dome FDC 08S-B	3M Fiber Dome FDC 08S-A
Dimensions (L x H x W) mm (in.)	539 x 182 x 5.1 (21.2 x 7.2 x 6.0)	539 x 182 x 5.1 (21.2 x 7.2 x 6.0)
Cable Entry Ports & Cable Size	Round ports: 3 1: 4 - 12 mm (0.15 - 0.47 in.) O.D. 2: 5 - 18 mm (0.20 - 0.71 in.) O.D. Oval ports: 1 for 2 express cables 6.5 - 27 mm (0.26 - 1.06 in.) O.D.	Round ports: 8 Round Cable 4 - 12 mm (0.15 - 0.47 in.) O.D. Flat Cable 8.5 x 4.3 mm (0.33 x 0.17 in.) Oval ports: 1 for 2 express cables 8 - 20 mm (0.31 - 0.79 in.) O.D.
Grounding	No. of feed-thru ground studs: 0, 3 or 5 Additional grounding hardware to be purchased separately	No. of feed-thru ground studs: 0 or 1 Additional grounding hardware to be purchased separately
Flash Test	5.8 PSI max	5.8 PSI max



3M™ Fiber Dome Closure FDC 08S-B port layout



3M™ Fiber Dome Closure FDC 08S-A port layout

3M™ Fiber Dome Closure FDC 08S Splice Capacity

Product Number	Product Description	Splices Accommodated	Splice Capacity per Tray	FDC 08S-B		FDC 08S-A	
				Max no. of Trays	Max Splice Capacity	Max no. of Trays	Max Splice Capacity
2538-24-SF/72-MF	Stackable splice tray, fiber entry/exit at any corner of the tray	Single fusion (45 or 60 mm)	24	4	96	4	96
		Single mechanical (3M™ Fibrlok™ Splice)*	12	4	48	4	48
		Mass fusion	72	4	288	4	288
2539-12-SF	Hinged Splice Tray	Single fusion (45 or 60 mm)	12	6	72	6	72
2540-12-SF/36-MF	Hinged Splice Tray	Single fusion (45 or 60 mm)	12	4	48	4	48
		Single mechanical (3M™ Fibrlok™ Splice)*	6	4	24	4	24
		Mass fusion	36	4	144	4	144



3M™ Fiber Optic Splice Tray 2538-24-SF/72-MF



3M™ Fiber Optic Splice Tray 2539-12-SF



3M™ Fiber Optic Splice Tray 2540-12-SF/36-MF

Ordering Information

Product Number	Product Description	Stock Number	Minimum Order
FDC-08S-A-N0N-01A-A	Fiber dome closure with one 20 mm double cable port, eight 12 mm ECAM ports, one 2538 tray, one ground stud	80-6113-3086-3	1
FDC-08S-B-N10-01A-C	Fiber dome closure with one 27 mm double cable port, two 18 mm and one 12 mm ECAM cable ports, one 12 mm ECAM cable entry port kit, one 2538 tray, three ground studs	80-6113-8027-2	1
FDC-08S-B-N00-02B-E	Fiber dome closure with one 27 mm double cable port, two 18 mm and one 12 mm ECAM cable ports, no ECAM cable entry port kits, two 2539 trays, five ground studs	80-6113-8028-0	1
FDC-08S-B-N02-01A-C	Fiber dome closure with four 18 mm and one 12 mm ECAM cable ports, two 18 mm ECAM cable entry port kits, one 2538 tray, three ground studs	80-6113-2205-0	1
FDC-08S-B-N00-01A-N	Fiber dome closure with one 27 mm double cable port, two 18 mm and one 12 mm ECAM cable entry ports, no ECAM cable entry port kits, one 2538 tray, no ground stud	80-6113-8026-4	1
FDC-08S-B-N00-01A-C	Fiber dome closure with one 27 mm double cable port, two 18 mm and one 12 mm ECAM cable entry ports, no ECAM cable entry port kits, one 2538 tray, three ground studs	80-6113-3477-4	1

3M™ Fiber Dome Closure - FDC Configuration Guide

FDC XXX - X - XXX - XXX - X - XX - X

FIBER DOME SIZE

08M	15.2" x 7.2" x 6.0" (385.0mm x 182.0mm x 151.0mm)
08S	21.2" x 7.2" x 6.0" (539.0mm x 182.0mm x 151.0mm)
10S	21.6" x 10.1" (547.8 mm x 255.0 mm)
12S	25.8" x 12.1" (654.0 mm x 306.0 mm)

FIBER DOME CLOSURE BASE PORT CONFIGURATION

A	8-12mm ECAM port & 1-20mm double cable port & kit for FDC 08S-A & FDC 08M-A
B	2-18mm ECAM ports, 1-12mm ECAM port & 1-27mm double cable port & kit for FDC 08S-B
C	4-18mm ECAM ports, 1-12mm ECAM port for FDC 08S-C
D	5-18mm ECAM ports & 1- 27mm double cable port & kit for FDC 10S
E	7-18mm ECAM ports for FDC 10S
F	5-27mm ECAM ports & 1- 27mm double cable port & kit for FDC 12S

27MM ECAM KIT (FOR FDC 12 ONLY)

N	Not applicable
0-5	# of 27mm ECAM kit

12MM ECAM KIT (FOR FDC 08 ONLY)

N	Not applicable
0-8	# of 12mm ECAM kit (only FDC 08)

18MM ECAM KIT (FOR FDC 08 & 10)

N	Not applicable
0-7	# of 18mm ECAM Kit

SPECIAL FEATURES

C	Armored, Central Tube Cable
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GROUNDING KITS

0-8	# of grounding kits
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TYPE OF GROUND KIT

C	4460-D with #6 ground wire
D	4460-D/FO with #6 ground wire

GROUND LUGS

N	None
A	1 GND Lug (for FDC 08MA & FDC 08S-A)
C	3 GND Lugs (for FDC 08S-B, FDC 10, & FDC 12)
E	5 GND Lugs (for FDC 08S-B, FDC 10, & FDC 12)
F	6 GND Lugs (for FDC 10 & FDC 12)
G	7 GND Lugs (for FDC 10 & FDC 12)
H	9 GND Lugs (for FDC 12 only)

SPLICE TRAYS

00-08	# of trays
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TYPE OF SPLICE TRAY

N	None
A	2538-24-SF/72-MF (for FDC 08S; stacked)
B	2539-12-SF (for FDC 08M, FDC 08S, & FDC 10)
C	2540-12-SF/36-MF (for FDC 08M, FDC 08S, & FDC10)
D	2524-SR-24-SF/72-MF (for FDC 08S)
E	2541-48-SF-2.4MM (for FDC 10)
F	2541-48-SF-3.0MM (for FDC 10)
G	2541-144-MF (for FDC 10)
H	2542-72-SF-2.4MM (for FDC 12)
J	2542-72-SF-3.0MM (for FDC 12)
K	2542-288-MF (for FDC 12)
M	2541-48-SF-3.0MM/144-MF-12RF (for FDC 10)

3M™ Fiber Dome Closure FDC 08S

Fiber Dome Closure Accessories

Product Number	Product Description	3M ID	Minimum Order
2170	Fiber Optic Splice Sleeve	80-6102-8138-0	50
2171	BPEO Fiber Optic Splice Sleeve	80-6111-4669-9	50
2521-F	Fusion Splice Insert 2-pack	80-6108-5925-0	12
2521-FL	Fiblok Splice Insert 2-pack	80-6108-5926-8	12
2538-24-SF/72-MF	Fiber Splice Organizer 2538, 24 Single or 72 Mass Fusion Splices, Stackable	80-6113-1714-2	2
2539-12-SF	Fiber Splice Organizer 2539, 12 Single Fusion Splices, Hinged	80-6113-1715-9	2
2540-12-SF/36-MF	Fiber Splice Organizer 2540, 12 Single Fusion or 36 Mass Fusion Splices, Hinged	80-6113-1716-7	2
ECAM-12MM	12 mm ECAM Single Cable Entry Port	80-6130-1696-1	4
ECAM-12MM-FLAT-US	12 mm ECAM Single Cable Entry Port for 1 or 2 Flat Cables	80-6113-2649-9	8
ECAM-18MM-S	18 mm ECAM Single Cable Entry Port	80-6113-2950-1	5
ECAM-18MM-MFC	18 mm ECAM Single Cable Entry Port for 3 Flat Cables	80-6113-3795-9	5
ECAM-18MM-2RC	18 mm ECAM Single Cable Entry Port for 2 Round Cables	80-6113-3937-7	5
ECAM-20MM-D	20 mm ECAM Double Cable Entry Port, US	80-6113-2951-9	2
ECAM-27MM-D	27 mm ECAM Double Cable Entry Port, US	80-6113-2952-7	2
ECAM-GND-6-AWG	ECAM (18 mm, 20 mm, 27 mm) Cable Ground (6 AWG)	80-6113-1702-7	2
ECAM-GND-14-AWG	ECAM Cable Ground (14 AWG)	80-6113-1704-3	2
FD 08-HH-1730	FD 08 Handhole Mounting Bracket for 17" x 30" Channell & Strongwell	80-6113-1706-8	2
FDT 08-PED-CH	FD 08 Pedestal Mounting Bracket for 10" Channell Pedestal	80-6113-1720-9	2
FDT 08-PED-CI	FD 08 Pedestal Mounting Bracket for Charles Industries 8" Pedestal	80-6113-1721-7	2
FD 08-AERIAL-SHB	FD 08 Aerial Strand Mount Hanger Bracket	80-6113-1707-6	2
AC-HB4	Aerial Offset Hanger Bracket 4.0", set	80-6113-1470-1	10
FDST/FDT-08M-AERIAL-SHB	Aerial strand mount hanger bracket for FDST08 & FDT08M	80-6113-3206-7	3
FDST/FDT-08-POLE/PED-HB	Pole mount, wall mount, BD4, BD5, Channel, MAH100 pedestal mount bracket for FDST08, FDT08M & FDT08S	80-6113-3205-9	3

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