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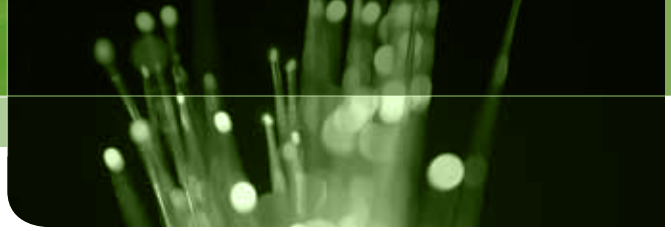


3M™ Fiber Dome Terminal Closures FDTC 08M and FDTC 08S Direct Splice Drop Termination

3M™ Fiber Dome Terminal Closure FDTC 08M Direct Splice Drop Termination

3M™ Fiber Dome Terminal Closure FDTC 08S Direct Splice Drop Termination

The compact 3M™ Fiber Dome Terminal Closures FDTC 08M and FDTC 08S are hermetically sealed fiber dome terminal closures for aerial, buried above-grade, and buried below-grade applications. These terminal closures meet the needs of almost anyone deploying FTTP networks.

They accommodate 4, 6, or 8 direct fusion or mechanical spliced drop terminations. The oval main cable port accommodates two 20 mm (0.79") all-dielectric or armored cables. The branch splice capacity for the FDTC 08M closure is 36 single and 108 mass fusion. The branch splice capacity for the FDTC 08S closure is 72 single and 216 mass fusion. The FDTC 08M and FDTC 08S closures are designed for butt, single or ribbon fiber applications.

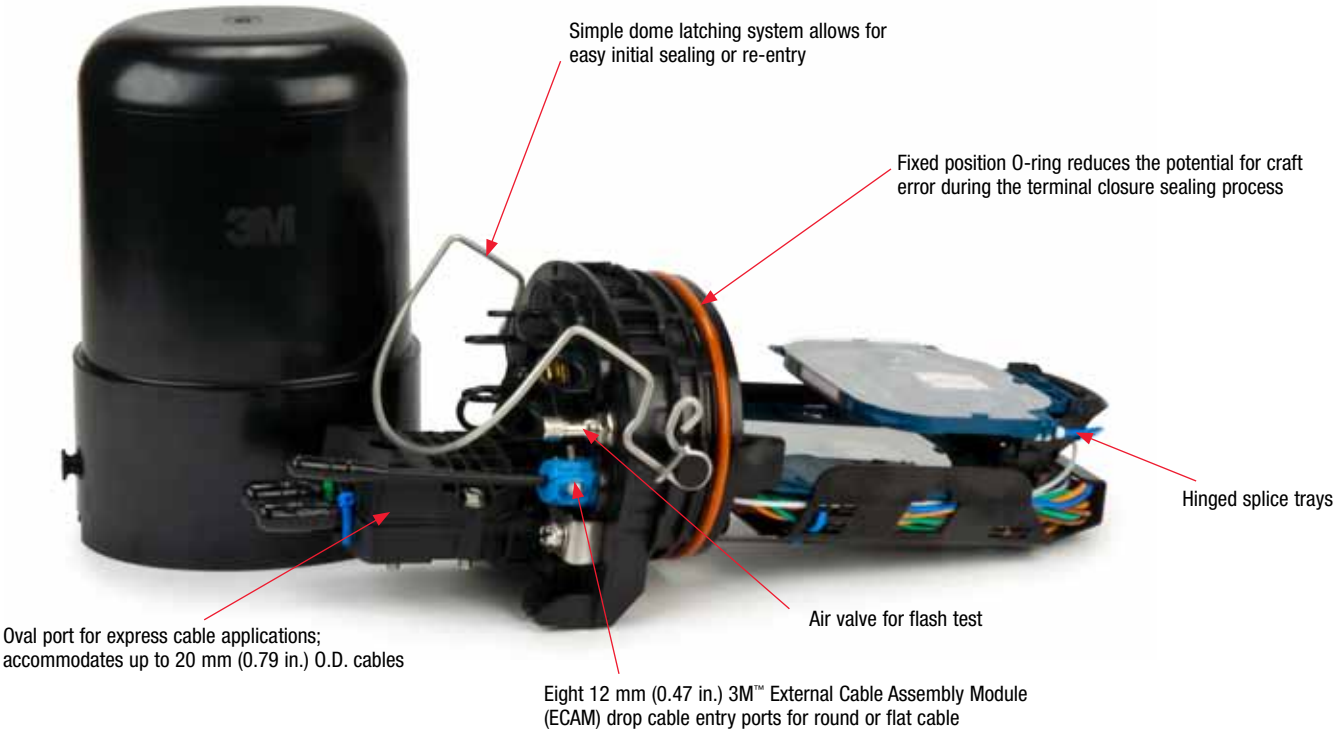
These compact terminal closures require no special tools, which may reduce tooling costs, and allows for ease of installation and re-entry into the terminal closure.

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

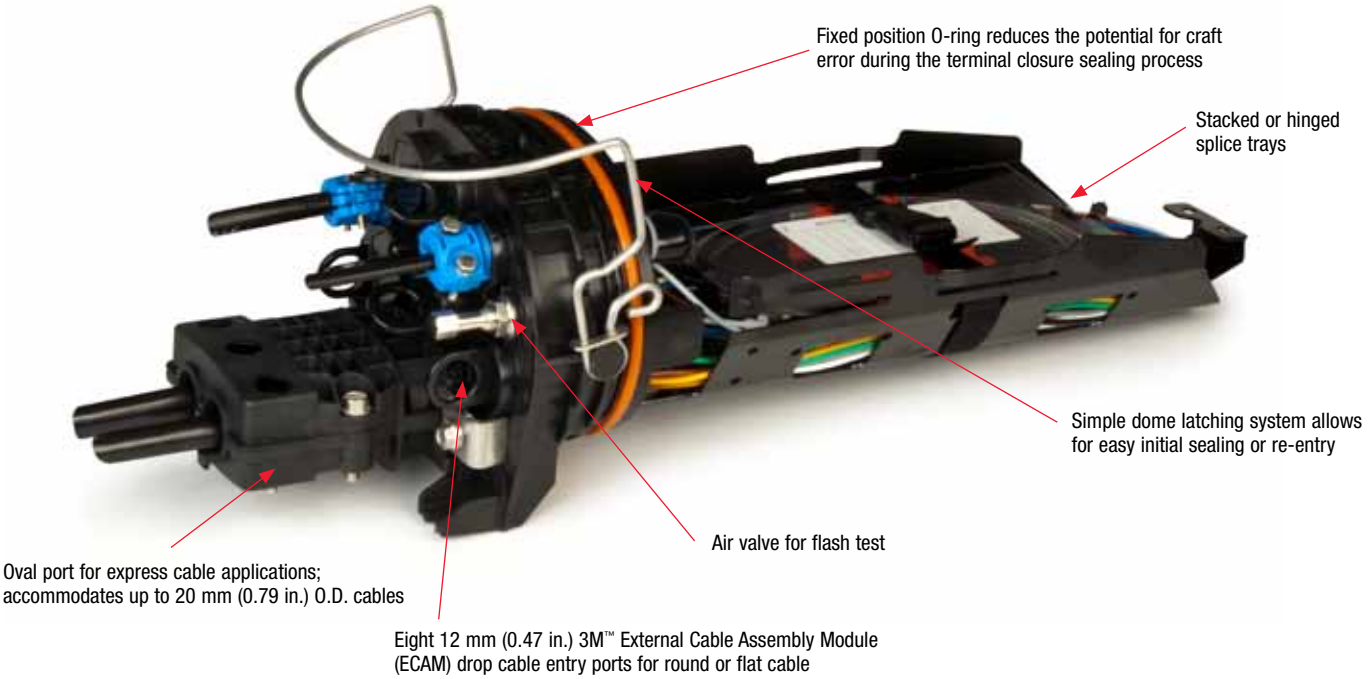
The fiber dome terminal closures FDTC 08M and FDTC 08S utilize the 3M External Cable Assembly Module (ECAM) built-in drop entry port sytem. The ECAM design allows true plug-and-play capability which may reduce installation and labor costs because the drop preparation is completed outside of the terminal closure body. Also, the built-in drop entry system allows the technician to add and remove drops without disturbing previously installed drops. The terminal closures FDTC 08M and FDTC 08S are Rural Development (RUS) Listed.

Features	Benefits
Compact size	Fits into small pedestals and handholes
Constructed of highly chemical-resistant material	Can be deployed in most environments: buried, underground and aerial
ECAM port design with true plug and play capability	Cost effective: cable and drop preparation is completed outside of the terminal closure
Built-in drop entry termination system	Permits re-entry into the closure without breaking the drop seals
No special tools required	Simple installation and re-entry
Fixed O-ring seal	Easy terminal closure sealing and re-entry
Innovative latching mechanism	Simple re-entry into terminal closure by lifting the dome lid away from the base

3M™ Fiber Dome Terminal Closure FDTC 08M Direct Splice Drop Termination



3M™ Fiber Dome Terminal Closure FDTC 08S Direct Splice Drop Termination

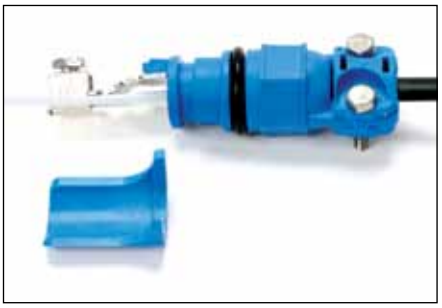


3M™ 12 mm External Cable Assembly Module (ECAM) Drop Cable Entry System

Each drop has a separate seal (grommet and O-ring), strain-relief bracket, and strength member retention lug.

3M™ Fiber Dome Terminal Closure FDTC 08ME Direct Splice Drop Termination Port Layout

3M™ Fiber Dome Terminal Closure FDTC 08M and FDTC 08S Direct Splice Drop Termination Port Layout



3M™ 12 mm External Cable Assembly Module (ECAM) Cable Entry Port

Specifications

	FDTC 08M	FDTC 08ME	FDTC 08S
Dimensions L x W (dia) x H mm (in.)	385 x 182 x 152 (15.2 x 7.0 x 6.0)	330 x 182 x 152 (13.0 x 7.0 x 6.0)	539 x 182 x 152 (21.2 x 7.2 x 6.0)
Main Cable Entry Ports & Size	Oval ports: 1 for 2 express cables 8 - 20 mm (0.31 - 0.79 in.) O.D.	Round ports: 1 or 2 4-12 mm (0.15 - 0.47 in.) O.D.	Oval ports: 1 for 2 express cables 8 - 20 mm (0.31 - 0.79 in.) O.D.
No. of Drop Terminations	Up to 8	Up to 8	Up to 8
Drop Cable Size & Shape	Round drop: 4-12 mm (0.15 - 0.47 in.) Flat drop: 8.5 x 4.3 mm (0.33 x 0.17 in.)	Round drop: 4-12 mm (0.15 - 0.47 in.) Flat drop: 8.5 x 4.3 mm (0.33 x 0.17 in.)	Round drop: 4-12 mm (0.15 - 0.47 in.) Flat drop: 8.5 x 4.3 mm (0.33 x 0.17 in.)
Drop Installation	12 mm ECAM cable entry port with rubber grommet and O-ring	12 mm ECAM cable entry port with rubber grommet and O-ring	12 mm ECAM cable entry port with rubber grommet and O-ring
Maximum Number of Splice Trays	Single: 4* Ribbon: 4*	Single: 4* Ribbon: 4*	Single: 4* Ribbon: 4*
Branch Splice Capacity	Single: 36 Mass: 108	Single: 36 Mass: 108	Single: 72 Mass: 216
Grounding	No. of feed-thru ground studs: 1 Additional grounding hardware to be purchased separately	No. of feed-thru ground studs: 1 Additional grounding hardware to be purchased separately	No. of feed-thru ground studs: 1 Additional grounding hardware to be purchased separately
Flash Test	5.8 PSI max	5.8 PSI max	5.8 PSI max

*One splice tray is dedicated for drop splices.

3M™ Fiber Dome Terminal Closure FDTC 08M Direct Splice Drop Termination

Branch Splice Capacity

Model #	Description	Splices Accommodated	Splice Capacity per Tray	Max No. of trays	Max No. Splice Capacity
2540-12-SF	Hinged splice tray, fiber entry/exit at top of the tray	Single fusion (45 mm)	12	3	36
		Single mechanical (3M™ Fibrlok™ Splice)	6	3	18
		Mass fusion	36	3	108

3M™ Fiber Optic Splice Tray 2540-12-SF/72-MF

3M™ Fiber Dome Terminal Closure FDTC 08S Direct Splice Drop Termination

Branch Splice Capacity

Model #	Description	Splices Accommodated	Splice Capacity per Tray	Max No. of trays	Max No. 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	3	72
		Single mechanical (3M™ Fibrlok™ Splice)	12	3	36
		Mass fusion	72	3	216

3M™ Fiber Optic Splice Tray 2538

3M™ Fiber Dome Terminal Closure FDTC 08M and FDTC 08S Direct Splice Drop Termination

Ordering Information

Product Number	Product Description	3M ID	Minimum Order
FDTC-08S-E-00N-01A-A-DS	Fiber dome terminal closure FDTC 08S w/ one 20 mm double cable port, eight 12 mm ECAM drop ports, one 2538 tray, one ground stud	80-6113-3479-0	1
FDTC-08M-E-00N-00N-A-DS	Fiber dome terminal closure FDTC 08M w/ one 20 mm double cable port, eight 12 mm ECAM drop ports, no tray, one ground stud	80-6113-3342-0	1
FDTC-08M-E-00N-01C-A-DS	Fiber dome terminal closure FDTC 08M w/ one 20 mm double cable port, eight 12 mm ECAM drop ports, one 2540 tray, one ground stud	80-6113-8025-6	1
FDTC-08ME-F-00N-01C-A-DS	Fiber dome terminal closure FDTC 08ME w/ one 12 mm main cable port, eight 12 mm ECAM drop ports, one 2540 tray, one ground stud, endspan application	80-6113-3626-6	1

3M™ Fiber Dome Terminal Closure - FDTC 08 Configuration Guide

Model Number FDTC XXX - X - XXX - XX X - X - XX - X

FIBER DOME SIZE	
08M	15.2" x 7.2" x 6.0" (385.0mm x 182.0mm x 151.0mm); midspan application
08S	21.2" x 7.2" x 6.0" (539.0mm x 182.0mm x 151.0mm); midspan application
08ME	13.0" x 7.2" x 6.0" (330.0mm x 182.0mm x 151.0mm); end of span application
10SE	19.3" x 10.1" (485.0mm x 255.0mm); end of span application

Base Port Configuration	
B	6 - External Adaptor (HFOC) ports, 2-12mm branch cable ports, 20mm double cable port/kit; midspan
C	8 - External Adaptor (HFOC) ports, 20mm double cable port/kit; midspan
E	8 - 12mm ECAM ports, 20mm double cable port/kit; midspan
F	10 - 12mm ECAM ports with one ECAM-12MM kit; end of span
G	1 - 12mm ECAM port, 2 - 18mm ECAM ports, 27mm double cable port/kit; midspan
H	6 - External Adaptor (HFOC) ports, 2 - 12mm branch cable ports, 12mm cable port/kit; end of span
J	8 - External Adaptor (HFOC) ports, 12mm cable port/kit; end of span
K	7 - 18mm ECAM ports with one ECAM-18MM kit; end of span

ECAM Drop Kits	
00-08	# of ECAM kits

Type of ECAM Drop Kit	
N	None
F	ECAM-12MM-FLAT-US for flat drop cables; (25 lb pullout)
R	ECAM-12MM-RND-5/8MM for 5 to 8mm round drop cables; (> 25 lb pullout)
U	ECAM-12MM Universal for round or flat drop cables; (> 25 lb pullout)
M	ECAM-12MM-MF for Miniflex conduit

Splice Trays	
0-6	# of splice trays; see terminal closures specs for type of tray and maximum # of trays.

Type of Splice Tray	
N	None
A	2538-24-SF/72-MF; accommodates 12 2529 3M Fibrlok™ Splices, 24 single or 72 mass fusion splices (for FDTC 08S)
B	2539-12-SF; accommodates 12 single fusion splices (for FDTC 08S, 08M, & 08ME)
C	2540-12-SF/36-MF; accommodates 12 single or 36 mass fusion splices (for FDTC 08S, 08M, & 08ME)

Ground Legs	
N	None
A	1 GND Lug
B	2 GND Lugs (for FDTC-08S-G only)

Splitters (Qnty. Type, Input/Output Fibers)	
A	1, 1x4 PLC, Input Spliced/Output Connectorized
B	1, 1x4 PLC, 250µm Input/Output Fibers
C	1, 1x8 PLC, Input Spliced/Output Connectorized
D	1, 1x8 PLC, 250µm Input/Output Fibers
E	1, 1x16 PLC, Input Spliced/Output Connectorized
F	1, 1x16 PLC, 250µm Input/Output Fibers

Connector Type	
NN	None
EP	SC/APC, single mode
DW	LC/APC single mode
DA	SC/UPC single mode
DV	LC/UPC single mode

External Adapter	
N	None
A	External SC Adapter (HFOC)

Fiber Pigtail Style	
N	Not Applicable
A	900µm tight buffer tube, 1 meter
B	3mm yellow jacketed cable, 1 meter
C	250µm ribbon to 900µm fanout, 3 meters

Connectors	
0 to 16	# of connectors

Direct Spliced Applications	
DS	Direct Spliced Drop Termination

3M™ Fiber Dome Terminal Closures FDTC 08M and FDTC 08S Direct Splice Drop Termination Accessories

Product Number	Product Description	3M ID	Minimum Order
2170	Fiber Optic Splice Sleeve	80-6102-8138-0	50
2171	Fiber Optic Splice Sleeve	80-6111-4669-9	50
4460-D	3M™ Scotchlok™ Shield Bond connector	80-6104-1486-6	100
4460-D/FO	3M™ Scotchlok™ Shield Bond connector assembly	80-6108-4444-3	100
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-MF-US	12 mm ECAM Single Cable Entry Port for Miniflex Duct 8 mm	80-6113-3621-7	8
ECAM-12MM-FLAT-US	12 mm ECAM Single Cable Entry Port for 1 or 2 Flat Cables	80-6113-2649-9	8
ECAM-12MM-RND-5/8MM12MM	12 mm ECAM Single Cable Entry Port for 5 to 8 mm Round Drop	80-6113-2990-7	8
ECAM-20MM-D	20 mm ECAM Double Cable Entry Port	80-6113-1697-9	1
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	3M™ FD 08S Handhole Mounting Bracket for 17"x 30" Channell & Strongwell	80-6113-1706-8	2
FDT-08-PED-CH	3M™ FD 08S Pedestal Mounting Bracket for 10" Channell Pedestal	80-6113-1720-9	2
FDT-08-PED-CI	3M™ FD 08S Pedestal Mounting Bracket for Charles Industries 8" Pedestal	80-6113-1721-7	2
FD-08-AERIAL-SHB	3M™ FD 08S Aerial Stand Mount Hanger Bracket	80-6113-1707-6	2
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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