

# 3M™ Fiber Dome Terminal Closures FDTC 08M and FDTC 08S External 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 up to 4, 6, and 8 HFOCs (hardened fiber optic connectors) for single or ribbon fiber applications.

The oval main cable port accommodates two 20 mm (0.79") all-dielectric or armored cables. Two 3M™ 12 mm (0.47") External Cable Assembly Modules (ECAM) branch ports are available with the 4- and 6-port configurations. The branch splice capacity for the FDTC 08M is 36 single and 108 mass fusion. The branch splice capacity for the FDTC 08S is 72 single and 216 mass fusion.

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.

These 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 FDTC 08M and FDTC 08S are Rural Development (RUS) Listed.



3M™ Fiber Dome Terminal Closure FDTC 08M External Drop Termination

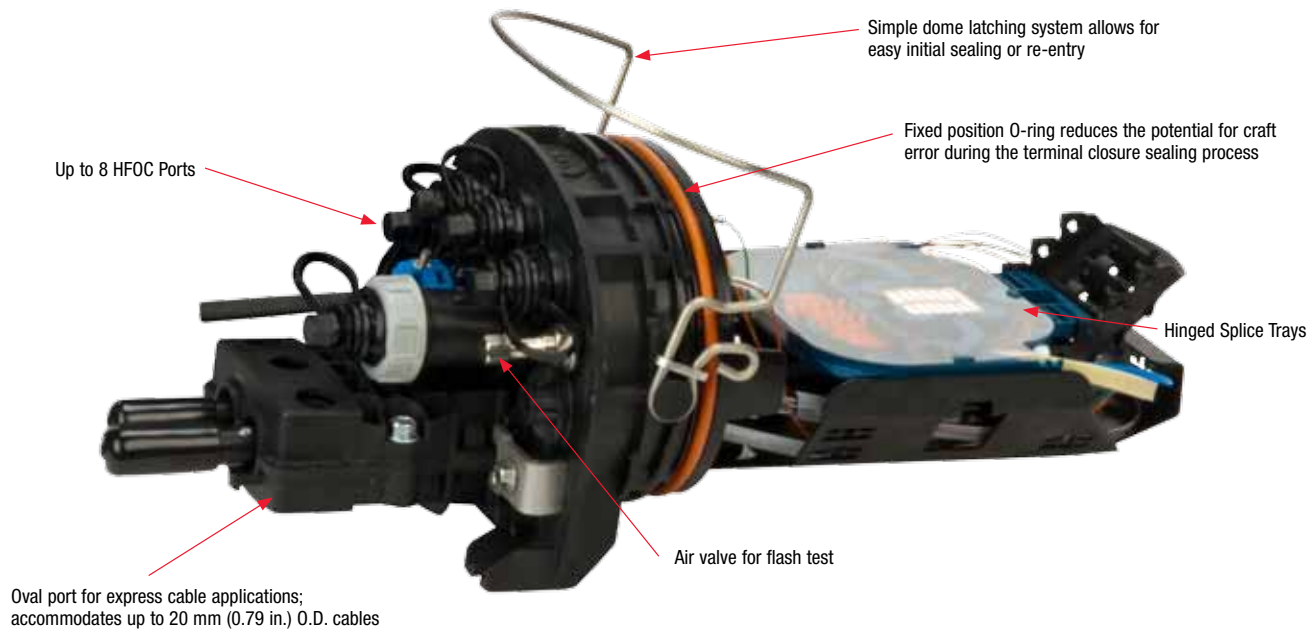


3M™ Fiber Dome Terminal Closure FDTC 08S External Drop Termination

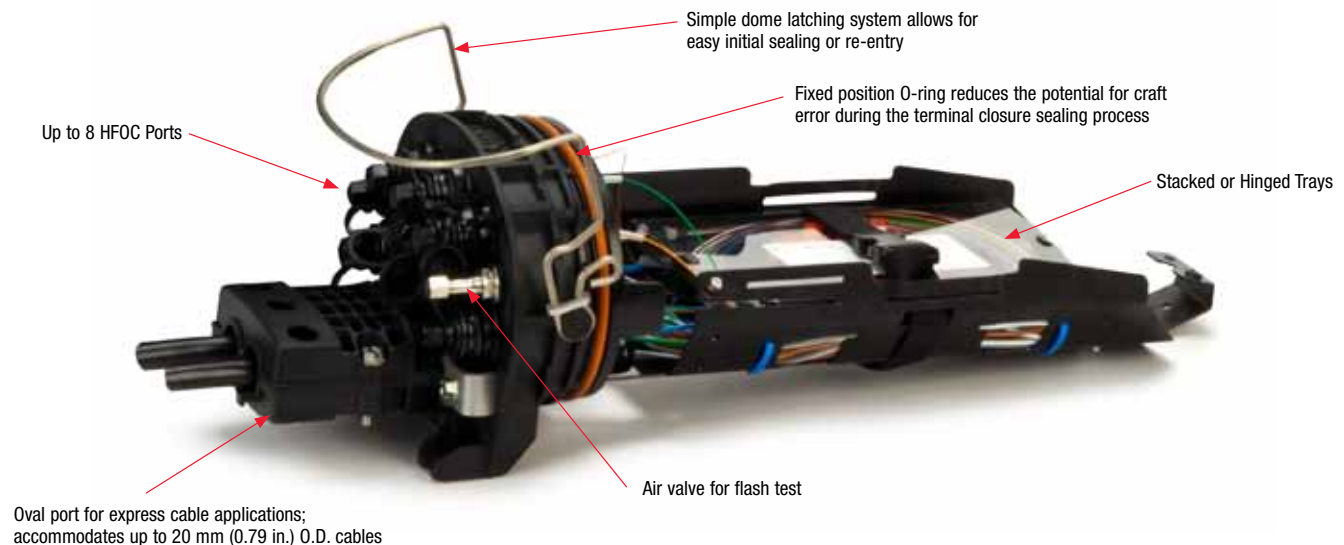
## 3M™ Fiber Dome Terminal Closures FDTC 08M and FDTC 08S External Drop Termination

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
No special tools required	Simple installation and re-entry
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
Hardened Fiber Optic Connector (HFOC) receptacle deferment	Allows deferment of costs of HFOC receptacle until subscriber requests service

### 3M™ Fiber Dome Terminal Closure FDTC 08M External Drop Termination



### 3M™ Fiber Dome Terminal Closure FDTC 08S External Drop Termination



# 3M™ Fiber Dome Terminal Closures FDTC 08M and FDTC 08S External Drop Termination Branch Cable Entry System

The 4- and 6-port configurations can accommodate up to two 12 mm (0.47 in.) branch cables using 3M™ 12 mm External Cable Assembly Module (ECAM) Cable Entry Port.



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



3M™ Fiber Dome Terminal Closure FDTC 08M and FDTC 08S External Drop Port Layout

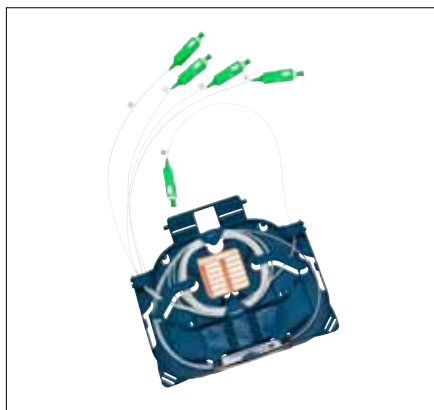


HFOC Extender for 3M™ Fiber Dome Terminal Closure FDTC 08M and FDTC 08S External Drop Termination

## Specifications

	FDTC 08M	FDTC 08S
<b>Dimensions L x W x H mm (in.)</b>	385 x 182 x 152 (15.2 x 7.2 x 6.0)	539 x 182 x 152 (21.2 x 7.2 x 6.0)
<b>No. of Drop Terminations</b>	4, 6, or 8	4, 6, or 8
<b>Main Cable Entry Ports &amp; Cable Size O.D.</b>	Oval ports: 1 for 2 express cables 2: 8 - 20 mm (0.31 - 0.79 in.) O.D. cables	Oval ports: 1 for 2 express cables 2: 8 - 20 mm (0.31 - 0.79 in.) O.D. cables
<b>Number of Branch Cable Entry Ports and Cable Size O.D.</b>	Round drop: 2 - 4-12 mm (0.15 - 0.47 in.) Flat drop: 2 - 8.5 x 4.3 mm (0.33 x 0.17 in.)	Round drop: 2 - 4-12 mm (0.15 - 0.47 in.) Flat drop: 2 - 8.5 x 4.3 mm (0.33 x 0.17 in.)
<b>Branch Cable Entry Port</b>	12 mm ECAM cable entry port with rubber grommet and O-ring	12 mm ECAM cable entry port with rubber grommet and O-ring
<b>Maximum Number of Splice Trays</b>	Single: 4* Ribbon: 4*	Single: 4* Ribbon: 4*
<b>Branch Splice Capacity</b>	Single: 36 Mass: 108	Single: 72 Mass: 216
<b>Grounding</b>	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
<b>Flash Test</b>	5.8 PSI max	5.8 PSI max

\*One splice tray is dedicated to the pigtail splices.



3M™ Fiber Splice Tray 2540 with 3M™ Planar Light Circuit (PLC) 1x4 Splitter

### 3M™ Fiber Dome Terminal Closure FDTC 08M External Drop Branch Splice Capacity

Model #	Description	Splices Accommodated	Splice Capacity per Tray	Max No. of trays	Max No. Splice Capacity
2540-12-SF/72-MF	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 External Drop 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

### Ordering Information

Product Number	Product Description	3M ID	Minimum Order
FDTC-08M-B-00N-01C-A-04-EPAA	Fiber dome terminal closure with one 20 mm double cable port, four external SC adapters, one ground, one 2540 splice tray, four SC/APC pigtailed	80-6113-8244-3	1
FDTC-08M-B-00N-01C-A-06-EPAA	Fiber dome terminal closure with one 20 mm double cable port, six external SC adapters, one ground, one 2540 splice tray, six SC/APC pigtailed	80-6113-8245-0	1
FDTC-08S-B-00N-01A-A-04-EPAA	Fiber dome terminal closure w/ one 20 mm double cable port, four external SC adapters, one 2538 splice tray, four SC/APC pigtailed	80-6113-8022-3	1
FDTC-08S-B-00N-01A-A-06-EPAA	Fiber dome terminal closure w/ one 20 mm double cable port, six external SC adapters, one 2538 splice tray, six SC/APC pigtailed	80-6113-8024-9	1
FDTC-08S-B-00N-01A-A-04-EPAC	Fiber dome terminal closure w/ one 20 mm double cable port, four external SC adapters, one 2538 splice tray, four SC/APC ribbon fanout	80-6113-8023-1	1

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

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

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

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

ECAM Drop Kits	
<b>00-08</b>	# of ECAM kits
Type of ECAM Drop Kit	
<b>N</b>	None
<b>F</b>	ECAM-12MM-FLAT-US for flat drop cables; (25 lb pullout)
<b>R</b>	ECAM-12MM-RND-5/8MM for 5 to 8mm round drop cables; (> 25 lb pullout)
<b>U</b>	ECAM-12MM Universal for round or flat drop cables; (> 25 lb pullout)
<b>M</b>	ECAM-12MM-MF for Miniflex conduit

Splice Trays	
<b>0-6</b>	# of splice trays; see terminal closures specs for type of tray and maximum # of trays.
Type of Splice Tray	
<b>N</b>	None
<b>A</b>	2538-24-SF/72-MF; accommodates 12 2529 3M Fibrlok™ Splices, 24 single or 72 mass fusion splices (for FDTC 08S)
<b>B</b>	2539-12-SF; accommodates 12 single fusion splices (for FDTC 08S, 08M, & 08ME)
<b>C</b>	2540-12-SF/36-MF; accommodates 12 single or 36 mass fusion splices (for FDTC 08S, 08M, & 08ME)

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

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

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

External Adapter	
<b>N</b>	None
<b>A</b>	External SC Adapter (HFOC)

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

Connectors	
<b>0 to 16</b>	# of connectors
Direct Spliced Applications	
<b>DS</b>	Direct Spliced Drop Termination

## 3M™ Fiber Dome Terminal Closures FDTC 08M and FDTC 08S External Drop Termination 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
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-FLAT-US	12 mm ECAM Single Cable Entry Port for 1 or 2 Flat Cables	80-6113-2649-9	8
ECAM-20MM-D	20 mm ECAM Double Cable Entry Port	80-6113-2951-9	1
FDT-08/10-ECAM-PORT-EX	ECAM Port Expander with SC External (HFOC) Adapter	80-6113-1717-5	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	3M™ FD 08 Handhole Mounting Bracket for 17"x 30" Channell & Strongwell	80-6113-1706-8	2
FDT-08-PED-CH	3M™ FD 08 Pedestal Mounting Bracket for 10" Channell Pedestal	80-6113-1720-9	2
FDT-08-PED-CI	3M™ FD 08 Pedestal Mounting Bracket for Charles Industries 8" Pedestal	80-6113-1721-7	2
FD-08-AERIAL-SHB	3M™ FD 08 Aerial Stand Mount Hanger Bracket	80-6113-1707-6	2
FDT-08/10-ECAM-PORT-EX	ECAM Port Expander with SC External (HFOC) Adapter	80-6113-1717-5	1
FDST/FDT-08M-AERIAL-SHB	Aerial Strand Mount Hanger Bracket for FDST 08 & FDTC 08M	80-6113-3206-7	3
FDST/FDT-08-POLE/PED-HB	Pole Mount, Wall Mount, BD4,BD5, Channel MAH100 Pedestal Mount Bracket for FDST 08, FDTC 08M & FDTC 08S	80-6113-3205-9	3

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