

3M™ Fiber Dome Terminal Closures FDTC 08M and FDTC 08S Internal 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 are designed to meet the needs of almost anyone deploying FTTP, ITS, DAS & mobile backhaul networks.

The FDTC 08M and FDTC 08S accommodate various drop termination methods including 4, 6 or 8 SC/APC or SC/UPC factory-terminated, pigtail spliced, or field-terminated internal drop terminations.

These compact terminal closures require no special tools, which can help 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 simple closure sealing and re-entry. Designed for butt, single or ribbon fiber applications, the FDTC 08M and FDTC 08S are equipped with an oval main cable port which accommodates two 20 mm (0.79 in.) all-dielectric or armored cables. Branch splice capacity for the FDTC 08M is 36 single and 108 mass fusion. Branch splice capacity for the FDTC 08S is 24 single and 72 mass fusion. The terminal closures FDTC 08M and FDTC 08S are Rural Development (RUS) Listed.

Field or Pigtail Spliced Drop Terminations

For field terminated or pigtail spliced drop terminations, the FDTC 08M and FDTC 08S utilize the 3M External Cable Assembly Module (ECAM) built-in drop entry port system. The ECAM design allows true plug-and-play capability which may help reduce installation and labor costs because the drop preparation and installation are completed outside of the terminal closure body. Also, the built-in cable entry system allows the technician to add and remove drops from the terminal closures without disturbing previously installed drops.

Factory-Terminated Drop Terminations

For factory-terminated drop terminations, the FDTC 08M and FDTC 08S utilize the 3M™ External Cable Assembly Module (ECAM) FD Factory-Terminated Fiber Drop Cable. The 3M ECAM FD is a factory-terminated drop cable with SC connectors on one or both ends. It is available with SC/APC or SC/UPC connectors and in lengths ranging from 50 to 2000 feet (15 to 610 m). The innovative design of the ECAM FD drop cable allows the SC connector to be replaced with a field assembled connector thus allowing the drop cable to be salvaged if the SC connector is damaged. The ECAM FD is shipped with a pulling sock to protect the drop and to allow the drop to be pulled through trees and conduit.



3M™ Fiber Dome Terminal Closure FDTC 08M
Internal Drop



3M™ Fiber Dome Terminal Closure FDTC 08S
Internal Drop



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



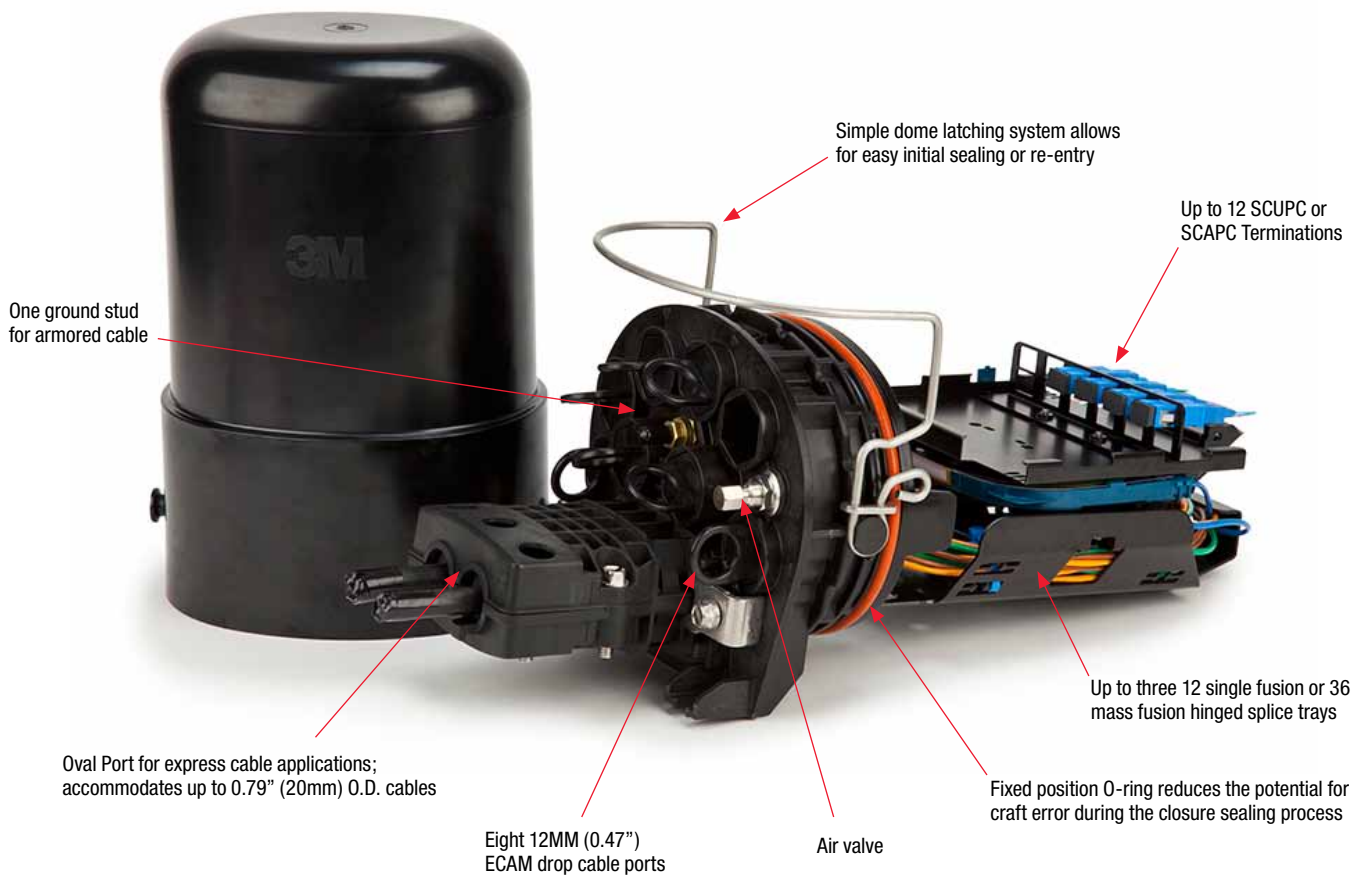
3M™ External Cable Assembly Module (ECAM)
FD Factory-Terminated Fiber Drop



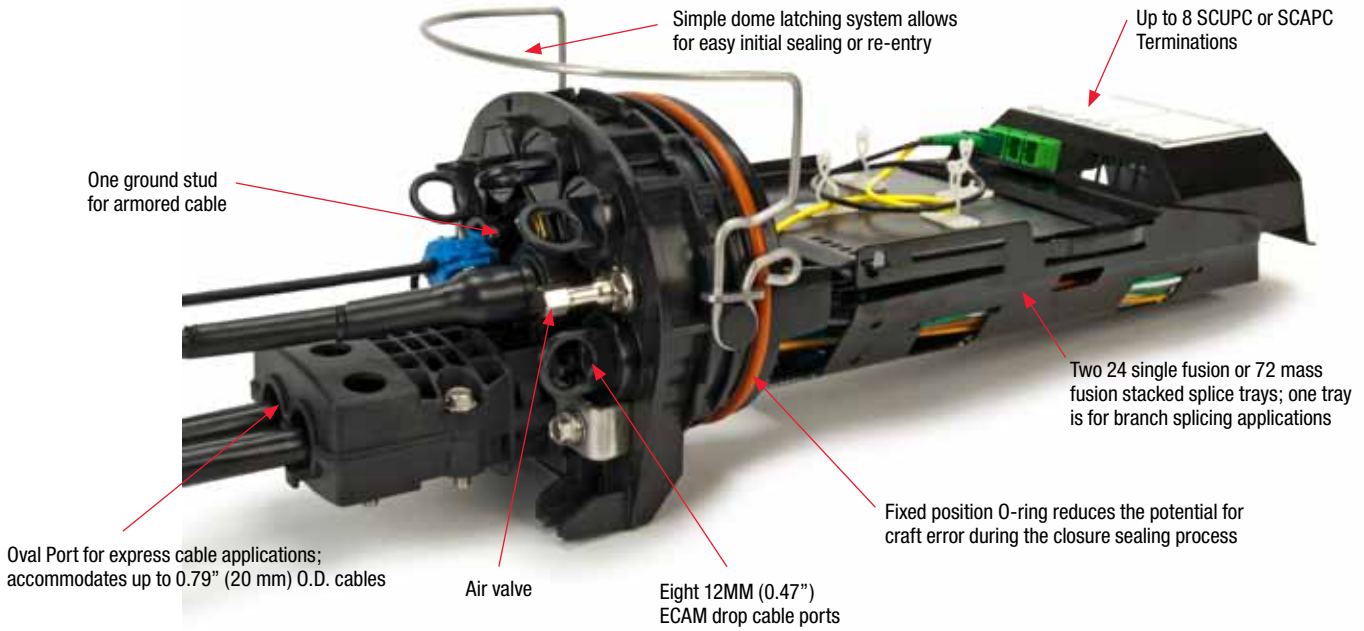
3M™ Fiber Dome Terminal Closure FDTC 08M and 08S Internal Drop Termination

Features	Benefits
Compact size	Fits into small pedestals and handholes
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: drop preparation is completed outside of the closure
Built-in drop entry termination system	Permits re-entry into the terminal closure without breaking the drop seals
No special tools required	Simple installation and re-entry
Fixed O-ring seal	Easy closure sealing and re-entry
PLC splitter options	Can be equipped with 1x4 or 1x8 PLC splitters

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



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



3M™ External Cable Assembly Module (ECAM) Drop Cable Entry System 12 mm for Pigtail Spliced or Field Terminated Drops

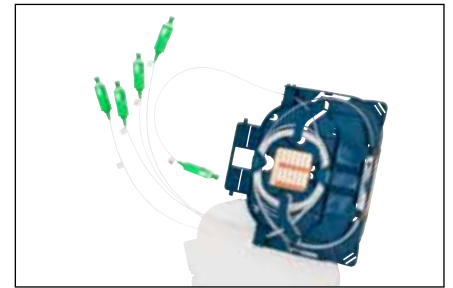
Each drop has a separate seal (grommet and O-ring), strain-relief bracket, and strength member retention lug.



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



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



3M™ Fiber Splice Tray 2540 with 3M™ Planar Light Circuit (PLC) 1 x 4 Splitter

3M™ Fiber Dome Terminal Closure FDTC 08M Internal Drop Termination Specifications

	FDTC 08M Field-Terminated or Pigtail Spliced	FDTC 08M Factory-Terminated
Dimensions: (L x H x W) mm (in.)"	385 x 182 x 152 (15.2 x 7.2 x 6.0)	385 x 182 x 152 (15.2 x 7.2 x 6.0)
Main Cable Entry Ports & Size	Oval Ports: 1 10 - 20 mm (0.39" - 0.79")	Oval Ports: 1 10 - 20 mm (0.39" - 0.79")
No. of Drop Terminations	up to 8	up to 8
Drop Cable Size & Shape	Round Drop: 4 - 12 mm (0.15 - 0.47") Flat Drop: (0.18 - 0.32")	na
Drop Installation Kit	12mm ECAM Kit with rubber grommet and O-Ring	ECAM FD Drop Cables
Connector Type	SC/UPC or SC/APC	SC/UPC or SC/APC
Number of Splice Trays	Single: 4* Ribbon: 4*	Single: 4* Ribbon: 4*
Branch Splice Capacity	Single: 36 Mass: 108	Single: 36 Mass: 108
Grounding	No. of feed-thru ground studs: 1 Additional grounding hardware to be purchased seperately	No. of feed-thru ground studs: 1 Additional grounding hardware to be purchased seperately
Flash Test	5.8 PSI max (40 KPa)	5.8 PSI max (40 KPa)

*One splice tray is dedicated to splicing distribution fibers to pigtails.

3M™ Fiber Dome Terminal Closure FDTC 08M Internal Drop Termination Branch Splice Capacity

Product Number	Product Description	Splices Accommodated	Splice Capacity per Tray	Max no. of Trays	Max 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 Internal Drop Termination

Specifications

	FDTC 08S Field-Terminated or Pigtail Spliced	FDTC 08S Factory-Terminated
Dimensions: (L x H x W) mm (in.)	539 x 182 x 152 (21.2 x 7.2 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.	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
Drop Cable Size & Shape	Round drop: 4 - 12 mm (0.15 - 0.47 in.) O.D. Flat drop: 8.5 x 4.3 mm (0.33 x 0.17 in.)	N/A
Drop Installation Kit	12 mm ECAM cable entry port with rubber grommet and O-ring	ECAM FD factory-terminated drop
Connector Type	SC/UPC or SC/APC	SC/UPC or SC/APC
Number of Splice Trays	Discrete: 2* Ribbon: 2*	Discrete: 2* Ribbon: 2*
Branch Splice Capacity	Discrete: 24 Ribbon: 72	Discrete: 24 Ribbon: 72
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
Flash Test	5.8 PSI max (40 KPa)	5.8 PSI max (40 KPa)

*One splice tray is dedicated to splicing distribution fibers to pigtails.

Branch Splice Capacity

Product Number	Product Description	Splices Accommodated	Splice Capacity per Tray	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	1	24
		Single mechanical (3M™ Fibriok™ Splice)	12	1	12
		Mass fusion	72	1	72



3M™ Fiber Optic Splice Tray 2538

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

Ordering Information

Product Number	FGS Product Description	3M ID	Min. Order
FDTC-08M-E-00N-01C-A-04-EPNA	Fiber dome terminal closure with one 20 mm double cable port, eight 12 mm ECAM drop ports, one ground, one 2540 tray, four internal SC/APC pigtails and couplings	80-6113-8246-8	1
FDTC-08M-E-00N-02C-A-05-EPNN-A	Fiber dome terminal closure with one 20 mm double cable port, eight 12 mm ECAM drop ports, one ground, two 2540 tray, five internal SC/APC pigtails and couplings, one 1x4PLC connectorized splitter	80-6113-8118-9	1
FDTC-08M-E-00N-01C-A-06-EPNA	Fiber dome terminal closure with one 20 mm double cable port, eight 12 mm ECAM drop ports, one ground, one 2540 tray, six internal SC/APC pigtails and couplings	80-6113-8041-3	1
FDTC-08M-E-00N-01C-A-08-EPNA	Fiber dome terminal closure with one 20 mm double cable port, eight 12 mm ECAM drop ports, one ground, one 2540 tray, eight internal SC/APC pigtails and couplings	80-6113-8247-6	1
FDTC-08M-E-00N-02C-A-09-EPNN-C	Fiber dome terminal closure with one 20 mm double cable port, eight 12 mm ECAM drop ports, one ground, two 2540 tray, nine internal SC/APC pigtails and couplings, one 1x8PLC connectorized splitter	80-6113-8119-7	1
FDTC-08M-E-00N-01C-A-06-DANN	Fiber dome terminal closure with one 20 mm double cable port, eight 12 mm ECAM drop ports, one ground, one 2540 tray, six internal SC/UPC couplings	80-6113-8040-5	1
FDTC-08S-E-00N-01A-A-04-EPNA	Fiber dome terminal closure with one 20 mm double cable port, eight 12 mm ECAM drop ports, one ground, one 2538 tray, four internal SC/APC pigtails and couplings	80-6113-3622-5	1
FDTC-08S-E-00N-01A-A-06-EPNA	Fiber dome terminal closure with one 20 mm double cable port, eight 12 mm ECAM drop ports, one ground, one 2538 tray, six internal SC/APC pigtails and couplings	80-6113-3623-3	1
FDTC-08S-E-00N-01A-A-08-EPNA	Fiber dome terminal closure with one 20 mm double cable port, eight 12 mm ECAM drop ports, one ground, one 2538 tray, eight internal SC/APC pigtails and couplings	80-6113-3624-1	1
FDTC-08S-G-00N-01A-B-02-DANA	Fiber dome terminal closure with one 27 mm double cable port, one 12 mm ECAM drop port, two 18 mm ECAM drop ports, two grounds, one 2538 tray, two internal SC/UPC pigtails and couplings	80-6113-3796-7	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 (Qty, 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 Internal 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 Discrete or 72 Mass Fusion Splices, Stackable	80-6113-1714-2	2
2539-12-SF	Fiber Splice Organizer 2539, 12 Discrete Fusion Splices, Hinged	80-6113-1715-9	2
2540-12-SF/36-MF	Fiber Splice Organizer 2540, 12 Discrete 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-20MM-D	20 mm ECAM Double Cable Entry Port	80-6113-2951-9	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 (18 mm, 20 mm, 27 mm) 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 Stand Mount Hanger Bracket	80-6113-1707-6	2
SCAPC-900-COL1-4	SC/APC 900µm Pigtail Kit, Colors 1-4	80-6113-2056-7	1
SCAPC-900-COL5-8	SC/APC 900µm Pigtail Kit, Colors 5-8	80-6113-2057-5	1
SCAPC-900-COL9-12	SC/APC 900µm Pigtail Kit, Colors 1-4	80-6113-2058-3	1
FDST/FDT-08M-AERIAL-SHB	Aerial Strand Mount Hanger Bracket for FDST 08 & FDT 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, FDT 08M & FDT 08S	80-6113-3205-9	3

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