

# 3M™ Fiber Dome Closure FDC 10S

The new 3M™ Fiber Dome Closure FDC 10S 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.

The FDC 10S closure requires no special tools, which can help reduce tooling costs and allows for ease of installation and re-entry into the closure.

The FDC 10S is equipped with one oval port for express or midspan cable applications and five round branch cable ports. The oval main cable port accommodates two 27 mm (1.06") and the round cable ports accommodate one 18 mm (0.71") all-dielectric or armored cables. The splice capacity is 288 single and 432 mass fusion splices.

The closure features a fixed O-ring sealing system along with an innovative latching mechanism. This combination provides for simple, error-free 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 can 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.

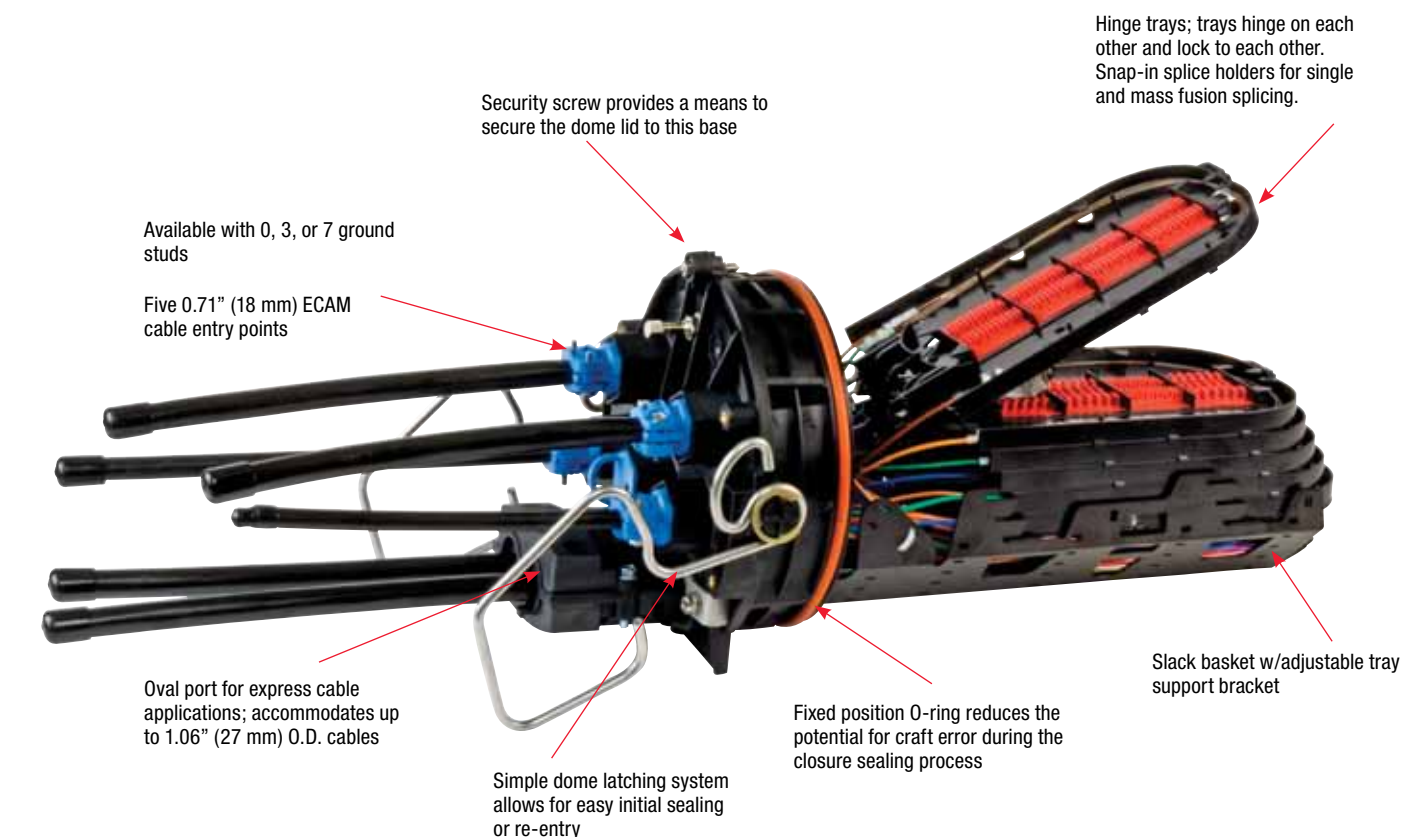


3M™ Fiber Dome Closure FDC 10S with 3M™ Fiber Splice Tray Organizer 2541



3M™ External Cable Assembly Module (ECAM)  
Cable Entry Port 18 mm

Features	Benefits
<b>Constructed of highly chemical-resistant material</b>	Can be deployed in all environments: buried, underground, and aerial
<b>ECAM port design with true plug-and-play capability</b>	Helps reduce installation and labor cost: cable preparation and installation is completed outside of the closure
<b>Built-in cable entry termination system</b>	Permits re-entry into the closure without breaking the cable seals
<b>No special tools required</b>	Simple installation and re-entry
<b>Spacious slack storage area</b>	Slack storage basket provides separate area for routing, protecting, and “expressing” buffer tubes and ribbon fibers
<b>Adjustable and removable tray support bracket</b>	Splice trays are secured to a mounting plate that can be adjusted to different levels to provide additional slack storage. The splice tray mounting plate is removable, thus, allowing for easier installation of cables after the initial install.
<b>Hinged splice trays</b>	Allows access to any splice without disturbing other trays
<b>Fixed O-ring seal</b>	Easy, error-free closure sealing and re-entry
<b>Innovative latching mechanism</b>	Simple re-entry into closure by lifting the dome lid away from the base



3M™ Fiber Splice Organizer 2541,  
144 Mass Fusion Splices, 12 Ribbon Fiber



3M™ Fiber Splice Organizer 2541,  
48 Single 2.4 mm Fusion Splices



3M™ Fiber Splice Organizer 2541,  
48 Single 3.0 mm Fusion Splices

# Specifications

## 3M™ Fiber Dome Closure Product Family Platform

Features	Fiber Dome FDC 10S-D	Fiber Dome FDC 10S-E
<b>Dimensions</b> L x H (dia.) mm (in.)	549 x 257.0 (21.6" x 10.1")	547.8 x 257.0 (21.6" x 10.1")
<b>Cable entry ports &amp; size</b>	Round ports: 5 5 - 18 mm (0.71")	Round ports: 7 7 - 18 mm (0.71")
	Oval ports: 1 27 mm (1.06") *for express applications	NA
<b>Splice capacity</b>	SF: 288 MF: 432	SF: 288 MF: 432
<b>Closure material</b>	Polypropylene	
<b>Closure sealing system</b>	O-ring and stainless steel latch	
<b>Cable sealing system</b>	Oval ports: Butyl strips & cord for loop-through cable Round ports: Rubber grommet & O-ring for branch cables	
<b>Tools required for installation</b>	3/8" & 7/16" terminal wrench, 5/16" nut driver, screw driver	
<b>Ground studs (# of feed-thru studs)</b>	0, 3 or 7	0, 3 or 7
<b>Flash test</b>	5 PSI (34.5 kPa)	5 PSI (34.5 kPa)

## Splice Capacity

### FDC 10 Splice Tray Capacity with 3M™ Fiber Splice Organizer 2541

Model #	Description	Splices Accommodated	Splice Capacity per Tray	Maxi. # of trays	Maxi. Splice Capacity
2541	Hinged tray, fiber entry/exit at hinged end of the tray	Single fusion (45 or 60 mm)	48	6	288
		Single mechanical (3M™ Fibrlok™) mass fusion	24	6	144
			144	3	432

### 3M™ Fiber Dome Closure FDC 10S Ordering Information

Model Number	Model Description	80 #	UPC #
FDC-10S-D-NN0-00N-C	FDC 10 w/ 1-27 mm double port & kit, 5-18 mm ports & 0 kits, 3GNDs, No tray	80611329584	05111530212
FDC-10S-D-NN2-01F-C	FDC 10 w/ 1-27 mm double port & kit, 5-18 mm ports & 2 kits, 3GNDs, 2541-48-SF-3.0 mm tray (1)	80611329568	05111530210
FDC-10S-D-NN2-01G-N	FDC 10 w/ 1-27 mm double port & kit, 5-18 mm ports & 2 kits, 0GNDs, 2541-144-MF-12RF tray (1)	80611329576	05111530211

### Accessories Ordering Information

Product Number	Product Description	Stock Number	UPC#	MOQ
2541-48-SF-2.4MM	2541 Fiber Splice Organizer, 48 Single 2.4 mm Fusion Splices	80611329535	05111530207	2
2541-48-SF-3.0MM	2541 Fiber Splice Organizer, 48 Single 3.0 mm Fusion Splices	80611329543	05111530208	2
2541-144-MF-12RF	2541 Fiber Splice Organizer, 144 Mass Fusion Splices, 12 Ribbon Fiber	80611329550	05111530209	2
ECAM-27mm-D	27 mm Double Cable Entry Port, US	80611329527	05111530206	2
ECAM-18mm-S	18 mm ECAM Single Cable Entry Port	80611329501	05111530204	5
ECAM-GND-6-AWG	ECAM (18 mm, 20 mm, 27 mm) Cable Ground (6 AWG)	80611317027	05111519196	2
ECAM-GND-14-AWG	ECAM Cable Ground (14 AWG)	80611317043	05111519198	2

# 3M™ Fiber Dome Closure Configuration Guide

## Model Number

FDC XXX

X

XXX

XXX

X

Fiber Dome Size	
08M	15.2" x 7.2" x 6.0" (385.0 mm x 182.0 mm x 151.0 mm)
08S	21.2" x 7.2" x 6.0" (539.0 mm x 182.0 mm x 151.0 mm)
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	8-12 mm ECAM port & 1-20 mm double cable port
B	2-18 mm ECAM ports, 1-12 mm ECAM port & 1-27 mm double cable port
C	4-18 mm ECAM ports, 1-12 mm ECAM port
D	5-18 mm ECAM ports & 1- 27 mm double cable port
E	7-18 mm ECAM ports
F	5-27 mm ECAM ports & 1- 27 mm double cable port
G	10-12 mm ECAM ports

27 mm ECAM Kit (for FDC 12)	
N	Not Applicable
0-5	# of 27 mm ECAM kit
12 mm ECAM Kit (for FDC 08)	
N	Not Applicable
0-8	# of 12 mm ECAM kit (only FDC 08)
18 mm ECAM Kit (for FDC 08 & 10)	
N	Not Applicable
0-7	# of 18 mm ECAM Kit

Ground Lugs	
N	None
A	1 GND Lug
B	3 GND Lugs
C	5 GND Lugs
D	6 GND Lugs
E	7 GND Lugs

Splice Trays	
00-08	Number of Trays
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	2542-96-SF-2.4MM (for FDC 12)
J	2542-72-SF-3.0MM (for FDC 12)
K	2542-288-MF (for FDC 12)
L	2533-24-SF/72-MF (for FDC 08S)

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