

# 3M™ Fiber Dome Closure Heat Shrink (FDC-HS)

## FDC-HS-L5 and FDC-HS-S4

The 3M™ Fiber Dome Closures – Heat Shrink (FDC-HS) are hermetically sealed fiber dome closures designed for aerial, buried/underground above-grade and below-grade applications. These closures help meet the needs of anyone deploying fiber optic networks: long haul, metro, local access (DSL, HFC, mobile wireless backhaul) and FTTP networks.

The FDC-HS closure features an O-ring sealing system along with an innovative latching/locking mechanism. This combination is designed to allow simple, watertight closure sealing and re-entry. The closure utilizes heat shrink technology for cable sealing which helps provide a watertight seal.

The closure is equipped with a built-in fiber management system which provides a separate area for storing, routing, protecting, and “expressing” buffer tubes, single and ribbon fibers. The hinged splice trays include a modular splice holder design which allows them to accept single fusion, single mechanical, and various mass fusion splices (4-, 6-, 8- and 12-fiber ribbon) by simply replacing the splice holder.

The closures are available in two sizes: FDC-HS-L5 and FDC-HS-S4. Both sizes are designed to be used with any type of fiber optic cable: all-dielectric or armored; loose buffer tube, slotted-core, or central tube core; single fiber or ribbon fiber (4, 6, 8 or 12).

The FDC-HS-L5 closure is equipped with one oval port for express cable applications and five round cable ports. The oval port can accommodate two cables up to 25mm (1.0”) in diameter and the round ports can accommodate cables up to 20mm (0.76”) in diameter. The single fusion splice capacity for the L5 closure is 144 and the mass fusion splice capacity for 4-ribbon, 6-ribbon, 8-ribbon & 12-ribbon fiber is 288, 432, 480 or 720, respectively.



The 3M™ Fiber Dome Closures - Heat Shrink FDC-HS-L5 and FDC-HS-S4

The FDC-HS-S4 closure is equipped with one oval port for express cable applications and four round cable ports. The oval port can accommodate two cables up to 28mm (1.1”) in diameter and the round ports can accommodate cables up to 20mm (0.76”) in diameter. The single fusion splice capacity for the S4 closure is 48 and the mass fusion splice capacity for 4-ribbon, 6-ribbon, 8-ribbon & 12-ribbon fiber is 96, 144, 160 or 240, respectively.

An optional built-in air valve is designed to allow flash testing.



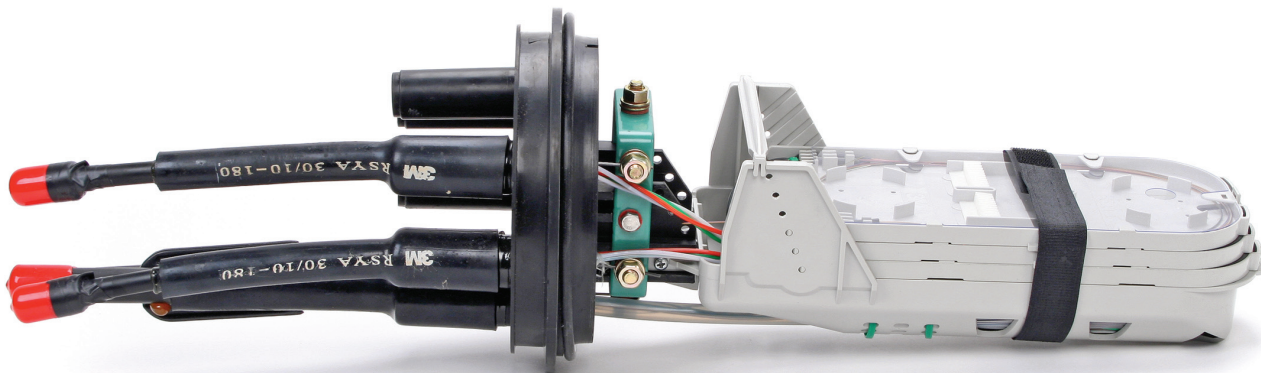
## 3M™ Fiber Dome Closure-Heat Shrink Features and Benefits

Features	Benefits
Constructed of highly chemical-resistance material	Can be deployed in most environments: aerial, buried and underground
Built-in integral multipurpose fiber storage system	Provides separate area for sorting, routing, protecting, and "expressing" buffer tubes, single and ribbon fibers
Innovative latching/locking O-ring closure sealing system	Designed to allow for a simple, watertight closure sealing and re-entry
Heat shrink cable seal	High quality and reliable environmental sealing
Hinged tray design	Easy access to fibers/splices without removing other trays
Modular splice holder design	Accommodates various fiber splice types: single fiber and ribbon mass fusion (4-fiber, 6-fiber, 8-fiber and 12-fiber)
Common accessories and installation procedures	Enhances productivity, reduces inventory of accessories (splice trays, cable entry kits) and decreases training time

## 3M™ Fiber Dome Closure-Heat Shrink Specifications

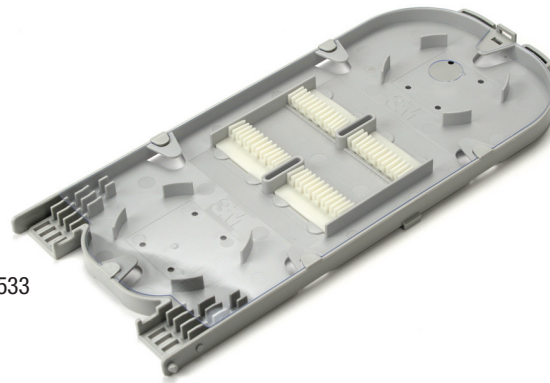
Feature	FDC-HS-L5	FDC-HS-S4
<b>Dimensions (L x D x W) mm (in.)</b>	510 x 180 (20.1 x 7.1)	460 x 160 (18.1 x 6.3)
<b>Cable entry ports and size</b>	Round ports: 5 10 to 20 mm (0.4 in. to 0.76 in.) Oval port: 1 10 to 25 mm (0.4 in. to 1.0 in.)	Round ports: 4 10 to 20 mm (0.4 in. to 0.76 in.) Oval port: 1 10 to 28 mm (0.4 in. to 1.1 in.)
<b>Closure material</b>	Polypropylene	Polypropylene
<b>Closure sealing system</b>	O-ring & clamping system	O-ring & clamping system
<b>Cable sealing system</b>	All ports: heat shrink	All ports: heat shrink
<b>Splice tray</b>	2533	2533
<b>Number of splice trays</b>	Discrete: 6 Ribbon: 6	Discrete: 2 Ribbon: 2
<b>Splice capacity*</b>	Discrete: 144 *Ribbon: 4/6 ribbon fiber = 288/432 8/12 ribbon fiber = 480/720	Discrete: 48 *Ribbon: 4/6 ribbon fiber = 96/144 8/12 ribbon fiber = 160/240
<b>Grounding</b>	# of feed-thru studs: 0, 1 or 2	# of feed-thru studs: 0 or 1
<b>Flash test (w/optional air valve installed)</b>	Yes; 10 PSI (69 kPa)	Yes; 10 PSI (69 kPa)

\*If crossing of ribbon fibers in the tray is not allowed, then splice capability is reduced by 50%.



## 3M™ Fiber Dome Closure Heat Shrink Accessories

Stock #	Model #	Description
XS003840609	FDC-HS-OVAL-HSTUBE	FDC-HS oval port heat shrink tube for L5 & S4
XS003840658	FDC-HS-RND-HSTUBE	FDC-HS round port heat shrink tube for L5 & S4
XS003826558	2170S-2.4/60-HS-SLEEVES	2.4 mm x 60 mm single fiber heat shrink sleeves
XS003854691	2170M-4/6-HS-SLEEVES	4- or 6-ribbon fiber heat shrink sleeves
XS003854709	2170M-8/12-HS-SLEEVES	8- or 12-ribbon fiber heat shrink sleeves
XS003850608	2533-24-SF	2533 splice tray, 24 single fusion splices
XS003850616	2533-72-MF-4/6C	2533 splice tray, 48/72 4- or 6-ribbon fiber mass fusion splices
XS003850624	2533-120-MF-8/12C	2533 splice tray, 80/120 8- or 12-ribbon fiber mass fusion splices
XS003853214	FDC-HS-WALL-BRKT	FDC-HS wall mount bracket (1 set)
XS003870143	FDC-HS-POLE-BRKT	FDC-HS pole mount bracket (1 set)
XS003853206	FDC-HS-AERIAL-BRKT	FDC-HS aerial strand mount bracket (1 set)



3M™ Splice Tray 2533



3M™ FDC-HS Wall Mount Bracket

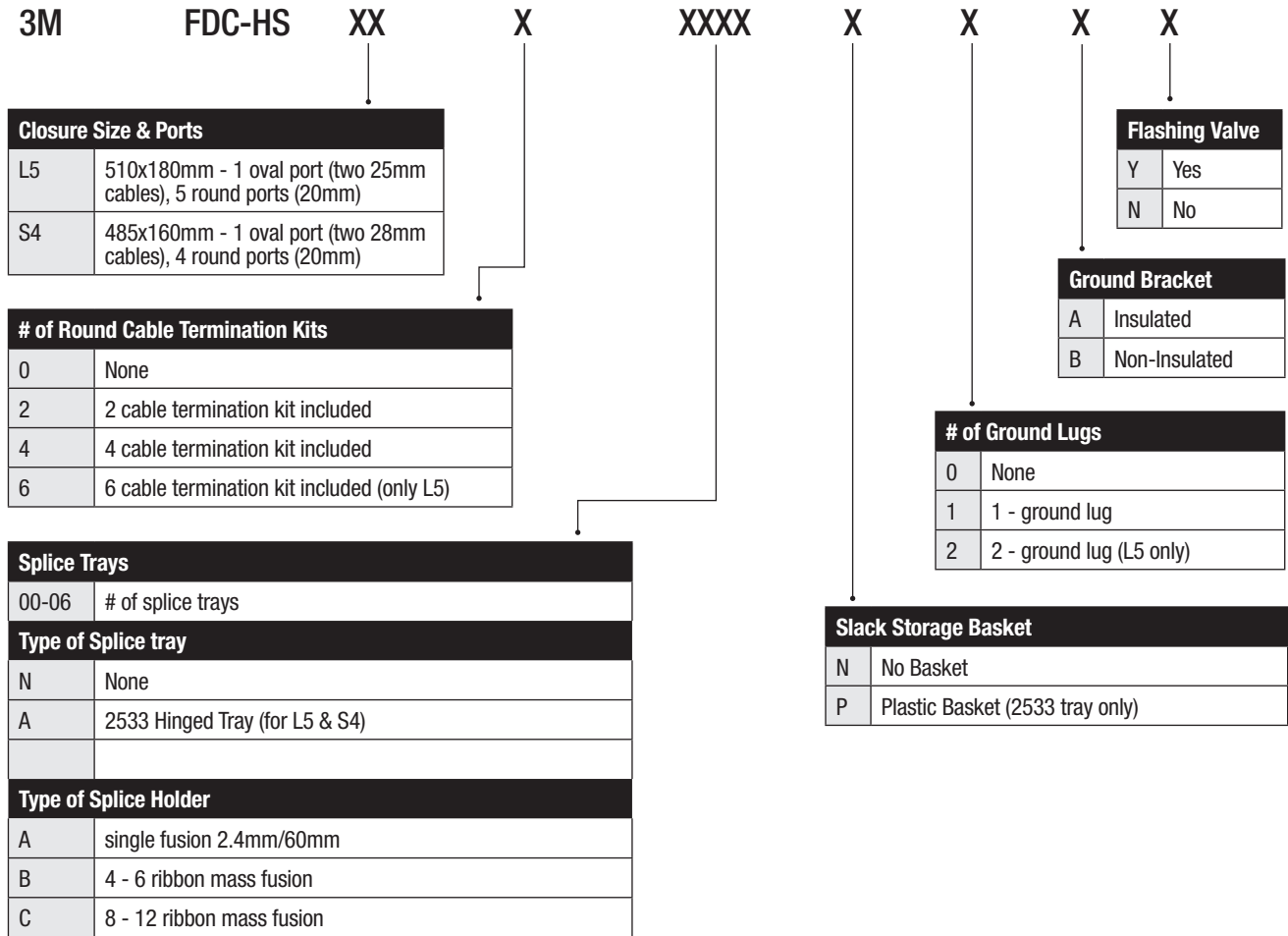


3M™ FDC-HS Aerial Strand Mount Bracket



3M™ FDC-HS Pole Mount Bracket

# 3M™ Fiber Dome Closure - Heat Shrink (FDC-HS) Configuration Guide



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