

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
Dimensions (L x D x W) mm (in.)	510 x 180 (20.1 x 7.1)
Cable entry ports and size	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.)
Closure material	Polypropylene
Closure sealing system	O-ring & clamping system
Cable sealing system	All ports: heat shrink
Splice tray	2533
Number of splice trays	Discrete: 6 Ribbon: 6
Splice capacity*	Discrete: 144 *Ribbon: 4/6 ribbon fiber = 288/432 8/12 ribbon fiber = 480/720
Grounding	# of feed-thru studs: 0, 1 or 2
Flash test (w/optional air valve installed)	Yes; 10 PSI (69 kPa)

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

