FOSC 400

Fiber Optic Splice Closures

The FOSC name is synonymous with excellence in sealing, fiber management, ease of use and design flexibility. The original FOSC 100 was introduced in 1986 and has held a leadership position since that time. FOSC closures are engineered specially for fiber-optic applications. They are not modified copper closures and the difference shows. FOSC clients ask for and get the highest quality standards.

FOSC 400 closures combine proven fiber management hardware from the earlier FOSC 100 closures, with a completely new sealing system. Base-to-dome seals on FOSC 400 are mechanical for ease of installation and re-entry. Cable seals feature a new heatshrink sleeve and hot melt adhesive system that is installed with a hot-air gun.

FOSC 400 A4/A8 closure

The FOSC 400 A4 closure is the smallest in the FOSC 400 series. It is intended for low fiber-count cable splices and "tap-off" splices. Tap-off splices are those where most of the fibers in a cable are 'expressed' uncut through the closure.

Only a few fibers are cut and re-spliced to feed a building or Optical Network Unit (ONU). The FOSC 400 A4/A8 closure comes ready to store expressed loose buffer tubes.
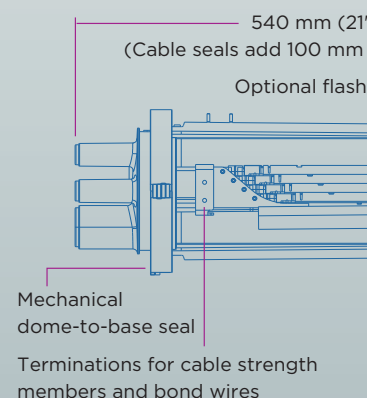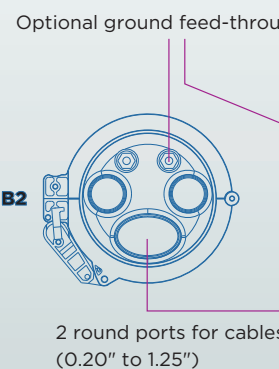
An optical slack storage basket is available for expressed stranded fiber and ribbon fiber. As with all FOSC 400 closures, the slack storage and splice capacity of the FOSC 400 A4/A8 depends on factors such as cable construction, splice type and slack fiber lengths. Refer to the Closure Capabilities chart for more details.
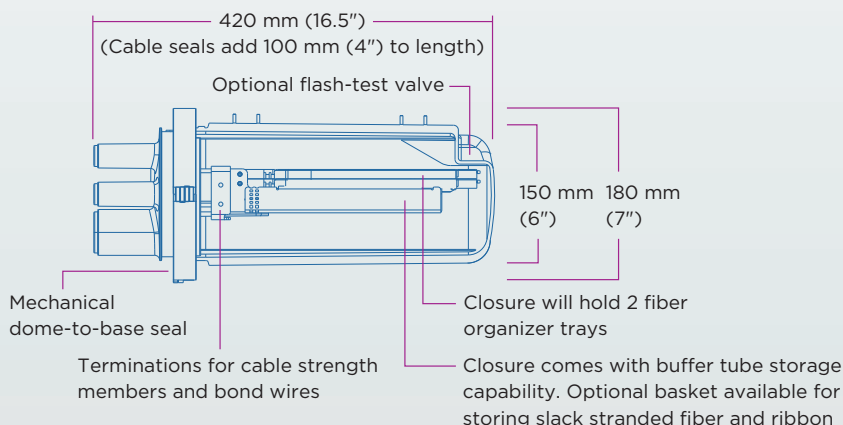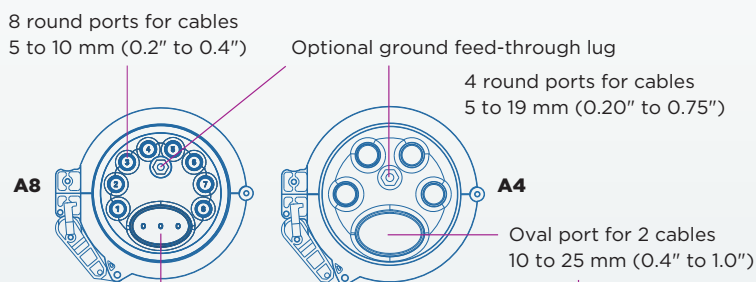
FOSC 400 B2 and FOSC 400 B4 closures

FOSC 400 B2 and FOSC 400 B4 closures are identical except for their end cable port configuration. In addition to a large oval port for the main distribution cable, the B2 closure has two large round ports for branch cable splices while the B4 closure has four small round ports for multiple drop applications.

The FOSC 400 closure cable sealing system provides a great deal of flexibility. For example, with the use of branch-off clips four small cables can be terminated in two round ports of a B2 closure.

8 round ports for cables
5 to 10 mm (0.2″ to 0.4″)

Optional ground feed-through lug

4 round ports for cables
5 to 19 mm (0.20″ to 0.75″)

A8

A4

Oval port for 2 cables
10 to 25 mm (0.4″ to 1.0″)

Optional ground feed-throu

B2

2 round ports for cables
(0.20″ to 1.25″)

420 mm (16.5″)
(Cable seals add 100 mm (4″) to length)

Optional flash-test valve

150 mm   180 mm
(6″)   (7″)

Mechanical
dome-to-base seal

Terminations for cable strength
members and bond wires

Closure will hold 2 fiber
organizer trays

Closure comes with buffer tube storage
capability. Optional basket available for
storing slack stranded fiber and ribbon

540 mm (21″
(Cable seals add 100 mm

Optional flash

Mechanical
dome-to-base seal

Terminations for cable strength
members and bond wires

Common materials, accessories and practices are used throughout the product line to simplify training, reduce inventory and enhance productivity.

FOSC 400 fiber optic splice closures are available in three sizes: the FOSC 400 A, FOSC 400 B and FOSC 400 D.

All sizes are designed for use with any cable construction (loose buffer tube, central core tube, loose fiber, ribbon), in any environment (aerial, pedestal, buried, handhole, manhole) and for numerous splice applications (expressed, tap-off, branch and repair).

FOSC 400 D5 closure

The FOSC 400 D5 closure is the largest in the FOSC 400 series. It can terminate seven cables (or up to twelve cables with the use of branch off clips), through one oval port and five large round ports. The splice capacity is 288 single mechanical, 768 single fusion or 1152 mass-fusion (12) fibers.

Ribbon fiber can be stored directly on the trays or in the versatile slack basket that also holds expressed or uncut loose buffer tubes.

gh lugs

4 round ports for cables
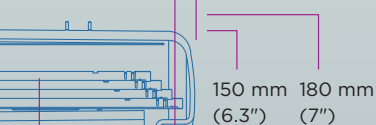5 to 19 mm (0.20″ to 0.75″)

B4
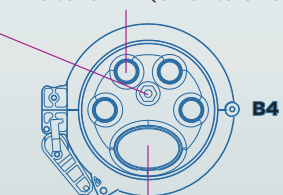
5 to 32 mm

Oval ports for cables
10 to 25 mm (0.4″ to 1.0″)

′)
(4″) to length)
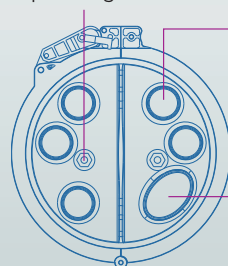
-test valve

150 mm 180 mm
(6.3″)   (7″)

Closure will hold 4 fiber organizer trays

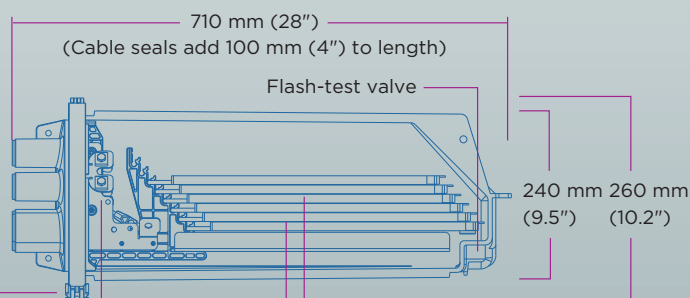Optional baskets available for storing slack members and bond wires

Optional ground feed-through lugs

5 round ports for cables
5 to 32 mm (0.20″ to 1.25″)

D5

Oval port for 2 cables
10 to 25 mm (0.4″ to 1.0″)

710 mm (28″)
(Cable seals add 100 mm (4″) to length)

Flash-test valve

240 mm 260 mm
(9.5″)   (10.2″)

Mechanical
dome-to-base seal

Terminations for cable strength members and bond wires

Closure will hold 8 trays
(6 with optional basket)

Optional basket to store slack loose buffer tubes or ribbon. (Store slack stranded fiber on bottom organizer tray)

D Fiber Organizer Tray

Hinge

B Fiber Organizer Tray

Special B Fiber Organizer Tray with Splice Modules
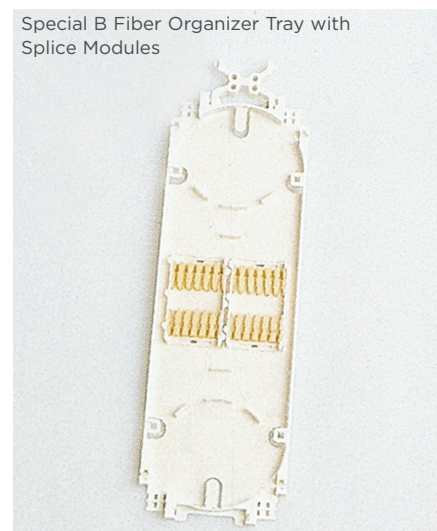
Fiber management

The stacked fiber splice and organizer trays in FOSC 400A4, B2 and B4 closures can accommodate two different splice holders. The universal splice holder is suitable for fusion and most common mechanical splices. Up to eight splices can be stored in each S08 A-tray and twelve splices in the S12 B-tray .

The high capacity splice holder doubles the tray capacity using 45 mm fusion splice protectors (SMOUV-1120-02): sixteen splices in the S16 A-tray and twenty-four splices in the S24 A- and S24 B-tray.

The fiber splice and organizer trays in FOSC 400D5 contain interchangeable splice modules. Six splice modules are mounted in each D-tray.

The standard SM6 splice module or '6-pack' will hold six single-fusion, mechanical, or mass fusion splices. Splice modules are also available for mass mechanical splices and high density single-fusion splices. These splice modules also fit in special organizer B-trays. Up to two splice modules can be mounted in one special B-tray.

These special B-trays can be easily adapted in the future for splitters, connectors, etc., by inserting new splice modules.

All FOSC 400 closures have organizer trays that are hinged at one end. Any tray can be accessed without disturbing the others, kinking buffer tubes, or introducing losses. In addition, any fiber can be spliced to any other fiber with the intertray jumper system. Engineering flexibility and error-free access are important in today's evolving, high speed fiber networks.

Closure	Spliced Fiber Storage Capacity			Slack Storage Capacity		
	Single Fusion	Single Mechanical	Mass Fusion	Buffer Tubes	Stranded Fibers	12 Fiber Ribbons
FOSC 400 A4	48	24 (1)	24	8	96	6
FOSC 400 A8	96	48	288	6	96	24
FOSC 400 B2, B4	96/144 (2)	48/60 (2)	288	6	96	24
FOSC 400 D5	768	288	1152	18	96	72

(1) Varies with splice type. Capacity is 24 for most commonly used mechanical splices.

(2) With special tray tower for 6 trays.

TE
connectivity