

# 3000SC Fiber Optic Splice Closure



## Protect All Of Your Fiber Optic Splices From Harsh Outside Plant Environments

### Product Description

Our 3000SC Fiber Optic Splice Closure is a sealed, reinforced thermoplastic housing designed to provide maximum water and corrosion resistance and be reentered for fiber rearranging or to add new cables with no special tools. The closure uses two grommets, installed on each cable entering the closure, to block water entry. The 3000SC Closure protects fiber splices and unspliced fibers from the external environment in all outside plant (OSP) applications.

The 3000SC Splice Closure has an in-line design for straight-, branch- or butt-splice configurations. Measuring 22 inches (55 cm) long, 9 inches (22 cm) high and 10.5 inches (27 cm) wide, the 3000SC accepts up to eight outside plant cables with diameters from 0.25 inches (6.4 mm) to 0.75 inches (19.1 mm). Alternatively, it will accept up to four fiber optic outside plant cables with cable diameters from 0.40 inches (10.2 mm) to 1.25 inches (31.8 mm). Unassembled, the closure weighs 15 pounds (6.8 kg). Multi-range grommet and grip kits attach and seal loose tube, unit tube or slotted core type cables to the housing. The 3000SC Closure is also available with an extended cover for increased splice holding capacity. This configuration increases the height of the closure from 9 inches (22 cm) to 14 inches (36 cm) and the unassembled weight to 20 pounds (9.07 kg).

The 3000SC Closure is capable of accepting OSP cables with an outside diameter ranging from 0.25 inches (6.4 mm) to 1.25 inches (31.8 mm) with either metallic or non-metallic strength members. Cables constructed with corrugated metal and various central or peripheral strength members are sealed without using tapes or heating apparatus. Cables may have all fibers in a single tube or in multiple loose tubes. The cable sheath is sealed with a resilient grommet design.

A versatile, general-purpose closure, the 3000SC Splice Closure fits the needs of many OSP applications. This closure can be used in aerial, buried, handhole or underground applications. However, it may not be suitable for vault or building applications, because the closure is constructed using plastic housings and is not fire-resistant. The dual grommet design, combined with the best materials and extensive testing, provides high reliability and protection in

all OSP environments. Because of the 3000SC Closure's in-line design, you can use it for straight or branch configurations for up to eight OSP cables or a butt splice configuration for up to four OSP cables. The closure can be assembled in both cold and hot temperatures, between 30° F (-1° C) and 104° F (40° C). A variety of splice organizer trays are available for use with the 3000SC Closure.



*3000SC Fiber Optic Splice Closure (closed)*

### Benefits

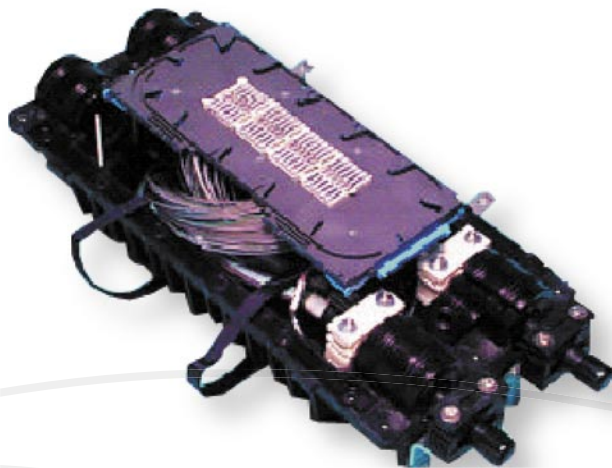
- Offers high reliability and protection by incorporating state-of-the-art OSP-compatible materials.
- Can be installed in both hot and cold temperatures and adverse weather conditions.
- Lasts for years because the materials used in all components of the 3000SC Closure have a life expectancy of at least twenty years in the OSP environment.

These trays mount in the main inner structure of the closure and are designed to provide a minimum 1.5 inch (38 mm) fiber bend radius to protect the fiber's integrity while routing and storing. Unterminated fibers and ribbons can be "expressed" through the closure with fiber or ribbon storage under the splice organizers. The materials used in all components of the 3000SC Closure have a minimum lifetime of 20 years in the outside plant environment. The closure incorporates metals that are resistant and/or protected against general forms of corrosion and localized corrosion (e.g., stress corrosion, cracking, pitting). Closure materials will not induce significant galvanic corrosion effects in wet or humid conditions on other metal parts that are present near the closure. Materials used in the closure housing, supporting hardware, bonding and grounding devices, sealing components and splice organizers will have no detrimental effect on each other or on typically used cable materials. The 3000SC Splice Closure's exterior plastics are compatible with chemicals and other materials found or used in typical closure applications.

The 3000SC Closure is designed to allow either common bonding or electrical sheath isolation. External ground wires can be brought out of the 3000SC Fiber Optic Splice Closure for each cable. The 3000SC Closure is offered in several complete configurations, or if you prefer, you can order individual modules to meet your specific needs. Accessory kits are available to handle nearly any combination of cables and splices. Detailed assembly and installation instructions are packaged with each closure or accessory kit of parts.

## Applications

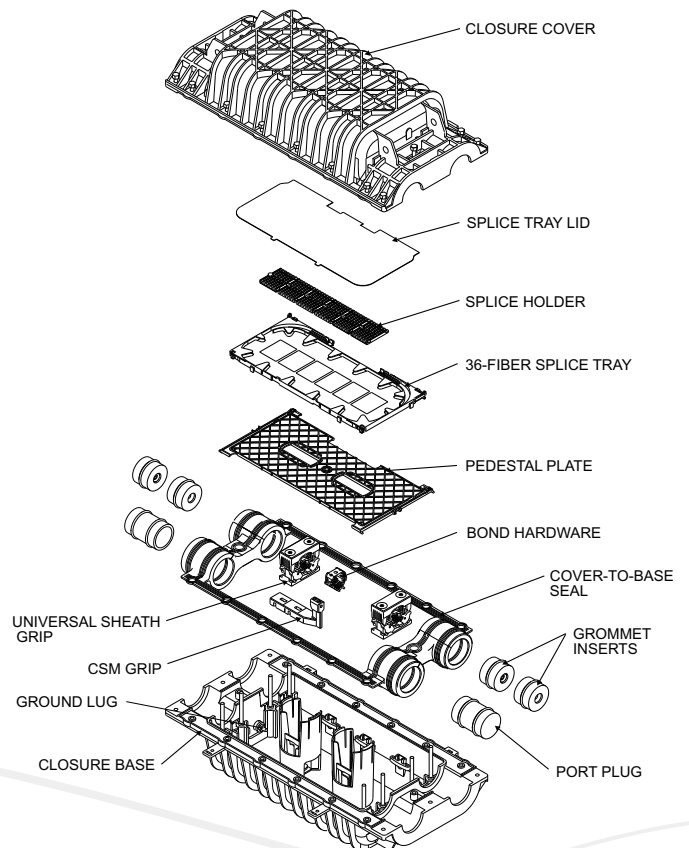
- Aerial, buried, handhole or underground applications.
- Straight or branch configurations for up to eight OSP cables.
- Butt splice configurations for up to four OSP cables.



*3000SC Fiber Optic Splice Closure (open)*

## Features

- Seals cables constructed from corrugated metal and various central or peripheral strength members without using tapes or heating apparatus
- Accommodates cables that have all fibers in a single tube or in multiple loose tubes
- Allows cable sheath to be sealed with a resilient grommet material
- Accommodates in-line or butt-splice applications
- Offers a variety of splice organizers (trays)
- Uses metals that are resistant and/or protected against general forms of corrosion and localized corrosion
- Will not induce significant galvanic corrosion effects in wet or humid conditions on other metal parts that are present in the closure's environment
- Contains materials in the closure housing, supporting hardware, bonding and grounding devices, sealing components and splice organizers that will not detrimentally effect each other or typical cable materials
- Includes exterior plastics that are compatible with chemicals and other materials found or used in typical closure applications
- Features common bonding or electrical sheath isolation
- Offers external grounding.



*3000SC Fiber Optic Splice Closure (exploded view)*

## Value Statement

Poor protection from harsh environments can adversely impact the performance and reliability of your fiber optic applications. An investment in our 3000SC Fiber Optic Splice Closure helps ensure protection for your OSP fiber splices. Count on Cicada Technology for high-quality products and maximum protection for all of your fiber optic applications.

## Specifications - Physical Dimensions

### 3000SC Closure (equipped with standard cover)

Length	Outside Diameter	Width	Weight
22 inches (55 cm)	9 inches (22 cm)	10.5 inches (27 cm)	15 lbs (6.8 kg)

### 3000SC/EC Closure (equipped with extended cover)

Length	Outside Diameter	Width	Weight
22 inches (55 cm)	14 inches (36 cm)	10.5 inches (27 cm)	20 lbs (9.07 kg)

## Specifications - Closure Capabilities

Closure Family	Design Geometry	Application	Cable Entrances	Cable OD inches (mm)	Individual Fusion Splice Capabilities	Mass Fusion Splice Capabilities	Individual Mechanical Splice Capabilities	Mass Mechanical Splice Capabilities	Connector Capacity
3000SC (Standard Cover)	In-Line	Aerial, Underground, Buried	4	0.25 - 1.25 (6.4 - 31.7)	144	864	144	144	N/A
			8	0.25 - 0.75 (6.4 - 19.1)					
3000SC/EC (Extended Cover)	In-Line	Aerial, Underground, Buried	4	0.25 - 1.25 (6.4 - 31.7)	648	2016	648	576	N/A
			8	0.25 - 0.75 (6.4 - 19.1)					

## Specifications - Splice Storage Capacities

### 3000SC Closure (equipped with standard cover)

Splice Type	Organizer Type	Max # of Splices per Tray or Cradle	Max # of Trays or Cradles per Closure	Total Fiber Splices per Closure
Discrete Fusion	Discrete 36-Splice Tray	36	4	144
Discrete Mechanical	Discrete 36-Splice Tray	36	4	144
Mass Fusion	Mass Fusion Splice Cradles	36 (432 fiber splices)	2	864*
Mass Fusion	Mass Splice Tray	24 (288 fiber splices)	1	288**
Mass Mechanical	Mass Splice Tray	12 (144 fiber splices)	1	144**

### 3000SC/EC Closure (equipped with extended cover)

Splice Type	Organizer Type	Max # of Splices per Tray or Cradle	Max # of Trays or Cradles per Closure	Total Fiber Splices per Closure
Discrete Fusion	Discrete 36-Splice Tray	36	18	648
Discrete Mechanical	Discrete 36-Splice Tray	36	18	648
Mass Fusion	Mass Fusion Splice Cradles	36 (432 fiber splices)	2	864†
Mass Fusion	Mass Splice Tray	24 (288 fiber splices)	7	2016
Mass Mechanical	Mass Splice Tray	12 (144 fiber splices)	7	1008

\* The 3000SC Closure with the mass fusion splice cradles installed will also accommodate one additional discrete 36-splice tray.

\*\* The 3000SC Closure with mass splice tray installed will also accommodate two additional discrete 36-splice trays.

† The 3000SC/EC Closure with mass fusion splice cradles installed will also accommodate six additional mass splice trays (2592 total fiber splice capacity).

## Ordering Information

### Closure Kits

Product	Description	Part Number
3000SC Basic Closure Kit	This kit contains the standard cover, closure base, gasket and fastening hardware. Order grommet and grip kits, bond hardware and splice organizers (trays) separately	107 984 783CT
3000SC/EC Extended Cover Kit	This kit contains the extended cover, closure base, gasket, fastening hardware and pedestal plates to mount the splice organizers (trays). Grommet and grip kits, bonding hardware and organizers are ordered separately.	108 484 403CT
3000SC/UT Unit Tube Closure Kit	Includes two grommet and grip kits for 0.4 to 1.0 in. (10.2 to 25.4 mm) diameter unit tube cable and two discrete splice organizers (trays) for up to 72 fiber splices.	107 999 450CT
3000SC/LT Loose Tube Closure Kit	This kit contains all the closure hardware for dielectric or metallic loose tube cable. Includes two grommet and grip kits for 0.4 to 1.0 in. (10.2 to 25.4 mm) diameter loose tube cable and two discrete splice organizers (trays) for up to 72 fiber splices.	107 999 443CT

### Grommet and Grip Kits - Single Cable, Non-Split Grommet

Product	Description	Part Number
Unit Tube Cable 0.4 - 0.7 in. diameter	This kit contains the grommet inserts, grip block, ground hardware, and unit tube splitter for unit tube cables with an outside diameter of 0.4 to 0.7 in. (10.2 to 17.8 mm).	108 001 850CT
Loose Tube Cable 0.4 - 0.7 in. diameter	This kit contains the grommet inserts, grip block, and ground hardware for loose tube cables with an outside diameter of 0.4 to 0.7 in. (10.2 to 17.8 mm).	108 001 868CT
Unit/Loose Tube Cable 0.7 - 1.25 in. diameter	This kit contains the grommet inserts, grip block, ground hardware, and unit tube splitter for either unit tube or loose tube cable with an outside diameter of 0.7 to 1.25 in. (17.8 to 31.7 mm).	108 001 876CT

### Grommet and Grip Kits - Single Cable, Split Grommet - Midsheath Applications

Product	Description	Part Number
Unit/Loose Tube Cable 0.75 - 1.05 in. diameter	This kit contains the grommet inserts, grip blocks and ground hardware for either unit tube or loose tube cables with an outside diameter of 0.75 to 1.05 in. (19.1 to 26.6 mm).	108 410 226CT

### Grommet and Grip Kits - Two Cable, Split Grommet - Multi-cable or Midsheath Applications

Product	Description	Part Number
Unit Tube Cable 0.62 - 0.75 in. diameter	This kit contains the grommet inserts, sheath grip, ground hardware and unit tube splitter for unit tube cables with a diameter of 0.62 to 0.75 in. (15.8 to 19.1 mm).	108 209 909CT
Unit Tube Cable 0.45 - 0.62 in. diameter	This kit contains the grommet inserts, sheath grip, ground hardware and unit tube splitter for unit tube cables with a diameter of 0.45 to 0.62 in. (11.4 to 15.8 mm).	108 209 883CT
Unit Tube Cable 0.35 - 0.45 in. diameter	This kit contains the grommet inserts, sheath grip, ground hardware and unit tube splitter for unit tube cables with a diameter of 0.35 to 0.45 in. (8.9 to 11.4 mm).	108 209 867CT
Loose Tube Cable 0.62 - 0.75 in. diameter	This kit contains the grommet inserts, sheath grip, ground hardware and unit tube splitter for loose tube cables with a diameter of 0.62 to 0.75 in. (15.8 to 19.1 mm).	108 209 917CT
Loose Tube Cable 0.45 - 0.62 in. diameter	This kit contains the grommet inserts, sheath grip, ground hardware and unit tube splitter for loose tube cables with a diameter of 0.45 to 0.62 in. (11.4 to 15.8 mm).	108 209 891CT
Loose Tube Cable 0.35 - 0.45 in. diameter	This kit contains the grommet inserts, sheath grip, ground hardware and unit tube splitter for loose tube cables with a diameter of 0.35 to 0.45 in. (8.9 to 11.4 mm).	108 209 875CT
Loose Tube Cable 0.25 - 0.35 in. diameter	This kit contains the grommet inserts, sheath grip, ground hardware and unit tube splitter for loose tube cables with a diameter of 0.25 to 0.35 in. (6.4 to 8.9 mm).	108 209 859CT

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**Splice organizers (Trays)**

<b>Product</b>	<b>Description</b>	<b>Comcode</b>
Discrete Splice Tray (36 splices)	Universal single fiber splice organizer to store up to 36 discrete fusion or mechanical splices.	108 001 884CT
Mass Splice Tray (24 Mass Splices)	Universal fiber splice organizer to store up to 24 mass fusion splices (288 total splices) or up to 12 mass mechanical splices (144 total fibers). Accepts 60 inches of ribbon on both sides of splice. In the standard closure, two discrete splice trays for up to 72 fusion or mechanical splices can be used in conjunction with this tray.	108 001 892CT
Mass Fusion Splice Cradle Kit (72 Mass Splices)	Two mass fusion splice cradles mount on the pedestals in the closure base and store up to 72 mass fusion splices (864 total fibers). In the standard closure, a discrete splice tray for up to 36 fusion or mechanical splices can also be used in conjunction with this mass splice cradle set. In the extended cover closure, up to six mass splice trays can also be used in conjunction with this mass splice cradle set (2592 total fibers).	108 154 782CT
	<b>Closure Accessories</b>	
<b>Product</b>	<b>Description</b>	<b>Comcode</b>
Universal Cable Ground	Hardware to bond LXE cables electrically with outside cable diameters from 0.2 to 0.8 inches (5.1 to 20.3 mm)	108 001 900CT
Ground Hardware Kit	Hardware for adding an additional ground lug connection for external grounding	108 001 918CT
Pole Mount Kit	Hardware for mounting closure to wooden or metal pole	108 261 009CT
Strand Hanger	Hardware for attaching the 3000SC Closure to an aerial strand	107 871 311CT
Ground Lug Insulator kit	Hardware to electrically isolate one external cable ground connection from earth ground.	108 260 993CT