

# Ordering Guide

for FOSC-450 product range



# Ordering Guide of the Gel Sealed Splice Closure (FOSC-450)

---



<b>1 Product description</b>	<b>2</b>
<b>2 Ordering information</b>	<b>3</b>
2.1 Basic FOSC closures	3
2.2 FOSC closure accessories	4
<b>3 Product guide</b>	<b>5</b>
3.1 Closure description	5
3.2 Closure dimensions	7
3.3 Closure capacity	7
3.4 Accessories	7

## 1 Product description

---

The FOSC 450 products are fully mechanical butt-type closures used in the outside plant network when mass splice storage is the main requirement.

They are available in 4 different sizes and are typically used as track joints.

The FOSC-450 closures are made of a thermoplastic material.

The base and dome are sealed with a clamp and an O-ring system.

4 or 6 round cable ports are provided in a wrap-around block with pre-installed gel profile for cable sealing. This block can be opened and closed repeatedly without the need to remove or replace the gel. The gel block allows bringing in cables gradually without disturbing already installed cables.

Depending on the closure size, the splicing trays can contain from 8 to 96 splices.

All splicing trays are hinged at one end so that any fiber can be accessed without disturbing fiber on other trays, kinking buffer tubes or introducing losses.

All cable termination and sealing functions are provided with the closures.

Uncut loose buffer tube storage is provided in optional storage baskets.



GCOG2OG2.JPG

## 2 Ordering information

### 2.1 Basic FOSC closures

The FOSC-450 closure is available in 4 different sizes. According to the application, many configurations are possible. Refer to section 3.0 for full product descriptions.

**FOSC-450** **XX** - **X** - **XXX** - **X** - **X** - **XX**

**Closure size**

**A** 485 mm - 4 round ports  
**BS** 485 mm - 6 round ports  
**B6** 625 mm - 6 round ports  
**D6** 755 mm - 6 round ports

**# Cable attachments**

**2** 2 cable attachments included  
**4** 4 cable attachments included (only for A size)  
**6** 6 cable attachments included

**Type of splicing trays/number of splices per tray (1)**  
NT If no trays need to be included

Closure size	Tray Options	
	Splices at tray edges	Splices in modules
A or BS	<b>S08, S16, S24</b> <b>A16, A24, 4R4</b>	<b>12, 16, 24, 24RS</b>
B6	<b>S12, S24</b> <b>A24, 6R4</b>	<b>12, 16, 24, 24RS</b>
D6		<b>36, 48, 72, A72, S96, L96, A96, 96RS</b> <b>RT</b>

**Valve for flash testing**

**V** Valve  
**N** No valve

**# Ground feedthrough lugs**

**N** No grounding  
**G** 1 ground feed-through (N/A for BS)  
**3** 3 ground feed-through lugs (N/A for A and BS)  
**6** 6 ground feed-through lugs (only for D6 size)

**Basket type**

**N** None (N/A for BS-size)  
**B** Basket for A, BS- and B6-size  
**D** Basket for D6-size  
**T** Tall basket for A or D6-size

**# Pre-installed trays**

**0-1 ... or 4** For A closures  
**0-1 ... or 6** For BS and B6 closures  
**0-1 ... or 8** For D6 closures (2)

(1) Type of splice holder

- .... SMOUV heat-shrinkable (45 mm)
- L SMOUV heat-shrinkable (60 mm)
- A ANT splice protector
- RS RECORDsplice
- R4 Ribbon 4
- RT Ribbon 12

(2) If 7 or 8 trays are required, a storage basket can not be used

#### Standard kit content:

- Do me
- Cl amp
- O -ring
- Base including gel block with trigger
- Plugs for the unused cable ports
- S ilica gel
- Al len Key
- Mounting bracket to hold the hingeable FOSC trays
- FOSC trays (quantity according to the ordering description)
- Cable attachments (quantity according to the ordering description)
- I nstallation Instructions



## 2.2 FOSC closure accessories

### 2.2.1 Cable accessories

Name	Qty/Pk	Description
FOSC-450-CA-S-1	1 pc	Cable attachment device (loose tube, central core)
FOSC-450-CA-S-10	10 pc	Cable attachment device (loose tube, central core)
FOSC-450-MULTI4/7	1 pc	Multiple cable attachment device + seal for up to 4 cables/port Cable diameter 4 to 7mm

### 2.2.2 Splicing trays & storage baskets

Splicing trays are normally ordered as part of the closure kit. If needed, trays can be ordered separately as well. For more information on splicing trays, refer to the FOSC splicing trays and storage baskets ordering guide.

### 2.2.3 Mounting kits & work stand

Consult the MOBRA ordering guide for a schematic overview and detailed descriptions.

Name	Qty/Pk	Description
FOSC-A/B-POLE-MOUNT	1 pc	Plastic bracket for mounting a A+B closure onto a pole
FOSC-A/B-UNI-MOUNT-P	1 pc	Metal bracket for mounting a A+B closure onto a pole
FOSC-A/B-UNI-MOUNT-A	1 pc	Metal bracket for mounting a A+B closure aerially
FOSC-A/B-UNI-MOUNT-R	1 pc	Metal bracket for mounting a A+B closure onto a rod
FOSC-A/B-UNI-MOUNT-W	1 pc	Metal bracket for mounting a A+B closure onto a wall
FOSC-450D-POLE-MOUNT	1 pc	Metal bracket for mounting the D6 closure onto a pole

### 2.2.4 Miscellaneous

Name	Qty/Pk	Description
FOSC-A-SHIELD-CON-KIT	1 pc	6 shield continuity wires + clamp and 5 wire connection clips

### 2.2.5 Installation kit components

Name	Qty/Pk	Description
FISTV-E7100-1005	10x 100 g	Silicagel for inside the closure, to be replaced after each re-entry
FOSC-FUNNEL-5+1-KIT	1 kit	Kit to split a central or slotted core cable into a loose tube construction (1 in, 5 out)
FOSC-FUNNEL-10+1-KIT	1 kit	Kit to split a central or slotted core cable into a loose tube construction (1 in, 10 out)

## 3 Product guide

---

### 3.1 Closure description



7N3K3194.JPG

#### Dome

The dome is made from a polymer, ribbed for extra strength. 4 different sizes are available:

FOSC-450-A

FOSC-450-BS

FOSC-450-B6

FOSC-450-D6



GCOG017.JPG

#### Base

The base houses the gel block and the foundation for the FOSC tray tower.



GCOG20G2.JPG

#### Gel block with trigger

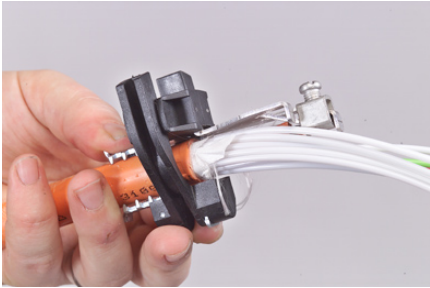
Six round cable ports are provided in a wraparound block with pre-installed gel profile. This block has to be placed in the base so that the gel can be compressed by turning the trigger. The compressed gel provides the cable sealing.



GC20G009.JPG

#### Dome to base seal

This seal consists of a mechanical clamp and a rubber O-ring.



7N3K3210.JPG



7N3K3213.JPG

#### **Cable attachment**

The cable attachment device grips the cable jacket and allows attaching the cable strength members at the strength member termination plate.

Two or six devices can be delivered in the kit (defined in the name string).



GC0G20G7.JPG

#### **Ground feed-through**

A sealed grounding feed-through bolt can be pre-mounted in the base to connect metallic components to an external ground.



7N3K4455.JPG

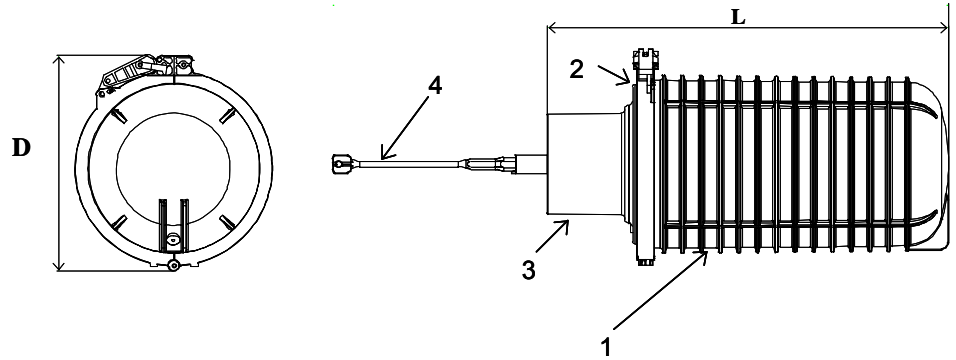
#### **Flash test valve**

This is pre-mounted in the dome if pressure access is required.

### 3.2 Closure dimensions

#### Drawing key

- 1 Dome
- 2 Clamp
- 3 Base
- 4 Trigger



Dimensions in mm	Closure size			
	A	BS	B6	D6
Total closure length (excl. gel trigger)	485	490	620	753
Closure outer diameter, including clamp	205	232	246	291

### 3.3 Closure capacity

	Closure size			
	A	BS	B6	D6
<b>Splice capacity (in # of fibers)</b>				
FOSC tray capacity	4 A-trays	6 A-trays	6 B-trays	8 D-trays
Single fiber	96	144	144	768
Ribbon 12				1152
<b>Cable ports</b>				
- # round cable ports	4	6	6	6
- cable Ø range	8-22mm (2x) 10-28mm (2x)	9-25 mm	9-25 mm	9-25 mm

### 3.4 Accessories

The following accessories are ordered separately for field installation

#### 3.4.1 Cable accessories

##### Cable attachment device

**FOSC-450-CA-S-1** (or –10 for 10 pieces)

The cable attachment device grips the cable jacket and allows attaching the cable strength members at the strength member termination plate.

Only for use in BS, B6 or D6 size.



7N3K4454.JPG



7P2P0301.JPG

#### Multiple cable attachment device

##### FOSC-450-MULTI4/7

Cable attachment + seal for up to 4 cables per port. Cable diameter: 4 to 7mm.

Includes 3 dummy rods.

Only for use in BS, B6 or D6 size.

### 3.4.2 Splicing trays and storage baskets

Splicing trays and storage baskets are normally ordered as part of the closure kit. Refer to the ordering guide of FOSC splicing trays and storage baskets for more information and ordering references.

### 3.4.3 Mounting kits & work stand

Consult the MOBRA ordering guide for a schematic overview.



7N752051.JPG

#### B/BS pole mounting kit

##### FOSC-A/B-POLE-MOUNT

Plastic accessories for mounting A, B6 or BS size closure onto a pole.



7N752056.JPG

#### B/BS pole mounting kit

##### FOSC-A/B-UNI-MOUNT-P

Accessories to be mounted onto the dome of A, B6 or BS size closure and straps to attach the closure onto a pole.



7N752055.JPG

#### B/BS aerial mounting kit

##### FOSC-A/B-UNI-MOUNT-A

Accessories to be mounted on the dome of A, B6 or BS size closure for aerial mounting on stranded cable.



7N752057.JPG

#### B/BS rod mounting kit

##### FOSC-A/B-UNI-MOUNT-R

These components are mounted onto the dome of A, B6 or BS size closure for mounting it on a rod.



7N752054.JPG

**B/BS wall mounting kit**  
**FOSC-A/B-UNI-MOUNT-W**

Accessories to be mounted onto the dome of A, B6 or BS size closure and plugs and screws to attach it to the wall.



7N752064.JPG

**D pole mounting kit**  
**FOSC-450D-POLE-MOUNT**

Metal bracket, plugs and screws to mount the D size closure onto a wall/pole.

**3.4.4 Installation kit components**



I&C034.JPG

**Silica gel**  
**FISTV-E7100-1005**

Silica gel for inside the closure, to be replaced after each re-entry.

This kit contains 10x 100g.



F4002.JPG

**Slotted core/central core termination kit**  
**FOSC-FUNNEL-X+1-KIT**

This kit transforms a slotted or central core (OD = 8 mm) into a loose tube construction.

Two different versions are available: with five 2.8 mm or ten 1.8 mm outgoing transportation tubes.

(In the product name, X = 5 or 10)

TE Connectivity products deliver a competitive advantage by meeting stringent demands for performance and reliability. Innovative TE Connectivity components and systems are used in telecommunications, electronics, transportation, infrastructure and energy networks markets throughout the world.

**Tyco Electronics Raychem bvba**  
**Diestsesteenweg 692**  
**B-3010 Kessel-Lo, Belgium**  
**Tel.: 32-16-351 011**  
**Fax: 32-16-351 697**  
**[www.te.com](http://www.te.com)**  
**[www.telecomnetworks.com](http://www.telecomnetworks.com)**

TE (logo) and TE Connectivity are trademarks of the TE Connectivity group of companies and its licensors.

While TE Connectivity and its affiliates referenced herein have made every reasonable effort to ensure the accuracy of the information contained in this catalog, TE Connectivity cannot assure that this information is error free. For this reason, TE Connectivity does not make any representation or offer any guarantee that such information is accurate, correct, reliable or current. TE Connectivity reserves the right to make any adjustments to the information at any time. TE Connectivity expressly disclaims any implied warranty regarding the information contained herein, including, but not limited to, the implied warranties of merchantability or fitness for a particular purpose. TE Connectivity' only obligations are those stated in TE Connectivity' Standard Terms and Conditions of Sale. TE Connectivity will in no case be liable for any incidental, indirect or consequential damages arising from or in connection with, including, but not limited to, the sale, resale, use or misuse of its products. Users should rely on their own judgment to evaluate the suitability of a product for a certain purpose and test each product for its intended application.