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

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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.
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**

- **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 (only for A size)
  - 4: 4 cable attachments included (only for B size)
  - 6: 6 cable attachments included

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

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

- **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)

**Standard kit content:**

- Dome
- Clamp
- O-ring
- Base including gel block with trigger
- Plugs for the unused cable ports
- Silica gel
- Allen 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)
- Installation Instructions
2.2 FOSC closure accessories

2.2.1 Cable accessories

<table>
<thead>
<tr>
<th>Name</th>
<th>Qty/Pk</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOSC-450-CA-S-1</td>
<td>1 pc</td>
<td>Cable attachment device (loose tube, central core)</td>
</tr>
<tr>
<td>FOSC-450-CA-S-10</td>
<td>10 pc</td>
<td>Cable attachment device (loose tube, central core)</td>
</tr>
<tr>
<td>FOSC-450-MULTI/4/7</td>
<td>1 pc</td>
<td>Multiple cable attachment device + seal for up to 4 cables/port</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cable diameter 4 to 7mm</td>
</tr>
</tbody>
</table>

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.

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

2.2.4 Miscellaneous

<table>
<thead>
<tr>
<th>Name</th>
<th>Qty/Pk</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOSC-A-SHIELD-CON-KIT</td>
<td>1 pc</td>
<td>6 shield continuity wires + clamp and 5 wire connection clips</td>
</tr>
</tbody>
</table>

2.2.5 Installation kit components

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

3.1 Closure description

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

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

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.

Dome to base seal
This seal consists of a mechanical clamp and a rubber O-ring.
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).

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

Flash test valve
This is pre-mounted in the dome if pressure access is required.
3.2 Closure dimensions

<table>
<thead>
<tr>
<th>Dimensions in mm</th>
<th>Closure size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
</tr>
<tr>
<td>Total closure length (excl. gel trigger)</td>
<td>485</td>
</tr>
<tr>
<td>Closure outer diameter, including clamp</td>
<td>205</td>
</tr>
</tbody>
</table>

3.3 Closure capacity

<table>
<thead>
<tr>
<th>Closure size</th>
<th>A</th>
<th>BS</th>
<th>B6</th>
<th>D6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Splice capacity (in # of fibers)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FOSC tray capacity</td>
<td>4 A-trays</td>
<td>6 A-trays</td>
<td>6 B-trays</td>
<td>8 D-trays</td>
</tr>
<tr>
<td>Single fiber</td>
<td>96</td>
<td>144</td>
<td>144</td>
<td>768</td>
</tr>
<tr>
<td>Ribbon 12</td>
<td></td>
<td></td>
<td></td>
<td>1152</td>
</tr>
</tbody>
</table>

Cable ports

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>BS</th>
<th>B6</th>
<th>D6</th>
</tr>
</thead>
<tbody>
<tr>
<td>- # round cable ports</td>
<td>4</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>- cable ∅ range</td>
<td>8-22mm (2x)</td>
<td>9-25 mm</td>
<td>9-25 mm</td>
<td>9-25 mm</td>
</tr>
<tr>
<td>10-28mm (2x)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.
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.

B/BS pole mounting kit
FOSC-A/B-POLE-MOUNT
Plastic accessories for mounting A, B6 or BS size closure onto a pole.

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.

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.

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.
3.4.4 Installation kit components

Silica gel
FISTV-E7100-1005
Silica gel for inside the closure, to be replaced after each re-entry. This kit contains 10x 100g.

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)