

## Universal Metallic Joint Closure XOK

**Prysmian Part Numbers: See page 3**



The XOK universal joint closures are designed to provide water and pressure tight environmental protection for optical fibres and optical fibre splices regardless of the cable design. Application ranges from aerial, duct to buried installations. The closure has anchoring points for strength members and facilities for earthing of metallic elements. The splice organizer trays offer holders for heat shrink splice protectors and sufficient space for storage of spare fibres. The closure is easily assembled and re-entered.

The closure is available in two sizes: XOK 103 series up to 192 splices and XOK 107 series up to 336 splices. By using extension collars and or splice trays for fibre ribbons the splicing capacity can be increased up to 1000 splices.

The closure is available in seven basic configurations with two, three or four cable entrances. XOK A3/A4 branch joint closures and extension collars for more cable outlets are also available. Closures can be delivered as complete installation packages up to 192 fibres.

## Features and Benefits

- Universal closure for direct buried, hand hole/manhole, and pole/tower (ADSS, OPGW) installation.
- Acid proof stainless steel housing for harsh and corrosive environments without any additional protection.
- High crush and impact resistance.
- Maximum capacity up to 192 splices (XOK 103 series) and 336 splices (XOK 107 series). By extension collars or splice trays for fibre ribbons the capacity can be increased up to 1000 splices.
- A number of configurations with round and oval cable entry ports.
- A number of configurations suitable for window-cut applications.
- Heat shrink or mechanical type cable entry port seals provide excellent water tightness and high cable pull out strength.
- Extension collars for extended capacity available.
- Non craft sensitive and reliable.
- Water tight seal to IP68.

### Kit Contents

#### Standard:

- Closure
- Installation plate
- Closure Seal
- Heat Shrink Tubes
- Earthing and fixing materials

#### Complete packages:

- Standard plus:
- Splice Trays
- Splice Protectors
- Cable entry port materials

### Additional Items

- Splice Trays
- Splice Protectors
- Gasket
- Grounding Braid
- Mechanical Seals
- Extension Collars / Cover




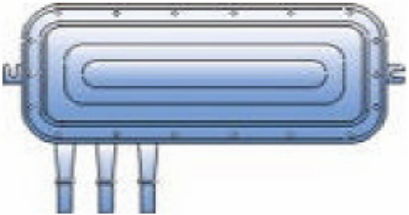
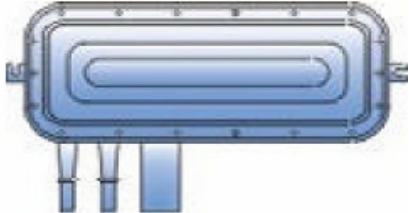
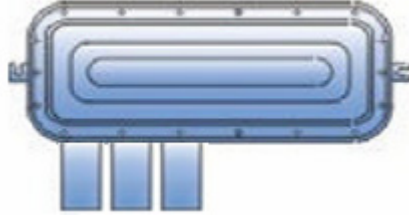

## Technical Data

- Dimensions (excl. inlet tubes):
  - XOK 103 series: 560 x 230 x 100 mm
  - XOK 107 series: 560 x 230 x 140 mm
  - XOK A3 and A4: 560 x 230 x 140 mm
- Inner Diameter of Entry Ports:
  - XOK 103 series: round port 20 mm, oval port 58 x 28 mm
  - XOK 107 series: round port 27 mm, oval port 58 x 28 mm
  - XOK A3 and A4: oval port 58 x 28 mm
- Material:
  - Closure: Acid Proof Stainless Steel (AISI 316) 1.5 mm
  - Closure Seal: Chloroprene Rubber
- Splice Tray Capacity
  - XOK 103 series: 4 trays XOKP 1024/48 with 48 splices each (192 splices)
  - XOK 107 series: 7 trays XOKP 1024/48 with 48 splices each (336 splices)
  - XOK A3 and A4: 4 trays XOKP 1024/48 with 48 splices each (192 splices)
- Temperature Variation
  - IEC 60068-2-14; 2 cycles -30°C to +80°C:  $\Delta\alpha < 0.1$  dB@1550 nm
- Damp Heat
  - IEC 60068-2-14; + 60°C, RV 93%, 16 h:  $\Delta\alpha < 0.1$  dB@1550 nm
- Climatic Withstand Test:
  - IEC 60068-2-14; heat +85°C; RV 93%;16 h:  $\Delta\alpha < 0.1$  dB@1550 nm
  - IEC 60068-2-14; cold -30°C; 16 h:  $\Delta\alpha < 0.1$  dB@1550 nm
- Corrosion Test A Sulphur Dioxide: EN ISO 7384, ISO 3231; +40°C; RV saturated; SO<sub>2</sub> 0,067% by volume; 3x 120 h
- Corrosion Test B Salty Mist: IEC 60068-2-52; +35°C; 1000 h
- Temperature Range:
  - Transport and Storage -40°C to +50°C
  - Installation -10°C to +50°C
  - Operation -45°C to +80°C
- Fibre Bending Radius (mm)
  - Minimum 30 mm
- Cable Retention
  - IEC 60794-1-E1: 1000 N
- Water Immersion
  - IP68 (No water ingress at 1 meter water pressure for 7 days)
- Impact Resistance
  - IEC 60794-1-E4: 30 Nm @ 20 °C, radius 300 mm
- Crush Resistance
  - 1000 N @ 20 °C on top surface of the box
- Torsion Resistance
  - IEC 60794-1-E7: 1000 mm length,  $\pm 180^\circ$ :  $\Delta\alpha < 0.1$  dB@1550 nm
- Drop
  - Drop height 5 meters on concrete:  $\Delta\alpha < 0.1$  dB@1550 nm
- Application Area
  - Group 1&2 in accordance with EN 124, 30 cm below surface level

## Part Numbers

### Closures

### Prysmian Part Numbers

XOK 1030		<b>XJTSC00830</b> <b>XJTSC00839</b> <b>XJTSC00840</b> <b>XJTSC00842</b>	XOK 1030 XOK 1030-24P Kit 24 splices XOK 1030-48P Kit 48 splices XOK 1030-96P Kit 96 splices
XOK 10304 XOK 10704		<b>XJTSC00831</b> <b>XJTSC00843</b> <b>XJTSC00844</b> <b>XJTSC00845</b> <b>XJTSC00835</b>	XOK 10304 XOK 10304-24P Kit 24 splices XOK 10304-48P Kit 48 splices XOK 10304-96P Kit 96 splices XOK 10704
XOK 10305 XOK 10705		<b>XJTSC00832</b> <b>XJTSC00846</b> <b>XJTSC00847</b> <b>XJTSC00848</b> <b>XJTSC00849</b> <b>XJTSC00836</b>	XOK 10305 XOK 10305-24P Kit 24 splices XOK 10305-48P Kit 48 splices XOK 10305-72P Kit 72 splices XOK 10305-96P Kit 96 splices XOK 10705
XOK 10307 XOK 10707		<b>XJTSC00833</b> <b>XJTSC00850</b> <b>XJTSC00851</b> <b>XJTSC00852</b> <b>XJTSC00837</b> <b>XJTSC01064</b>	XOK 10307 XOK 10307-24P Kit 24 splices XOK 10307-48P Kit 48 splices XOK 10307-96P Kit 96 splices XOK 10707 XOK 10707-192P Kit 192 splices
XOK 10307A XOK 10707A		<b>XJTSC00834</b> <b>XJTSC00853</b> <b>XJTSC00854</b> <b>XJTSC00855</b> <b>XJTSC00838</b> <b>XJTSC01065</b>	XOK 10307A XOK 10307A-24P Kit 24 splices XOK 10307A-48P Kit 48 splices XOK 10307A-96P Kit 96 splices XOK 10707A XOK 10707A-192P Kit 192 splices
XOK A3		<b>XJTSC00919</b>	XOK A3
XOK A4		<b>XJTSC01247</b>	XOK A4

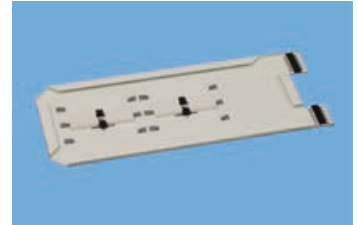
Kits (type extensions -24P, -48P, -72P, -96P and -192P) include splice trays XOKP 1024/48, heat shrink 60 mm splice protectors FT 290 and cable entry port materials SPA-U/1P for all ports

## Additional Items

### Splice Tray XOKP 1024/48

Splice tray for 48 heat shrink splice protectors covered by transparent acrylate cover. Splice tray is powder coated steel and splice holders silicone rubber. Dimensions are 385 x 157 x 10 mm (l x w x d)

**Prysmian Part No. XJTSC00870** XOKP 1024/48 Splice tray  
**XJTSC00914** XOKP 1024 Splice tray for ribbon fibres



### Splice Protector FT 290

Heat shrink splice protector for single fibre with dimensions 61 mm x 2.6 mm (diameter). Splice protectors are packaged in 100 pcs packs.

**Prysmian Part No. XKTSC00540** FT 290 Fibre protection sleeve 61 mm



### Cable Entry Protection Tube Set SPA-U

Protection tube set for branching 12...96 optical fibres to max four protection tubes of central tube type cables. Set consists branching units and separate protection tubes with length of 1.2 m and pulling wire. Set contains materials for 10 cable ends.

**Prysmian Part No. XJTSC00871** SPA-U kit for central tube cables



### Rubber Gasket

Rubber gasket when original gasket has to be changed.

**Prysmian Part No. XJTSC00863** XOKO 1002 Rubber gasket



### Grounding Braid for Steel Tube Fibre Unit

For making galvanic connection between metallic grounding bar in the joint closure and coated steel tube fibre unit. Can be used with SPA-U kit for central tube cables. Contains two tinned copper braids with the length of 45 mm.

**Prysmian Part No. XEXSC01921** Grounding Braid 2 x 45 mm



## Additional Items continued

### Entrance Materials for Cable with Metallic Wire Armouring

Supplementary kit for fixing metallic wires outside the joint closure over the round entrance tubes and protecting the cable core. Kit contains materials for two cable ends. Can be used when metallic wires are bigger like in OPGW or in heavy armoured direct burial or underwater cable.

Kit XOKE 1032 contains 10 steel ties and 2 heat shrink tubes 35/12 mm.  
Kit VXOKE 1032 contains 10 steel ties and 2 heat-shrinkable tubes 55/16 mm.

**Prysmian Part No. XJTSC00866** XOKE 1032 kit for armoured cables  
**XJTSC00868** VXOKE 1032 kit for OPGW cables

XOKE 1032



VXOKE 1032



### Mechanical Seals for Oval Entry Ports

Re-openable mechanical seals for oval entry ports has three different versions:

XOKO 2/20 for two max. diameter 20 mm cables  
XOKO 4/15 for four max. diameter 15 mm cables  
XOKO 6/10 for six max. diameter 10 mm cables .

**Prysmian Part No. XJTSC00930** XOKO 2/20 cable sealing  
**XJTSC00933** XOKO 4/15 cable sealing  
**XJTSC00929** XOKO 6/10 cable sealing



### Pole Mounts for Wooden Poles and Towers

Used for mounting the closure to a wooden pole or a metallic tower in a power line.

**Prysmian Part No. XJTSC00865** XOKO 1033 Pole mount (for wooden pole)  
**XJTSC00866** VXOKO 1133 Pole mount (for towers)

XOK 1033



VXOK 1133



## Additional Items

### XOK Extension Collars 100mm

Extension collars are designed to add entries for branching cables or increase splicing capacity of the closures.

Material: Acid-proof stainless steel (AISI 316) 1.5 mm  
 Dimensions: 230 x 560 x 100 mm (W x L x H), excluding the inlet tubes.  
 Weight: Approx. 3,7 kg

### Prysmian Part Numbers

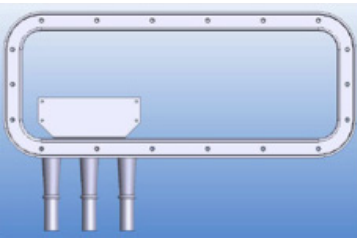
XOK 10305X



**XJTSC00856** XOK 10305X Extension Collar

Number and inner diameter of inlet tubes 3 x  $\varnothing$  20mm  
 Includes heat rubber gasket, shrink tubes, earthing and fixing materials

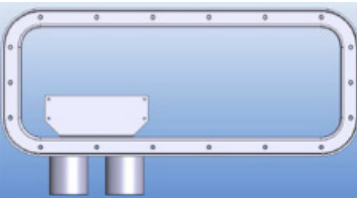
XOK 10307X



**XJTSC00857** XOK 10307X Extension Collar

Number and inner diameter of inlet tubes 3 x  $\varnothing$  20mm  
 Includes heat rubber gasket, shrink tubes, earthing and fixing materials

XOK A3X



**XJTSC01177** XOK A3X Extension Collar

Number and inner diameter of inlet tubes 2 x oval 28x58mm. Includes heat rubber gasket, earthing and fixing materials

XOK X



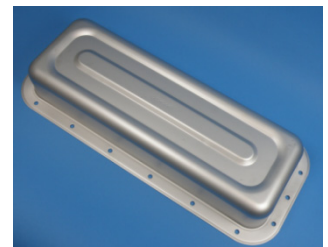
**XJTSC01178** XOK X Extension Collar

Includes rubber gasket

### Higher Cover for the XOK Joint Closure

XOK 103-series joint closures can be expanded by using higher cover. Same cover is used in XOK 107-series and XOK A3/A4 closures. Contains longer bolts for adding three extra splice strays. Cover height is 70 mm.

**Prysmian Part No. XJTSC00864** XOKO 1005 High cover



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