

## Metallic joint closure XOK 10307MEWE units for jointing on land Underwater Cables with Steel Wire Armouring and Steel Tube construction

**Prysmian Part Number:** *See the page no. 3*



The Joint Closure XOK 10307 with selected accessories is designed to be used for jointing on land Underwater Cables or similar cables with steel wire armouring and with Steel Tube cable core construction. All items can be ordered separately or as complete units.

### Features and Benefits

- Metallic closure for jointing one or two layer or steel wire armoured optical cables with Steel Tube construction.
- 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.
- Heat shrink type cable entry port seals provide excellent water tightness and high cable pull out strength.
- Non craft sensitive and reliable.
- Water tight seal to IP68.

#### Unit Contents

##### Basic configuration:

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

##### According to unit capacity:

- Splice Trays
- Splice Protectors
- Kit for Metallic Wires
- Supplementary Kit for Fibres
- Grounding Braid

##### Additional Items

- Splice Trays
- Splice Protectors
- Kit for Metallic Wires
- Supplementary Kit for Fibres
- Grounding Braid

## Technical Data

• Dimensions (excl. inlet tubes)	560x230x100 mm
• Inner diameter cable entry ports	20 mm
• Number of entry ports	3
• Weight	about 10 kg
• Material	Closure: Acid proof stainless steel (AISI 316) 1.5 mm Closure seal: Chloroprene rubber
• Splice tray capacity	4 trays XOKP 1024/48 with 48 splices each (max 192 splices)
• Temperature variation	IEC 60068-2-14; 2 cycles -30°C to +80°C: $\Delta\alpha < 0.1 \text{ dB@1550 nm}$
• Damp heat	IEC 60068-2-14; + 60°C, RV 93%, 16 h: $\Delta\alpha < 0.1 \text{ dB@1550 nm}$
• Climatic withstand test	IEC 60068-2-14; heat +85°C; RV 93%;16 h: $\Delta\alpha < 0.1 \text{ dB@1550 nm}$ IEC 60068-2-14; cold -30°C; 16 h: $\Delta\alpha < 0.1 \text{ dB@1550 nm}$
• 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, $\pm 180^\circ$ : $\Delta\alpha < 0.1 \text{ dB@1550 nm}$
• Drop	Drop height 5 meters on concrete: $\Delta\alpha < 0.1 \text{ dB@1550 nm}$
• Application area	Group 1&2 in accordance with EN 124, 30 cm below surface level

## Ordering codes and unit contents

### **Prysmian Part No. XJTSC01743 XOK 10307MEWE-48 Joint Closure Unit**

For max 48 fibre splices and for three optical cables of which two with steel wire armoured:

XJTSC00833	XOK 10307 FO Joint closure box	1 pce
XJTSC00870	XOKP 1024/48 Splice tray	2 pces
XJTSC00868	VXOKE 1032 kit for OPGW	1 pce
XEXSC01921	Grounding Braid 2 x 45 mm	1 pce
XJTSC00875	VSPA-U kit for SpiralSpace OPGW	1 pce
XKTSC00540	FT 290 Fibre protection sleeve 61 mm	48 pces

### **Prysmian Part No. XJTSC01744 VXOK 10307MEWE-96 Joint Closure Unit**

For max 96 fibre splices and for three steel wire armoured optical cables :

XJTSC00833	XOK 10307 FO Joint closure box	1 pce
XJTSC00870	XOKP 1024/48 Splice tray	4 pces
XJTSC00868	VXOKE 1032 kit for OPGW	2 pces
XEXSC01921	Grounding Braid 2 x 45 mm	2 pces
XJTSC00875	VSPA-U kit for SpiralSpace OPGW	2 pces
XKTSC00540	FT 290 Fibre protection sleeve 61 mm	96 pces

## Separately ordered or Additional Items

### XOK-10307 Joint Closure

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.



- Joint closure XOK 10307 1 pc

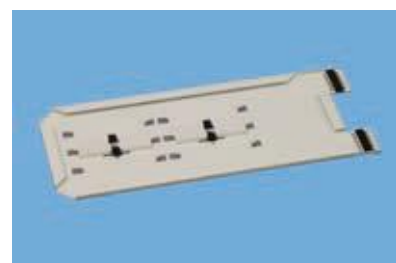
This basic configuration includes:

- Closure
- Installation plate
- Closure seal
- Earthing and fixing materials
- Heat shrink caps for unused entrance tubes

**Prysmian Part Number: XJTSC00833**

### 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

### 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

## Separately ordered or Additional Items

### 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 VXOKE 1032 contains 10 steel ties and 2 heat-shrinkable tubes 55/16 mm.

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



### VSPA-U OPGW supplementary kit

Supplementary kit for protecting and branching fibres for the joints of OPGWs (Optical Ground Wire) with Spiral Space® core or steel tube constructions. Kit contains materials for two cables.

**Prysmian Part No. XJTSC00875** VSPA-U kit for SpiralSpace OPGW



### Grounding Braid 2 x 45 mm

Grounding braid for steel tube core grounding. Materials for two cables.

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



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