

## Metallic joint closure VXOK 10... units

for OPGWs with aluminium or plastic central tube, ADSS and for optical cables

**Prysmian Part Number:** See the page no. 3...6



The VXOK 10... joint closure units are designed to be used for jointing optical ground wires (OPGW) with aluminium or plastic central tube construction, ADSS and optical cables. Unit includes all the necessary parts for jointing the cables.

### Features and Benefits

- Metallic closure units for OPGW constructions with aluminium or plastic central tube and also for ADSS and optical cables.
- 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. By extension collar/higher cover the capacity can be increased.
- 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 (Rubber Gasket)
- Heat Shrink Tubes
- Earthing and fixing materials
- Pole mount

**According to unit capacity:**

- Splice Trays
- Splice Protectors
- Cable entry port materials

### Additional Items

- Splice Trays
- Splice Protectors
- Gasket
- Extension Collars / Cover
- Pole Mount
- Kit for Metallic Wires

## Technical Data

• Dimensions (excl. inlet tubes)	560x230x100 mm (L x W x H)
• Inner diameter cable entry ports	max. 20 mm
• Number of entry ports	2, 3 or 4
• 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 max capacity of 48 splices/tray
• 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

## Ordering codes

### Closures

### Prysmian Part Numbers

VXOK 1030



<b>XJTSC00898</b>	VXOK 1030-24	Unit 24 splices
<b>XJTSC00899</b>	VXOK 1030-48	Unit 48 splices
<b>XJTSC00900</b>	VXOK 1030-72	Unit 72 splices
<b>XJTSC00901</b>	VXOK 1030-96	Unit 96 splices

VXOK 10304



<b>XJTSC00902</b>	VXOK 10304-24	Unit 24 splices
<b>XJTSC00903</b>	VXOK 10304-48	Unit 48 splices
<b>XJTSC00904</b>	VXOK 10304-72	Unit 72 splices
<b>XJTSC00905</b>	VXOK 10304-96	Unit 96 splices

VXOK 10305



<b>XJTSC00906</b>	VXOK 10305-24	Unit 24 splices
<b>XJTSC00907</b>	VXOK 10305-48	Unit 48 splices
<b>XJTSC00908</b>	VXOK 10305-72	Unit 72 splices
<b>XJTSC00909</b>	VXOK 10305-96	Unit 96 splices
<b>XJTSC01586</b>	VXOK 10305-144	Unit 144 splices

The units are based on joint closure types XOK 1030, XOK 10304, XOK 10305 and XOK 10705.

Units include all necessary parts for jointing the cables. See the contents on pages 4...6.

For the units for OPGWs with central or stranded steel tubes see NXOK units in related datasheets.

## Ordering codes and unit contents

### **Prysmian Part No. XJTSC00898 VXOK 1030-24 JOINT CLOSURE UNIT**

For max 24 fibres:

Joint closure XOK 1030	1 pce
Splice tray XOKP 1024/48	1 pce
Spiral Space® installation kit VSPA-U	2 pces
Fibre protection sleeve FT 290	24 pces
Supplementary kit for ground wires VXOKE 1032	2 pces
Pole mount VXOKO 1133	1 pce
Central Element Clamp XOKO 1021	1 pce

### **Prysmian Part No. XJTSC00899 VXOK 1030-48 JOINT CLOSURE UNIT**

For max 48 fibres:

Joint closure XOK 1030	1 pce
Splice tray XOKP 1024/48	2 pces
Spiral Space® installation kit VSPA-U	2 pces
Fibre protection sleeve FT 290	48 pces
Supplementary kit for ground wires VXOKE 1032	2 pces
Pole mount VXOKO 1133	1 pce
Central Element Clamp XOKO 1021	1 pce

### **Prysmian Part No. XJTSC00900 VXOK 1030-72 JOINT CLOSURE UNIT**

For max 72 fibres:

Joint closure XOK 1030	1 pce
Splice tray XOKP 1024/48	3 pces
Spiral Space® installation kit VSPA-U	2 pces
Fibre protection sleeve FT 290	72 pces
Supplementary kit for ground wires VXOKE 1032	2 pces
Pole mount VXOKO 1133	1 pce
Central Element Clamp XOKO 1021	1 pce

### **Prysmian Part No. XJTSC00901 VXOK 1030-96 JOINT CLOSURE UNIT**

For max 96 fibres:

Joint closure XOK 1030	1 pce
Splice tray XOKP 1024/48	4 pces
Spiral Space® installation kit VSPA-U	2 pces
Fibre protection sleeve FT 290	96 pces
Supplementary kit for ground wires VXOKE 1032	2 pces
Pole mount VXOKO 1133	1 pce
Central Element Clamp XOKO 1021	1 pce

## Ordering codes and unit contents

### **Prysmian Part No. XJTSC00902 VXOK 10304-24 JOINT CLOSURE UNIT**

For max 24 fibres :

Joint closure XOK 10304	1 pce
Splice tray XOKP 1024/48	1 pce
Spiral Space® installation kit VSPA-U	2 pces
Fibre protection sleeve FT 290	24 pces
Supplementary kit for ground wires VXOKE 1032	2 pces
Pole mount VXOKO 1133	1 pce
Central Element Clamp XOKO 1021	2 pces

### **Prysmian Part No. XJTSC00903 VXOK 10304-48 JOINT CLOSURE UNIT**

For max 48 fibres :

Joint closure XOK 10304	1 pce
Splice tray XOKP 1024/48	2 pces
Spiral Space® installation kit VSPA-U	2 pces
Fibre protection sleeve FT 290	48 pces
Supplementary kit for ground wires VXOKE 1032	2 pces
Pole mount VXOKO 1133	1 pce
Central Element Clamp XOKO 1021	2 pces

### **Prysmian Part No. XJTSC00904 VXOK 10304-72 JOINT CLOSURE UNIT**

For max 72 fibres :

Joint closure XOK 10304	1 pce
Splice tray XOKP 1024/48	3 pces
Spiral Space® installation kit VSPA-U	2 pces
Fibre protection sleeve FT 290	72 pces
Supplementary kit for ground wires VXOKE 1032	2 pces
Pole mount VXOKO 1133	1 pce
Central Element Clamp XOKO 1021	2 pces

### **Prysmian Part No. XJTSC00905 VXOK 10304-96 JOINT CLOSURE UNIT**

For max 96 fibres :

Joint closure XOK 10304	1 pce
Splice tray XOKP 1024/48	4 pces
Spiral Space® installation kit VSPA-U	2 pces
Fibre protection sleeve FT 290	96 pces
Supplementary kit for ground wires VXOKE 1032	2 pces
Pole mount VXOKO 1133	1 pce
Central Element Clamp XOKO 1021	2 pces

## Ordering codes and unit contents

### **Prysmian Part No. XJTSC00906**    **VXOK 10305-24 JOINT CLOSURE UNIT**

For max 24 fibres:

Joint closure XOK 10305	1 pce
Splice tray XOKP 1024/48	1 pce
Spiral Space® installation kit VSPA-U	2 pces
Fibre protection sleeve FT 290	24 pces
Supplementary kit for ground wires VXOKE 1032	2 pces
Pole mount VXOKO 1133	1 pce
Central Element Clamp XOKO 1021	1 pce

### **Prysmian Part No. XJTSC00907**    **VXOK 10305-48 JOINT CLOSURE UNIT**

For max 48 fibres:

Joint closure XOK 10305	1 pce
Splice tray XOKP 1024/48	2 pces
Spiral Space® installation kit VSPA-U	2 pces
Fibre protection sleeve FT 290	48 pces
Supplementary kit for ground wires VXOKE 1032	2 pces
Pole mount VXOKO 1133	1 pce
Central Element Clamp XOKO 1021	1 pce

### **Prysmian Part No. XJTSC00908**    **VXOK 10305-72 JOINT CLOSURE UNIT**

For max 72 fibres:

Joint closure XOK 10305	1 pce
Splice tray XOKP 1024/48	3 pces
Spiral Space® installation kit VSPA-U	2 pces
Fibre protection sleeve FT 290	72 pces
Supplementary kit for ground wires VXOKE 1032	2 pces
Pole mount VXOKO 1133	1 pce
Central Element Clamp XOKO 1021	1 pce

### **Prysmian Part No. XJTSC00909**    **VXOK 10305-96 JOINT CLOSURE UNIT**

For max 96 fibres:

Joint closure XOK 10305	1 pce
Splice tray XOKP 1024/48	4 pces
Spiral Space® installation kit VSPA-U	2 pces
Fibre protection sleeve FT 290	96 pces
Supplementary kit for ground wires VXOKE 1032	2 pces
Pole mount VXOKO 1133	1 pce
Central Element Clamp XOKO 1021	1 pce

### **Prysmian Part No. XJTSC01586**    **VXOK 10305-144 JOINT CLOSURE UNIT**

For max 144 fibres:

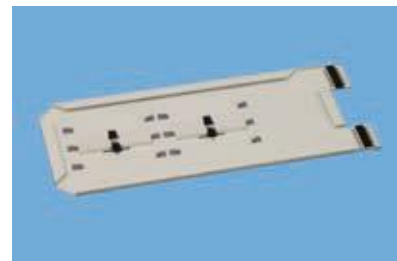
Joint closure XOK 10305	1 pce
Splice tray XOKP 1024/48	4 pces
Spiral Space® installation kit VSPA-U	2 pces
Fibre protection sleeve FT 290	144 pces
Supplementary kit for ground wires VXOKE 1032	2 pces
Pole mount VXOKO 1133	1 pce
Central Element Clamp XOKO 1021	1 pce

## 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



### 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



### Rubber gasket

Rubber gasket when original gasket has to be changed.

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



### Pole mounts for towers

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

**Prysmian Part No. XJTSC00866** VXOKO 1133 Pole mount (for towers)



### Higher cover for the XOK joint closure

The capacity of VXOK 1030... joint closures can be expanded by using higher cover. Cover height is 70 mm.

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



## 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 optical fibres in the joints of OPGW (Optical Ground Wire) with Aluminium tube, Spiral Space core or steel tube constructions. Kit contains materials for two cables.

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



### XOK Extension collars 100mm

XOK extension collars are designed to add entries for branching cables or add splicing capacity of XOK joint 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

**XJTSC00856** XOK 10305X Extension collar

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

XOK 10305X



**XJTSC01178** XOK X Extension collar

Includes rubber gasket

XOK X



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