

Metallic joint closure VXOK 10305 units

for OPGW with Spiral Space® or Aluminium Tube and for optical cables

Prysmian Part Number: See the page no. 3



The Joint closure units VXOK 10305-24...144 are designed to be used for jointing two optical ground wires (OPGW) with Spiral Space® or Aluminium Tube construction or OPGW and optical cables (central tube, stranded loose tube). Kits include all the necessary parts for jointing the cables.

Features and Benefits

- Metallic closure units for OPGW and OPGW/FOC installations.
- Acid proof stainless steel housing for harsh and corrosive environments without any additional protection.
- High crush and impact resistance.
- Maximum capacity up to 144 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
- Heat Shrink Tubes
- Earthing and fixing materials

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)	560x230x140 mm (L x W x H)
• 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 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 ₂ 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 and unit contents

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

For max 24 fibres:

Joint closure XOK 10305	1 pce
Splice tray XOKP 1024/48	1 pces
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 FO 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. XJTSC00909 VXOK 10305-96F O 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 FO JOINT CLOSURE UNIT

For max 144 fibres:

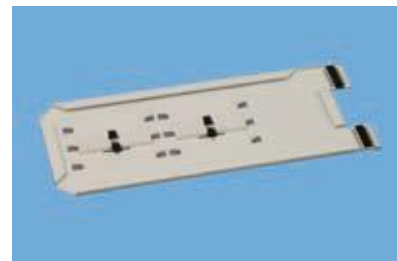
Joint closure XOK 10305	1 pce
Splice tray XOKP 1024/48	4 pces
Spiral Space® installation kit VSPA-U	2 pces
Fibre protection sleeve FT 290	144 pces
Supplementary kit for ground wires VXOKE 1032	2 pces
Pole mount VXOKO 1133	1 pce
Central Element Clamp XOKO 1021	1 pce

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 10305 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

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 heat rubber gasket, shrink tubes, earthing and fixing materials

XOK 10305X



XJTSC01178 XOK X Extension collar

Includes rubber gasket

XOK X



Please contact your local sales office listed on www.prysmiangroup.com