Modular Jointing System – MJS-OPGW

Prysmian Part Number: ***See below***

The OPGW Modular Jointing System (MJS-OPGW) is a stainless steel joint for use within the external optical fibre network. It is primarily designed for use with OPGW cables. The specific modular design allows application with all the different network situations by simply adding and using the appropriate kits.
The modular tray system is designed for positive fibre management for Single Circuit Management (SCM) and Single Element Management (SEM) for a wide range of applications including feeder and distribution connections within networks

Features and Benefits

- The joint can be used for straight, branch spur or tee applications.
- Stainless Steel Base and Cap available in two sizes.
- The closure base has either 4 circular entry ports (2 x OPGW cable and up to 2 x Branch Cables) or 6 circular entry ports (2 x OPGW and up to 4 branch cables).
- Insulated cable inlet for OPGW cables.
- For each type of trays, splice holders are available for crimp, heat shrinkable or mechanical (for SEM only) splice protectors.
- All fibres are positively managed to maintain a 30mm minimum bend radius.
- Splice trays hinge upwards individually, allowing full access to spliced fibres without disturbance to live fibres in adjacent trays.
- Splitter modules can be mounted within the joint and can be supplied pre-assembled. Any combination of splitters between 1x2 to 1x16 can be accommodated. Please contact Prysmian for splitter part numbers.
- Cables up to 22 mm in diameter can be installed into each port.
- The joint is quickly re-enterable and the sealing clamp can be locked.
- **With Optical Ground Wire (OPGW):** - The joint can be used for straight, branch, spur, tee or terminal applications

Kit Contents

The MJS-OPGW is supplied as a closure only (i.e. the base, cap and support framework).

Cable entries, splice trays and accessories are ordered separately. Please see the following pages.

Additional Items

- Cable entry kits
- Splicing Modules
- Splice Protectors
- Mounting Bracket

Part Numbers

- **XJTSC01333** Short Cap
- **XJTSC00236** Long Cap

Technical Data

- Number of cable ports: 4 circular (2 x OPGW cable + 2 branch cables) Short Cap
  6 circular (2 x OPGW cable + 4 branch cables) Long Cap
- Maximum cable diameter (mm): Ø22 (Ø14.6mm OPGW Cable, Ø22 for Dielectric Cables)
- Required space envelope (mm): (l) 560 x (d) 250 Short Cap
  (l) 600 x (d) 250 Long Cap

Maximum capacity:

Short Cap	Single Element Management	Single Circuit Management	Ribbon Fibre management
Maximum No of trays	20 trays (10+10)	32 trays (16+16)	20 trays (10+10)
Maximum splices	360f	64f (2 per tray), 128 (4 per tray)	80f (1 ribbon per tray) 160f (2 ribbons per tray)

Long Cap	Single Element Management	Single Circuit Management	Ribbon Fibre management
Maximum No of trays	34 trays (17 + 17)	56 trays (28 + 28)	34 trays (17 + 17)
Maximum splices	408f	112f (2 per tray) 224f (4 per tray)	136f (1 ribbon per tray) 272f (2 fibres per tray)

- Operating temperature: -30°C to +80°C (5 to 95% RH)
- Material:
  - Cap: Stainless Steel
  - Base: Stainless Steel
  - Splice trays: PC-ABS
- Testing:
  - Closure sealing: T.I. 733-1A
  - Dry heat: IEC 60068-1
  - Change of temp.: IEC 60068-2-14
  - Optical: IEC 60068-1
  - Damp heat: T.I. 733-1°
  - Vibration: CENELEC EN 61300-2-1
  - Shock: T.I. 733-1A

Logistics

- Packing Dimensions (mm): (l) 750
  (w) 330
  (d) 330
- Packed Weight fully equipped (kg): 30
- Installation Instructions included

Cable Entry Kits

Used to install cables into a Modular Jointing System. One kit contains all of the components required to prepare, install and route the fibres of one cable to the splice trays. Kits are available for installing both OPGW and Dielectric cables into the circular port.

Prysmian Part No.

OPGW Entry Port with Insulator -	XJTSC01335	Cable diameters - 7.0 to 10.1 mm OD
OPGW Entry Port with Insulator -	XJTSC00237	Cable diameters – 10.2 to 13.1 mm OD
OPGW Entry Port with Insulator -	XJTSC00238	Cable diameters – 13.2 to 16.1 mm OD
OPGW Entry Port with Insulator -	XJTSC01336	Cable diameters – 16.2 to 19.1 mm OD
OPGW Entry Port with Insulator -	XJTSC01337	Cable diameters – 19.2 to 22.1 mm OD
OPGW Entry Port	XJTSC01338	Cable diameters - 7.0 to 10.1 mm OD
OPGW Entry Port	XJTSC00239	Cable diameters – 10.2 to 13.1 mm OD
OPGW Entry Port	XJTSC00240	Cable diameters – 13.2 to 16.1 mm OD
OPGW Entry Port	XJTSC01339	Cable diameters – 16.2 to 19.1 mm OD
OPGW Entry Port	XJTSC01340	Cable diameters – 19.2 to 22.1 mm OD
Dielectric Cable Entry Port	XJTSC01341	Cable diameters – 10.0 to 20.0 mm OD

Additional Items

Heat Shrink Splice Protectors

Heat shrink splice protectors are used to protect the fibre splice. They are 2.4mm in diameter and 45mm in length.

Prysmian Part No. - XPESC00031 (pack of 50)

MJS – OPGW Mounting Brackets

The MJS-OPGW Mounting Bracket allows an MJS-OPGW Joint to be mounted in a variety of different methods; on a pole, a wall or in a manhole, on a tower, or on a tower with a further OPGW fixing clamp. All jointing operations can be carried out whilst the joint is mounted in the bracket.

Pole Mounting Bracket	Wall mounting Bracket	Tower Mounting Bracket	Tower with further OPGW Fixing Clamps
XJTSC00246	XJTSC00247	XJTSC00248	XJTSC00249

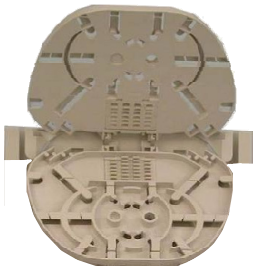
Splicing Modules

Single Element Module (5 trays)

The Single Element module for 5 trays is supplied with 5 Single element trays. Each tray is capable of holding up to 12* spliced fibres. Dedicated slice holders are supplied with heat shrink, crimp or mechanical splice protectors.
*: 6 splices only for mechanical splice protector

***Prysmian Part No. - XSASC00013** (Tray with splice holder for heat shrink splices)*
***- XSASC00014** (Tray with splice holder for crimp splices)*
***- XSASC00015** (Tray with splice holder for mechanical splices)*

Single Element Module (2 trays)



The Single Element module for 2 trays is supplied with 2 Single element trays. Each tray is capable of holding up to 12* spliced fibres. Dedicated slice holders are provided for heat shrink, crimp or mechanical splice protectors.
*: 6 splices only for mechanical splice protector.

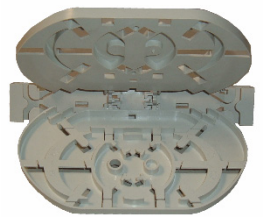
***Prysmian Part No. - XSASC00010** (Tray with splice holder for heat shrink splices)*
***- XSASC00011** (Tray with splice holder for crimp splices)*
***- XSASC00012** (Tray with splice holder for mechanical splices)*

Ribbon Module (5 trays)

The Ribbon module for 5 trays is supplied with 5 Ribbon trays. Each tray is capable of holding up to 2 x 4 Fibre or 1 x 8 Fibre spliced ribbons. Dedicated splice holders are provided for heat shrink splice protectors.

Prysmian Part No. - XSASC00023

Ribbon Module (2 trays)



The Ribbon module for 2 trays is supplied with 2 Ribbon trays. Each tray is capable of holding up to 2 x 4 Fibre or 1 x 8 Fibre spliced ribbons Dedicated splice holders are provided for heat shrink splice protectors.

Prysmian Part No. - XSASC00022

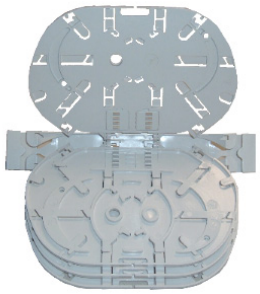
Splicing Modules cont.

Single Circuit Module (8 trays)

The Single Circuit module for 8 trays is supplied with 8 Single Circuit trays. Each tray is capable of containing up to 4 spliced fibres. Dedicated slice holders are supplied with heat shrink, crimp splice protectors.

***Prysmian Part No. - XSASC00018** (Tray with splice holder for heat shrink splices)*
***- XSASC00019** (Tray with splice holder for crimp splices)*

Single Circuit Module (4 trays)



The Single Circuit module for 4 trays is supplied with 4 Single Circuit trays. Each tray is capable of containing up to 4 spliced fibres. Dedicated slice holders are supplied with heat shrink, crimp splice protectors.

***Prysmian Part No. - XSASC00016** (Tray with splice holder for heat shrink splices)*
***- XSASC00017** (Tray with splice holder for crimp splices)*

Patching Module

The Modular Jointing System can accommodate patching modules to increase circuit flexibility within the enclosure. The patching solution is available for various connector types including SC, ST and FC. Each patching module can accommodate up to 6 adapters.

Prysmian Part No. - XSASC00024 – SC Patching module
- XSASC00025 – FC Patching Module
- XSASC00026 – ST Patching Module

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