

Modular Jointing System – MJS-CP

Prysmian Part Number: *See Following Pages*



The Modular Jointing System (MJS-CP) is used for access applications within the external optical network and can be used for track, spur and loop applications. It can accommodate a wide variety of cables such as loose tube, central loose tube, ribbon and blown fibre. The modular tray system is designed for positive fibre management for Single Circuit Management (SCM) and Single Element Management (SEM), and the splice trays can accommodate a variety of different types of splice protectors and splitters. Cable entries to the joint can be sealed using either heat-shrinks or a range of mechanical seals.

Features and Benefits

- For each type of splice tray, 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 1x32 can be accommodated.
- Four different cap lengths are available to configure the closure according to the number of trays required.
- The closure base has 6 circular entry ports and one oval port.
- Cables up to 30 mm in diameter can be installed into each port using adhesive heat-shrink sleeves.
- Mechanical seals are available for the circular port enabling up to four cables
- On each circular port, additional multi cable adapter entry kits are available to seal independently 3 cables (max OD: 12 mm).
- The joint is quickly and easily re-enterable without the need of further consumables. The sealing clamp can be locked if required.
- A toning connector is supplied fitted into the base for use as toning point.
- The closure cap contains a pressure test valve to test the seal of the closure after installation.
- The closure is sealed to IP68.

Kit Contents

The MJS-CP is supplied as an empty closure with a cap, a base, a clamp, a sealing gasket and a support frame.

Cable entry kits, splice trays and accessories are ordered separately as required.

Additional Items

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

Optional Items

- Splitter Modules
- Patching module

Technical Data

- Number of cable ports: 1 oval + 6 circular (18 using the multi cable adapter entry kit)
- Maximum cable diameter (mm): 30 (12mm if the splitter entry port is used on the circular port)
- Required space envelope (mm):

(l) 685 x (d) 250 for MJS-CP/3.00	(l) 610 x (d) 250 for MJS-CP/2.00
(l) 500 x (d) 250 for MJS-CP/1.00	(l) 440 x (d) 250 for MJS-CP/0.00

- Maximum capacity for Single Element Management (SEM)

	MJS-CP/0.00 Short Cap	MJS-CP/1.00 Medium Cap	MJS-CP/2.00 Long Cap	MJS-CP/3.00 Extra Long Cap
Maximum number of trays	20 trays (10 + 10)	30 trays (15 + 15)	50 trays (25 + 25)	60 trays (30 + 30)
Maximum splices	240f	360f	600f	720f

- Maximum capacity for Single Circuit Management (SCM)

	MJS-CP/0.00 Short Cap	MJS-CP/1.00 Medium Cap	MJS-CP/2.00 Long Cap	MJS-CP/3.00 Extra Long Cap
Maximum number of trays	32 trays (16 + 16)	48 trays (24 + 24)	80 trays (40 + 40)	96 trays (48 + 48)
Maximum splices	128f	192f	320f	384f

- Maximum capacity for Ribbon Fibre Management (RFM)

	MJS-CP/0.00 Short Cap	MJS-CP/1.00 Medium Cap	MJS-CP/2.00 Long Cap	MJS-CP/3.00 Extra Long Cap
Maximum number of trays	20 trays (10 + 10)	30 trays (15 + 15)	50 trays (25 + 25)	60 trays (30 + 30)
Maximum splices	160f	240f	400f	480f

- Operating temperature: -20°C to + 60°C (5 to 95% RH)
- Material:
 - Cap: Polypropylene mixture
 - Base: Polypropylene mixture
 - Splice trays: PC-ABS
- Testing:

• Closure sealing: T.I. 733-1A	• Optical: Tested at 1310nm, 1550nm IEC 60068-1
• Dry heat: IEC 60068-1	• Damp heat: T.I. 733-1A
• Change of temp.: IEC 60068-2-14	• Vibration: CENELEC EN 61300-2-1
• Sealing: IP68	• Shock: T.I. 733-1A

Logistics

- Packing Dimensions (mm):

Short Cap:	(l)550 x (w)330 x (d)330
Medium Cap:	(l)750 x (w)330 x (d)330
Long Cap:	(l)750 x (w)330 x (d)330
Extra Long Cap:	(l) 750 x (w)330 x (d)330
- Packed Weight fully equipped (kg): Short Cap : 8. Medium Cap: 9. Long Cap: 12. Extra Long Cap 13.
- Installation Instructions included

Part Numbers

MJS-CP Joint Closure

The MJS-CP Joint Closure is supplied for four different splicing capacities (see above technical data) according to the cable(s) fibre counts to be spliced. Three cap lengths are available. The kit contains the closure cap, base, clamp and sea. Inside the closure a support frame for the splice trays and cable entries is also supplied. The splice trays and cable entries are then ordered separately to suit the required application.

MJS-CP/0.00 basic kit (short cap)
Prysmian Part No. – XJTSC00220

MJS-CP/1.00 basic kit (medium cap)
Prysmian Part No. – XJTSC00221

MJS-CP/2.00 basic kit (long cap)
Prysmian Part No. – XJTSC00222

MJS-CP/3.00 basic kit (extra long cap)
Prysmian Part No. – XJTSC00442

Cable Entry Kits

Cable Entry Kit

The Cable Entry Kit is used to install an additional cable into the circular port on the MJS-CP. The kit contains all of the components required to prepare and install the cable.

Prysmian Part No. – XJTSC00226



Oval Port Cable Entry Kit

The Oval Port Cable Entry Kit is used to install a loop cable or two cables into the oval port on the MJS-CP. The kit contains all of the components required to prepare and install the cable.

Prysmian Part No. – XJTSC00223



Multi Cable Adapter Entry Kit

The multi cable adapter entry kit is used to install up to 3 additional cable into any unused Circular Port on the MJS-CP. The kit contains all of the components required to prepare and install the first cable.

Prysmian Part No. - XJTSC00229

- XJTSC00230 (Installing kit for the second or third cable on the splitter cable entry port)



Cable Entry Kits continued

Oval Port Cable Mechanical Sealing Kit

The Oval Port Mechanical Seal is used to seal cables into the oval port of the MJS joint. The seal comprises of two plates and a rubber seal that fits inside the oval port of the MJS joint. The screws are simply turned to compress the rubber seal around the cables.



- Prysmian Part No. –**
- **XJTSC00488 for cables 6.0mm to 8.0mm**
 - **XJTSC01485 for cables 9.0mm to 11.0mm**
 - **XJTSC01486 for cables 12.5mm to 14.5mm**
 - **XJTSC01487 for cables 16.0mm to 18.0mm**

Circular Port Mechanical Seals

Circular Port Mechanical Seals are used to seal cables into a circular port of the MJS joint. They comprise of two plates and a rubber seal that fits inside the port of the MJS joint. The screw is simply turned to compress the rubber seal around the cable.



- Prysmian Part No. –**
- **XJTSC01488 for one cable 12.5mm to 14.5mm**
 - **XJTSC01489 for one cable 16.0mm to 18.0mm**
 - **XJTSC01490 for three cables 9.0mm to 11.0mm**
 - **XJTSC00489 for four cables 6.0mm to 8.0mm**
 - **XJTSC01491 for six cables 6.0mm to 8.0mm**
 - **XJTSC00490 for sixteen cables 2.0mm to 4.0mm**
 - **XJTSC01492 for twenty four cables 2.0mm to 4.0mm**
 - **XJTSC01493 additional Frame to fix outgoing cables from mechanical seals.**

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)**



Splicing Modules continued

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 splice 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**



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 splice holders are supplied with heat shrink, crimp splice protectors.

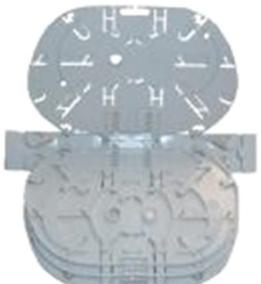
- Prysmian Part No. - XSASC00018 (Tray with splice holder for heat shrink splices)**
- XSASC00019 (Tray with splice holder for crimp splices)



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 splice 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)



Splitter Modules

Splitter Module 1x2

The splitter module 1x2 can be installed into the MJS joint. The splitter module is the same size as a 2 tray single element splice module. The splitter and the input fibre are stored in the bottom splice tray and the two output fibres are routed and stored on the top tray. Supplied with splitter pre-installed.



Prysmian Part No. - XSASC00033

Splitter Module 1x4

The splitter module 1x4 can be installed into the MJS joint. The splitter module is the same size as a 2 tray single element splice module. The splitter and the input fibre are stored in the bottom splice tray and the four output fibres are routed and stored on the top tray. Supplied with splitter pre-installed.



Prysmian Part No. - XSASC00034

Splitter Module 1x8

The splitter module 1x8 can be installed into the MJS joint. The splitter module is the same size as a 2 tray single element splice module. The splitter and the input fibre are stored in the bottom splice tray and the eight output fibres are routed and stored on the top tray. Supplied with splitter pre-installed.



Prysmian Part No. - XSASC00035

Splitter Module 1x16

The splitter module 1x16 can be installed into the MJS joint. The splitter module is the same size as a 5 tray single element splice module. The splitter is housed in the bottom splice tray. The input fibres are routed down and around the manifold in the joint and then back up to the four output splice trays. The splitter is not supplied pre-installed and must be installed by the installer in the field.



Prysmian Part No. - XSASC00036

Splitter Module 1x32

The splitter module 1x32 can be installed into the MJS joint. The splitter module is the same size as a 5 tray single element splice module. The splitter is housed in the bottom splice tray. The input fibres are routed down and around the manifold in the joint and then back up to the four output splice trays. The splitter is not supplied pre-installed and must be installed by the installer in the field.



Prysmian Part No. - XSASC00037

Additional Items

Heat Shrink Splice Protectors

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

Prysmian Part No. - XPESC00031 (pack of 50)



Wall Mounting Bracket

The Modular Jointing System Wall Mounting Bracket allows the MJS-CP to be mounted vertically/horizontally against a wall face or bulk head. The bracket is secured using either bolts or screws. All jointing operations can be carried out whilst the joint is mounted in the bracket.

Prysmian Part No. - XJTSC00231



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



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