

# Compact Joint – 48f & 144f

Prysmian Part Number: *See below*



*48f version shows pole mounting bracket*

The OAsys Compact Joints primary application is for joining optical fibre cables together at cable element level. The joint is ideal for use as a Cable Chamber Joint, Track Joint or Spur Joint due to its capacity and compact size. It is available in two sizes, of 48 fibre and 144 fibre maximum splicing capacity. The splice trays are factory fitted and each tray can accommodate up to 12 spliced fibres. A multi-functional bracket can be supplied with the joint (aerial joint) which enables wall or pole mounting of the joint vertically or horizontally. The bracket can also be strapped to a pole using a metallic band. The joint can be supplied with a base with six circular ports or a base with an oval port and four circular ports.

## Features and Benefits

- 48 and 144 fibre versions are available. **Note:** The 48 fibre joint cannot be upgraded to 144 fibres at a later date.
- Each joint is supplied with pre-fitted splice trays each capable of containing up to 12 spliced fibres.
- All fibres are positively managed to maintain a 30mm minimum bend radius within the joint.
- The closure base is available with either 6 circular entry ports, or an oval port with 4 circular ports.
- Cables up to 22mm in diameter can be installed into each port.
- All cables are sealed using adhesive lined heatshrink sleeves. The base entry ports are pre-shot blasted and configured with easy knock out ends, eliminating the need for cutting and abrading.
- Splice trays hinge upwards individually, allowing full access to spliced fibres without disturbance to live fibres in adjacent trays.
- On installation all cable elements are organised, oversleeved with protective tubing and identified with number collets.
- The joints are supplied with all of the components required to prepare, install and store the fibres of two cables. In cases where the oval port base is selected, the Oval Port Entry Kit is supplied instead of Circular Port Entry Kits.
- Additional cables can be installed into the circular ports of the joint for branch/spur configurations using OAsys Cable Entry Kits.
- Additional cables can be installed into the oval port of the joint using an OAsys Oval Port Entry Kit.

## Kit Contents

The OAsys Compact Joint is supplied with splice trays and all accessories required for the complete installation of two cables.

## Additional Items

- Cable Entry Kit
- Splice Protectors
- Support Tool
- Wall Mounting Bracket
- Pole Mounting Bracket

## Technical Data

- Number of cable ports: 6 circular or 1 oval 4 circular
- Maximum cable diameter (mm): 22
- Maximum number of splice trays: 4 (48 fibre)  
12 (144 fibre)
- Maximum fibre capacity of Joint: 48 or 144
- Required space envelope (mm): **48 F** = (l) 300 x (w) 231 x (d) 164  
*(Length = 410mm when heat shrink sleeve and SCOP are installed)*  
**144 F** = (l) 390 x (w) 231 x (d) 164  
*(Length = 500mm when heat shrink sleeve and SCOP are installed)*
- Operating temperature: -20°C to + 50°C (5 to 95% RH)
- Material:-
  - Cap: Polypropylene
  - Base: Phenolic resin
  - Splice trays: FR High Impact Polystyrene
- Testing:-
  - Closure sealing: IP68 - BT specification LN450B
  - Optical: Tested 1310nm,1550nm and 1625nm
  - Dry heat: BS EN 60068-2-2 Test Bb
  - Damp heat: IEC 60068-2-3: 1969
  - Change of temperature: IEC 60068-2-14: 1984
  - Vibration: IEC 60068-2-6: 1995
  - Shock: IEC 60068-2-27: 1987

## Logistics

### 48 fibre

- Packing Dimensions (mm): (l) 480 x (w) 250 x (d) 210
- Packed Weight (kg): 2.4
- Net weight (kg): 1.9
- Installation Instructions included

### 144 fibre

- Packing Dimensions (mm): (l) 480 x (w) 250 x (d) 210
- Packed Weight (kg): 2.8
- Net weight (kg): 2.3
- Installation Instructions included

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## Part Numbers

### Compact Joint

Part No.	Description
XJTSC00069	48f with 6 circular ports
XJTSC00183	48f with 1 oval , 4 circular ports
XJTSC00301	48f with 6 circular ports inc. pressure test valve
XJTSC00302	48f with 1 oval , 4 circular ports inc. pressure test valve
XJTSC00196	144f with 6 circular ports
XJTSC00182	144f with 1 oval , 4 circular ports
XJTSC00303	144f with 6 circular ports inc. pressure test valve
XJTSC00304	144f with 1 oval , 4 circular ports inc. pressure test valve

### Aerial Compact Joint

Part No.	Description
XJTSC00186	48f with 6 circular ports
XJTSC00188	48f with 1 oval , 4 circular ports
XJTSC00305	48f with 6 circular ports inc. pressure test valve
XJTSC00306	48f with 1 oval , 4 circular ports inc. pressure test valve
XJTSC00185	144f with 6 circular ports
XJTSC00187	144f with 1 oval , 4 circular ports
XJTSC00307	144f with 6 circular ports inc. pressure test valve
XJTSC00308	144f with 1 oval , 4 circular ports inc. pressure test valve

## Additional Items

### Cable Entry Kit

The OAsys Cable Entry Kit is used to install an additional cable into an OAsys Compact Joint. The kit contains all of the components required to prepare and install the cable, and route the cable fibres to the splice trays



*Prysmian Part No. – XKTSC00010*

### Oval Port Entry Kit

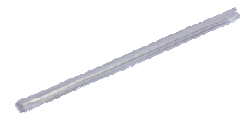
The OAsys Oval Port Entry Kit is used to install a loop of cable into the oval port of an OAsys Compact Joint. The kit contains all of the components required to prepare and install the cable, and route the cable fibres to the splice trays



*Prysmian Part No. – XKTSC00046*

### Splice Protectors

OAsys splice protectors are used to protect the fibre splice. They are 2.2mm in diameter and 45mm in length.



*Prysmian Part No. - XPESC00053 (pack of 50)  
- XKTSC00050 (pack of 12)*

## Compact Joint Mounting Brackets

### Support Tool

The OAsys Compact Joint support tool allows the user to support an OAsys Compact Joint within a portable workbench. The bracket is designed to fit most commercially available workbenches. It is dimensioned to enable a splicing machine to be placed on the workbench for close access to the splicing trays.

*Prysmian Part No. – XJTSC00075*



### Wall Mounting Bracket

The OAsys Compact Joint Wall Bracket allows an OAsys Compact Joint to be mounted vertically against a wall face or bulk head. The bracket is secured using either bolts or screws (not provided). All jointing operations can be carried out whilst the joint is mounted in the bracket.

*Prysmian Part No. – XJTSC00076*



### Pole Mounting Bracket

The OAsys Compact Joint Pole Mounting Bracket allows an OAsys Compact Joint to be mounted vertically or horizontally on a pole, or against a wall face or bulk head. The bracket is secured using either screws or a steel band (not provided).

*Prysmian Part No. – XJTSC00136*



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