FST - Small Size Fibre Joint

Prysmian Part Numbers: *See below*

Using Curved Splice Tray	Using Small Pon Splice Tray

The FST - Small Size Fibre Joint is primarily used for local distribution of optical cables in both aerial and underground optical fibre networks. The joint is circular in shape, small in size and offers high flexibility due to the cable entry options presented by the number of joint base options available. The base configurations offer 3, 10 or 12 round cable ports together with one oval port for loop through applications. The joint cap and base is sealed with a rolling "O" ring and clamp mechanism. Cable entries can be sealed using either mechanical cable entry kits (Cablelok™) and/or heatshrink sleeves on most of the larger ports, only Cablelok™ for the smaller entries.

Features and Benefits

• The FST - Small Size Fibre Joint has a maximum splice capacity of 36 fibres (using standard heatshrink splice protectors)

• Small trays give compact size enclosures for ease of installation (110mm diameter).

• The joint is compatible with a large range of Prysmian manufactured optical cables including Zephyr™ mini blown cables.

• The joint is ideal for branch or drop functions in FTTH networks and provides a critical flexibility point in the last mile network.

• Can be configured using connectorised cables and pigtails, on the curved splice tray only.

• Also suitable for low fibre count cables in CCTV, trunk and campus (between buildings) networks.

• Cables are sealed into the joint using either Cablelok™ or Heatshrink. Refer to data sheet HT006 for information on ordering cable seals.

• The joints are supplied with all of the components required to prepare, install and store the fibres of two cables. Cable seals are not supplied and must be ordered separately depending on diameter.

• The joints are supplied with tray inserts to cater for heath shrink splice protectors. Inserts are also available for crimp and ribbon splice protectors and mechanical splices. Please contact Prysmian for further information.

Kit Contents

The FST - Small Size Fibre Joint is supplied with splice trays and all accessories required for the complete installation of two cables. NOTE: Cablelok™ must be purchased separately to suit the input / output cable diameter (s).

Additional Items

• Splice Protectors
• Sealing Options
• Wall & Pole Mounting Bracket
• Installation Clamp / Mounting Bracket
• Port Opening Tools
• Cover Release Tool
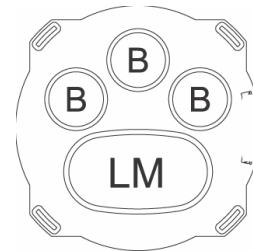
Technical Data

- Number of cable ports: 3 to 12 circular and 1 oval
- Maximum cable diameter (mm): 22 (see below)
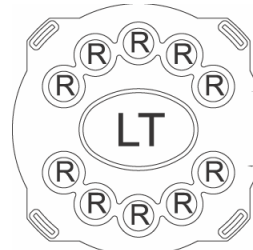
Port Type	No. of ports	Cable Range (mm)	
		Cablelok™	Heatshrink
LM	1	2 x 9.5 - 22.0	2 x 8.0 - 22.0
LT	1	Not applicable	2 x 8.0 - 15.0
B	2 or 3	4.8 - 16.5	6.0 - 19.0
R	10	1.7 - 9.5	Not applicable

Refer to Datasheet HT006 for details on Cable Sealing options.
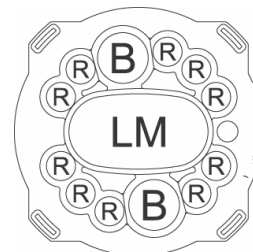
- Maximum number of splice trays: 3
- Maximum fibre capacity of Joint: 36 Using 2.4mm Heat Shrink splice protectors
  (24 on Curved Splice Tray)
  54 Using 1.6mm Heat Shrink splice protectors
  96 Using 4 Fibre Ribbon splice protectors
  72 Using Crimp splice protectors
  24 Using Universal Mechanical splices

- Required space envelope (mm): (l) 310 x (Ø) 110
- Operating temperature: -20°C to + 50°C (5 to 95% RH)
- Sealing: IP68

4-Port Base

11-Port Base

13-Port Base

Note

The above bases are available for the different port sizes. It is not however recommended to install more than 4 cables into the FST joint as space is limited inside the joint.

Part Numbers

FST – Small Size Fibre Joint

Part No.	No. of ports	No. of trays	Type of tray	Method of sealing
XJHSC00002	4	1	Curved Splice Tray	Heatshrink sealing
XJHSC00003	11	1	Curved Splice Tray	Cablelok™ sealing
XJHSC00004	13	2	Small Pon Splice Tray	Cablelok™ sealing
XJHSC00005	13	3	Small Pon Splice Tray	Cablelok™ sealing
XJHSC00006	4	2	Small Pon Splice Tray	Cablelok™ sealing
XJHSC00007	4	2	Small Pon Splice Tray	Heatshrink sealing
XJHSC00008	11	1	Small Pon Splice Tray and Loop Basket	Cablelok™ & Heatshrink seal for LT Port
XJHSC00009	13	1	Small Pon Splice Tray and Loop Basket	Cablelok™ sealing
XJTSC00455	13	1	Small Pon Splice Tray with 1x4 Splitter and Loop Basket	Cablelok™ sealing

Note: Joint is supplied with trays for heath shrink (2.4mm) splice protectors. Please see the table below for other options and capacities. To order these special part numbers please contact the Prysmian sales desk

Tray Type	Heat Shrink (2.4mm) with Band (XPESC00031)	4-fibre Ribbon	Heat Shrink (1.6mm) (XHASC00014)	Crimp Splice Protector	Mechanical Splices
Curved Splice Tray	24				
Small Pon Splice Tray	12	32	18	24	8

Additional Items

Cable Sealing

The ports of the FST – Small Size Fibre Joint can be sealed using Cablelok™ (all ports except LT) or heatshrink (on the larger ports). Please see datasheet HT006 for further information.

Prysmian Part No. – See Datasheet HT006

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. There is also a 1.6mm in Diameter and 40mm in length for use with small PON splice tray.
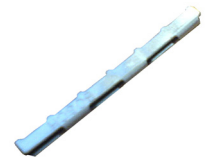
Prysmian Part No. - XPESC00031 (pack of 50) 2.4mm X 45mm
                    - XHASC00014 (pack of 80) 1.6mm X 40mm

Crimp Splice Protectors

Crimp Splice Protectors are used to protect the fibre splice. They are 45mm in length.

Prysmian Part No. – XKTSC00078 (pack of 50)
                    - XKTSC00079 (pack of 12)

Mechanical Splices

Mechanical Splices are used to splice fibres together without the need of a fusion splicing machine. They are 4mm wide x 4mm tall and 40mm in length. An assembly tool and splice holder is required for installation. See Prysmian data sheet AC007 for further information on mechanical splices.

Prysmian Part No. – XKTSC00121 (pack of 50)

Wall or Pole Mounting Bracket

The Joint Wall or Pole Mounting Bracket allows an FST – Small Size Fibre 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. – XHASC00078

Additional Items continued

Installation Clamp / Mounting Bracket

The Universal Installation Mounting Bracket or Clamp is designed for securing the closure in the horizontal or vertical position during installation of network cables or closure maintenance. The standard version will fit a number of closures including the FST – Small Size Joint, the jaws specific to this joint can be purchased separately.

Prysmian Part Nos. – XHASC00079 (standard)
XHASC00082 (jaws only)

Port Opening Tools

Port Opening Tools are available in a number of sizes designed for the removal of the ends of closed joint cable entry ports. Three types are used on the FST – Small Size Fibre Joint, depending upon port size (see below). A Coping Saw is required for oval ports.

Prysmian Part Nos. – XHASC00071 (port size R)
XHASC00072 (port size B)
XHASC00076 (coping saw – port sizes LM & LT)

Cover Release Tool

The Cover Release Tools are supplied in pairs and are re-usable hand operated tools manufactured from stainless steel. They aid opening of the FST – Small Size Fibre Joint; the tongues of the tools are simply applied between the base and cover and act to lever the cover retaining lugs from the base.

Prysmian Part No. – XHASC0070

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