

FRBU - Mid Size Fibre Joint

Prysmian Part Numbers: See below



Using Small Pon Splice Tray



Using Medium Pon Splice Tray

The FRBU Mid Size Fibre Joint is primarily used for local distribution of optical cables / blown fibres in both aerial and underground optical fibre networks. The joint is circular in shape and compact. The base configuration offers 8 round cable ports together with one oval port for loop through applications. The joint cover is fitted with a pressure release valve and its cap / 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.

Features and Benefits

- The FRBU - Medium Size Fibre Joint has a recommended maximum capacity of 72 fibres (using standard heatshrink splice protectors)
- Compact size enclosures for ease of installation (130mm diameter).
- The joint is compatible with a large range of Prysmian manufactured optical cables including Zephyr™ mini blown cables Rapier® micro-module cables and Sirocco® blown fibre.
- With up to 8 small diameter ports it can be used for the distribution of subscriber drops in FTTH networks.
- Also suitable for low / medium fibre count cables in CATV and trunk 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 heat 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 FRBU - Medium 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).

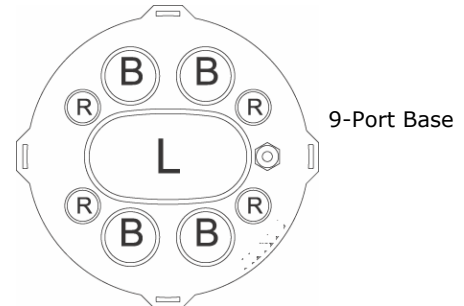
Additional Items

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

Technical Data

- Number of cable ports: 8 circular and 1 oval
- Maximum cable diameter (mm): 24 (see below)

| Port Type | No. of ports | Cable Range (mm) | |
|-----------|--------------|------------------|-----------------|
| | | Cablelok™ | Heatshrink |
| L | 1 | 2 x 13.0 - 22.0 | 2 x 12.0 - 24.0 |
| B | 4 | 4.8 - 16.5 | 6.0 - 19.0 |
| R | 4 | 1.7 - 9.5 | 4.0 - 11.0 |



Refer to Datasheet HT006 for details on Cable Sealing options.

- Maximum number of splice trays: 6
- Maximum fibre capacity of Joint: 72 using 2.4mm Heat Shrink (96 on Medium PON Splice Tray) splice protectors
192 using 4 Fibre Ribbon on a small PON Tray
144 using Crimp splice protectors
- Required space envelope (mm): (l) 505 / 435 x (Ø) 130
- Operating temperature: -20°C to + 50°C (5 to 95% RH)
- Sealing: IP68

Part Numbers

FRBU - Medium Size Fibre Joint

| Part No. | No. of ports | No. of trays | Type of tray | Method of sealing |
|--------------|--------------|--------------|------------------------|--------------------|
| XJHSC00021 | 9 | 6 | Medium Pon Splice Tray | Cablelok™ sealing |
| XJHSC00022 | 9 | 6 | Medium Pon Splice Tray | Heatshrink sealing |
| XJHSC00023 * | 9 | 3 | Medium Pon Splice Tray | Cablelok™ sealing |
| XJHSC00024 * | 9 | 3 | Medium Pon Splice Tray | Heatshrink sealing |
| XJHSC00037 | 9 | 6 | Small Pon Splice Tray | Cablelok™ sealing |
| XJHSC00038 | 9 | 6 | Small Pon Splice Tray | Heatshrink sealing |

* Closure is fitted with fibre loop storage basket

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 | 4-fibre Ribbon | Heat Shrink (1.6mm) | Crimp | Mechanical Splice |
|------------------------|-------------------------------|----------------|---------------------|-------|-------------------|
| Small Pon Splice Tray | 12 | 48 | 18 | 24 | 8 |
| Medium Pon Splice Tray | 12 | | | 24 | |

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.

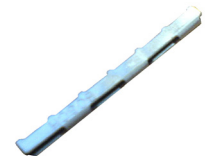
Prysmian Part No. - XPESC00031 (pack of 50) 2.4mm X 45mm
- XHASC00014 (pack of 80) 1.6mm X 40mm



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

Universal Mechanical Splice Protectors 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 FRBU – Mid 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. Two types are used on the FRBU – Mid Size Fibre Joint, depending upon port size (see below). The port opening tools used on this joint are “Top Hat” style. A Coping Saw is required for oval ports.



Prysmian Part Nos. – XHASC00074 (port size R)
XHASC00075 (port size B)
XHASC00076 (coping saw – port size L)

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 FRBU – Mid 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. – XHASC00070

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

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