

FML - Large Fibre Joint

Prysmian Part Numbers: *See below*



Ellipse SE-B Splice Tray



Medium Pon Splice Tray



Mass Splice Tray

The FML - Large Fibre Joint is primarily used as for the distribution of optical cables / blown fibres in both aerial and underground optical fibre networks. The joint is circular in shape and large in size and offers a number of cable entry options presented by the joint base. The single base configuration offers 12 round cable ports and also one oval port for loop through applications. The joint cover is fitted with a pressure release valve and the cap / base is sealed with an "O" ring and clamp mechanism. Cable entries can be sealed using either mechanical cable entry kits (Cablelok™) and/or heatshrink sleeves on any of the ports.

Features and Benefits

- The FML - Large Fibre Joint has a maximum capacity of 288 fibres (using standard heatshrink splice protectors)
- The FML – Large Fibre Joint can be supplied with the following tray options:
 - 6, 12, 18 or 24 Ellipse SE-B splice trays
 - 12, 24, 36 or 48 Ellipse SC splice trays
 - 12 Medium Pon splice trays
 - 2 Mass splice trays

The choice of tray will depend upon capacity, whether or not interchangeable splice inserts are required, number of tray entries and type of fibre and cable selected.

- 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, and mass link/fusion link ribbon fibre cables.
- Can be used with high fibre count ribbon cables in super highway primary rings.
- Suitable for splicing in primary rings in metropolitan networks for both single element and single circuit applications.
- Also suitable for trunk applications.
- Four different cover lengths depending upon number and type of tray selected.

Kit Contents

The FML - Large Fibre Joint is supplied with splice trays and all accessories required for the complete installation of two cables. NOTE: Cablelok™ seals must be ordered separately to suit your cable diameter

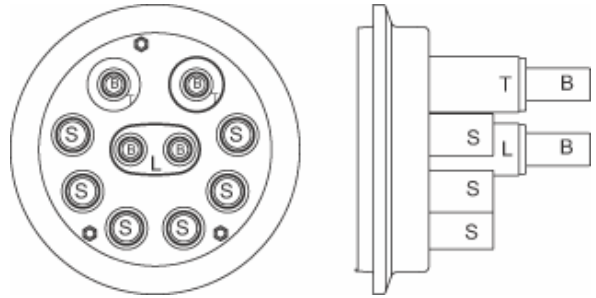
Additional Items

- Splice Protectors
- Sealing Options
- Wall & Pole Mounting Bracket
- Installation Clamp / Mounting Bracket
- Port Opening Tools
- Manifolds
- Adapters

Technical Data

- Number of cable ports: 12 circular and 1 oval
- Maximum cable diameter (mm): 35 (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
T	2	15.5 - 29.0	12.0 - 35.0
S	6	5.0 - 20.0	6.0 - 26.0
B	4	4.8 - 16.5	6.0 - 19.0



Refer to Datasheet HT006 for details on Cable Sealing options.

- Maximum number of splice trays: 24 standard
- Maximum fibre capacity of Joint: See table below
- Required space envelope (mm): (l) 400 / 600 / 670 / 750 x (w) 275 x (d) 220
- Operating temperature: -20°C to + 50°C (5 to 95% RH)



Cover
 A: 400mm length
 B: 550mm length
 BC: 600mm length
 C: 750mm length

Part Numbers

FML - Large Fibre Joint * Note for special product part numbers, contact the Prysmian sales office

Part No.	No. of trays	Type of tray	Method of sealing	Cover	Standard		Special products available on request			
					HS2.4	Mech	Mech	Univ	4f Ribbon	12F Ribbon
XJHSC00051	6	Ellipse SE-B Splice Tray	Cablelok™ sealing	A	96	N/A	144	48	288	288
XJHSC00052	12	Ellipse SE-B Splice Tray	Cablelok™ sealing	B	192	N/A	288	96	576	576
XJHSC00053	18	Ellipse SE-B Splice Tray	Cablelok™ sealing	B	288	N/A	432	144	864	864
XJHSC00054	24	Ellipse SE-B Splice Tray	Cablelok™ sealing	B	384	N/A	576	192	1152	1152
XJHSC00055	6	Ellipse SE-B Splice Tray	Heatshrink sealing	A	96	N/A	144	48	288	288
XJHSC00056	12	Ellipse SE-B Splice Tray	Heatshrink sealing	B	192	N/A	288	96	576	576
XJHSC00057	18	Ellipse SE-B Splice Tray	Heatshrink sealing	B	288	N/A	432	144	864	864
XJHSC00058	24	Ellipse SE-B Splice Tray	Heatshrink sealing	B	384	N/A	576	192	1152	1152
XJHSC00107	12	Ellipse SC Splice Tray	Cablelok™ sealing	A	96	96	N/A	N/A	N/A	N/A
XJHSC00106	24	Ellipse SC Splice Tray	Cablelok™ sealing	B	192	192	N/A	N/A	N/A	N/A
XJHSC00105	36	Ellipse SC Splice Tray	Cablelok™ sealing	B	288	288	N/A	N/A	N/A	N/A
XJHSC00104	48	Ellipse SC Splice Tray	Cablelok™ sealing	B	384	384	N/A	N/A	N/A	N/A
XJHSC00103	12	Ellipse SC Splice Tray	Heatshrink sealing	A	96	96	N/A	N/A	N/A	N/A
XJHSC00102	24	Ellipse SC Splice Tray	Heatshrink sealing	B	192	192	N/A	N/A	N/A	N/A
XJHSC00101	36	Ellipse SC Splice Tray	Heatshrink sealing	B	288	288	N/A	N/A	N/A	N/A
XJHSC00100	48	Ellipse SC Splice Tray	Heatshrink sealing	B	384	384	N/A	N/A	N/A	N/A
XJHSC00059	12	Medium Pon Splice Tray	Cablelok™ sealing	B	192	N/A	288	N/A	768	N/A
XJHSC00060	12	Medium Pon Splice Tray	Heatshrink sealing	B	192	N/A	288	N/A	768	N/A
XJHSC00061	2	Mass Splice Tray	Cablelok™ sealing	C	288	N/A	576	192	768	1152
XJHSC00062	2	Mass Splice Tray	Heatshrink sealing	C	288	N/A	576	192	768	1152

Types of splice protector inserts and maximum splices for trays

Tray Type	Heat Shrink(2.4) with Band	4-fibre Ribbon	Heat Shrink(1.6)	Mechanical	Universal Mechanical	12 Fibre Ribbon
Medium Pon Splice Tray	12			24		
Ellipse SE-B Splice Tray	12	32	18	24	8	48
Ellipse SC Splice Tray	8			8		
Mass Splice Tray	144	384	216	288	96	576

Moulded Splice Fins	3A/PON Insert	6A Insert	Mechanical Insert	Ribbon Insert
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Issue 02, June 2007
 Ref: HT004

Additional Items

Cable Sealing

The ports of the FML – Large Fibre Joint Joint can be sealed using Cablelok™ or heatshrink on all ports. Please see datasheet HT006 for further information.



Prysmian Part No. – see Datasheet HT006

Heat Shrink Splice Protectors

OAsys 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 medium PON, Ellipse SE-B and Mass splice trays.

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



Mechanical (Crimp) Splice Protectors

OAsys Mechanical 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 Splice Protectors

OAsys 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 OAsys Joint Wall or Pole Mounting Bracket allows an OAsys FML – Large 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. – XHASC00087



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 FML – Large Size Joint, the jaws specific to this joint can be purchased separately.

*Prysmian Part Nos. – XHASC00078 (standard)
XHASC0081 (jaws only)*



Manifolds

A fibre manifold is a device for dividing and managing fibres within a splice closure or ODF. It consists of a moulded divider with snap-on cover with 1 or 2 polyethylene tubes inserted at one end and a number of similar tubes at the other.

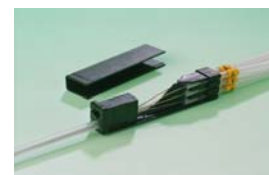
Prysmian Part Nos.

Part No.	Inlet Tubes			Outlet Tubes			Manifold dimensions	
	No. of inlets	Bore Dia (mm)	Length (mm)	No. of outlets	Bore Dia (mm)	Length (mm)	W x H (mm)	Length (mm)
XHASC00001	1	4	75	4	3	1000	9.0 x 9.0	35.5
XHASC00002	1	4	1000	4	3	1500	9.0 x 9.0	35.5
XHASC00003	2	4	1000	6	3	1500	9.0 x 14.0	55
XHASC00004	2	3	1000	6	3	1500	9.0 x 14.0	55

4-Way
Manifold



6-Way
Manifold



Adapters

The application of an adapter is similar to a manifold except that it is fitted directly over the cable sheath (to 15mm outside diameter) with the unit tubes or groups of fibres being fed through flexible tubing or wrapped with spiral-cut tubing for loop-through applications. All kits are supplied with both types of tubing, cable ties and markers

*Prysmian Part Nos. – XHASC00005 (6 outlets, 4mm bore diameter)
XHASC00006 (12 outlets, 3mm bore diameter)
XHASC00007 (24 outlets, 3mm bore diameter)*



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 FML – Large Fibre Joint, depending upon port size (see below). A Coping Saw is required for larger ports.

*Prysmian Part Nos. – XHASC00072 (port size B)
XHASC00073 (port size S)
XHASC00076 (coping saw – port sizes L & T)*



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Issue 02, June 2007
Ref: HT004