

FDN IR - FTTH Distribution Node Joint

Prysmian Part Numbers: See below



The FDN - FTTH Distribution Node Joint is primarily used for the distribution of optical cables / blown fibres in both aerial and underground optical fibre networks. The joint is oval in shape, medium in size and offers high flexibility due to the cable entry options presented by the joint base. The single base configuration offers 58 round cable ports and 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 mechanical cable entry kits (Cablelok™) on any of the ports and/or heat shrink sleeves on any of the larger ports.

Features and Benefits

- Integrated routing system allows any fibre to be routed to any tray.
- The FDN IR - FTTH Distribution Node Joint has a maximum capacity of 432 fibres (using standard heatshrink splice protectors).
- 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.
- The large number of small diameter ports is ideal for the distribution of subscriber drops in FTTH networks and provides a critical flexibility point in the last mile network.
- Up to 52 small diameter (1.7mm to 9.5mm) drop cables can be distributed from the closure.
- Cables are sealed into the joint using either Cablelok™ or Heatshrink. Refer to data sheet HT006 for information on ordering cable seals.
- Splice trays hinge upwards individually, allowing full access to spliced fibres without disturbance to live fibres in adjacent trays.
- 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.

Kit Contents

The FDN - FTTH Distribution Node is not supplied with splice trays. All accessories required for the complete installation of two cables are included. NOTE: Cablelok™ must be purchased separately to suit the input / output cable diameter (s).

Additional Items

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

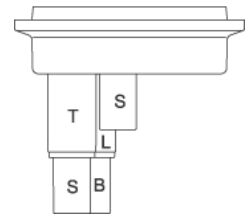
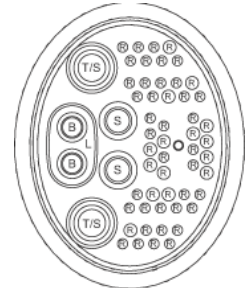
Technical Data

- Number of cable ports: 58 circular and 1 oval
- Maximum cable diameter (mm): 35 (see below)

Port Type	No. of ports	Cable Range (mm)	
		Cablelok™	Heatshrink
L	1	SEE DATASHEET HT006	2 x 12.0 - 24.0
T	2	15.5 - 29.0	12.0 - 35.0
S	4	5.0 - 20.0	6.0 - 26.0
B	2	4.8 - 16.5	6.0 - 19.0
R	52	1.7 - 9.5	Not applicable

Refer to Datasheet HT006 for details on Cable Sealing options.

- Required space envelope (mm): (l) 455/561/663/789 x (w) 312 x (d) 222
- Operating temperature: -20°C to + 50°C (5 to 95% RH)
- Sealing: IP68



Part Numbers

FDN - FTTH Distribution Node

Part No.	No. of SE trays	No. of SC trays	Loop Storage	Total Length
XJHSC00112	6	12	No	455mm
XJHSC00113	6	12	Yes	455mm
XJHSC00114	12	24	no	561mm
XJHSC00115	12	24	yes	561mm
XJHSC00116	24	48	No	663mm
XJHSC00117	24	48	Yes	663mm
XJHSC00118	36	72	no	789mm
XJHSC00119	36	72	yes	789mm

Note: Joint is not supplied with trays. Please order trays separately. These can be found in the additional items section of this datasheet

Additional Items

Cable Sealing

The ports of the FDN – FTTH Distribution Node Joint can be sealed using Cablelok™ (all ports) 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.



Prysmian Part No. - XPESC00031 (pack of 50)

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 Wall or Pole Mounting Bracket allows an FDN – FTTH Distribution Node 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. – XHASC00083

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 FDN – FTTH Distribution Node Joint, plus there is an economy version specifically for this joint. Jaws for the universal unit can be purchased separately



Prysmian Part Nos. – XHASC00077 (standard)
XHASC00083 (FDN economy version)

Splice trays

The FDN joint is compatible with various tray types. The joint does not come with any trays included. Listed below is the full list of splice trays available. All trays can house up to 12 splices.

Prysmian Part No. – XHASC00130 – Pack of 12 SC trays
XHASC00131 – Pack of 6 SE trays
XHASC00132 – Pack of 6 SE trays for 2.2 x 45mm heat shrink splice protectors
XHASC00133 – Pack of 6 SE trays for ribbon splice Protectors
XHASC00134 – Pack of 6 SE trays for 2.4 x 45mm heat shrink splice protector
XHASC00135 – Pack of 6 SE splice trays for ANT/crimp splice protectors

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 FDN – FTTH Distribution Node Joint, depending upon port size (see below). A Coping Saw is required for larger ports.



Prysmian Part Nos. – XHASC00071 (port size R)
XHASC00072 (port size B)
XHASC00073 (port size S)
XHASC00076 (coping saw – port sizes L & T)

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

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