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Tube Intercept Joint - Prysmian

Installation instructions

About this document ...

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Content approval

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1 **Introduction**

The Tube Intercept Joint, supplied by Prysmian Cables Ltd is used to intercept and spur off from a continuous Blown Fibre Tube (BFT) bundle and distribute to smaller BFT bundles.

The individual tubes are connected with tube connectors for a continuous blown fibre path.

2 **Installation Instructions**

The installation instructions (Prysmian Installation Practice IP254, Issue 4) are



HERE

available

2.1 **Stores items**

The installation practice for 5mm and 6mm Tube Intercept Joints is identical, and it is used for both variants of the TIJ and both sizes of port kits.

The installation instructions refer to:-

BT Stores Item Code	BT Stores Item Description	Prysmian Part Number
079664	Tube Intercept Joint (TIJ) for 5mm Blown Fibre Tubing	XJTSC01635
069728	Tube Intercept Joint (TIJ) for 6mm Blown Fibre Tubing	XJTSC01499
Port kits:		
079665	Tube Intercept Joint (TIJ) and Universal Node (UN) - Port Kit 5mm BFT 4BFT	XJTSC01764
079662	Tube Intercept Joint (TIJ) and Universal Node (UN) -	XJTSC01791

	Port Kit 6mm BFT 4BFT	
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Note: Prysmian Part No. XJTSC01790 'TIJ End of Route Kit' is not required, and is not available from BT Stores. See Section 2.4 of this document for the end of route practice.

2.2 Intercepting BFT in the Tube Intercept Joint

When intercepting 6mm BFT in a HND/FOD Tube Intercept Joint, you may encounter different types of BFT:

- Translucent – where it may be possible to see if any existing fibre Blown Fibre Bundle is in the allocated tube. Shining a torch at the rear of the tube may help.
- Opaque – where the tubing is solid colours and it will not be possible to see if any existing fibre Blown Fibre Bundle is in the allocated tube

On new build this will not be an issue, but if adding a Primary Splitter Node or Splitter DP to existing an existing HND/FOD network it may be necessary to check the following positions to confirm the allocated BFT has not been used incorrectly:

- a) The TIJ feeding the first PSN from the Aggregation Node
- b) The TIJ feeding the first SDP from the owning Primary Splitter Node.

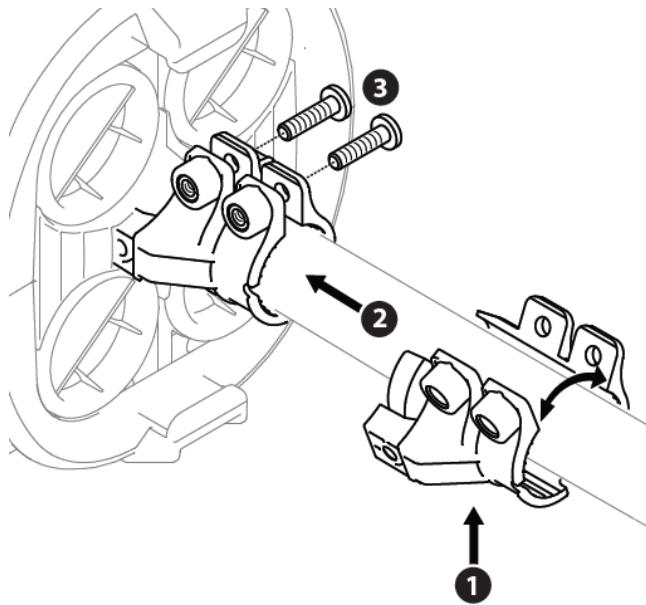
In the future, HND tubing will be supplied in translucent format with each tube having:

- coloured stripes, and
- the coloured stripe name (e.g. 'RED', 'ORANGE', etc), and
- the tube number ('1' to '7').

You can see the shadow of BFB through the wall of these tubes.

2.3 Revised Clamp for central 'through' BFT cable

The clamp for the centre cable has been redesigned and improved.



2.3.1 New production of Tube Intercept Joint

The new design of cable clamp for the centre 'through' cable is supplied with Tube Intercept Joints manufactured from 2015.

2.3.2 Previous production of Tube Intercept Joint (pre-2015)

The previous central cable clamp was not as robust as the new cable clamp, so under significant bending of the cable it could become dislodged, even though the sealing was not affected.

If on examination, the central cable clamp on an earlier TIJ has become dislodged, then it should be replaced with the new clamp.

The following instructions describe the practice for retro-fitting this cable clamp to **existing Tube Intercept Joints manufactured prior to 2015**, for improved retention of the in-line central tube bundle.

The installation instructions (Prysmian Installation Practice IP342, Issue 1) are



available via this link.

Additional illustrated step-by-step instructions for fitting the new clamp on



available via this link.

previous production of the Tube Intercept Joint are

2.3.2.1 Obtaining new clamp kit

For retro-fitting to pre-2015 Tube Intercept Joints, the new design of cable clamp is available separately, and it can be obtained currently by contacting Stacey Mulford at Prysmian:

Tel: 023 8060 8765

Email: stacey.mulford@prysmiangroup.com

2.4 End of tube route

At the end of the tube route, the following practice should be followed:

- Install the TIJ around the tube assembly, allowing an additional length to extend beyond the TIJ location; a length of approx. 300mm to 500mm will be sufficient depending on local conditions in the underground box.
- Install heatshrink cap on end of tube assembly to provide effective sealing against moisture and debris.
- If it is required to install a drop tube at this point, prepare tubing and install drop tubing following the practices described in the installation instructions.
- Close main body shell of TIJ.

END OF DOCUMENT
