

Title: **Network Micro-Duct and Cable Installation**

Review	Date	Description	Prepared	Verified	Approved
00	16-09-2021	ID12166 First issue	Kaj Kulstad	Chris Taylor	Chris Taylor
01	18-10-2021	Image updating	Kaj Kulstad	Chris Taylor	Chris Taylor
02	04-03-2022	All sections updated	Sean Pillans (VM)	Chris Taylor	Chris Taylor

These instructions are also available via a QR Code on the back of the first splice tray inside the DP



Network Micro-Duct and Cable Installation

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1. Opening the DP
2. Installing Micro-Duct
3. Installing Cable
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1. OPENING THE DP



To open the DP, slide the 2 tabs down at the bottom of the lid.



Using a pair of Pliers or a Screwdriver open the 5 spring latches

2. INSTALLING MICRO-DUCT

NOTE: Only 7mm Micro-Duct can be used to connect to the DP.



Pass the 7mm duct through the outer housing as shown. The end of the duct must be rounded off to make it easier for the next part of the install.

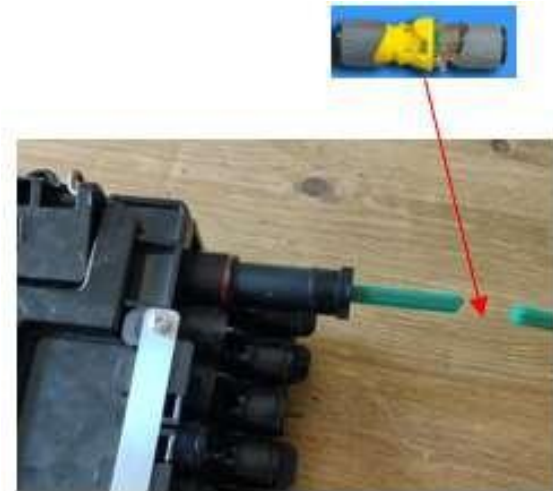


Push the inner body on to the duct using a twist action to push through the internal O-Ring, then screw on the inner body until the duct is at the end of the threaded section as shown.

NOTE: When installing the DP Overhead a micro-duct/cable coil must be provided to enable the DP to be brought to the ground for maintenance work. For the Maintenance Coil use 5/3.5 UV Stable Micro-Duct and UV Stable Reducers to convert from 7mm to 5mm Micro-Duct.

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UNDERGROUND INSTALLS



For Underground Installs, a 7mm Gas/Water Block must be fitted outside the DP as shown

VM SKU Code - 10008635

Emtelle Part Number - 71110

Once the cable has been installed the gas block must be activated to ensure the cable does not move inside the micro-duct.

OVERHEAD INSTALLS



For Overhead Installs, an Mk2 ELF fibre restraint must be fitted as shown

VM SKU Code 10013896

Emtelle Part Number - 75173

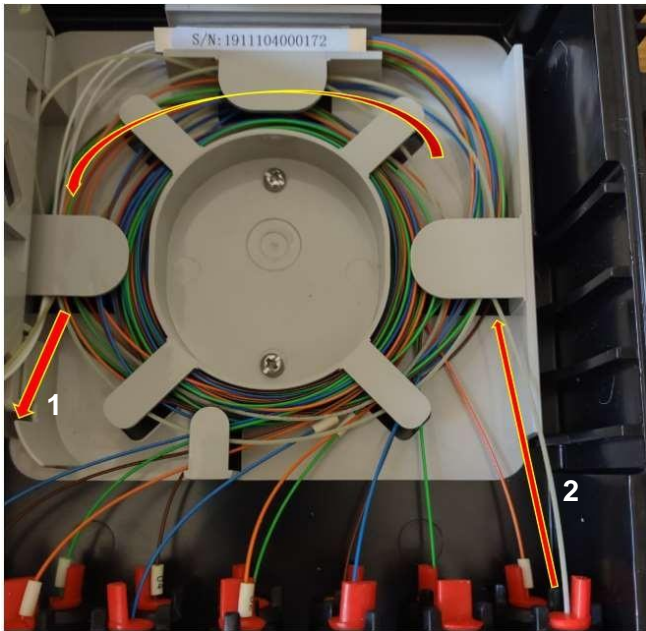
The ELF can only be fitted once the cable has been Installed.

3. INSTALLING CABLE

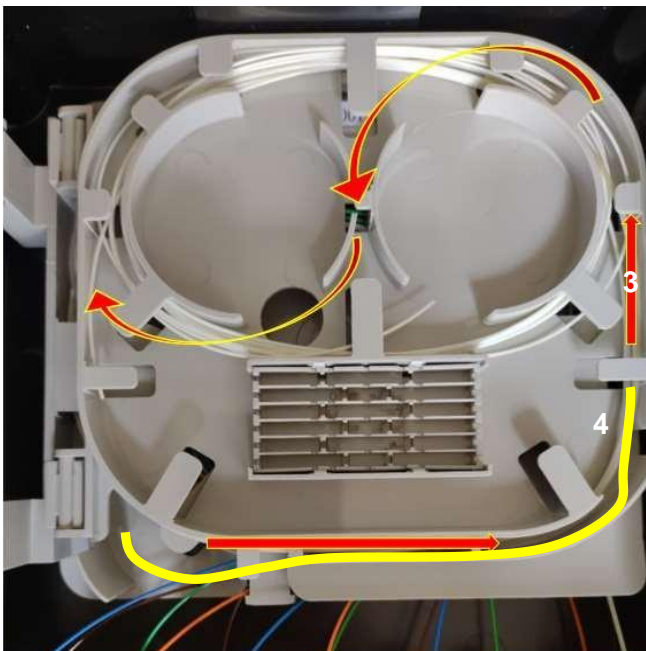
NOTE: Only 12 Fibre Bundle can be installed into the DP

<ul style="list-style-type: none"> • A minimum of 2 metres of 12 fibre bundle is required. <p>Port 1 = 1st Network Cable Port 2 = 2nd Network Cable (Daisy Chain)</p> <ul style="list-style-type: none"> • Remove the Port Cap • Strip approximately 40mm of sheath from the cable. • Push the fibre bundle up inside the yellow straw as far as it will go. 	<ul style="list-style-type: none"> • Grip the yellow straw inside the box making sure you have gripped the fibre bundle inside and pull the fibre through the red port grommet. • Then pull through the remaining cable. 	<ul style="list-style-type: none"> • Slide the outer body on to the inner body. • Ensure the outer shell is positioned as shown before installing to the DP Port. <p>Remember to install an ELF at this point - Overhead Installations Only</p>	<ul style="list-style-type: none"> • Screw the connector body onto the port as shown and pull through remaining cable slack into the DP

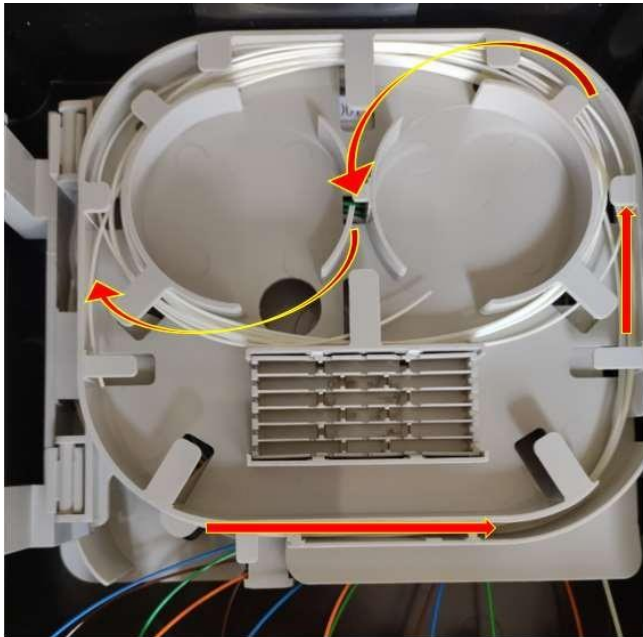
4. ROUTING CABLE/FIBRE



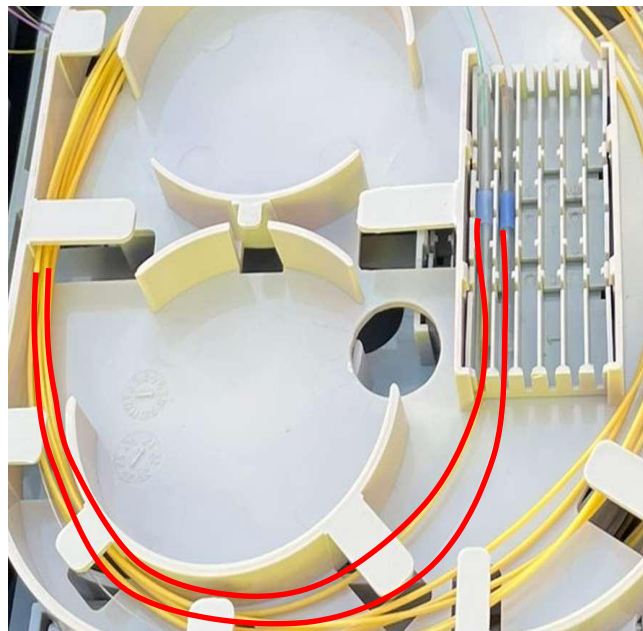
- Store cables loops in the bottom tray – Minimum 3 loops required.
- Exit lower tray and onto splice tray here **(1)**
- Mark the cable here **(2)** to enable identification of the other end on the splice tray.



- Route the cable onto the next (splice) tray as shown.
- Strip the cable here **(3)**
- Mark the cable here to identify the Port used at the base of the DP



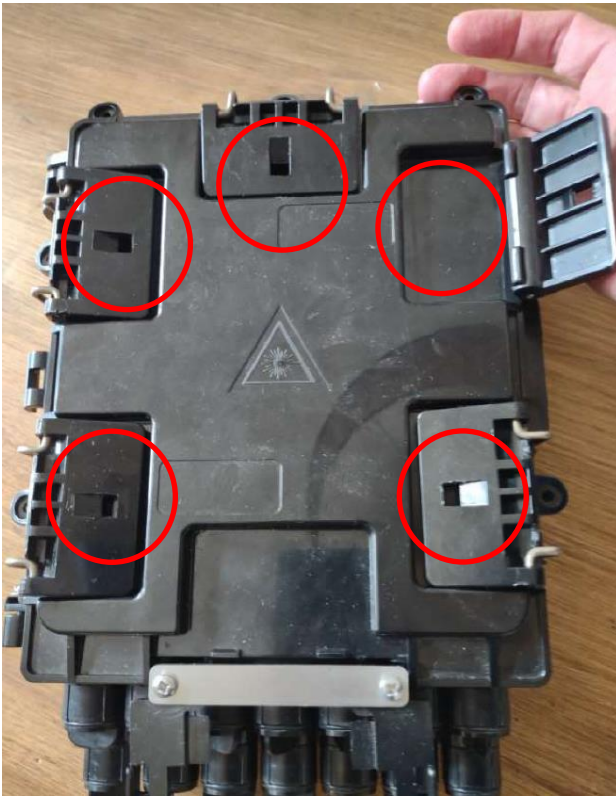
- Route the fibres in a figure of 8 to splice to the splitters tails.



WARNING!

- These splitter tails are loose tube, the yellow jack must be removed as shown or the fibre will move during splicing.
- Strip the 900um sheath to here **(4)**
- Then route 250um fibre (shown in red) into the splice protector as shown.

5. CLOSING THE DP



Close the 5 spring loaded latches.



Close the 2 tabs at the bottom of the DP shown