

PRECONNECTORISED CMJ & MMJ CLOSURES

Description	Tools Required
<p>The Pre-connectorised Compact/Medium Multi-Function Joint (CMJ/MMJ) is for jointing optical fibre cables. The pre-connectorised joint is ideal for use as a Distribution Joint due to its capacity and compact size.</p> <p>The CMJ has a maximum capacity of 144 fibres and the MMJ has a maximum capacity of 288 fibres.</p>	<p>Tools: Large Screwdriver, File, Cable Sheath Stripper, Fibre stripping tools, Splicing machine.</p>

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 - How to install cables via the CIRCULAR ports
 - How to splice a fibre on a SINGLE ELEMENT or SINGLE CIRCUIT tray.
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 - Splicing to a pre-installed splitter
 - Splicing to pigtails
3. Splice Tray Cover Installation
 - How to remove the splice tray cover from the top tray.
 - How to install the splice tray cover onto the top tray.
4. Closure Close Down
 - How to close the joint & install the cap and clamp.

1.0 Cable Installation and Fibre Routing

Step 1

Oval Port Cable Installation

- To install cables into the oval port of the closure follow the instructions supplied with the oval port kit.

IP347 – for heat shrink oval installation
IP292 – for mechanical oval installation

1.0 Cable Installation and Fibre Routing

Step 2

Circular Port Cable Installation

- To install cables into the circular port of the closure follow the instructions supplied with the appropriate port kit.
- For bringing in cables for splicing use IP272 - Mech Seal - Single Way Gland.
- For mechanical drop cables refer to IP587 - Mechanical glands for preconnectorised cables.

NOTE: Cables entering the closure for splicing should be done so via the oval port or circular port no.4 to ensure the capacity for drop cables remains available.

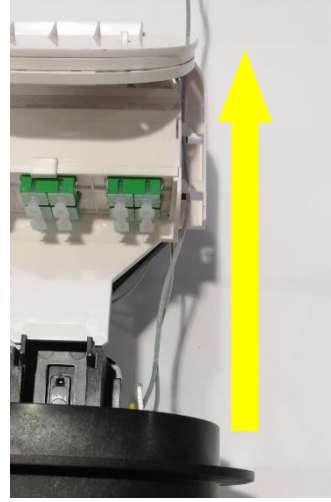
1.0 Cable Installation and Fibre Routing

Step 3

Oval port



Circular port

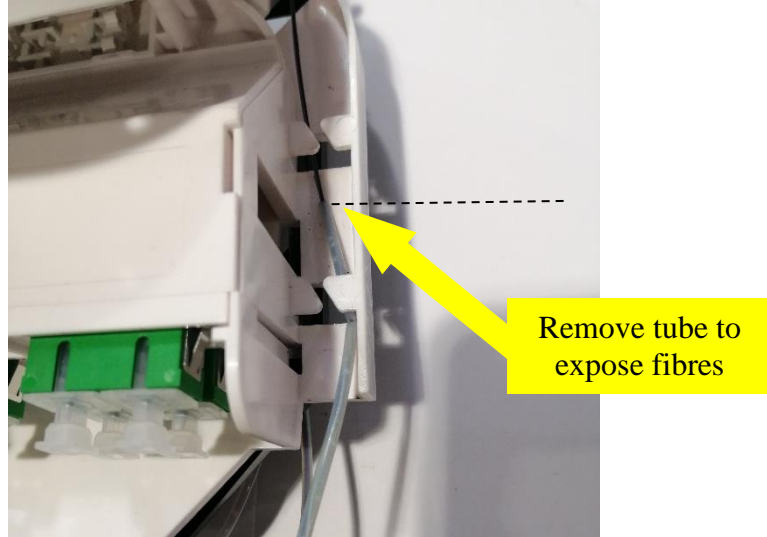


- If cables for splicing enter via the OVAL port:
- Select the element(s) required for splicing and prepare to route up the channel as indicated in the image.

- If cables for splicing enter via a CIRCULAR port:
- Prepare to route the required elements for splicing up the channel as indicated in the image.

1.0 Cable Installation and Fibre Routing

Step 4



- Remove the tube to expose the fibres using approved practices in the position as shown.

1.0 Cable Installation and Fibre Routing

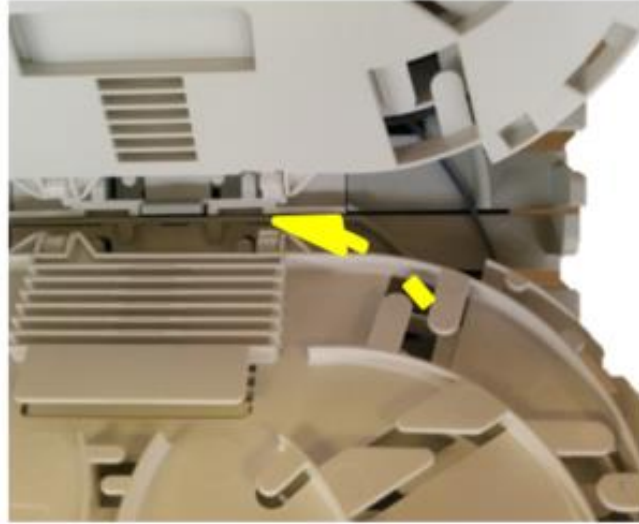
Step 5



- Route the fibres up to the appropriate splice tray by running the fibre along the track besides the trays.
- Ensure that the fibres are routed beneath the tabs in the track and manifold.

1.0 Cable Installation and Fibre Routing

Step 6

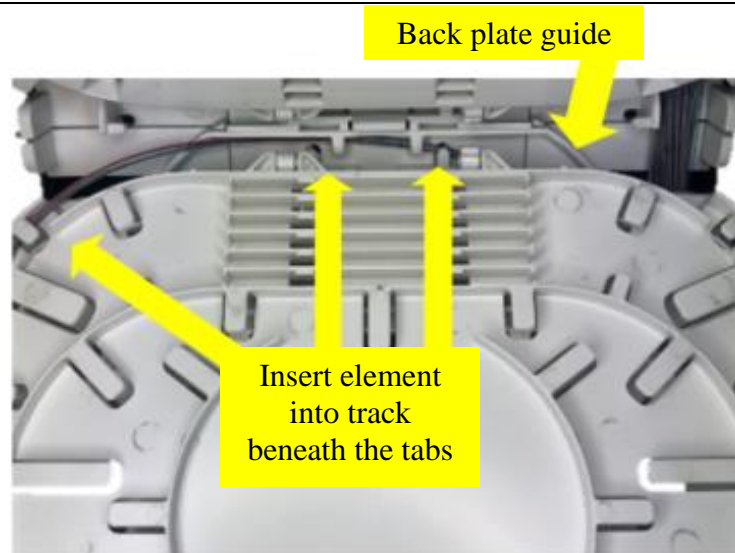


- Once the correct tray is reached, route the fibres into the track at the back of the back plate.

Note: To release the tray cover and open the trays go to step 13.

1.0 Cable Installation and Fibre Routing

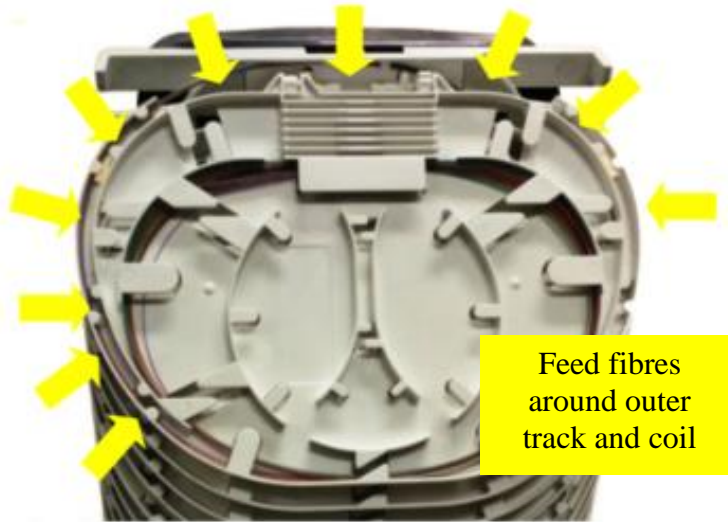
Step 7



- Feed the element underneath the tabs on the back of the manifold and route through the side channel to desired splice tray.
- Ensure the fibres are fed beneath the back-plate guide first and then secured on the back plate using the tabs.

1.0 Cable Installation and Fibre Routing

Step 8



- Route the fibres onto back plate and then around the outside channel of the splice tray and temporarily store them on the splice tray by coiling beneath the tabs of the central storage area.
- Ensure all of fibres are underneath the tabs of the side channel and the splice trays.

1.0 Cable Installation and Fibre Routing

Step 9

Splice fibres and store splice protectors in the bays



- Route the fibres from other elements by repeating steps 9 to 12.
- Route fibres from the drop cables or other input cables following the same procedure but from the other direction.
- Splice the fibres and store the splice protectors as shown above. Ensure the correct splice protectors for the tray type are installed.
- Ensure all fibres are routed beneath the tray tabs.

2.0 Splicing in the closure

2.1 Splicing to pre-installed splitters

Step 1

CMJ				
Adapter	Splitters	Pigtails	Tray location	Colour sequence
SCA/SCU	1:4		Tray 1 splitter 1 ports 1-4	N/A
	1:8		Tray 2 splitter 2 ports 5-8	N/A
LCA/LCU	1:4		Tray 1 splitter 1 ports 1-4	N/A
	1:8		Tray 1 splitter 2 ports 5-8 Tray 2 splitter 2 ports 9-16	N/A
	1:16		Tray 1 splitter 1 ports 1-16	N/A

MMJ				
Adapter	Splitters	Pigtails	Tray Location	Colour sequence
SCA/SCU	1:4		Tray 1 splitter 1 ports 1-4 Tray 2 splitter 2 ports 5-8 Tray 3 splitter 3 ports 9-12 Tray 4 splitter 4 ports 13-16 Tray 5 splitter 5 ports 17-20 Tray 6 splitter 6 ports 21-24	N/A
	1:8		Tray 1 splitter 1 ports 1-8 Tray 2 splitter 2 ports 9-16 Tray 3 splitter 3 ports 17-24	N/A
	1:16		Tray 1 splitter 1 ports 1-16	N/A
LCA/LCU	1:4		Tray 1 splitter 1 ports 1-4 Tray 2 splitter 2 ports 5-8 Tray 3 splitter 3 ports 9-12 Tray 4 splitter 4 ports 13-16 Tray 5 splitter 5 ports 17-20 Tray 6 splitter 6 ports 21-24	N/A
	1:8		Tray 1 splitter 1 ports 1-8 Tray 2 splitter 2 ports 9-16 Tray 3 splitter 3 ports 17-24 Tray 4 splitter 4 ports 25-32 Tray 5 splitter 5 ports 33-40 Tray 6 splitter 6 ports 41-48*	N/A
	1:16		Tray 1 splitter 1 ports 1-16 Tray 2 splitter 2 ports 17-32 Tray 3 splitter 3 ports 33-48*	N/A

- Locate the splitter input fibre and element(s) to be spliced.
- Splice as required and route fibres around the tray to secure.
- Repeat for each splitter.

NOTE: Maximum 1 splitter per tray. CMJ has two trays, MMJ has six trays.

2.2 Splicing to pre-installed pigtails

Step 2

CMJ															
Adapter	Splitters	Pigtails	Tray location	Colour sequence											
SCA/SCU		Up to 12	Tray 1 ports 1-12	1	2	3	4	5	6	7	8	9	10	11	12
LCA/LCU		12	Tray 1 ports 1-12	1	2	3	4	5	6	7	8	9	10	11	12
		24	Tray 2 ports 13-24	13	14	15	16	17	18	19	20	21	22	23	24

MMJ															
Adapter	Splitters	Pigtails	Tray Location	Colour sequence											
SCA/SCU		12	Tray 1 ports 1-12	1	2	3	4	5	6	7	8	9	10	11	12
		24	Tray 2 ports 13-24	13	14	15	16	17	18	19	20	21	22	23	24
LCA/LCU		12	Tray 1 ports 1-12	1	2	3	4	5	6	7	8	9	10	11	12
		24	Tray 2 ports 13-24	13	14	15	16	17	18	19	20	21	22	23	24
		36	Tray 3 ports 25-36	25	26	27	28	29	30	31	32	33	34	35	36
		48*	Tray 4 ports 33-48	37	38	39	40	41	42	43	44	45	46	47	48

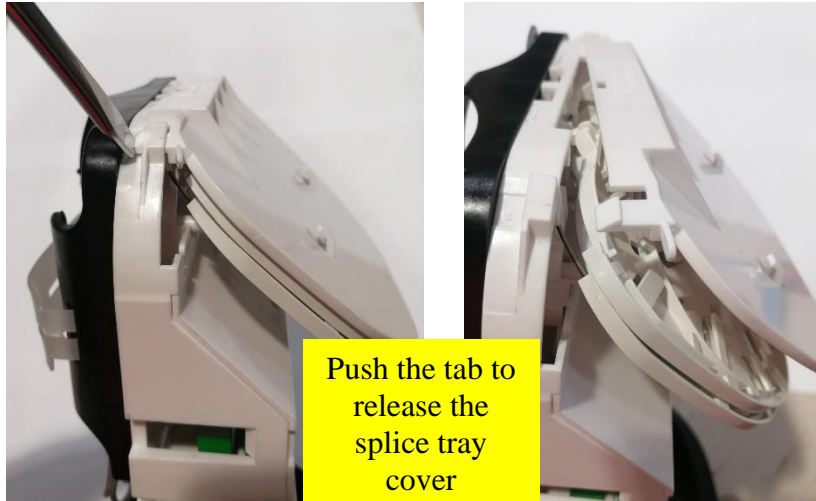
- Follow the label on the manifold cover to splice the correct fibre from the incoming element to the required pigtail/adaptor position.
- Splice as required and route fibre around the tray to secure.
- Repeat for each required splice.

NOTE: As standard, 12 pigtails will be routed to each tray.

3.0 Splice Tray Cover

3.1 Splice Tray Cover Removal

Step 13



- Push the tab on one side and gently pull the tray cover towards you at the same time (use tool if necessary).
- Repeat for the other side to remove the cover.
- Set the cover aside until required to close.

3.2 Splice Tray Cover Installation

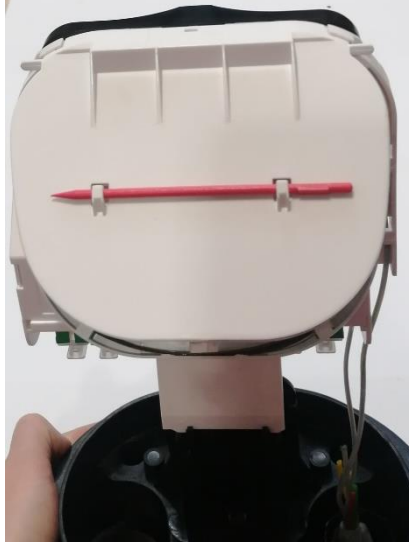
Step 10



- Align the splice tray cover with the back plate and insert the tabs into the slots.
- Ensure the clips are engaged so the cover is secure.

3.2 Splice Tray Cover Installation

Step 12



- Correctly installed splice tray cover.

4.0 Joint Closedown

Step 21



- Ensure all splice trays are lying flat and all covers are secured.

5.0 Joint Closedown

Step 22



- Ensure that the ‘O’ seal and adjacent surfaces of the base and cap are clean. Lower the cap onto the base.
- Assemble the clamp around the base.

5.0 Joint Closedown

Step 23

Push the toggle arm
to lock the clamp



- Squeeze the clamp together and engage the toggle arm. Push the toggle arm into the clamp to lock and seal.

Closure is closed down