



IFDF Pre-terminated cables

This document will assist you in installing AFL's pre-terminated and bundled cable assemblies into the IFDF Sub-frame modules. These assemblies often form part of the backbone of a fibre network and usually connects the IFDF to other racks or Zoned distribution enclosures.

These cable assemblies are usually supplied with MTP or LC connectors and can be installed in any position within the frame. Please contact your account manager at AFL if you have any questions or feedback about these products or the instructions.

Bundled MTP cables

- These bundled, or sub-group, cables usually contain 4, 8 or 12 MTP connectors per end
- They are usually supplied with a breakout length of 900 mm. i.e. distance between the connectors and the heatshrink breakout point
- These cables are supplied with a female MTP connector. The male is contained within the cassette
- All connectors are numbered for identification. i.e. 1, 2, 3 etc
- There are 2 types of MTP-LC cassettes available. 24 fibre and 48 fibre. Also available in OM4 and OS1
- The 24 fibre MTP-LC low profile cassette and can be used with 2 x 12 F OM4 / OS1 MTP cables. A high density 24F OM4 / OS1 MTP cable can also be used with this cassette. **Figure 1** shows the low profile MTP-LC cassette.
- The 48 fibre MTP-LC high density cassette and can be used with 2 x 24 F OM4 / OS1 MTP cables. **Figure 2** shows the high density cassette



Figure 1.
24 Fibre MTP to LC cassette



Figure 2.
48 Fibre MTP to LC cassette

IFDF Pre-terminated cables

Installing the bundled MTP cables

- Bundled cables can enter the IFDF from the top or bottom of the frame. The large rectangular openings allow cables to enter from under floor cable trays or overhead cable raceways.
- Feed the bundled connectors into the required brush strip opening, to a point where the breakout is approximately 100 mm above the required Sub-frame module
- Tie the outer jacket of the bundled cables to the cable tray using medium sized cable ties or Velcro straps. See **Figure 3**

Do not over tighten the ties as this could introduce some attenuation in the optical signal

- Install the cassette into the required location within the Sub-frame module.
Note: when using the high density 48 F MTP-LC cassette, remove the filler panel from the swing out tray. See **Figures 4, 5, and 6**
- Feed the MTP lead(s) through the rear divider and into the required tray. See **Figure 3**
- The incoming MTP leads(s) can be connected to the rear of the cassette and the cable managed as shown in **Figure 7**

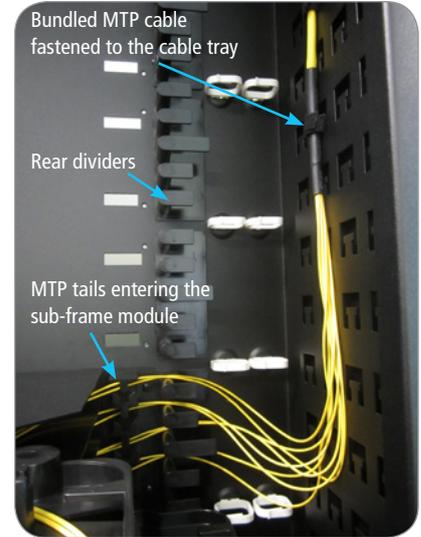


Figure 3.
MTP leads entering the swing out tray



Figure 4.
Cutting the LHS



Figure 5.
Cutting the RHS

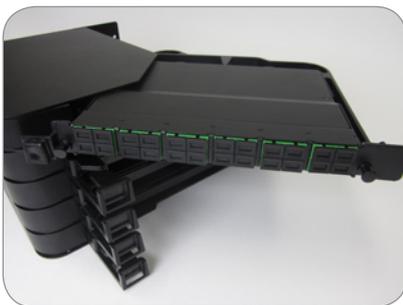


Figure 6.
Cassette installed

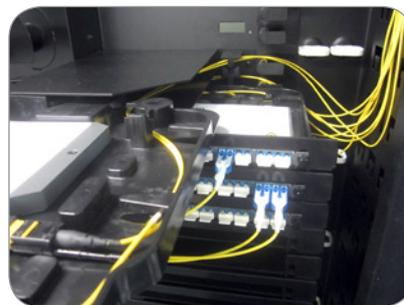


Figure 7.
MTP leads connected to the cassette

- Repeat this process for additional bundled MTP cables.
- They have a breakout length of 900 mm. i.e. distance between the connectors and the heatshrink breakout point.

IFDF Pre-terminated cables

Preterminated riser cables

- These cables are usually supplied in a 12 or 24 fibre LC-LC configuration.
- All connector pairs are numbered for identification. i.e. 1, 2, 3 etc.
- They are available in OM4 and OS1 fibre types.
- The connectors are loaded directly into the swing out tray and connected to a patch panel

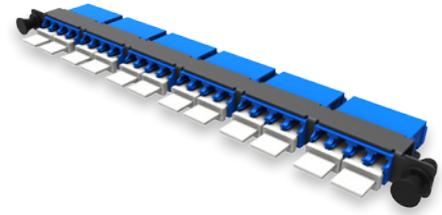


Figure 8.
24 fibre LC patch panel

Installing Preterminated riser cables

- Preterminated riser cables can enter the IFDF from the top or bottom of the frame. The large rectangular openings allow cables to enter from under floor cable trays or overhead cable raceways.
- Feed the bundled connectors into the required brush strip opening, to a point where the breakout is approximately 100 mm above the required Sub-frame module
- Tie the outer jacket of the cable to the cable tray using medium sized cable ties or Velcro straps. Similar to the method shown in **Figure 3**.

Do not over tighten the ties as this could introduce some attenuation in the optical signal

- Install the patch panel into the required location within the Sub-frame module
- Install the cable clip into the swing out tray as shown in **Figure 9**
- Feed the connector tails through the rear divider and into the tray. Similar to the method shown in Figure 3.
- Load all connectors into the adaptors, in the numbered sequence, as shown in **Figure 9**
- Repeat this process for additional preterminated cables

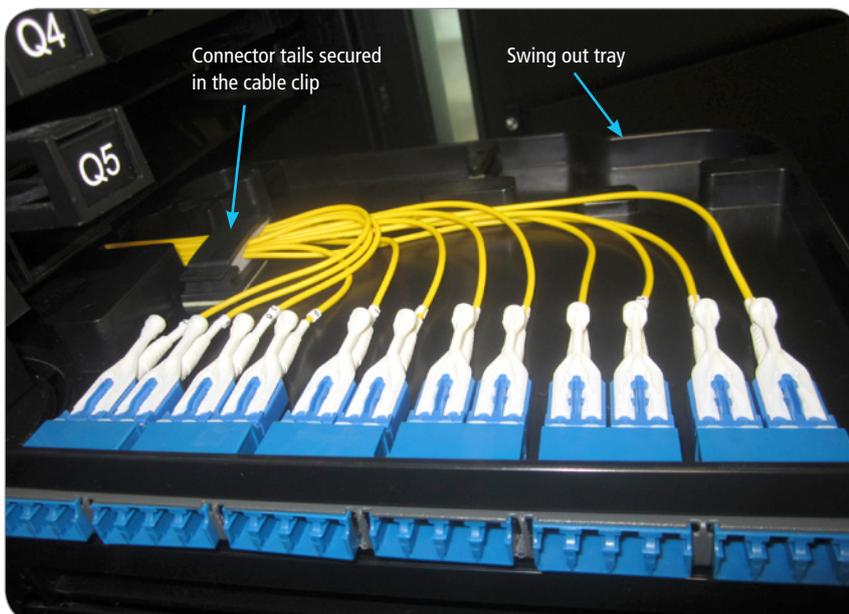


Figure 9.
24 fibre LC panel connected to a preterminated cable