

1. General

The Fibre Management Box is designed to provide a simple, secure and repeatable method of managing fibre cable when terminated in a wall or trunking application. It allows fibre cable to be run in to an outlet in a number of alternative ways detailed in *diagrams 0.1 to 0.6*

In a mixed media application, the available installation options are below:-

Fibre (Angled modules only, 50mm x 50mm)

Copper (Flat EuroMod 25mm x 50mm)

Up to 8 fibre adapters in up to 2 double modules (SC, DSC, or ST).

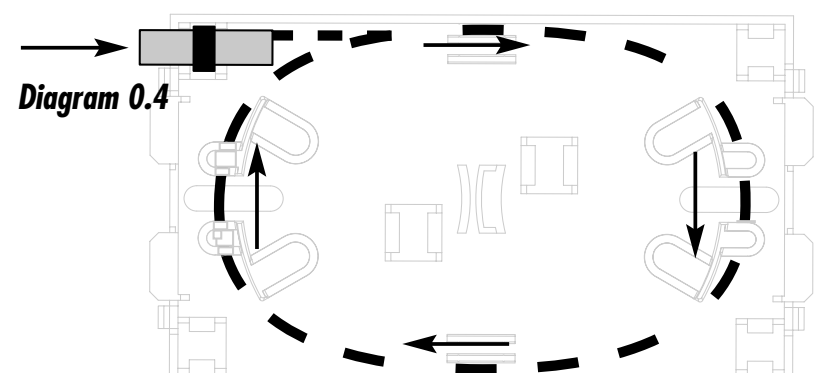
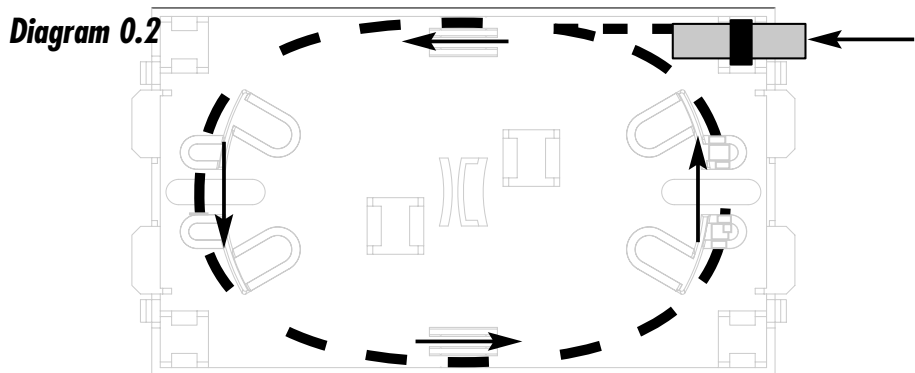
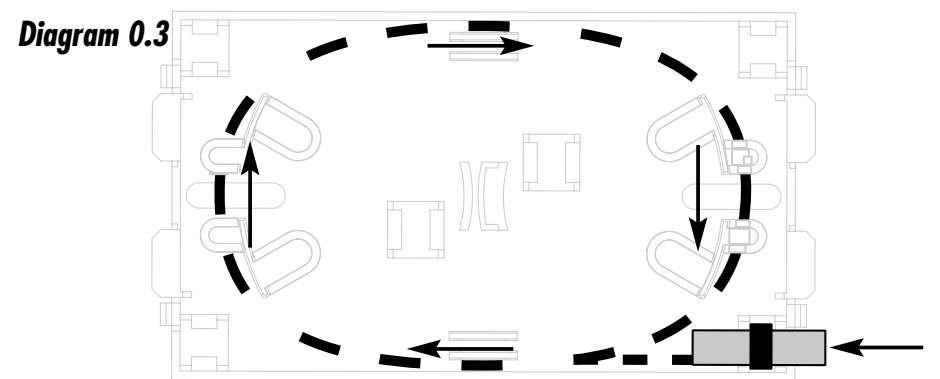
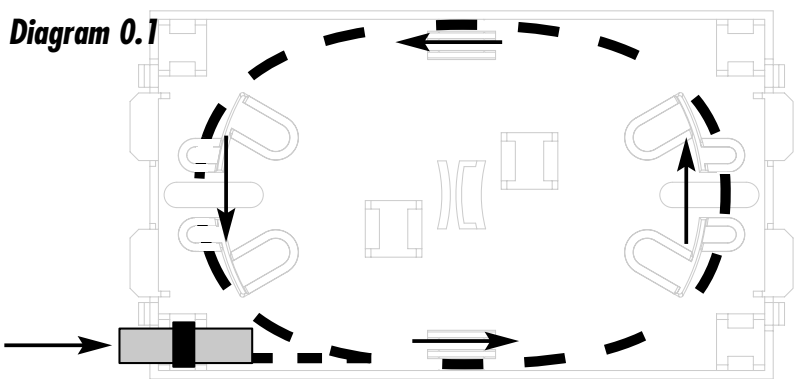
Up to 2 modules of UTP PowerCat.

Up to 2 modules of LJLP (Secondary only).

If there are other voice requirements, the UTP PowerCat module can be utilised with an external Line Adapter Unit (LAU).

2. Installation - Fibre Only

1. Run unterminated fibre cable into required entry position in the FMB with reference to *diagrams 0.1 to 0.6*.
2. Measure 1.2m of cable jacket from cable retention fixture in FMB, remove sheath and strength member. This length of spare fibre is to allow re-terminations using a fusion splice and/or pigtails in the event of fibre damaged or faulty terminations.
3. Secure sheath to retention fixture using a cable tie.
4. Arrange the cores into 2 sets of 4 and make a note of the colours of each set.
5. Take one set and fit into FMB using *diagrams 0.1 to 0.6* as guidance. Do not wind the cores tightly around the FMB. When the fibre cores are run along the top of the FMB but will not go around to the top again (~ 3 times), stop.
6. The FMB is constructed so that the fibre enters the angled module from the top "run" after it has passed the splice retention features. This is true for any cable entry point or adapter type. For example, in *diagram 0.1*, the fibres would be connected to the left hand module.



MOLEX PREMISE NETWORKS

**Molex Premise Networks
Corporate Headquarters**
Tel: 1 866 733 6659
www.molexpn.com

**European
Headquarters**
Tel: 44 (0) 1489 572111
www.molexpn.co.uk

**Pac Rim
Headquarters**
Tel: 61 3 9971 7111
www.molexpn.com.au

**Molex
Incorporated**
Tel: 630 969 4550
www.molex.com

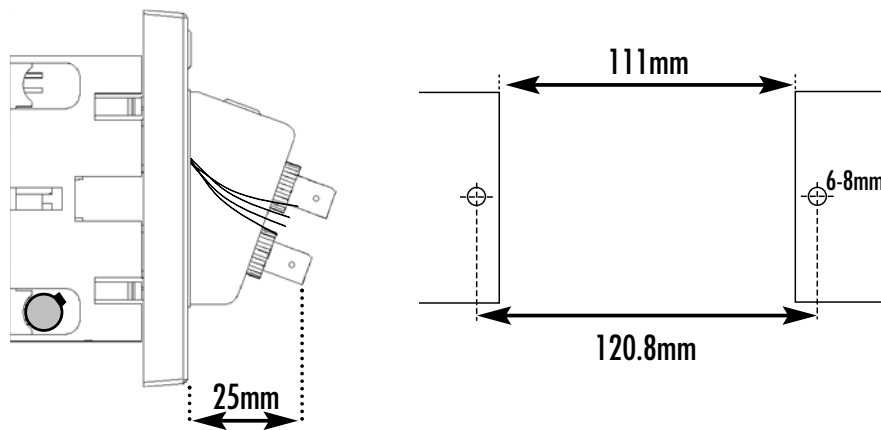
©2001, Molex Premise Networks Printed in the UK Form# 315-158 Issue 1

2. Installation - Fibre Only (Cont..)

7. Take the 4 cores and arrange with gentle bends (*ensuring no stress is placed on the fibre*) so that the fibres will mate with the adapters in the centre of the module cutout (see diagram 0.7). Measure 25mm from the bezel / faceplate of the wallplate and cleave the fibres to this length. Secure cleaved fibres to one side so there is easy access to the centre of the management features.
8. Take the other 4 cores and fit into FMB using the inside of the management features (see diagrams 1.1 Grey Fibres).
9. In order that a mirror image of the L.H fibre pathway can be utilised, the FMB has a centre feature which allows the direction of the fibre to be reversed (see diagram 1.2.). Before the 4 cores are run through this feature however, they must be routed around the outside of the management features before passing through the centre feature. This is to ensure the bend radii are kept within the specified limits. On the last circuit of the FMB, run the cores through the centre feature and repeat number 7.
10. Release the 8 cores from the management rings to terminate comfortably.
11. Connect modules to terminated fibres ensuring that they are guided by their respective management features.
12. Secure angled modules in place.

Diagram 0.7

Trunking Cut-Out Dimensions



3. Installation - Mixed Media.

In a mixed media application, the available installation options are below:-

- Fibre (Angled modules only, 50mm x 50mm)**
- Copper (Flat EuroMod 25mm x 50mm)**

- Up to 8 fibre adapters in up to 2 double modules.
- Up to 2 modules of UTP PowerCat (SC, DSC, or ST)
- Up to 2 modules of LJP (Secondary only)

If there are other voice requirements, the UTP PowerCat module can be utilised with an external Line Adapter Unit (LAU).

Installation Procedure.

In general, the installation for the mixed media application is no different to that of fibre. If there are copper modules fitted, in whatever type or quantity, then only 1 double module (4 fibres) can be installed. If 4 core fibre is used then terminate as per the previous instructions. If 8 core fibre is used but 4 cores are left dark, the dark fibres should be managed unterminated in the inner management features. The copper modules should be terminated as normal, with the following in mind:-

1. The cable tie used to secure the cable to the retention feature on the copper module should be so placed as to minimise the depth of the module where it will not interfere with the managed fibre.
2. Ensure that the routing of the copper cable does not put any stress on the managed fibres, particularly where the cable enters the backbox - this is particularly critical on the top and bottom entry points.

Diagram 0.5

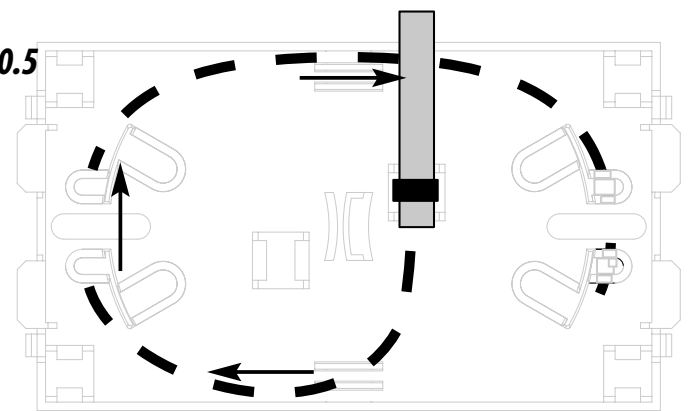


Diagram 0.6

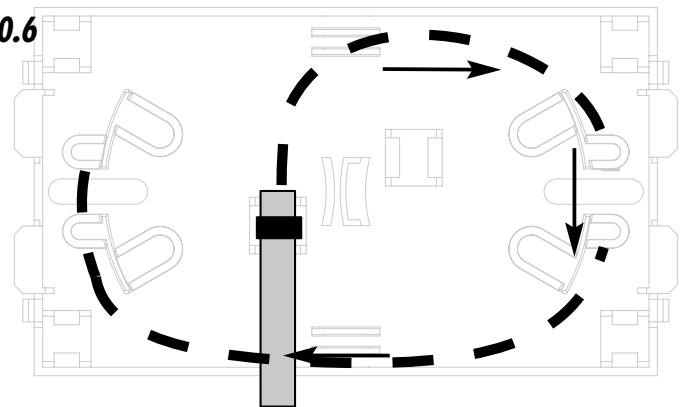


Diagram 1.1

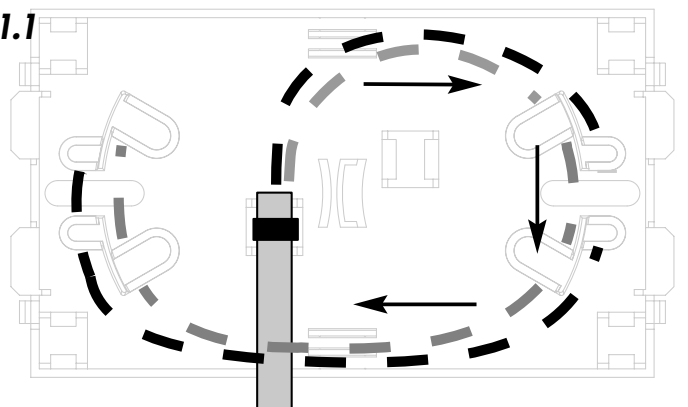


Diagram 1.2

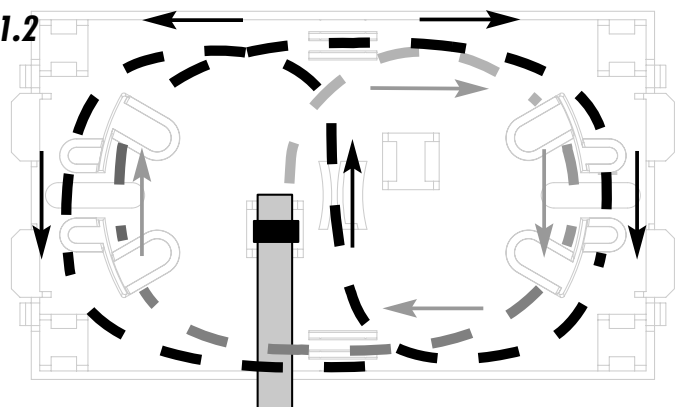


Diagram 2.0

