MPO Fan-out assemblies

The high density MPO connector allows for the simple termination of the fibre backbone. Once installed the backbone needs to have the correct interface to suit the needs of the network hardware.

The MPO fan-out is a crucial part of the system converting from the high density MPO to the interface required by your hardware. Available in either breakout or pigtail versions the MPO fan-out gives the flexibility to choose a product that perfectly meets your needs.

Using the MPO connector on preterminated fibre solutions, allows the engineer to prepare distribution panels or boxes in the comfort of a lab or workshop. This can be taken a step further by having the distribution cabinets built in a clean facility and only taken to site when the installation is due to go live. This saves time, reduces the possibility of damage to the fragile optical tails and reduces the risk of dirt ingress into fibre couplers. If preferred SofeTEK can supply distribution panels or boxes pre-assembled with the MPO fan-out installed to suit your interface requirements; contact the sales office number with your requirements.

SofeTEK has 15 years experience in manufacturing fibre optic cable assemblies using Biconic and SMA through ST, SC to today’s Small Form Factor connectors like the LC, MU, MT-RJ or SC-DC. If you have a fibre network, no matter what the technology, SofeTEK can offer you a solution to your problem.

The SofeTEK range of fibre optic assemblies has grown through the years, from everyday standard lengths to special products to meet your needs. From industry standard 62.5/125 multimode to 9/125 singlemode right the way up to state of the art OM3 50/125 cable assemblies, SofeTEK can supply them all.

With a SofeTEK assembly you can be confident you are using the very best in cable, connectors and manufacturing.
Specifications

Description
The SofeTEK MPO fanout fibre assemblies are manufactured using the best quality components. The connectors are the market leading SofeTEK range of connectors, and the cable exceeds all areas of the standards required for the assembly being produced.

Non-standard assemblies can be made to your own exacting standards in our ISO 9001 UK production facility. This encompasses all of the essential tools to ensure the products not only meet but also exceed the requirements laid down in IEC international standards for fibre optic terminations.

Optical Performance (Multimode)
Insertion loss: Max. 0.5 dB Typical 0.35 dB

Optical Performance (Singlemode)
Insertion loss: Max. 0.3 dB Typical 0.2 dB

Optical Performance (MT-RJ/MPO)
Insertion loss: Max. 0.7 dB Typical 0.5 dB

Return Loss: UPC better than 50dB
             APC better than 60dB

IEC 874-1 method

Ordering Information
For ordering information contact the Sofetek sales office

Connectors
Types: FC, FC/APC, ST, SC, ST/SC/APC, MT-RJ
Ferrule: Zirconia (MT-RJ — Polymer)

Mechanical
Length: 1000mm to 10,000mm +/- 10mm
       Other lengths available to order
Fan-out Length (Duplex): 150mm +/- 5mm
Sheath colour: 62.5/125 Yellow
               50/125 Orange
               90/125 Yellow

For information on the full range of connectors, please contact SofeTEK for a connector data sheet.

Intermateability
Optically and mechanically compatible with all equivalent connectors.
Compliant with IEC 874-14.

Product Packaging
Each fanout is individually packed and identified for traceability. A comprehensive test certificate is also supplied with each assembly.

Temperature Cycling
(IEC 874-1 sec. 4.5.22)
-40 to +75°C, 40 cycles
=0.2dB Change

High Temperature:
(IEC 874-1 sec. 4.5.18)
75°C for 96 hours
=0.2dB Change

Damp Heat:
(IEC 874-1 sec. 4.5.19)
60°C at 95% RH, 99 hours
=0.2dB Change

Vibration (Mated Pair):
(IEC 874-1 sec. 4.5.1)
10-55 Hz, 1.5mm P to P
=0.3dB Change

Mating Durability:
(IEC 874-1 sec. 4.5.32)
1000 mating cycles
Clean every 25
< 0.2 dB Change

Operating Temperature
-40°C to +65°C