

## MPO Optical Fibre Connector



The MPO connector is the latest development of the now legendary MT ferrule. This amazing technology is at the heart of many state of the art connectors. The FibreFab range of Optronics MPO connectors are capable of connecting between 4 and 12 fibres. The next generation of this ferrule will be used to terminate up to 72 fibres in a single connector. This allows totally new designs of fibre distribution, using densities unheard of before now.

The Optronics version of this interface is the market leader in this new and exciting field of optical fibre termination. Manufactured by FibreFab in our ISO 9001 approved facilities the MPO connectors give the user total flexibility in the design of their backbone, reducing costs and keeping distribution space to a minimum.

As the use of pre-terminated fibre cables grows, the MPO provides the perfect solution to the ever-present problem of protecting the terminated fibres. The small size of the MPO

allows pre-terminated fibre cable to be fed through the smallest holes, making the installation benefits of pre-terminated fibre even greater.

The high density MPO connector allows 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. Using the MPO connector on pre-terminated fibre solutions, allows you to prepare the distribution units in the comfort of your own 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 and reduces the possibility of damage to the fragile optical tails and reduces the risk of dirt ingress into Fibre couplers.

The Optronics MPO is the answer to tomorrows problems with pre-terminated fibre cable, but available from FibreFab today.

## Specifications

### Description

The MPO connectors are a very high-density small form factor connector, designed to simplify the process of pre-termination of backbone cables and reduce the space required in the distribution panels.

FibreFab has a full range of tools and products to assist you with the termination of the MPO connector. For those who prefer to purchase a full pre-terminated system FibreFab can supply all your needs.

For full information on the full range FibreFab MPO products and tooling please contact the address below for a data sheet.

### Features

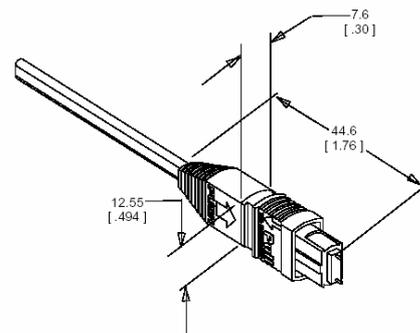
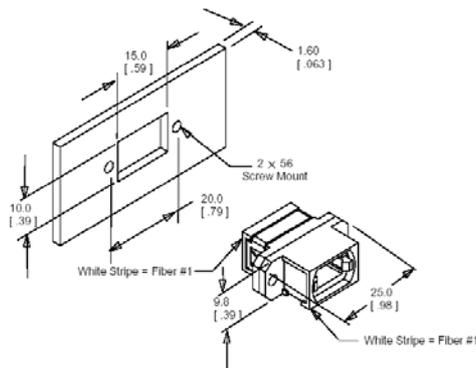
MT based Multi-fibre Connector up to 12 fibres  
Very high density connector  
Reliable quality supported by more than 15 years of FibreFab experience

### Product Packaging

Each connector kit is individually packaged

### Ordering Information

For ordering information contact the FibreFab sales office



### Intermateability

Optically and mechanically compatible with all equivalent connectors.  
Compliant with IEC 61754-7.

**Fibre Type:** 9/125SM  
50/125MM,  
62.5/125MM

**Fibre Count available:** 4, 8, 12

**Polishing:** Angled PC or Flat PC

### Insertion Loss (With master plug)

Standard Loss:  $\leq 0.75\text{dB}$   
Low Loss:  $\leq 0.35\text{dB}$

**Return Loss:**  $\geq 55\text{dB}$

**Cable Type:** Fibre Ribbon, Ribbon Cord

**Adapter Bulkhead:** Simplex

**Back plane:** Simplex, Quad

### Vibration (Mated Pair):

(IEC 61300-2-1)  
10-55 Hz, 1.5mm P to P  
 $= 0.3\text{dB}$  Change

### Mating Durability:

(IEC 61300-2-2)  
1000 mating cycles  
Clean every 25  
 $< 0.2\text{ dB}$  Change

### High Temperature:

(IEC 61300-2-18)  
75°C for 96 hours  
 $= 0.2\text{dB}$  Change

### Damp Heat:

(IEC 61300-2-19)  
60°C at 95% RH, 96 hours  
 $= 0.2\text{dB}$  Change

### Temperature Cycling

(IEC 61300-2-48)  
-40 to +75°C, 40 cycles  
 $= 0.2\text{dB}$  Change

### Operating Temperature

-40°C to +85°C

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