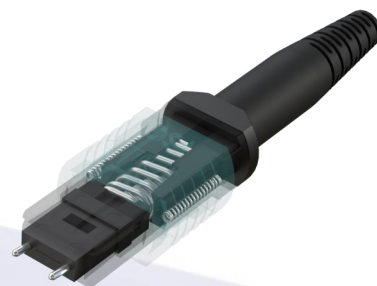
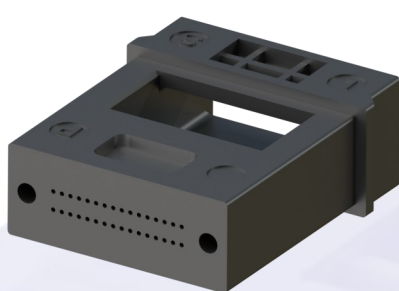




MT Ferrules



Overview

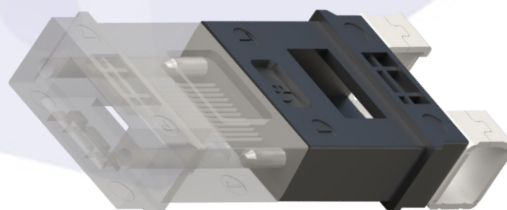
MT, standing for Mechanical Transfer, ferrules are a type of ferrule used in high-density optical fiber connectors, such as MPO connector (Multi-fiber Push On) and MTP (Multifiber Termination Push-on).

A standard MT ferrule has a square end-face of 6.4×2.5 mm that holds and aligns multiple fibers in a compact form factor. It provides improved optical performance by precisely aligning the fibers and minimizing the loss of light between them.

OFP provides MT/MPO ferrules from 12, 16, 24, 32, 36 to 48 cores, and custom solutions designs.

Advantages

- MT ferrules are a key component in high-density fiber optic connectivity and are commonly used in data centers, FTTX/A, telecom connector networks, harsh environment and aerospace connectors, transceiver and other high-bandwidth applications.
- MT ferrules provide a cost-effective solution for high-density low loss fiber optic connectivity, enabling higher fiber count and increased data transmission capacity.
- The use of MT ferrules helps reduce the amount of physical space needed for fiber optic cabling and connectivity, making the technology ideal for applications with limited space.



Guide Pins (Male Pin)

A guide pin (also known as a male pin) plays a crucial role in ensuring precise alignment and secure mating between MT ferrule connectors. It's also referred to as a male pin due to its protruding structure that fits into corresponding holes on the opposing connector. Guide pins are primarily utilized in connectors like MPO (Multi-Fiber Push-On), where multiple fibers need to be precisely aligned and mated simultaneously. It helps to guide the connectors with precision alignment during the mating process. This alignment is crucial for maintaining low insertion loss and high signal integrity in fiber optic systems. OFP offer different shapes and mechanisms for pin clamps to fit for varying devices requirements.



Optical Fiber Packaging Ltd.

Holland Centre
Holland Road Industrial Estate
Haverhill
Suffolk
England CB9 8PR UK

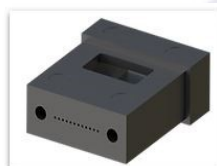
Phone: +44 (0) 1440-766636
Phone: +1 909 5765854 (USA)
E-mail: sales@ofpgco.com

www.ofpgco.com



MT Ferrule Types

Regular MT Ferrules



12 fiber



16 fiber



24 fiber



32 fiber

Short MT Ferrules



**1.25x4mm
12 fiber**



**1.25x6mm
12 fiber**



**2.5x4mm
12 fiber**



**1.25x4mm
14 fiber**

Available in various performance grades including: Multimode (MM), Multimode Low Loss (ML), Singlemode (SM) and Singlemode Low Loss

Typical Performance Specifications

Type	Fiber Hole (um)	Pin Hole (um)	Eccentricity (um)	Insertion Loss Max (dB)	Insertion Loss Typical (dB)
MM	126+2/-0	700+1/-1	2.5	0.5	0.20
ML	126+1/-0	700+1/-1	1.4	0.35	0.20
SM	125.2+1/-0	700+0/-1	1.4	0.50	0.20
SMLL	125.2+0.5/-0	699+0.5/-0	0.7	0.35	0.20

**For Part Numbers, Pricing and Delivery
contact us at sales@ofpgco.com**



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Holland Centre
Holland Road Industrial Estate
Haverhill
Suffolk
England CB9 8PR UK

Phone: +44 (0) 1440-766636
Phone: +1 909 5765854 (USA)
E-mail: sales@ofpgco.com

www.ofpgco.com