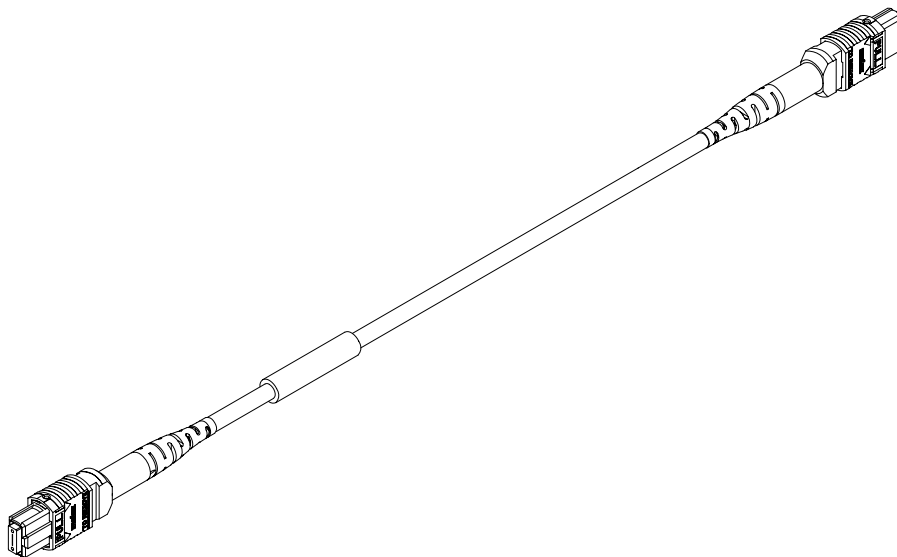


# ModLink Advanced Fiber Optic Cables >

Molex Plug and Play Advanced Fiber Optic Systems offer premium factory-controlled optical performance, enabling flexible system configuration and fast, economical installation.

ModLink is ideal for mission critical applications such as Data Centers and Storage Area Networks, applications where fast installation is paramount and environments where moves adds and changes are frequent or managed in-house.



## FEATURES AND ADVANTAGES

Round, flexible outer jacket is easy to bend, route and install

Available in Plenum (OFNP), Riser (OFNR) and LS0H constructions

Industry-leading low insertion loss (0.35dB maximum insertion loss for laser optimized OM3/OM4/OM5 cables and OS1/2 cables, 0.10dB typical)

Cables available in 8, 12 and 24 fiber constructions

ModLink Advanced Fiber Optic Cables are 100% tested

Pulling eyes installed which allow above 30 meters to protect the assembly during installation

Part number generator is available on Molex Customer Support Portal: [csp.molex.com](https://csp.molex.com)

[www.molex.com/products/fiber/pre-terminated/](https://www.molex.com/products/fiber/pre-terminated/)

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## SPECIFICATIONS

### Reference information

#### Commercial Standards:

International: ISO/IEC 11801  
North American: ANSI/TIA/EIA-568-C.3

#### Applications

Modlink systems are designed to support a variety of high-speed network topologies including:

IEEE 802.3 40GBase&100GBase, 40GBidi  
IEEE 802.3 10GBase-SR/SW 10Gbps  
IEEE 802.3 10Gbase-LX4 10Gbps  
Fiber Channel 400-M5-SN-1 4Gbps  
Fiber Channel 1200-M5E-SN1 10Gbps  
Fiber Channel FC-PH 1Gbps  
IEEE 802.3 1000Base-SX/LX 1Gbps  
FDDI 100Mbps  
IEEE 802.3 FOIRL 10Mbps  
IEEE 802.3 10Base-F 10Mbps  
ATM 155 Mbps, 622 Mbps, 1.2 Gbps, 2.4 Gbps

### Mechanical

**Durability:** 50 Cycles

**Guide Pin Retention:** 3 lbs

**Nominal Outside Diameter:**  
4.5 mm (0.177 in)

**Cable Weight:** 19 kg/km (12.8 lb/kft)

#### Minimum Bend Radius:

Install: 2.5 in (6.35cm)  
Long Term: 1.25 in (3.18cm)

**Maximum Long Term Tensile Load:**  
90 lbf (440 N)

#### Operating Temp:

-0° to 70°C (32°F to 158°F)

#### Storage Temp:

-40° to 70°C (-40°F to 158°F)

#### Installation Temp:

-0° to 70°C (32°F to 158°F)

#### Jacket Colors

Multimode 62.5µm OM1 & 50µm OM2:  
Orange  
Multimode OM3: Aqua  
Multimode OM4: Erika Violet/Aqua  
Multimode OM5: Lime green

### Electrical/Optical:

#### Maximum Insertion Loss:

OM1, OM2, OM3 Standard Construction: 0.6dB  
OM3,OM4,OM5 Low Loss Construction: 0.35dB  
OS1/2 Standard Construction: 0.75dB  
OS1/2 Low Loss Construction: 0.35 dB

#### Return Loss:

OS1/2 Standard Construction: >60dB  
OS1/2 Low Loss Construction: >60dB  
Multimode Standard Construction:>20dB  
Multimode Low loss Construction:>20dB  
Polishing:  
OS1/OS2: APC  
Multimode: PC

#### Attenuation:

Multimode OM1, OM2, OM3, OM4:  
3.5dB@850nm  
1.5dB@1300nm  
Single Mode G.657A2:  
0.38 @1300nm or 1550nm  
Multimode OM5:  
3.0dB@850nm  
2.3dB@953nm  
1.5dB@1300nm

Fiber Specification

Fiber Type	ISO Classification	Bandwidth (MHz/km)
62.5/125µm*	OM1	200/500
50/125µm*	OM2	500/500
50/125µm**	OM3	2000/500
50/125µm**	OM4	4700/500
50/125µm**	OM5	4700/2470/500
Singlemode	G.657A2	N/A

\*Measured via Overfilled Launch per TIA/EIA-455-204

\*\*850nm measured via Effective Modal Bandwidth measured via Differential Mode Delay as specified in EIA/TIA-455-220

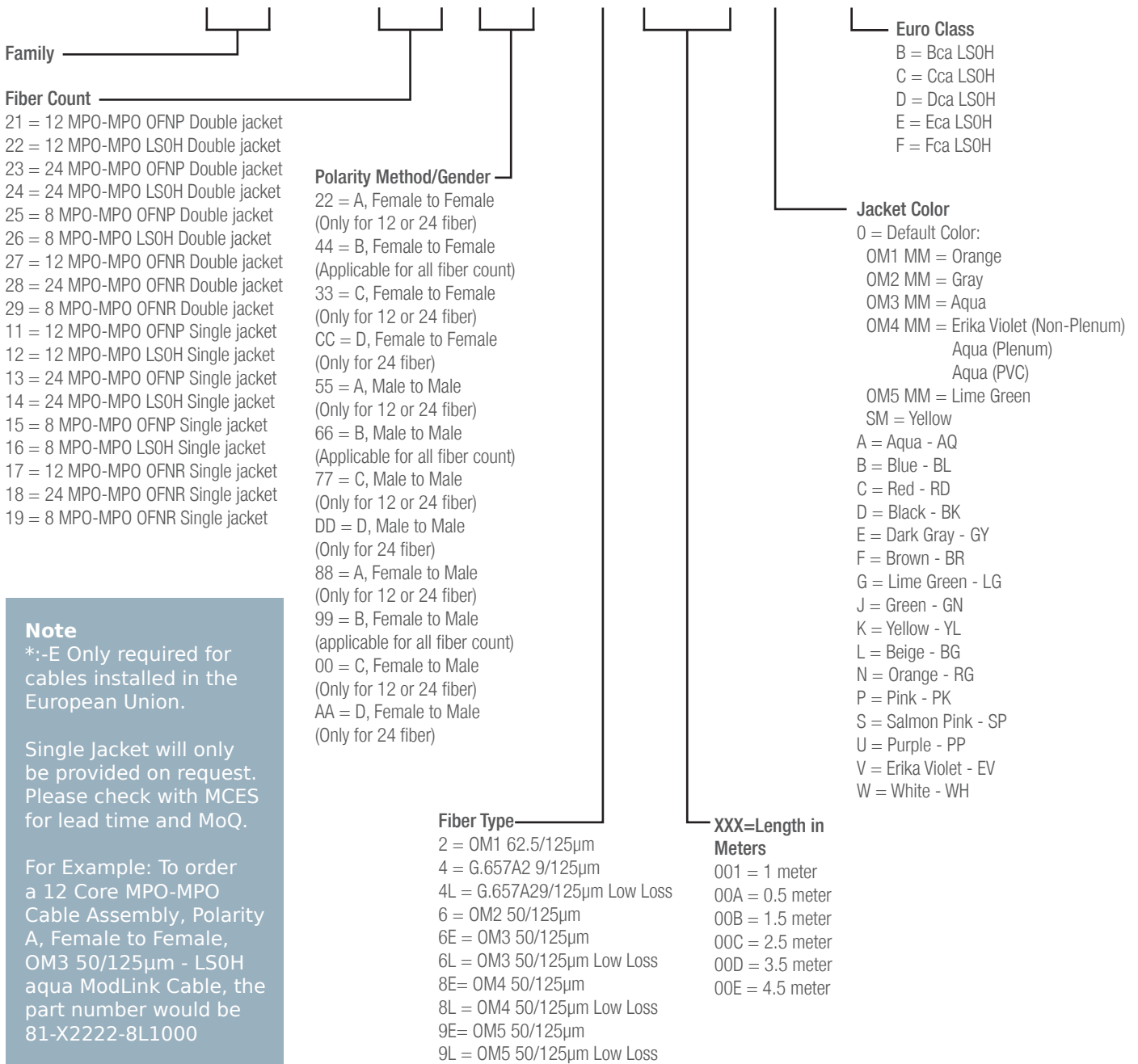
[www.molex.com/products/fiber/pre-terminated/](http://www.molex.com/products/fiber/pre-terminated/)

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## ORDERING INFORMATION

Part No. Matrix - Substitute the correct code number or letter to determine the assembly instruction

**8 1 - X A A B B - Y L L L C - E \***



**Note**  
 \*:-E Only required for cables installed in the European Union.

Single Jacket will only be provided on request. Please check with MCES for lead time and MoQ.

For Example: To order a 12 Core MPO-MPO Cable Assembly, Polarity A, Female to Female, OM3 50/125µm - LSOH aqua ModLink Cable, the part number would be 81-X2222-8L1000

[www.molexces.com/products/fiber/pre-terminated/](http://www.molexces.com/products/fiber/pre-terminated/)