

ModLink Advanced Fibre Optic Cables



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

ModLink is ideal for mission critical applications such as Data Centres 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



ModLink Advanced Fibre Optic Cable

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

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

Industry-leading low insertion loss (0.35dB Maximum Insertion Loss for Laser Optimised OM3/OM4/OM5 Cables and OS1/2 Cables, 0.10dB Typical)

Cables available in 8, 12 and 24 fibre constructions

ModLink Advanced Fibre Optic Cables are 100% tested

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

www.molexces.com

Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners. This information is correct at the time of publication, specifications are subject to change.

ModLink Advanced Fibre Optic Cables



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
Fibre Channel 400-M5-SN-1 4Gbps
Fibre Channel 1200-M5E-SN1 10Gbps
Fibre 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: 1,000 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 CHARACTERISTICS:

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 OS1/2: 0.38 @1300nm or
1550nm
Multimode OM5: 3.0dB@850nm
2.3dB@953nm
1.5dB@1300nm

FIBRE SPECIFICATION

Fibre 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	OS1/2	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.molexces.com

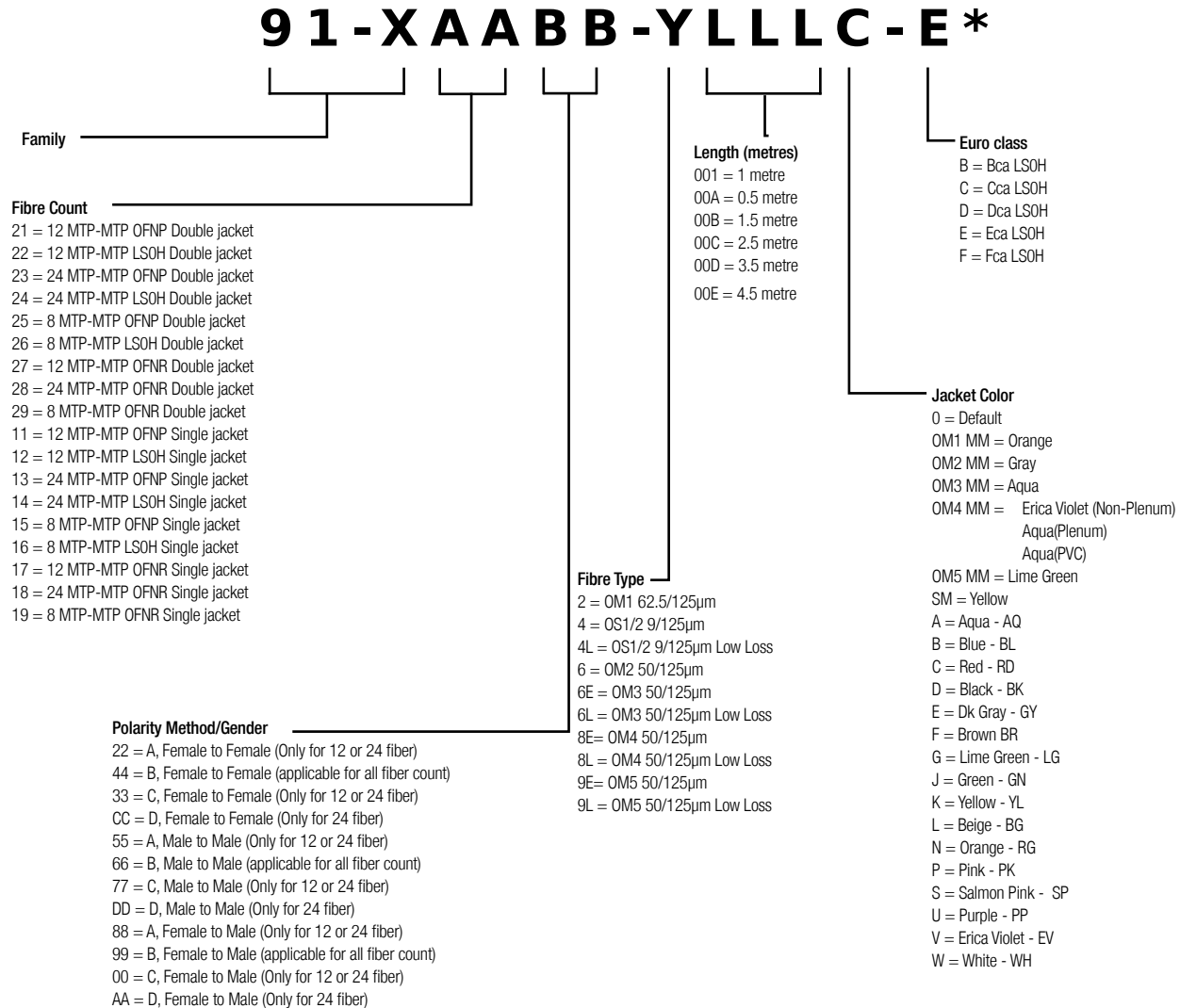
Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners. This information is correct at the time of publication, specifications are subject to change.

ModLink Advanced Fibre Optic Cables



Ordering Information

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



*:-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 MTP-MTP Cable Assembly, Polarity A, Female to Female, OM3 50/125µm - LSOH aqua ModLink Cable, the part number would be 91-X2222-8L1000

www.molexces.com

Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners. This information is correct at the time of publication, specifications are subject to change.