



Features and Benefits

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.

- Round, flexible outer jacket is easy to bend, route and install
- Available in Plenum (OFNP) and LSOH constructions
- Industry-leading low insertion loss (0.35dB Maximum Insertion Loss for Laser Optimised OM3/4 Cables and OS1/2 Cables, 0.10dB Typical)
- Cables available in 12 and 24 fibre constructions
- ModLink Advanced Fibre Optic Cables are 100% tested
- Pulling eyes installed to protect the assembly during installation

Commerical Standards

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

Reference Information

Applications
 Modlink systems are designed to support a variety of high-speed network topologies including:
 IEEE 802.3 40GBaseSR4/100GBaseSR10
 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

Technical Information

Mechanical Characteristics

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
 Laser Optimized 50µm OM3 (10G): Aqua
 Multimode OM4: Erika Violet
 Single Mode: Yellow

Electrical/Optical Characteristics

Maximum Insertion Loss:
 OM1, OM2, OM3 Standard Construction: 0.6dB
 OM3, OM4 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
 Attenuation:
 Multimode OM1, OM2, OM3, OM4: 3.5dB@850nm/
 1.5dB@1300nm
 Single Mode OS1/2: 0.38 @1300nm or 1550nm

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
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

MOLEX PREMISE NETWORKS

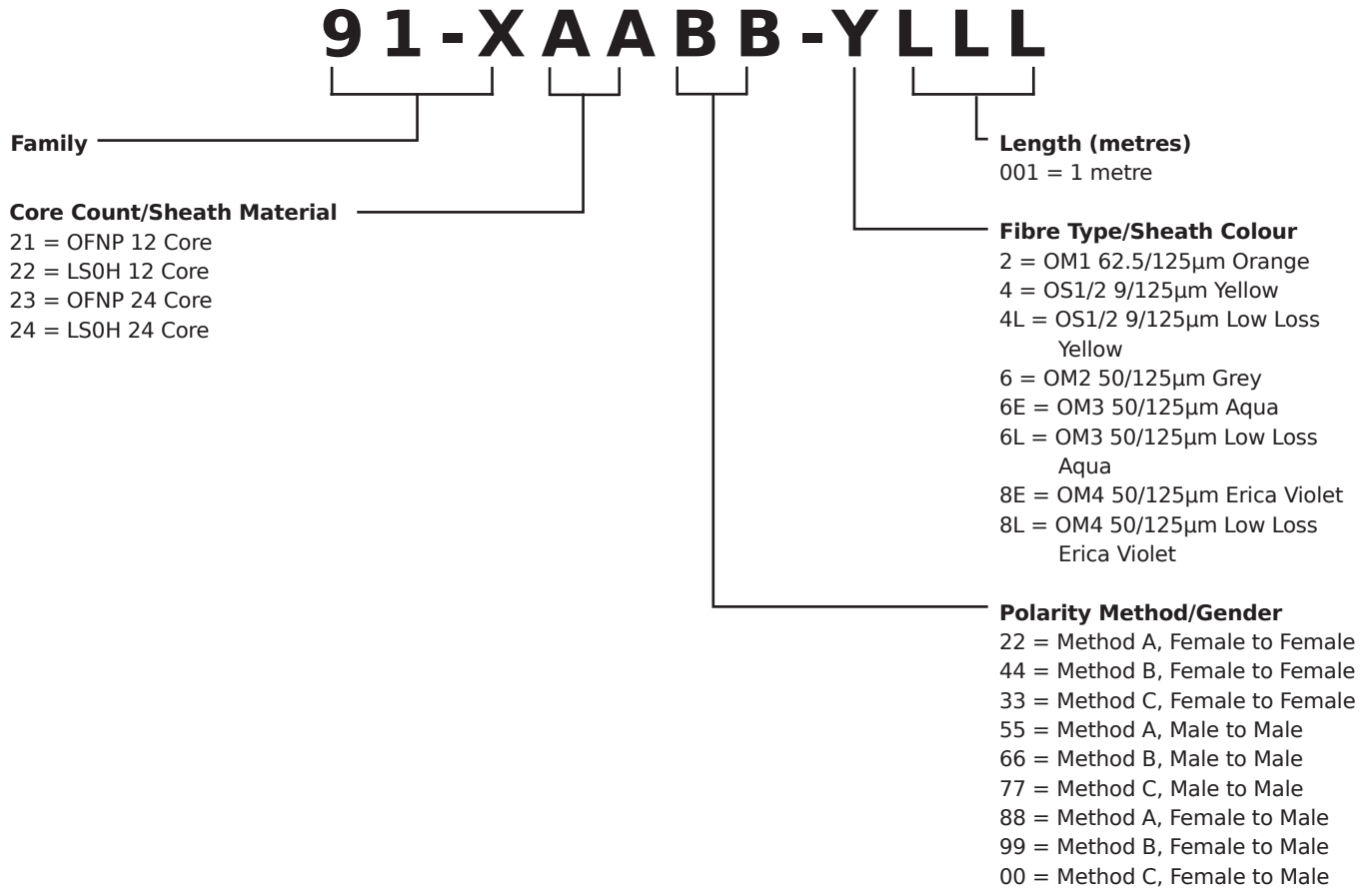
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ORDERING INFORMATION

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



For Example: To order a 12 Core MTP-MTP Cable Assembly, Polarity A, Female to Female, OM1 62.5/125UM - OFPN yellow ModLink Cable, the part number would be 91-X2122-2100

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