

Optical Fiber Patch Cords and Pigtails



Molex's Optical Fibre Patch Cords are LSOH jacketed as standard. PVC and Plenum rated cables are available at request. Molex patch cords offer factory –controlled performance in a variety of connector, ISO performance standards and lengths.



Molex has taken specific attention to the end-face geometry and fibre core alignment to ensure reliability and optimised performance

Features and Advantages

100% Factory Tested – Guaranteed performance

LSOH Jacket Standard – Reduces toxic/corrosive gasses emitted during combustion. Plenum and PVC also available

Multiple Formats available - Available in Simplex, Duplex, Single Mode, Multi Mode and a variety of connector options

Specifications

REFERENCE INFORMATION

Commercial Standards:
ISO/IEC 1108:2008, ANSI/TIA/
EIA 568.C.3, ANSI/TIA/EIA-492,
TELECORDIA GR-409, ICEA-596

Warranty:
Please refer to our website at
[http://www.molexces.com/About-Us/
Our-Warranty.html](http://www.molexces.com/About-Us/Our-Warranty.html) for terms and conditions of any
resulting warranty.

MECHANICAL

Cordage O.D.: 2.0mm +/- 0.1mm x 4.1mm +/- 0.2mm
Buffer Diameter: 900µm
Primary Coating : 245µm
Strength Member: Aramid Yarn
Jacket Material: LSOH IEC 61034-1 & 2, IEC-60332-1,
IEC-60754-1 & 2
Minimum Bend Radius Install: 3.0cm.
Long Term Bend Radius: 2.0cm
Operating Temperature: -40°C to +85°C

Cable Colour		
Colour Matrix		
OS2	9/125	Yellow
OM1	62.5/125	Orange
OM2	50/125	Grey
OM3	50/125	Aqua
OM4	50/125	EV/Aqua
OM5	50/125	Lime Green

www.molexces.com

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Optical Fibre Patch Cords



Specifications

Multimode Fiber								
			Max. Attenuation			Min. Bandwidth		
Designation	Core OD (μm)	Cladding OD (μm)	@850nm (dB/km)	@953nm (dB/km)	@1300nm (dB/km)	@850nm (MHz-km)	@953nm (MHz-km)	@1300nm (MHz-km)
OM1	62.5	125 ± 1	3.5	NA	1.0	200	NA	500
OM2	50	125 ± 1	3.5	NA	1.5	500	NA	500
OM3	50	125 ± 1	3.0	NA	1.5	2000 - DMD 1500 - OFL	NA	500
OM4	50	125 ± 1	3.0	NA	1.5	4700 - DMD 3500 - OFL	NA	500
OM5	50	125 ± 1	3.0	2.3	1.5	4700 - DMD 3500 - OFL	2470 - DMD 1850 - OFL	500

Single mode Fiber Performance						
Designation	Cladding OD (um)	Mode Field Dia	Max. Attenuation	Cut Off Wave Length	Max. Dispersion @ 1550nm	Zero Disp Wave
OS2/G.657A2	125±0.7	9.2μ ± 0.4μ @1310nm 10.4μ ± 0.5μ @ 550nm	0.33-0.35dB/KM @ 1310nm 0.31-0.35dB/km @1383nm 0.19-0.23dB/km @1550-1625nm	1260nm max.	18psec/km @1550nm 22psec/km @1625nm	1300- 1324nm

FO Connector maximum allowable values (all values in dB)							
Parameters	MM(1300nm)			SM(1310nm&1550nm)			
	ALL*	E-2000	MTRJ	ALL*	MTRJ	ALL*APC	E-2000 APC
IL values	0.30	0.30	0.50	0.30	0.50	0.30	0.30
Back Reflection	NA	NA	NA	-50.0	-30.0	-60.0	-65.0

Note *: All connector types except E-2000 and MTRJ

FO Connector low loss parameter			
Fiber Spec	Connector	Max. Insertion lose(dB)	Max. Return lose(dB)
Single Mode	SC/LC/FC APC	0.15	65
	SC/LC/FC/ST	0.15	55
Multimode	SC/LC/FC/ST	0.15	NA

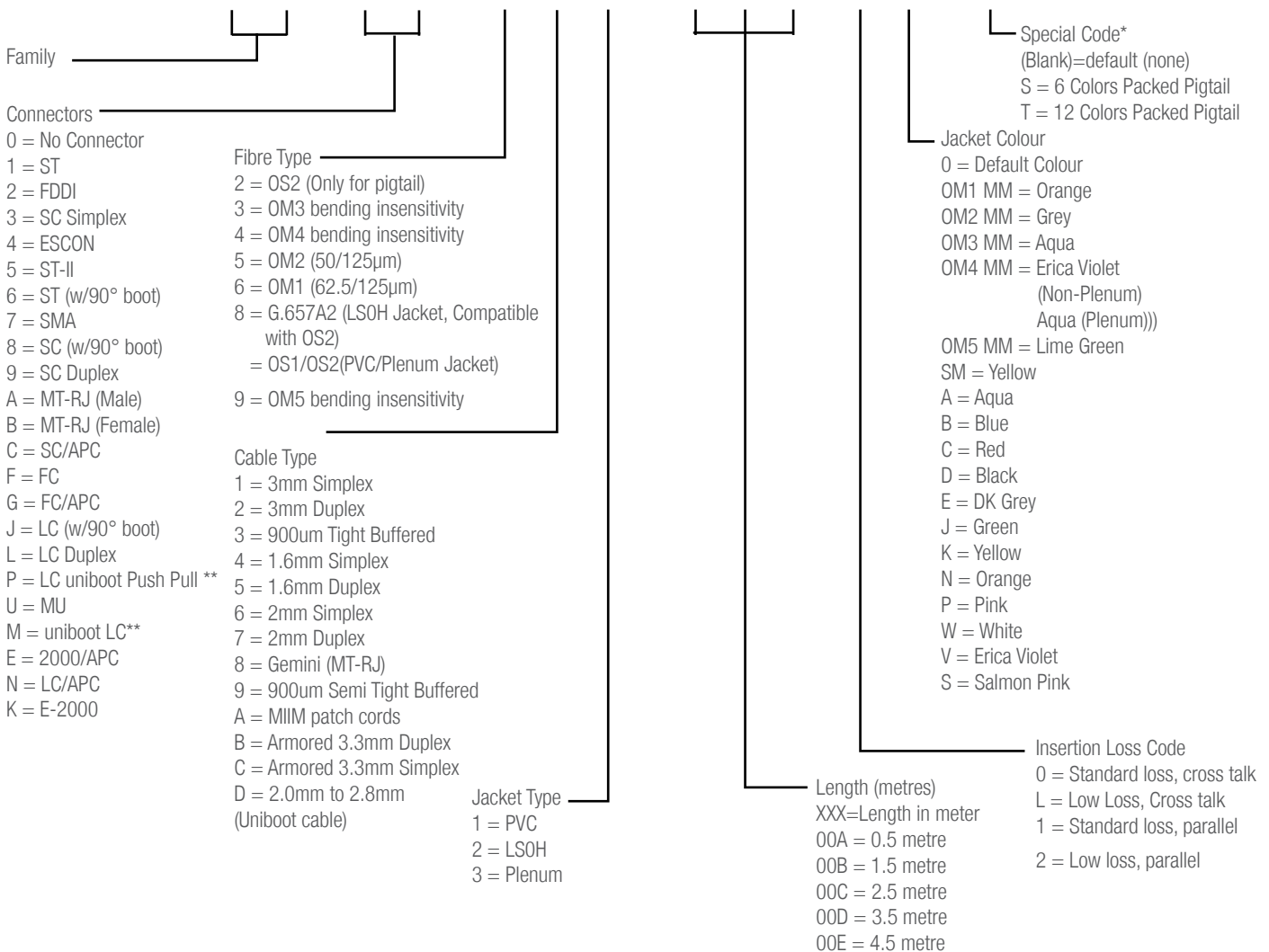
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Ordering Information

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

9 1 . X X . X X X . X X X X X - X



Note *: Speical code is not necessary when set to blank

** : LC Uniboot only can use 2.0mm to 2.8mm uniboot cable with LC uniboot connector on both ends

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