



Features and Benefits

Molex's Optical Fibre Patch Cords are LS0H 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

- 100% Factory Tested – Guaranteed performance
- LS0H Jacket Standard – Reduces toxic/corrosive gasses emitted during combustion. Plenum and PVC also available
- Multiple Formats available - Available in Simplex, Duplex, Singlemode, Multi Mode and a variety of connector options

Commerical Standards

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

Technical Information

Mechanical Characteristics

Cordage O.D.: 2.0mm +/- 0.1mm x
4.1mm +/- 0.2mm
Buffer Diameter: 900µm
Primary Coating : 245µm
Strength Member: Aramid Yarn
Jacket Material: LS0H 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		
OS1/OS2	9/125	Yellow
OM1	62.5/125	Orange
OM2	50/125	Grey
OM3	50/125 10Gig	Aqua
OM4	50/125 40Gig	Aqua

Multimode Cable						
	Core OD (µm)	Cladding OD (µm)	Attenuation @ 850nm (dB/km)	Attenuation @ 1300nm (dB/km)	Min Bandwidth @ 850nm (Mhz/km)	Min Bandwidth @ 1300nm (Mhz/km)
OM1	62.5	125 ± 1	3.5	1.0	200	500
OM2	50	125 ± 1	3.5	1.5	500	500
OM3	50	125 ± 1	3.5	1.5	2000 a 1500 b	500
OM4	50	125 ± 1	3.5	1.5	4700 - DMD 1500 - OFL	500

Singlemode Cable							
	Cladding OD (µm)	Mode Field Dia	Max. Attenuation	Cut Off Wave Length	Maximum Dispersion @ 1310nm	Maximum Dispersion @ 1550nm	Zero Disp Wave
OS1	125 ± 0.7	9.0µ ± 0.4µ @1310nm	0.4dB/km @ 1310nm to 1625nm	1260nm max.	3.2 psec/nm-km	18 psec/nm-km	1300-1324nm
OS2	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

MOLEX PREMISE NETWORKS

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EMEA
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APAC
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Technical Information

Optical Characteristics

the assembly instruction

Optical Performance						
MM (1300nm)						
	FC	SC	LC	ST	E-2000	MTRJ
Insertion Loss	0.30	0.30	0.30	0.30	0.30	0.5
Return Loss	N/A	N/A	N/A	N/A	N/A	N/A
SM (1300 & 1550nm)						
	FC	SC	LC	ST	MTRJ	
Insertion Loss	0.30	0.30	0.30	0.30	0.50	
Return Loss	-50.0	-50.0	-50.0	-50.0	-30.0	
SM APC (1300 & 1550nm)						
	FC	SC	LC	ST	E-2000	
Insertion Loss	0.30	0.30	0.30	0.30	0.30	
Return Loss	-60.0	-60.0	-60.0	-60.0	-65.0	

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

91.XX.XXX.XXXXX

Family

Connector Type, each end

0 = No Connector
 1 = ST
 2 = FDDI
 3 = SC Simplex
 4 = ESCON
 5 = ST-II
 6 = ST (90° boot)
 7 = SMA
 8 = SC (90° boot)
 9 = SC Duplex
 A = MT-RJ (Male)
 B = MT-RJ (Female)
 C = SC/APC
 F = FC
 G = FC/APC
 J = LC (90° boot)
 L = LC
 U = MU
 M = Uniboot LC

Fibre Type

2=9/125µm ITU-T G.652.D (OS2)
 3= 50/125µm 10G (OM3)
 4= 50/125µm 40G (OM4)
 5=50/125µm (OM2)
 6=62.5.125µm (OM1)
 8=9/125µm (OS1)
 9= SM Dispersion ITU-T G.655/656

Cable Type

Cables are 2.0mm Standard.
 1 = 3mm Simplex
 2 = 3mm Duplex
 3= 90µm Tight Buffered
 4=1.6mm Simplex
 5=1.6mm Duplex
 6=2mm Simplex
 7=2mm Duplex

Jacket Type

1 = PVC
 2 = LS0H Standard
 3 = Plenum
 A= PVC Bend Insensitive
 B = LS0H Bend Insensitive
 C = Plenum Bend Insensitive

Jacket Colour

0 = Default Colour
 - SM = Yellow
 - OM1 = Orange
 - OM2 = Grey
 - OM3 = Aqua
 - OM4 = Erica Violet
 B = Blue
 C = Red
 E = Grey
 J = Green
 K = Yellow
 N = Orange
 W = White

Polishing Code

0 = Default
 (MM = PC, SM = UPC)
 1 = SPC
 3 = APC
 L = Low Loss

Length (metres)

001 = 1 metre
 B = 1.5 metre
 C = 2.5 metre
 D = 3.5 metre
 E = 4.5 metre

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