

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
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

Americas
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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

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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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