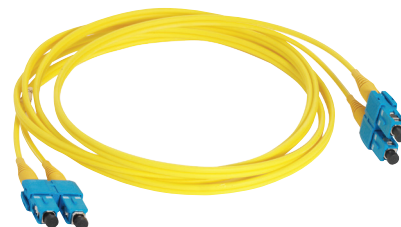


Optical Fiber Patch Cords and Pigtails >

Molex's Optical Fiber Patch Cords are LS0H jacketed as standard. PVC and Plenum rated cables are available on 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 fiber core alignment to ensure reliability and optimized performance.



FEATURES AND ADVANTAGES

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, Single Mode, Multi Mode and a variety of connector options

SPECIFICATIONS

REFERENCE INFORMATION

Commercial Standards:

ISO/IEC 11801-1:2017, ANSI/TIA/ EIA 568.3-D,
ANSI/TIA/EIA-492, TELECORDIA GR-409,
ICEA-596, AS/CA S008:2020

Warranty:

Please refer to our website at
<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 :

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		
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

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Optical Fiber Patch Cords and Pigtails

SPECIFICATIONS

Multimode Fiber								
Designation	Core OD (μm)	Cladding OD (μm)	Max. Attenuation			Min. Bandwidth		
			@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

Singlemode Fiber Performance						
Designation	Cladding OD (μm)	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 loss (dB)	Max Return Loss (dB)
Singlemode	SC/LC/FC/APC	0.15	65
	SC/LC/FC/ST	0.15	55
Multimode	SC/LC/FC/ST	0.15	N/A

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Optical Fiber Patch Cords and Pigtails >

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

Family

Connectors

0 = No Connector
 1 = ST
 2 = FDDI
 3 = SC Simplex
 4 = ESCON
 5 = ST-II
 6 = ST (w/90° boot)
 7 = SMA
 8 = SC (w/90° boot)
 9 = SC Duplex
 A = MT-RJ (Male)
 B = MT-RJ (Female)
 C = SC/APC
 F = FC
 G = FC/APC
 J = LC (w/90° boot)
 L = LC Duplex
 P = LC Uniboot Push Pull **
 U = MU
 M = Uniboot LC**
 E = 2000/APC
 N = LC/APC
 K = E-2000

Fiber Type

2 = OS2 (Only for pigtail)
 3 = OM3 bending insensitivity
 4 = OM4 bending insensitivity
 5 = OM2 (50/125μm)
 6 = OM1 (62.5/125μm)
 8 = G.657A2 (LSOH Jacket, Compatible with OS2)
 = OS1a/OS2(PVC/Plenum Jacket)
 9 = OM5 bending insensitivity

Cable Type

1 = 3mm Simplex
 2 = 3mm Duplex
 3 = 900um Tight Buffered
 4 = 1.6mm Simplex
 5 = 1.6mm Duplex
 6 = 2mm Simplex
 7 = 2mm Duplex
 8 = Gemini (MT-RJ)
 9 = 900μm Semi Tight Buffered
 A = MIIM patch cords
 B = Armored 3.3mm Duplex
 C = Armored 3.3mm Simplex
 D = 2.0mm to 2.8mm (Uniboot cable)

Jacket Type

1 = PVC
 2 = LSOH
 3 = Plenum

Special Code*

(Blank)=default (none)
 H = Length in Feet for global market
 F = Length in Feet for India market
 S = 6 Colors Packed Pigtail
 T = 12 Colors Packed Pigtail

Jacket Color

0 = Default Color
 OM1 MM = Orange
 OM2 MM = Gray
 OM3 MM = Aqua
 OM4 MM = Erika Violet (Non-Plenum)
 Aqua (Plenum)))
 OM5 MM = Lime Green
 SM = Yellow
 A = Aqua
 B = Blue
 C = Red
 D = Black
 E = Dark Gray
 J = Green
 K = Yellow
 N = Orange
 P = Pink
 W = White
 V = Erika Violet
 S = Salmon Pink

Insertion Loss Code

0 = Standard Loss, Crosstalk
 L = Low Loss, Crosstalk
 1 = Standard Loss, Parallel
 2 = Low Loss, Parallel

XXX=Length in Meter/Feet, Feet start from 002

XXX=Length in meter
 00A = 0.5 meter
 00B = 1.5 meter
 00C = 2.5 meter
 00D = 3.5 meter
 00E = 4.5 meter

Note *: Special 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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