

Features and Benefits

Molex offers a comprehensive range of Fibre Optic Pigtail assemblies for OM1, OM2, OM3, OM4 Multimode type & OS1, OS2 Singlemode type applications.

- Standard or custom assemblies
- Precision ferrule endface geometry
- Controlled fibre protrusion
- Factory polished, tested and serialized.

Commerical Standards

ISO/IEC 1108:2008, ANSI/TIA/EIA-568-C.3, EIA 492, Telecordia GR-409, ICEA-596, OS2-STD ITU-T-G652 D, LSOH* IEC 61034-1&2, IEC-60332-1, IEC 60754-1&2 standards

RoHS Compliant

Technical Information

Characteristics

Cable: 900um Buffered
 Outside Diameter: 900um
 Buffer Diameter: 900um tight buffer
 Minimum bend radius: install: 30 mm
 Operating Temperature: -20°C to 75°C
 Retention Strength: 100N
 Cable Sheath: PVC / LSOH*
 Colour: Random



Optical Characteristics

Multimode Cable						
Designation	Core OD (um)	Cladding OD (um)	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

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

MOLEX PREMISE NETWORKS

Americas
 Tel: 630 969 4550
 www.molexpn.com

EMEA
 Tel: 44 (0)2392 205800
 www.molexpn.co.uk

APAC
 Tel: 61 3 9971 7111
 www.molexpn.com.au

Optical Performance

MM (1300nm)

	SC	LC
Insertion Loss	0.30 dB	0.30 dB

SM (1300 & 1550nm)

	SC	LC
Insertion Loss	0.30 dB	0.30 dB

ORDERING INFORMATION-SC Pigtail

Order No.	SAP No.	Description
91.30.631.xxx00	Consult Molex	SC, Multimode, 62.5/125 µm (OM1), Pigtail-PVC
91.30.531.xxx00	Consult Molex	SC, Multimode, 50/125 µm (OM2), Pigtail-PVC
91.30.331.xxx00	Consult Molex	SC, Multimode, 50/125 µm (OM3), Pigtail-PVC
91.30.431.xxx00	Consult Molex	SC, Multimode, 50/125 µm (OM4), Pigtail-PVC
91.30.831.xxx00	Consult Molex	SC, Singlemode, 9/125 µm (OS1), Pigtail-PVC
91.30.231.xxx00	Consult Molex	SC, Singlemode, 9/125 µm (OS2), Pigtail-PVC
91.30.632.xxx00	Consult Molex	SC, Multimode, 62.5/125 µm (OM1), Pigtail-LS0H
91.30.532.xxx00	Consult Molex	SC, Multimode, 50/125 µm (OM2), Pigtail-LS0H
91.30.332.xxx00	Consult Molex	SC, Multimode, 50/125 µm (OM3), Pigtail-LS0H
91.30.432.xxx00	Consult Molex	SC, Multimode, 50/125 µm (OM4), Pigtail-LS0H
91.30.832.xxx00	Consult Molex	SC, Singlemode, 9/125 µm (OS1), Pigtail-LS0H
91.30.232.xxx00	Consult Molex	SC, Singlemode, 9/125 µm (OS2), Pigtail-LS0H

ORDERING INFORMATION-LC Pigtail

Order No.	SAP No.	Description
91.L0.631.xxx00	Consult Molex	LC, Multimode, 62.5/125 µm (OM1), Pigtail-PVC
91.L0.531.xxx00	Consult Molex	LC, Multimode, 50/125 µm (OM2), Pigtail-PVC
91.L0.331.xxx00	Consult Molex	LC, Multimode, 50/125 µm (OM3), Pigtail-PVC
91.L0.431.xxx00	Consult Molex	LC, Multimode, 50/125 µm (OM4), Pigtail-PVC
91.L0.831.xxx00	Consult Molex	LC, Singlemode, 9/125 µm (OS1), Pigtail-PVC
91.L0.231.xxx00	Consult Molex	LC, Singlemode, 9/125 µm (OS2), Pigtail-PVC
91.L0.632.xxx00	Consult Molex	LC, Multimode, 62.5/125 µm (OM1), Pigtail-LS0H
91.L0.532.xxx00	Consult Molex	LC, Multimode, 50/125 µm (OM2), Pigtail-LS0H
91.L0.332.xxx00	Consult Molex	LC, Multimode, 50/125 µm (OM3), Pigtail-LS0H
91.L0.432.xxx00	Consult Molex	LC, Multimode, 50/125 µm (OM4), Pigtail-LS0H
91.L0.832.xxx00	Consult Molex	LC, Singlemode, 9/125 µm (OS1), Pigtail-LS0H
91.L0.232.xxx00	Consult Molex	LC, Singlemode, 9/125 µm (OS2), Pigtail-LS0H

replace "xxx" with lengths in metres (i.e., 00B=1.5 metre, 002= 2metres, 010=metres)

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