

# Pre-Terminated Fibre Optic Leads



**Molex Pre-Terminated Fibre Optic Leads offer premium factory-controlled optical performance on a variety of connectors that enable fast, economical installation.**

Pre-Terminated Leads are ideal for mission-critical backbone applications such as Data Centre tie cables and low optical loss backbone riser cables.



## Features and Advantages

Available in 50/125µm and 62.5/125µm MM and 9/125µm SM fibre versions

Fibres compliant to ISO/IEC 11801 fibre specifications

Wide variety of connector and cable types offered

Cable length built to customer requirements

Available in Singlemode & Multimode versions

Premium factory optical performance guaranteed

All assemblies are 100% factory tested

Factory test results shipped with every assembly

## Specifications

### REFERENCE INFORMATION

Commercial Standards:

ISO/IEC 11801

AS/CA S008:2020

Cable Performance

See appropriate Molex Fiber Optic Cable specification sheet for cable performance details

### Applications

IEEE 802.3ba

Fibre Channel 400-M5-SN-1

Fibre Channel 1200-M5E-SN1

Fibre Channel FC-PH

IEEE 802.3z

FDDI

IEEE 802.3 FOIRL

IEEE 802.3 10Base-F

ATM 155 Mbps, 622 Mbps,

10Gbps

4Gbps

10Gbps

1Gbps

1Gbps

100Mbps

10Mbps

10Mbps

1.2 Gbps.

2.4 Gbps

### Minimum Bandwidth (MHz/km)

62.5/125µm OM1: 200/500

50/125µm OM2: 500/500

50/125µm OM3: 2000/500

50/125µm OM4: 4700/500

50/125µm OM5: 4700/2470/500

9/125µm OS2: N/A

[www.molexces.com](http://www.molexces.com)

Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners. This information is correct at the time of publication, specifications are subject to change.

Order No. 91XXXXXXXXXXXXXXXX

AUS/0k/SJ/2021.09

©2021 Molex

# Pre-Terminated Fibre Optic Leads



Maximum Standard Loss Connector Performance (all values in dB)						
Parameters	mm(850nm/1300nm)		SM(1310nm/1550nm)			
	All	MTRJ	All	MTRJ	All APC	E-2000/APC
IL values	0.30	0.50	0.30	0.50	0.30	0.30
Back reflection	NA	NA	-50.0	-30.0	-60.0	-65.0

Maximum Low Loss Connector Performance (all values in dB)				
Parameters	mm(850nm/1300nm)		SM(1310nm/1550nm)	
	SC/LC/FC/ST	SC/LC/FC/ST UPC	SC/LC/FC APC	SC/LC/FC APC
IL values	0.15	0.15	0.15	0.15
Back reflection	NA	-60.0	-65.0	-65.0

Multimode Fiber Performance								
Designation	Core OD (um)	Cladding OD (um)	Max. Attenuation			Min. Bandwidth		
			@850nm	@953nm	@1300nm	@850nm	@953nm	@1300nm
			(dB/km)	(dB/km)	(dB/km)	(MHz-km)	(MHz-km)	(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	1.0	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	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

[www.molexces.com](http://www.molexces.com)

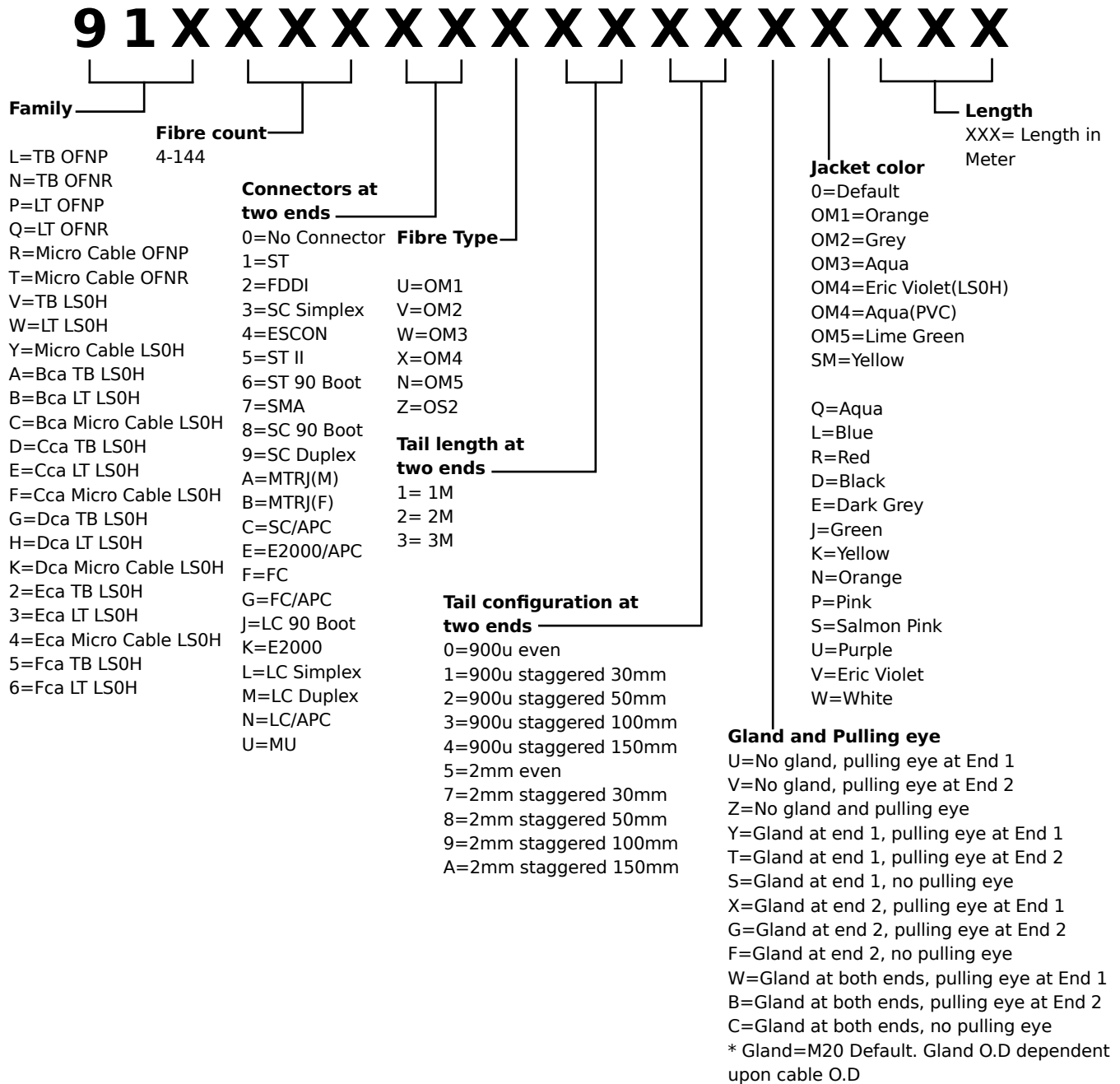
Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners. This information is correct at the time of publication, specifications are subject to change.

# Pre-Terminated Fibre Optic Leads



## Ordering Information

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



\* Micro-core cable only for 48 and above cores numbers