

# Optic Fibre Tails

**MEGANet™ LIGHTspeed Optic Fibre Tails are manufactured to give optimum optical performance in a single mode as well as multi mode application. LIGHTspeed fibre tails are manufactured with a Low Smoke Zero Halogen (LSZH) buffer**

LIGHTspeed Optic Fibre Tails are used for high speed metropolitan and access networks i.e. Gigabit Ethernet, Fast Ethernet and Ethernet. These tails conform to IEC, EIA TIA and Telecordia standards. For optimal performance, these leads are all terminated with premium quality connectors.



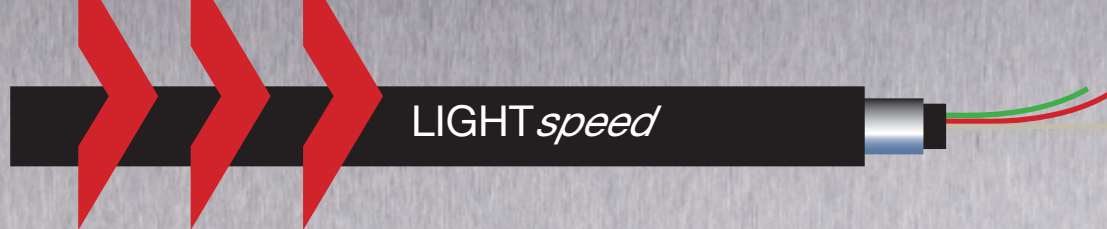
## FEATURES

Singlemode (OS1/OS2)	Multimode (OM2)	Multimode (OM3)
SC, LC, ST, FC & E2000 connectors	SC, LC, ST and FC connectors	SC, LC, ST and FC connectors
PC and APC connectors	PC and APC connectors	PC and APC connectors
Low smoke zero halogen (LSZH)	Low smoke zero halogen (LSZH)	Low smoke zero halogen (LSZH)
900µm tight buffer	900µm tight buffer	900µm tight buffer
OS1/OS2 fibre conforms to ITU-652.D, TIA/EIA 492 CAAA	OM2 fibre conforms to ITU-651, TIA/EIA 492AAAB	OM3 fibre conforms to ITU-651, TIA/EIA 492AAAB

## APPLICATIONS

Singlemode (OS1/OS2)	Multimode (OM2)	Multimode (OM3)
Telecom and datacom application	Networks including Ethernet, Fast Ethernet and GBE	Networks including Ethernet, Fast Ethernet and GBE
Patch panels, wall boxes, ODFs and splice cassettes	Internal inter-connect	Internal inter-connect
Easy strip pigtailed for on site installation	Data centres	Data centres
Supports high speed multi channel video, data and voice services in metropolitan and access networks	Supports high speed multi channel video, data and voice services in metropolitan and access networks	Ideal for a wide range of telecom, datacom and process control applications where ruggedisation is required





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### CONNECTOR SPECIFICATION

Optical Performance	Singlemode (OS1/OS2)	Multimode (OM2)	Multimode (OM3)	Conformance
Insertion loss (Typical)	0.25 dB	0.30 dB	0.30 dB	IEC 61300-3-4
Insertion loss (Ave/Master)	0.18 dB	0.15 dB	0.15 dB	IEC 61300-3-4
Insertion loss (Ave/Random)	0.18 dB	0.20 dB	0.20 dB	IEC 61300-3-34
Return loss	50/60 dB	-	-	IEC 61300-3-6

### CABLE SPECIFICATION

Characteristics	Singlemode (OS1/OS2)	Multimode (OM2)	Multimode (OM3)
Crush	500 N/100mm	500 N/100mm	500 N/100mm
Operating Temperature	-20 to 60 °C	-20 to 60 °C	-20 to 60 °C
Nominal Buffer Diameter	900 + 50 µm	900 + 50 µm	900 + 50 µm
Maximum Tensile Load	6 N	6 N	6 N

### FIBRE SPECIFICATION

Characteristics	Singlemode (OS1/OS2)	Multimode (OM2)	Multimode (OM3)
Attenuation (dB)	0.38 dB @ 1310 nm 0.25 dB @ 1550 nm	2.80 dB @ 850 nm 0.80 dB @ 1300 nm	2.80 dB @ 850 nm 0.80 dB @ 1300 nm
Bandwidth (MHz/km)	-	500 @ 850 nm 500 @ 1300 nm	1500 @ 850 nm 500 @ 1300 nm
Chromatic dispersion (ps/nm x km)	3.00 @ 1310 nm 18.00 @ 1550 nm	-	-