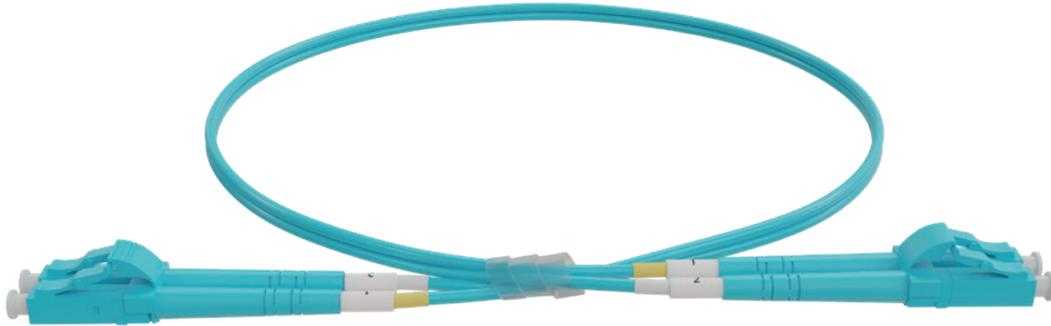


OM4 Duplex Fibre Leads, LSZH Jacket



DESCRIPTION

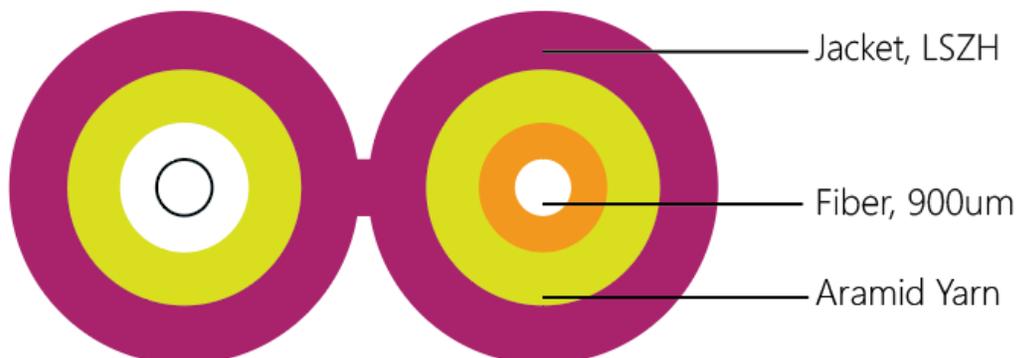
YOFC MaxBand 550 fibre, as a 850nm laser optimised graded index multimode optical fibre with an industry standard 50/125um core and clad diameter, is designed specially to support up to 550 metre link lengths using low-cost 850nm Vertical Cavity Surface Emitting Lasers (VCSEL) for 10 Gb/s Ethernet applications. It has a Differential Mode Delay (DMD) controlled index profile, nominally providing a minimum 4700 MHz- km of effective modal bandwidth (EMB) in the 10 Gb/s laser system. MaxBand 550 fibre supports 850 nm VCSEL based Gigabit Ethernet applications while completely compatible with slower legacy applications using LED optics.

APPLICATION

- Designed for low cost 850 nm VCSEL for 10 Gb/s laser applications
- Applications such as Local Area Networks (LANs), Storage Area Networks (SANs), Central Offices / Data Centers
- Improved performance for 10 Gb/s applications
- Compatible with slower legacy applications using LED optics

FEATURES

- 900um OM4 50/125
- Aramid Yarn
- LSZH Jacket
- Fully supporting legacy 10 Mb/s applications and up to next generation 10 Gb/s applications
- Designed for use with the lowest-cost LED and 850 nm VCSEL transmitters
- Specially developed to support 10 Gb/s serial transmission up to 550 metre link lengths with low cost 850 nm VCSEL
- With DMD measurements and specifications for ensuring reliable transmission performance.
- Manufactured by the advanced Plasma activated Chemical Vapor Deposition (PCVD) process



DESIGNED AND MANUFACTURED TO AUSTRALIAN STANDARDS AND CONDITIONS

CHARACTERISTICS	CONDITIONS	SPECIFIC VALUES	UNITS
Optical Characteristics			
Attenuation	850 nm 1300 nm	<2.3 <0.6	[dB/km] [dB/km]
OFL Bandwidth	850 nm 1300 nm	<3500 <0.6	[MHz - km] [MHz - km]
Effective Modal Bandwidth	850 nm 1300 nm	<4700 <500	[MHz - km] [MHz - km]
Application support distance on	10 Gigabit Ethernet SX 850 nm Gigabit Ethernet SX 850 nm Gigabit Ethernet LX 13000 nm	550 1000 600	[m] [m] [m]
DMD Specification	850 nm	see note 2	
Numerical Aperture		0.200 ± 0.015	
Group Index of refraction	850 nm 1300 nm	1.482 1.477	
Zero dispersion wavelength		1295 - 1320	[nm]
Zero dispersion slope	1295 - 1300 nm 1300 - 1320 nm	<0.001 x (λs - 1191) <0.11	[ps/(nm ³ - km)] [ps/(nm ³ - km)]
Basic Characteristics			
Step (Mean of bidirectional measurement)			<0.10
Irregularities over fibre length and point discontinuity			<0.10
Attenuation uniformity			<0.08
Geometrical Characteristics			
Core diameter		50±2.5	[µm]
Core non-circularity		<5.0	[%]
Cladding diameter		124.8±1.0	[µm]
Cladding non-circularity		<1.0	[%]
Coating diameter		245±7	[µm]
Coating-cladding concentricity error		<12.0	[µm]
Coating non-circularity		<6.0	[%]
Core-cladding concentricity error		<1.0	[µm]
Delivery length		Up to 8.8	[km/reel]
Environmental Characteristics (850 nm & 1300nm)			
Temperature dependance Induced attenuation at		-60°C to +85°C	<0.10
Temperature - humidity cycling Induced attenuation at		-10°C to +85°, 98% RH	<0.10
Watersoak dependance Induced attenuation at		23°C for 30 days	<0.10
Damp heat dependance Induced attenuation at		85°C and 85% RH, for 30 days	<0.10
Dry heat aging at		85°C	
Mechanical Specification			
Proof test	off line	>9.0 >1.0 >100	[N] [%] [kpsi]
Macro-bend induced attenuation			
100 turn around a mandrel of 60mm diameter	850 nm & 1300 nm	<0.50	[dB]
Coating strip force	typical average force	1.5	[N]
	peak force	>1.3 <8.9	[N]
Dynamic stress corrosion susceptibility parameter		>27	



FLLCLCOM4XX	Description	Connector Type
	LC - LC OM4 Duplex Fibre Patch Lead - Aqua	LC to LC
Lengths available (metres)		
0.5, 1, 1.5, 2, 3, 5, 7, 10, 15, 20, 25, 30, 40, 50m		

FLLCLCOM4VXX	Description	Connector Type
	LC - LC OM4 Duplex Fibre Patch Lead - Violet	LC to LC
Lengths available (metres)		
0.5, 1, 1.5, 2, 3, 5, 7, 10m		

FLLCSCOM4XX	Description	Connector Type
	LC - SC OM4 Duplex Fibre Patch Lead - Aqua	LC to SC
Lengths available (metres)		
0.5, 1, 1.5, 2, 3, 5, 7, 10, 15, 20, 25, 30, 40, 50m		

FLSCSCOM4XX	Description	Connector Type
	SC - SC OM4 Duplex Fibre Patch Lead - Aqua	SC to SC
Lengths available (metres)		
0.5, 1, 1.5, 2, 3, 5, 7, 10, 15, 20, 25, 30, 40, 50m		

