

YOFC® MaxBand® - OM2+/OM3/OM4- Multimode Fibre

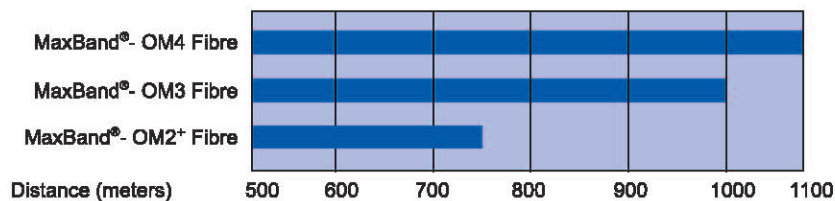
YOFC® MaxBand® - OM2+ - Multimode Fibre complies with or exceeds ISO/IEC 11801 OM2 specification, IEC 60793-2-10 type A1a.1 Optical Fibre Specification, and TIA/EIA-492AAAB-A detail specification.

YOFC® MaxBand® - OM3/OM4- Multimode Fibres comply with or exceed ISO/IEC 11801 OM3/OM4 specification, IEC 60793-2-10 type A1a.2 and A1a.3 (in preparation) Optical Fibre Specification, and TIA/EIA-492AAAC/492AAAD detail specification.

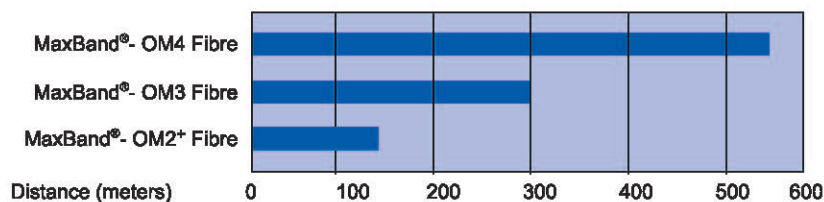
Features	Benefits and Applications
<ul style="list-style-type: none"> - 850nm laser-optimized - Extremely refined refractive index profile - Specially designed for 10Gb/s Ethernet applications using low cost 850nm VCSELs - Supporting 40 & 100 Gb/s applications - Low differential mode delay (DMD) - Low attenuation 	<ul style="list-style-type: none"> - Superior geometry, uniformity and purity of glass - Central offices - Data centers - High performance computing centers - Local Area Networks - Storage Area Networks - 1 & 10 & 40 & 100 Gb/s Ethernet
<ul style="list-style-type: none"> - Coated with YOFC's proprietary dual layer UV curable acrylate. 	<ul style="list-style-type: none"> - Optimized performance in tight-buffer cable applications - High resistance to microbending - Stable performance over a wide range of environmental conditions

System Link Length

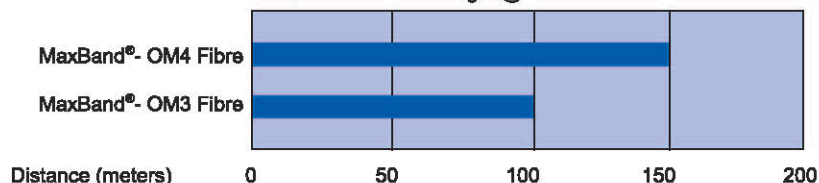
1 Gb/s Link Length @850nm Based on IEEE802.3z



10 Gb/s Link Length @850nm Based on IEEE802.3ae



40 & 100 Gb/s Link Length @850nm Based on IEEE802.3ba



Product Specifications

Geometry Characteristics

Core Diameter (μm)	50 \pm 2.5
Core Non-Circularity (%)	\leq 5.0
Cladding Diameter (μm)	125.0 \pm 1.0
Cladding Non-Circularity (%)	\leq 1.0
Coating Diameter (μm)	245 \pm 7
Coating/Cladding Concentricity Error (μm)	\leq 12.0
Coating Non-Circularity (%)	\leq 6.0
Core/Cladding Concentricity Error (μm)	\leq 1.0
Delivery Length (km/reel)	Up to 8.8

Optical Characteristics

Attenuation (dB/km)	850nm	\leq 2.3		
	1300nm	\leq 0.6		
		MaxBand® -OM2*	MaxBand® -OM3	MaxBand® -OM4
OFL Bandwidth (MHz.km)	850nm	\geq 700	\geq 1500	\geq 3500
	1300nm	\geq 500	\geq 500	\geq 500
Effective Modal Bandwidth @850nm (MHz.km)		\geq 950	\geq 2000	\geq 4700
Application support distance on				
10 Gigabit Ethernet SX 850nm (m)		150	300	550
Gigabit Ethernet SX 850nm (m)		750	1000	1100
Gigabit Ethernet LX 1300nm (m)		600	600	600
40 & 100 Gigabit Ethernet 850nm (m)		-	100	150
DMD Specification			See Note 1	
Numerical Aperture			0.200 \pm 0.015	
Group Refractive Index	850nm		1.482	
	1300nm		1.477	
Zero Dispersion Wavelength (nm)			1295-1320	
Zero Dispersion Slope (ps/(nm ² .km))	1295-1300nm		\leq 0.001* (λ_0 -1190)	
	1300-1320nm		\leq 0.11	
Macrobending induced loss	850nm		\leq 0.50	
100 turns @ 30mm radius	1300nm		\leq 0.50	

Backscatter Characteristics (1300nm)

Step (Mean of bidirectional measurement) (dB)	\leq 0.10
Irregularities over fibre length and point discontinuity (dB)	\leq 0.10
Attenuation uniformity (dB/km)	\leq 0.08

Environmental Characteristics (850nm & 1300nm)

Temperature dependence induced attenuation at -60°C to +85°C (dB/km)	\leq 0.10
Temperature-humidity cycling induced attenuation at -10°C to +85°C, 98% RH (dB/km)	\leq 0.10
Watersoak dependence induced attenuation at 23°C for 30 days (dB/km)	\leq 0.10
Damp heat dependence induced attenuation at 85°C and 85% RH, for 30days (dB/km)	\leq 0.10
Dry heat aging at 85°C (dB/km)	\leq 0.10

Mechanical Specification

Proof test	(N)	\geq 9.0
	(%)	\geq 1.0
	(kpsi)	\geq 100
Coating strip force (N)	typical average force	1.5
	peak force	\geq 1.3 \leq 8.9
Dynamic stress corrosion susceptibility parameter n _d		\geq 27

1. DMD specifications are compliant with and more stringent than the requirements of IEC 60793-2-10 (type A1a.2 for OM3 and type A1a.3 for OM4 [under development]) and TIA-492AAAC (OM3) and 492AAAD (OM4).