

MaxBand® OM2+/OM3/OM4 Bend Insensitive Multimode Fibre

Yangtze Optical Fibre and Cable Joint Stock Limited Company

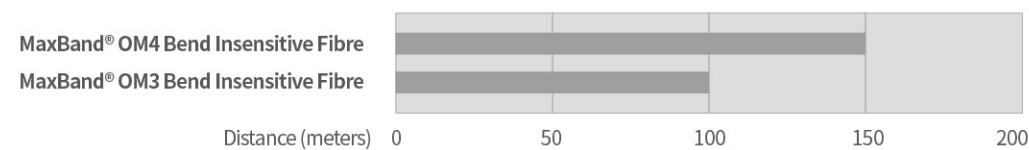
YOFC MaxBand® OM2+ Bend Insensitive Multimode Fibre complies with or exceeds ISO/IEC 11801 OM2 specification, IEC 60793-2-10 type A1a.1 Optical Fibre Specification, and TIA/EIA-492AAAB-A detail specification.

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

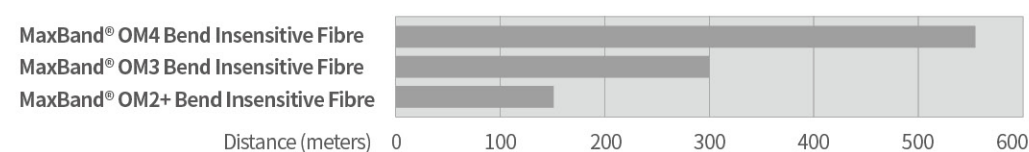
Features	Benefits and Applications
<ul style="list-style-type: none"> Very low macro-bending sensitivity Low micro-bending sensitivity 	<ul style="list-style-type: none"> The fibre is easier to handle and install without excessive care when storing the fibre, for example, in splicing cassettes Supports installation with small cable bend radii and compact organizers Facilitates jumper moves, adds and changes
<ul style="list-style-type: none"> Maintaining compatibility with current OM2+/OM3/OM4 multimode optical fibre Low differential mode delay (DMD) Low attenuation 	<ul style="list-style-type: none"> Central offices Data centers High performance computing centers Local Area Networks Storage Area Networks Supporting 1 & 10 & 40 & 100 & 400 Gb/s applications
<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 micro-bending Stable performance over a wide range of environmental conditions

System Link Length

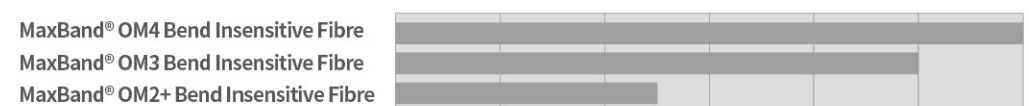
40 & 100 Gb/s Link Length @850nm Based on IEEE802.3ba



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



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



Characteristics	Conditions	Specified values	Units
Geometry Characteristics			
Core Diameter	--	50±2.5	[µm]
Core Non-Circularity	--	≤5.0	[%]
Cladding Diameter	--	125.0±1.0	[µm]
Cladding Non-Circularity	--	≤0.6	[%]
Coating Diameter	--	245±7	[µm]
Coating/Cladding Concentricity Error	--	≤10.0	[µm]
Coating Non-Circularity	--	≤6.0	[%]
Core/Cladding Concentricity Error	--	≤1.0	[µm]
Delivery Length	--	up to 8.8	[km/reel]
Optical Characteristics			
Attenuation	850nm	≤2.4	[dB/km]
	1300nm	≤0.6	[dB/km]
--	--	MaxBand® OM2+/OM3/OM4 Bend Insensitive	
Overfilled Modal Bandwidth	850nm	≥700/≥1500/≥3500	[MHz·km]
	1300nm	≥500/≥500/≥500	[MHz·km]
Effective Modal Bandwidth	850nm	≥950/≥2000/≥4700	[MHz·km]
Application support distance on	--	--	--
40GBASE-SR4 / 100GBASE-SR10	850nm	-/100/150	[m]
10GBASE-SR	850nm	150/300/500	[m]
1000BASE-SR	850nm	750/1000/1100	[m]
DMD Specification	Compliant with and more stringent than the requirements of IEC 60793-2-10		
Numerical Aperture	--	0.200±0.015	--
Group Refractive Index	850nm	1.482	--
	1300nm	1.477	--
Zero Dispersion Wavelength, λ ₀	--	1295-1340	[nm]
Zero Dispersion Slope, S ₀	1295nm ≤ λ ₀ ≤ 1310nm	≤0.105	[ps/(nm ² ·km)]
	1310nm ≤ λ ₀ ≤ 1340nm	≤0.000375(1590-λ ₀)	[ps/(nm ² ·km)]
Macrobending Loss ¹	--	--	--
2 Turns @ 15 mm Radius	850nm	≤0.1	[dB]
	1300nm	≤0.3	[dB]
2 Turns @ 7.5 mm Radius	850nm	≤0.2	[dB]
	1300nm	≤0.5	[dB]
Backscatter Characteristics 1300nm			
Step (Mean of Bidirectional Measurement)	--	≤0.10	[dB]
Irregularities Over Fibre Length and Point Discontinuity	--	≤0.10	[dB]
Attenuation Uniformity	--	≤0.08	[dB/km]
Environmental Characteristics 850nm & 1300nm			
Temperature Cycling	-60°C to 85°C	≤0.10	[dB/km]
Temperature-Humidity Cycling	-10°C to 85°C, 4% to 98% RH	≤0.10	[dB/km]
Water Immersion	23°C, 30 days	≤0.10	[dB/km]
Dry Heat	85°C, 30 days	≤0.10	[dB/km]
Damp Heat	85°C, 85% RH, 30 days	≤0.10	[dB/km]
Mechanical Specification			
Proof Test	--	≥9.0	[N]
	--	≥1.0	[%]
	--	≥100	[kpsi]
Coating Strip Force	typical average force	1.5	[N]
	peak force	≥1.3, ≤8.9	[N]
Dynamic Stress Corrosion Susceptibility Parameter (n _p , typical)	--	20	--

Remarks: 1. The launch condition for the macrobending loss measurement fulfils that described in IEC 61280-4-1.