Multimode Fibre

Smart Link Better Life.

Yangtze Optical Fibre and Cable Joint Stock Limited Company

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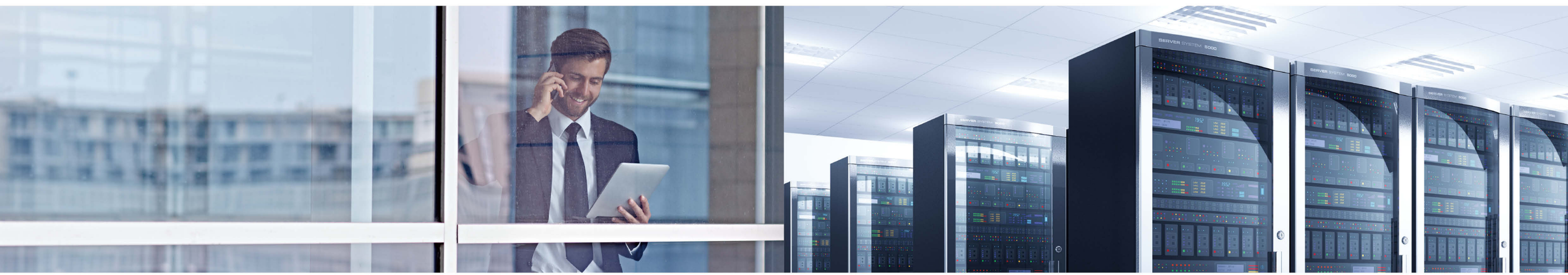

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OM1 (62.5/125μm) Multimode Fibre

Yangtze Optical Fibre and Cable Joint Stock Limited Company

YOFC OM1 (62.5/125μm) Multimode Fibre complies with or exceeds ISO/IEC 11801-1 OM1 specification, IEC 60793-2-10 A1-OM1 specification, and TIA-492AAAF A1-OM1 specification.

Features	Benefits and Applications
• Superior geometry uniformity • Low attenuation • High bandwidth at wavelengths of 850nm and 1300nm • Manufactured by PCVD process • Extremely refined refractive index profile	• Local area networks (LAN) • Video, voice and data services • Gigabit Ethernet using laser or LED light sources
• Coated with YOFC's proprietary dual layer UV curable acrylate	• High resistance to micro-bending • Optimized performance in tight-buffer cable applications • Stable performance over a wide range of environmental conditions

Characteristics	Conditions	Specified values	Units
Geometry Characteristics			
Core Diameter	--	62.5±2.5	[μm]
Core Non-Circularity	--	⩽5.0	[%]
Cladding Diameter	--	125.0±1.0	[μm]
Cladding Non-Circularity	--	⩽1.0	[%]
Coating Diameter	--	245±7	[μm]
Coating/Cladding Concentricity Error	--	⩽10.0	[μm]
Coating Non-Circularity	--	⩽6.0	[%]
Core/Cladding Concentricity Error	--	⩽1.5	[μm]
Delivery Length	--	up to 17.6	[km/reel]
Optical Characteristics			
Attenuation	850nm	⩽2.7	[dB/km]
	1300nm	⩽0.6	[dB/km]
Overfilled Modal Bandwidth	850nm	⩾200	[MHz·km]
	1300nm	⩾500	[MHz·km]
Numerical Aperture	--	0.275±0.015	--
Group Refractive Index	850nm	1.496	--
	1300nm	1.491	--
Zero Dispersion Wavelength, λ_0	--	1320~1365	[nm]
Zero Dispersion Slope, S_0	1320nm⩽ λ_0 ⩽1348nm	⩽0.11	[ps/(nm²·km)]
	1348nm⩽ λ_0 ⩽1365nm	⩽0.001 (1458-λ_0)	[ps/(nm²·km)]
Macrobending Loss	--	--	--
100 Turns @ 37.5 mm Radius	850nm	⩽0.50	[dB]
	1300nm	⩽0.50	[dB]
Backscatter Characteristics	**1300nm**		
Step (Mean of Bidirectional Measurement)	--	⩽0.10	[dB]
Irregularities Over Fibre Length and Point Discontinuity	--	⩽0.10	[dB]
Attenuation Uniformity	--	⩽0.10	[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_d, typical)	--	20	--

SERVER SYSTEM 5000

OM2 (50/125μm) Bending Insensitive Multimode Fibre

Yangtze Optical Fibre and Cable Joint Stock Limited Company

YOFC OM2 (50/125μm) Bending Insensitive Multimode Fibre complies with or exceeds ISO/IEC 11801-1 OM2 specification, IEC 60793-2-10 A1-OM2 specification, and TIA-492AAAF A1-OM2 specification.

Features	Benefits and Applications
• Superior geometry uniformity • Low attenuation • High bandwidth at wavelengths of 850nm and 1300nm • Manufactured by PCVD process • Extremely refined refractive index profile	• Local area networks (LAN) • Video, voice and data services • Gigabit Ethernet using laser or LED light sources
• Very low macro-bending sensitivity	• Supports the use and installation of optical cables with a small bending radius
• Coated with YOFC's proprietary dual layer UV curable acrylate	• High resistance to micro-bending • Optimized performance in tight-buffer cable applications • Stable performance over a wide range of environmental conditions

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	--	⩽1.0	[%]
Coating Diameter	--	245±7	[μm]
Coating/Cladding Concentricity Error	--	⩽10.0	[μm]
Coating Non-Circularity	--	⩽6.0	[%]
Core/Cladding Concentricity Error	--	⩽1.5	[μm]
Delivery Length	--	up to 17.6	[km/reel]
Optical Characteristics			
Attenuation	850nm	⩽2.3	[dB/km]
	1300nm	⩽0.6	[dB/km]
Overfilled Modal Bandwidth	850nm	⩾500	[MHz·km]
	1300nm	⩾500	[MHz·km]
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/(nm²·km)]
	1310nm⩽λ_0⩽1340nm	⩽0.000375 (1590-λ_0)	[ps/(nm²·km)]
Macrobending Loss	--	--	--
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_d, typical)	--	20	--

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

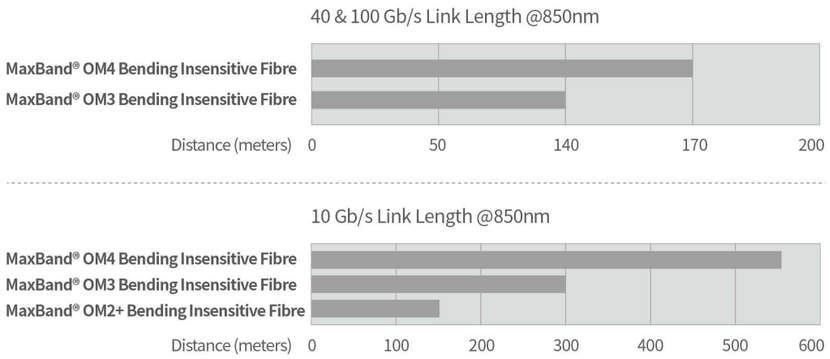
Yangtze Optical Fibre and Cable Joint Stock Limited Company

YOFC MaxBand® OM2+ Bending Insensitive Multimode Fibre complies with or exceeds ISO/IEC 11801-1 OM2 specification, IEC 60793-2-10 A1-OM2 specification, and TIA-492AAAF A1-OM2 specification.

YOFC MaxBand® OM3/OM4 Bending Insensitive Multimode Fibres comply with or exceed ISO/IEC 11801-1 OM3/OM4 specifications, IEC 60793-2-10 A1-OM3/A1-OM4 specfications, and TIA-492AAAF A1-OM3/A1-OM4 specifications.

Features	Benefits and Applications
• Optimized for 850nm VCSEL • Compatibility with current OM2+/OM3/OM4 multimode fibre • Superior geometry uniformity • Low attenuation • High bandwidth • Low differential mode delay (DMD)	• Data centers • Data storage networks • High-performance computing centers a • Office centers • Local area networks (LAN) • 1 & 10 & 40 & 100 & 400 Gb/s Ethernet
• Very low macro-bending sensitivity	• Supports the use and installation of optical cables with a small bending radius
• Coated with YOFC's proprietary dual layer UV curable acrylate	• High resistance to micro-bending • Optimized performance in tight-buffer cable applications • Stable performance over a wide range of environmental conditions

System Link Length



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 Bending 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[1]	850nm	-/140/170	[m]
10GBASE-SR	850nm	150/300/550	[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/(nm²·km)]
	1310nm⩽λ_0⩽1340nm	⩽0.000375(1590-λ_0)	[ps/(nm²·km)]
Macrobending Loss[2]	--	--	--
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_d, typical)	--	20	--

Remarks: 1. Support distances considering maximum cable attenuation of 3.0 dB/km at 850 nm, maximum total splice/connector loss of 1.0 dB and VCSELs maximum RMS spectral width ⩽ 0.45 nm

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

MaxBand® OM4 Ultra Bending Insensitive Multimode Fibre

Yangtze Optical Fibre and Cable Joint Stock Limited Company

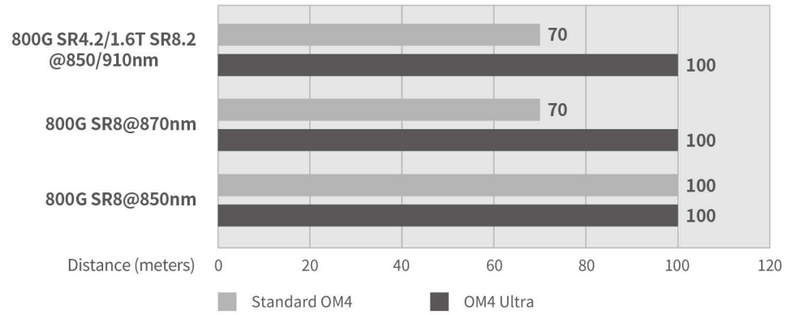
YOFC MaxBand® OM4 Ultra Bending Insensitive Multimode Fibre is designed for 100G/lane and Terabit BiDi technology, offering high bandwidth in the wavelength range of 850nm - 870nm & 910nm. It can compensate the signal degradation caused by the center wavelength shift of 100G/lane transceivers, ensuring smooth upgrades to 400G, 800G, and higher data rates for data centers. It is fully backward compatible with legacy OM4 and OM5 fibres.

YOFC MaxBand® OM4 Ultra Bending Insensitive Multimode Fibre complies with or exceeds ISO/IEC 11801-1 OM4 specification, IEC 60793-2-10 A1-OM4 specification, and TIA-492AAAF A1-OM4 specification.

Features	Benefits and Applications
• Optimized for 100G/lane transmission system • High effective modal bandwidth in wavelength range of 850~870nm & 910nm • Backward compatibility with legacy OM4 fibre	• Compensate for signal degradation caused by center wavelength shift of high speed optical transceiver • Support single-wavelength and double-wavelength transmission system from 400Gb/s to 1.6Tb/s
• Superior geometry uniformity • Low attenuation • High bandwidth • Low differential mode delay (DMD)	• Data centers • Office centers • Data storage networks • Local area networks • High-performance computing centers • 10&40&100&400&800 Gb/s and 1.6Tb/s Ethernet
• Very low macro-bending sensitivity	• Supports the use and installation of optical cables with a small bending radius
• Coated with YOFC's proprietary dual layer UV curable acrylate	• High resistance to micro-bending • Optimized performance in tight-buffer cable applications • Stable performance over a wide range of environmental conditions

System Link Length

YOFC MaxBand® OM4 Ultra Bending Insensitive Multimode Fibre can support transmission distances of 100m in 100G/lane and Terabit BiDi links which complies with or exceeds IEEE 802.3db specification and Terabit BiDi MSA specification.



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 17.6	[km/reel]
Optical Characteristics			
Attenuation	850nm	⩽2.4	[dB/km]
	910nm	⩽2.0	[dB/km]
	1300nm	⩽0.6	[dB/km]
Overfilled Modal Bandwidth	850nm	⩾3500	[MHz·km]
	1300nm	⩾500	[MHz·km]
Effective Modal Bandwidth	850nm-870nm	⩾4700	[MHz·km]
	910nm	⩾3100	[MHz·km]
Link Length	800GBase-SR8	100	[m]
	800GBaseSR-4.2	100	[m]
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/(nm²·km)]
	1310nm⩽λ_0⩽1340nm	⩽0.000375 (1590-λ_0)	[ps/(nm²·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_d, typical)	--	20	--

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

MaxBand® OM4 Pro Bending Insensitive Multimode Fibre

Yangtze Optical Fibre and Cable Joint Stock Limited Company

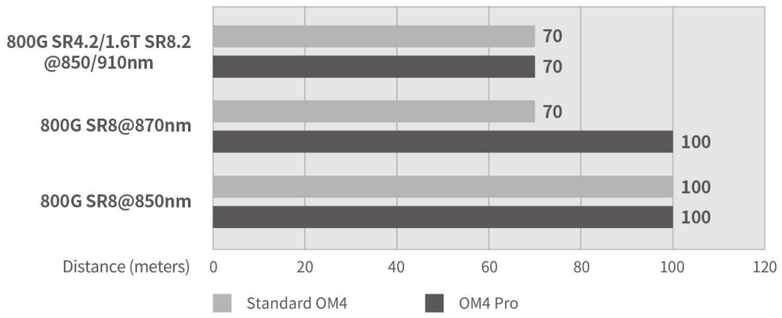
YOFC MaxBand® OM4 Pro Bending Insensitive Multimode Fibre is designed for 100G/lane technology, offering high bandwidth in the wavelength range of 850nm - 870nm. It can compensate the center wavelength shift of 100G/lane transceivers, ensuring smooth upgrades to 400G, 800G, and higher data rates for data centers. It is fully backward compatible with legacy OM4 and OM5 fibres.

YOFC MaxBand® OM4 Pro Bending Insensitive Multimode Fibre complies with or exceeds ISO/IEC 11801-1 OM4 specification, IEC 60793-2-10 A1-OM4 specification, and TIA-492AAAF A1-OM4 specification.

Features	Benefits and Applications
• Optimized for 100G/lane transmission system • High effective modal bandwidth in wavelength range of 850~870nm • Backward compatibility with legacy OM4 fibre	• Compensate for signal degradation caused by center wavelength shift of the high speed optical transceiver
• Superior geometry uniformity • Low attenuation • High bandwidth • Low differential mode delay (DMD)	• Data centers • Office centers • Data storage networks • Local area networks • High-performance computing centers • 10&40&100&400&800 Gb/s and 1.6Tb/s Ethernet
• Very low macro-bending sensitivity	• Supports the use and installation of optical cables with a small bending radius
• Coated with YOFC's proprietary dual layer UV curable acrylate	• High resistance to micro-bending • Optimized performance in tight-buffer cable applications • Stable performance over a wide range of environmental conditions

System Link Length

YOFC MaxBand® OM4 Pro Bending Insensitive Multimode Fibre can support transmission distances of 100m and 70m in 100G/lane and Terabit BiDi links which complies with or exceeds IEEE 802.3db specification and Terabit BiDi MSA specification.



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 17.6	[km/reel]
Optical Characteristics			
Attenuation	850nm	⩽2.4	[dB/km]
	1300nm	⩽0.6	[dB/km]
Overfilled Modal Bandwidth	850nm	⩾3500	[MHz·km]
	1300nm	⩾500	[MHz·km]
Effective Modal Bandwidth	850nm-870nm	⩾4700	[MHz·km]
Link Length	800GBase-SR8	100	[m]
	800GBaseSR-4.2	70	[m]
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/(nm²·km)]
	1310nm⩽λ_0⩽1340nm	⩽0.000375 (1590-λ_0)	[ps/(nm²·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_d, typical)	--	20	--

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

MaxBand® WideBand OM5 Bending Insensitive Multimode Fibre

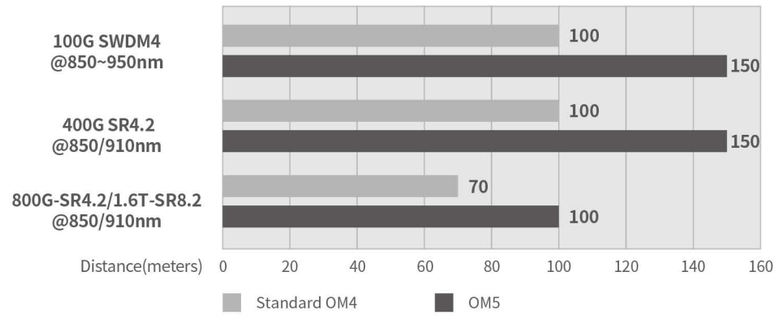
Yangtze Optical Fibre and Cable Joint Stock Limited Company

YOFC MaxBand® WideBand OM5 Bending Insensitive Multimode Fibre is a 50μm laser-optimized multimode fibre designed for short wavelength division multiplexing (SWDM) applications. Unlike legacy OM4 multimode fibre with high bandwidth at 850nm, YOFC MaxBand® OM5 Bending Insensitive Multimode Fibre has high bandwidth in the 850-950nm window and maintaining backward compatiblity with legacy OM4 fibre. WideBand OM5 and multi-wavelength transceivers are a viable solution for 100Gb/s and 400Gb/s multi-wavelength systems.

YOFC MaxBand® WideBand OM5 Bending Insensitive Multimode Fibre complies with or exceeds ISO/IEC 11801-1 OM5 specification, IEC 60793-2-10 A1-OM5 specification, and TIA-492AAAF A1-OM5 specification.

Features	Benefits and Applications
• Designed for multi-wavelength systems • High bandwidth in the wavelength range of 850-950nm • Backward compatiblity with legacy OM4 fibre	• Support single-wavelength and multi-wavelength transmission system from 40Gb/s to 400Gb/s
• Superior geometry uniformity • Low attenuation • High bandwidth • Low differential mode delay (DMD)	• Data centers • Office centers • Data storage networks • Local area networks (LAN) • High-performance computing centers a
• Very low macro-bending sensitivity	• Supports the use and installation of optical cables with a small bending radius
• Coated with YOFC's proprietary dual layer UV curable acrylate	• High resistance to micro-bending • Optimized performance in tight-buffer cable applications • Stable performance over a wide range of environmental conditions

System Link Length



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 17.6		[km/reel]
Optical Characteristics				
Attenuation	850nm	⩽2.4		[dB/km]
	953nm	⩽1.7		[dB/km]
	1300nm	⩽0.6		[dB/km]
Overfilled Modal Bandwidth	850nm	⩾3500		[MHz·km]
	953nm	⩾1850		[MHz·km]
	1300nm	⩾500		[MHz·km]
Effective Modal Bandwidth	850nm	⩾4700		[MHz·km]
	953nm	⩾2470		[MHz·km]
Application support distance on	--	--		--
1.6T-SR8.2	850/910nm	100		[m]
800G-SR4.2	850/910nm	100		[m]
400GBASE-SR4.2	850/910nm	150		[m]
100Gb/s WDM[1]	850-950nm	150		[m]
Numerical Aperture	--	0.200±0.015		--
Group Refractive Index	850nm	1.482		--
	1300nm	1.477		--
Zero Dispersion Wavelength, λ_0	--	1297-1328		[nm]
Zero Dispersion Slope, S_0	--	⩽4 (-103) / (840 (λ_0/840)^4)		[ps/(nm^2 · km)]
Macrobending Loss[2]	--	@850nm	@1300nm	--
2 Turns @ 15 mm Radius	--	⩽0.1	⩽0.3	[dB]
2 Turns @ 7.5 mm Radius	--	⩽0.2	⩽0.5	[dB]
Backscatter Characteristics	**850nm & 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	at -60°C to 85°C	⩽0.10		[dB/km]
Temperature-Humidity Cycling	at -10°C to 85°C and 4% to 98% RH	⩽0.10		[dB/km]
Water Immersion	at 23°C for 30 days	⩽0.10		[dB/km]
Dry Heat	at 85°C for 30 days	⩽0.10		[dB/km]
Damp Heat	at 85°C and 85% RH for 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_d, typical)	--	20		--

Remarks:1. Support distance with SWDM transceivers http://www.swdm.org/msa/

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