



YOFC MaxBand® WideBand OM5 Bend Insensitive Multimode Fibre is a 50µm laser-optimized multimode fibre designed for short wavelength division multiplexing (SWDM) applications. Unlike traditional OM4 fibre with high bandwidth performance in a narrow band centred at 850nm, YOFC MaxBand® OM5 Bend Insensitive Multimode Fibre delivers OM4 performance in the 850-950nm window while maintaining compatibility with current multimode fibres. WideBand OM5 and multi-wavelength transceivers are a viable solution for future 100Gb/s and 400Gb/s multi-wavelength systems.

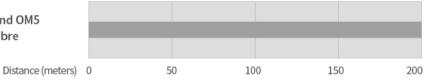
YOFC MaxBand® WideBand OM5 Bend Insensitive Multimode Fibre complies with or exceeds ISO/IEC 11801 OM5 specification, IEC 60793-2-10 type A1a.4 Optical Fibre Specification, and TIA/EIA-492AAAE detail specification.

Features	Benefits and Applications		
 Designed for multi-wavelength systems Maintaining compatibility with current OM4 multimode optical fibre Very low macro-bending sensitivity 	Duplex transmission of 40&100&400 Gb/s using SWDM technology Supports today's application including 100Gb/s Ethernet Supports installation with small cable bend radii and compact organizers		
Coated with YOFC's proprietary dual layer UV curable acrylate	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

MaxBand® WideBand OM5 Bend Insensitive Fibre



100Gb/s Link Length Based on WDM

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Website: www.yofc.com



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]
	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	_			
100Gb/sWDM ¹	_	150		[m]
40Gb/s WDM ¹	_	440		[m]
40GBASE-SR4 / 100GBASE-SR10 ²	850nm	200		[m]
Numerical Aperture	_	0.200±0.015		
Group Refractive Index	850nm	1.482		
	1300nm	1.477		
Zero Dispersion Wavelength, λ_n	_	1297-1328		[nm]
Zero Dispersion Slope, S ₀	_	≤4 (-103) / (840 (\(\lambda_0/840\)^4)		[ps/(nm²·km)]
Macrobending Loss ³	_	@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		33.0	
Step (Mean of Bidirectional Measurement)	_	≤0.10		[dB]
Irregularities Over Fibre Length and Point Discontinuity	_	≪0.10 ≪0.10		[dB]
Attenuation Uniformity	_	≈0.10 ≈0.08		[dB/km]
Environmental Characteristics	850nm & 1300nm		,,,,,	[GD/KIII]
Temperature Cycling	at -60°C to 85°C	<(10	[dB/km]
Temperature-Humidity Cycling	at -10°C to 85°C and 4% to 98% RH	≤0.10 ≤0.10		[dB/km]
Water Immersion	at 23°C for 30 days	≤0.10		
Dry Heat	at 85°C for 30 days	≤0.10 ≤0.10		[dB/km]
Damp Heat	at 85°C and 85% RH for 30 days	≤0.10 ≤0.10		[dB/km]
·	at 65 Cand 65% Ni Fior 50 days	~(7.10	[dB/km]
Mechanical Specification			0.0	F
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]

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

 $^{2. \,} Support \, distances \, considering \, maximum \, cable \, attenuation \, of \, 3.0 \, dB/km \, at \, 850 \, nm, \, maximum \, total \, splice/connector \, loss \, of \, 1.0 \, dB \, and \, VCSELs \, maximum \, RMS \, spectral \, width \, \leqslant \, 0.45 \, nm$

^{3.} The launch condition for the macrobending loss measurement fulfils that described in IEC 61280-4-1.