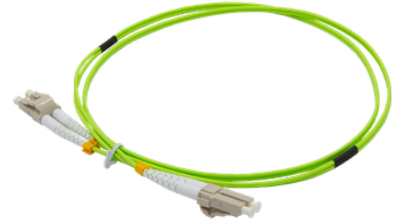


Product Specifications

Product : LC-LC DX MM OM5 Patch Cables - OM5 Serie
 Product family : Zyberspeed



Description

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, OM5 Bending Insensitive Multimode Fibre has high bandwidth in the 850-950nm window and maintaining backward compatibility with legacy OM4 fibre. WideBand OM5 and multi-wavelength transceivers are a viable solution for 100Gb/s and 400Gb/s multi-wavelength systems.

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.

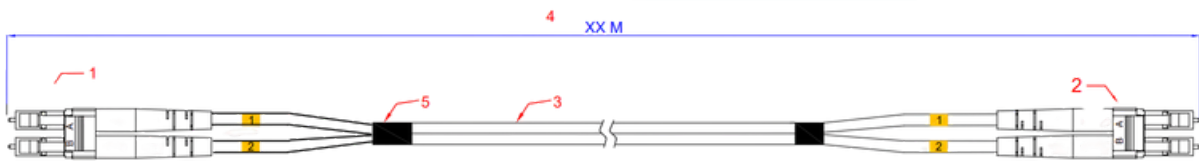
Specification

- 1.LC/UPC Connector MM 3.0mm
- 2.LC/UPC Connector MM 3.0mm
- 3.2F MM OM5 φ3.0mm Duplex Cable LSZH Leme Green
- 4.Length:XX M
- 5.Heat Shrink

Performance

- 1.Insertion loss:Typical<0.2dB, Max<0.3dB
- 2.Return loss:UPC>30dB,
- 3.Durability:<0.2dB,Typical Change:1000 Matings
- 4.Insert-pull Test:500times<0.5dB
- 5.Opearting Temperature:-20°C to +70°C

Product figure



Length Tolerance:

Tolerance	L≤500 mm	500<L≤5000 mm	5000<L≤10000 mm	10000<L≤30000 mm	30000<L≤100000 mm	L>100000 mm
MM	+50/-0	+100/-0	+150/-0	+250/-0	+1%L/-0	+1.5%L/-0



Features	Benefits and Applications
<ul style="list-style-type: none"> Designed for multi-wavelength systems. High bandwidth in the wavelength range of 850–950nm. Backward compatibility with legacy OM4 fibre. 	Support single-wavelength and multi-wavelength transmission system from 40Gb/s to 400Gb/s
<ul style="list-style-type: none"> Superior geometry uniformity Low attenuation High bandwidth Low differential mode delay (DMD) 	Data centers - Data storage networks - High-performance computing centers - Office centers - Local area networks (LAN)
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	<ul style="list-style-type: none"> High resistance to micro-bending Optimized performance in tight-buffer cable applications Stable performance over a wide range of environmental conditions

Environmental Characteristics

Characteristics	Conditions	Specified Values	Units
Temperature Cycling	at -60°C to 85°C	≤ 0.10	dB/km
Temperature-Humidity Cycling	at -10°C to 85°C and 46% 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



Geometry Characteristics

Characteristics	Conditions	Specified Values	Units
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

Characteristics	Conditions	Specified Values	Units
Attenuation	850nm	≤ 2.4	dB/km
Attenuation	953nm	≤ 1.7	dB/km
Attenuation	1300nm	≤ 0.6	dB/km



Overfilled Modal Bandwidth

Characteristics	Conditions	Specified Values	Units
Overfilled Modal Bandwidth	850nm	≥ 3500	MHz·km
Overfilled Modal Bandwidth	953nm	≥ 1850	MHz·km
Overfilled Modal Bandwidth	1300nm	≥ 500	MHz·km

Effective Modal Bandwidth

Characteristics	Conditions	Specified Values	Units
Effective Modal Bandwidth	850nm	≥ 4700	MHz·km
Effective Modal Bandwidth	953nm	≥ 2470	MHz·km

Application Support Distance

Characteristics	Conditions	Specified Values	Units
16T-SR8.2	850/910nm	100	m
800G-SR4.2	850/910nm	100	m
400GBASE-SR4.2	850/910nm	150	m
100Gb/s SWDM	850-950nm	150	m



Additional Optical Characteristics

Characteristics	Conditions	Specified Values	Units
Numerical Aperture	—	0.200 ± 0.015	—
Group Refractive Index	850nm	1.482	—
Group Refractive Index	1300nm	1.477	—
Zero Dispersion Wavelength, λ_0	—	1297–1328	nm
Zero Dispersion Slope, S_0	—	$\leq 4.103 / (840\lambda)$	ps/(nm ² ·km)

Macrobending Loss

Characteristics	Conditions	Specified Values	Units
Macrobending Loss	@850nm	—	—
2 Turns @ 15mm Radius	—	≤ 0.1	dB
2 Turns @ 7.5mm Radius	—	≤ 0.2	dB
Macrobending Loss	@1300nm	—	—
2 Turns @ 15mm Radius	—	≤ 0.3	dB
2 Turns @ 7.5mm Radius	—	≤ 0.5	dB

