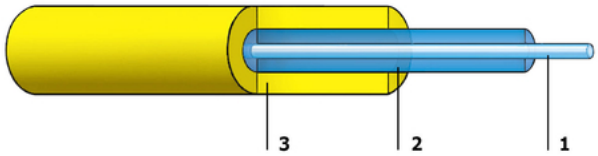
Multimode fibre, G50/125/250, OM5

bend optimized
IEC 60793-2-10 Type A1-OM5b, ISO/IEC 11801 OM5, TIA/EIA 492AAAE



1 Core
2 Cladding
3 Coating

DESCRIPTION

Bend insensitive fibre with enhanced macrobending features, particularly recommended for high-performance transmissions in the 850-950 nm wavelength.
The geometrical, optical and mechanical specifications meet or exceed all relevant international standards.

APPLICATION

In Premises cabling for LAN backbones (Campus and Vertical/Riser cabling) as well as in Data Centres.

OPTICAL PROPERTIES

Transmission characteristics

		Product parameters			Standard spec.	
Wavelength	**[nm]**	**850**	**953**	**1300**	**850**	**1300**
Attenuation typical (cabled)	[dB/km]	2.4	1.8	0.6		
Attenuation maximum (cabled)	[dB/km]	2.7		0.7	3.0	1.5
OFL bandwidth as per TIA/EIA 455-204 and IEC 60793-1-41	[MHz x km]	3500	1850	500	3500	500
High-Performance EMB bandwidth as per TIA/EIA 455-220A and IEC 60793-1-49	[MHz x km]	4700	2470		4700	
Refractive Index		1.482		1.477		

TECHNICAL PROPERTIES

Macrobending characteristics

Bending radius [mm]	**No. of windings (turns)**	**Max. induced attenuation [dB]**	
		850 nm	**1300 nm**
37.5	100	≤ 0.5	≤ 0.5
15	2	≤ 0.1	≤ 0.3
7.5	2	≤ 0.2	≤ 0.5

MECHANICAL PROPERTIES

Geometrical and mechanical characteristics

Numerical Aperture		0.200 +/- 0.015
Core Ø	[µm]	50.0 +/- 2.5
Maximum Core Non-Circularity	[%]	5
Cladding Ø	[µm]	125.0 +/- 1.0
Maximum Cladding Non-Circularity	[%]	1.0
Maximum Cladding/Core Concentricity Error	[µm]	1.5
Maximum Coating Concentricity Error	[µm]	10
Coating Ø	[µm]	242 +/- 5
Test load	[kpsi]	100

GENERAL PROPERTIES

Maximum link lengths

IEEE 802.3 series	**Wave-length [nm]**	**Link length Standard [m]**	**Explanation**
400GBASE-SR4.2	850	150	> 550 m 10 Gb/s link length require a maximum cable attenuation of < 0.3 dB/km and a total connector loss of < 0.1 dB
400GBASE WDM	850	150	

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STANDARDS

Fiber specifications	ITU-T G.651.1, IEC 60793-2-10 Type A1-OM5b, ISO/IEC 11801-OM5, TIA/EIA 492AAAE

VERSIONS

Article No.