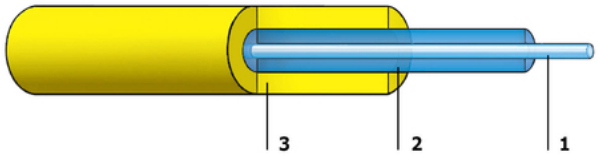
Multimode fibre, G62,5/125/250, OM1

IEC 60793-2-10 Type A1b, ISO/IEC 11801:2010 OM1, EN 50173:2011 OM1



1 Core
2 Cladding
3 Coating

DESCRIPTION

Suitable for short transmission distances and medium transmission rates in the 850 nm and 1300 nm wavelengths (typically up to 1 GbE).
The geometrical and mechanical characteristics meet all relevant international standards.

APPLICATION

In premises cabling, e.g. for Fibre to the Desk (FTTD), primarily in existing/legacy installations.

OPTICAL PROPERTIES

Transmission characteristics

Wavelength	**[nm]**	**850**	**1300**
Attenuation typical (cabled)	[dB/km]	2.8	0.6
Attenuation maximum (cabled)	[dB/km]	3.0	0.7
OFL bandwidth as per TIA/EIA 455-204 and IEC 60793-1-41	[MHz x km]	200	600
RML bandwidth as per TIA/EIA 455-204 and IEC 60793-1-41	[MHz x km]	220	
Refractive Index		1.496	1.491

MECHANICAL PROPERTIES

Geometrical and mechanical characteristics

Numerical Aperture		0.275 +/- 0.015
Core Ø	[m]	62,5 +/- 2.5
Maximum Core Non-Circularity	[%]	5
Cladding Ø	[µm]	125 +/- 2
Maximum Cladding Non-Circularity	[%]	1.0
Maximum Cladding/Core Concentricity Error	[µm]	1.5
Maximum Coating Concentricity Error	[µm]	12
Coating Ø	[µm]	245 +/- 5
Test load	[kpsi]	100

GENERAL PROPERTIES

IEEE 802.3 Serie	**Wavelength [nm]**	**Link length [m]**	**Explanation**
1000 Base-SX IEEE 802.3z	850	275 / 300*	Laser bandwidth RML (Restricted Mode Launch) measurement is used to characterise indermediate performance laser (typically up to 1 GbE) at 850 nm.
1000 Base-LX IEEE 802.3z	1300	550	
10GBase-SR/SW	850	33	
10GBase-LX4	1300	300	Link length is achieved via 1300 nm “CWDM“ using 4 channels (lanes) at 2.25 GbE: Lane 0 = 1269.0 - 1282.4 nm, Lane 1 = 1293.5 - 1306.9 nm Lane 2 = 1318.0 - 1331.4 nm, Lane 3 = 1342.5 - 1355.9 nm

* Link lengths of more than 300 m on request.

VERSIONS

Article No.