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THE FIBRE OPTIC BRAND

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LightMax®
THE FIBRE OPTIC BRAND

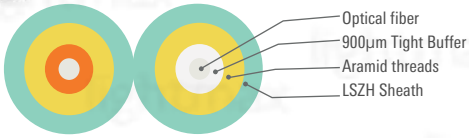
DATA SHEET

www.lightmax.com

Dielectric Indoor Cable

Ø2mm Duplex - Zipcord Tight Buffered CPR: Eca

LSZH | SM - G.652.D / MM - OM1-OM2-OM3-OM4



[Pictures for reference purposes only]

The *LightMax®*' duplex, single mode & multimode indoor cable is produced with an LSZH sheath suitable for indoor installations and also for direct connection with terminal devices. This cable is also suitable for the manufacture of jumpers and pigtails. Its aramid yarns structure gives it excellent tensile strength during installation or while being handled, avoiding damage to the fibres.

Features:

- Dielectric cable
- LSZH sheath
- Two tight buffer fibres

Applications:

- Indoor installations
- Manufacture of pigtails and jumpers

OM1/OM2/OM3/OM4 FIBRE SPECIFICATIONS					
Fibre type				OM1	OM2-OM3-OM4
Attenuation	@850 nm		dB/km	≤ 3.5	≤ 3.0
	@1300 nm			≤ 1.5	≤ 1.0
Bandwidth (Overfilled)	@850 nm		MHz.km	≥ 200	≥ 500
	@1300 nm			≥ 600	≥ 500
Core diameter			µm	62.5 ±2.5	50 ±2.5
Core non-circularity			%	≤ 5.0	≤ 5.0
Cladding diameter			µm	125.0 ±1.0	125.0 ±1.0
Cladding no circularity			%	≤ 1.0	≤ 0.6
Coating diameter			µm	245±7	245±7
Core/Cladding concentricity error			µm	≤ 1.5	≤ 1.0
Cladding/Coating concentricity error			µm	≤ 10.0	≤ 10.0
Zero Dispersion Wavelength			nm	1320~1365	1295~1340
Macrobend Loss	100 turns, 37.5mm radius @850 nm		dB	≤ 0.50	
	2 turns, 7.5mm radius @850 nm			–	≤ 0.2
	2 turns, 7.5mm radius @1300 nm			–	≤ 0.5
	2 turns, 15mm radius @850 nm			–	≤ 0.1
	2 turns, 15mm radius @1300 nm			–	≤ 0.3
Standards					
				ISO/IEC 11801 IEC 60793-2-10	

CABLE SPECIFICATIONS			
Cable type		-	Duplex
Fibres count		-	2
Nominal diameter		mm	2.0±0.1 x 4.1±0.2
Tight buffer's diameter		µm	900 ±50
Outer sheath	Material	-	LSZH
	Colour	-	Yellow
Cable weight		Kg/Km	8 ±10%
Strength member		-	Aramid yarns
Temperature	Storage	°C	-20 ~ 70
	Operation		-20 ~ 60
Bend radius (G.652.D)	Load	mm	60
	Unload		30
Crush resistance	Load	N/10 cm	500
	Unload		100
Tensile	Load	N	120
	Unload		80
Standards			
			IEC 60794-2 GR-409 CORE RoHS

G.652.D FIBRE OPTIC SPECIFICATIONS		
Fibre type		Single Mode
Core diameter		9 µm
MFD	@1310 nm	8.7 - 9.5 µm
	@1550 nm	9.8 - 10.8 µm
Cladding diameter		125 ±0.7 µm
Coating diameter		235 - 250 µm
Cladding non circularity		≤ 1.0 %
Core/Cladding concentricity error		≤ 0.6 µm
Chromatic Dispersion	@1285 ~ 1340 (nm)	-3.5 ~ 3.5 ps/(nm.km)
	@1550 nm	≤ 18 ps/(nm.km)
	@1625 nm	≤ 22 ps/(nm.km)
	Zero-Dispersion wavelength	1300 nm ~ 1324 nm
	Zero-Dispersion slope	≤ 0.092 ps/(nm².km)
PMD	Max. (individual fibre)	≤0.1 ps/√km
	Max. (link designed value)	≤0.06 ps/√km
Attenuation	@1310 nm	≤ 0.40 dB/km
	@1550 nm	≤ 0.30 dB/km
Proof test		≥ 100 kpsi
Standard		
ITU-T		G.652.D

Part Numbers
LMD2MM62X2 | LMD2MM50X2 | LMD2MMOM3X2 | LMCAINM4DX002F20ZH
LMCAIN2DFD002F37ZH3

Rel. 4-EN/MAY23

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