



# Dielectric Indoor Cable

## Ø3mm Simplex - Tight Buffered CPR: Eca LSZH | SM - G.652.D / MM - OM1-OM2-OM3-OM4

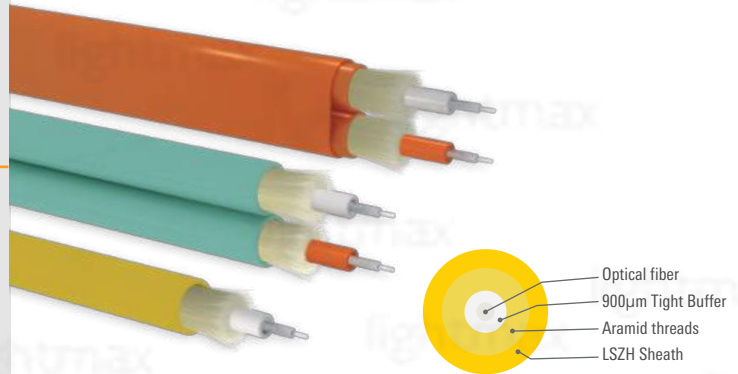
The *LightMax*<sup>®</sup> simplex, single mode & multimode indoor cable is produced with an LSZH sheath suitable for indoor installations and also for direct connection with terminal devices. This cable is also suitable for the manufacture of jumpers and pigtails. Its aramid yarns structure gives it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

### Features:

- Dielectric cable
- LSZH sheath
- One single tight buffered fibre

### Applications:

- Indoor installations
- Manufacture of pigtails and jumpers



[Pictures for reference purposes only]

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		≤ 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	-	Simplex	
Fibres count	-	1	
Nominal diameter	mm	3.0 ± 0.1	
Thickness	mm	0.45 ± 0.05	
Tight buffer's diameter	µm	900 ± 50	
Outer sheath	Material	LSZH	
	Colour	Yellow	
Cable weight	Kg/Km	6.7 ± 10%	
Strength member	-	Aramid yarns	
Temperature	Storage	°C	-20 ~ 70
	Operation		-20 ~ 60
Bend radius	Load	mm	60
	Unload		30
Crush resistance	Load	N/10 cm	500
	Unload		100
Tensile	Load	N	50
	Unload		40
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	
PMD	Zero-Dispersion slope	≤ 0.092 ps/(nm <sup>2</sup> .km)	
	Max. (individual fibre)	≤ 0.1 ps <sup>2</sup> /km	
Attenuation	Max. (link designed value)	≤ 0.06 ps <sup>2</sup> /km	
	@1310 nm	≤ 0.40 dB/km	
Proof test	@1550 nm	≤ 0.30 dB/km	
		≥ 100 kpsi	
Standard			ITU-T G.652.D

Part Numbers
LMS3MM62X1   LMS3MM50X1
LMS3MM9X1

Rel. 4-EN/MAY23