

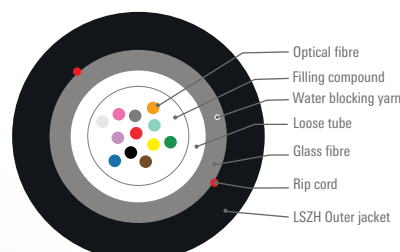
Outdoor / Indoor - Armoured Cable

Dielectric Unitube LSZH

Singlemode and Multimode | 4 to 24 Fibres
OM1, OM2, OM3, OM4, OM5, G652.D and G657.A2

CPR Dca

[More information](#)



12 fibres version cable cutting

(Pictures only for reference purposes)

PART NUMBER : LMCAIOxxDU012FM12ZHPBD

Product description

LightMax® Indoor/Outdoor Dielectric Armoured Cable has been engineered to deliver exceptional, long-lasting performance in the most demanding applications. The innovative design includes a central loose tube that **protects the fibre optics with a special waterproof compound**. In addition, it has an **LSZH outer jacket that does not release halogens in case of fire and glass fibre yarns** that provide excellent protection against rodents. **LightMax® is the ideal solution to ensure reliable and secure connections, both indoors and outdoors.**

Technical Specifications

CABLE SPECIFICATIONS

PARAMETER		SPECIFICATION					
Cable type	Dielectric armoured Unitube Dca LSZH						
Fibre count	4	6	8	12	16	24	
Loose tube diameter (mm)	2.8 a 3.6				3.5 a 4.1		
Nominal cable diameter (mm)	6				6.5		
Weight (Kg/Km)	42 ± 5				47 ± 5		
Sheath material Colour	LSZH - Black						
Central loose tube	PBT - Natural						
Protection against humidity	Filling compound (+ Water blocking yarn)						
Dielectric armour	Glass fibre yarns						
Temperature (°C)	-30 ~ + 70 [Operation]						
Bending radius (dynamic)	20 x D						
Tensile short term (N)	1000						
Crush (N/10 cm)	1500						
Standards	IEC 60794-1-2 / E1 E3 E4 E6 E7 F1 EN 50575 / Dca IEC 60332-1-2						

Application

- Ducts
- Outdoor / Indoor

Features

- Low smoke emission with no halogen
- Dielectric
- Water protection
- Anti-rodent
- UV resistant

Part Numbers

Fibre Count	G652.D	G657.A2	OM1	OM2
4 Fibres	LMCAIO2DDU004FM04ZHPBD	LMCAIOA2DU004FM04ZHPBD		
6 Fibres	LMCAIO2DDU006FM06ZHPBD	LMCAIOA2DU006FM06ZHPBD	LMCAIOM1DU006FM06ZHPBD	LMCAIOM2DU006FM06ZHPBD
8 Fibres	LMCAIO2DDU008FM08ZHPBD	LMCAIOA2DU008FM08ZHPBD		LMCAIOM2DU008FM08ZHPBD
12 Fibres	LMCAIO2DDU012FM12ZHPBD	LMCAIOA2DU012FM12ZHPBD	LMCAIOM1DU012FM12ZHPBD	LMCAIOM2DU012FM12ZHPBD
16 Fibres	LMCAIO2DDU016FM16ZHPBD			
24 Fibres	LMCAIO2DDU024FM24ZHPBD	LMCAIOA2DU024FM24ZHPBD		LMCAIOM2DU024FM24ZHPBD

Single rip cord version



Part Numbers

Fibre count	OM3	OM4	OM5
4 Fibres	LMCAIOM3DU004FM04ZHPBD	LMCAIOM4DU004FM04ZHPBD	
6 Fibres	LMCAIOM3DU006FM06ZHPBD	LMCAIOM4DU006FM06ZHPBD	LMCAIOM5DU006FM06ZHPBD
8 Fibres	LMCAIOM3DU008FM08ZHPBD	LMCAIOM4DU008FM08ZHPBD	
12 Fibres	LMCAIOM3DU012FM12ZHPB	LMCAIOM4DU012FM12ZHPBD	LMCAIOM5DU012FM12ZHPBD
16 Fibres		LMCAIOM4DU016FM16ZHPBD	
24 Fibres	LMCAIOM3DU024FM24ZHPBD	LMCAIOM4DU024FM24ZHPBD	LMCAIOM5DU024FM24ZHPBD

Single rip cord version

Technical Specifications

MULTIMODE FIBRE SPECIFICATION

	OM1	OM2	OM3	OM4	OM5
Fibre type	Multimode				
Cladding diameter	125 ± 1 µm		124.5 ± 1 µm		125 ± 2 µm
Core diameter	62.5 ± 2.5 µm		50 ± 2.5 µm		
Diameter of coated fibre (without colour)			245 ± 10 µm		
Non-circularity of the core			≤ 6.0 %		
Non-circularity of the cladding			≤ 2.0 %		≤ 1.5 %
Core / cladding concentricity error	≤ 3 µm		≤ 1.5 µm		
Coating / cladding concentricity error			≤ 12.5 µm		
Bandwidth	@850 nm (A1a.1) ≥ 160 MHz.km	≥ 500 MHz.km	≥ 1500 MHz.km		≥ 3500 MHz.km
	@1300 nm (A1a.1)		≥ 500 MHz.km		≥ 1850 MHz.km
Attenuation	@850 nm (A1a.1)		≤ 3.0 dB/km		
	@1300 nm (A1a.1)		≤ 1.0 dB/km		
Macrocurvature	Ø75mm, 100 giras @850nm		≤ 0.5 dB		
Loss	Ø75mm, 100 giras @1300nm		≤ 0.5 dB		
Standards	ISO/IEC 11801 / IEC 60793-2-10				

SINGLE MODE FIBRE SPECIFICATION

	G652.D	G657.A2
Fibre type	Monomodo	
Core diameter	9 µm	
Cladding diameter	125 ± 0.7 µm	
Non-circularity of the cladding	≤ 0.7 %	
Core / cladding concentricity error	≤ 0.5 µm	
Diameter of coated fibre (without colour)	242 ± 10 µm	
Zero dispersion wavelength [λ]	1304 ~ 1324 nm	
Zero dispersion slope	≤ 0.092 ps/(nm².km)	
	@1310 nm	9.2 ± 0.4 µm
MFD	@1550 nm	10.4 ± 0.5 µm
Attenuation	@1310 nm	≤ 0.40 dB/km
	@1550 nm	≤ 0.30 dB/km
Chromatic dispersion	@1285nm ~ 1330nm	≤ 3.0 ps/ nm.km
	@1625nm	22 ps/ nm.km
Wavelength (cut-off) [λ]	≤ 1260	
Standards	ITU-T G652.D / ITU-T G657.A2	