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THE FIBER OPTIC BRAND
REL 10 EN- FEB22 TU

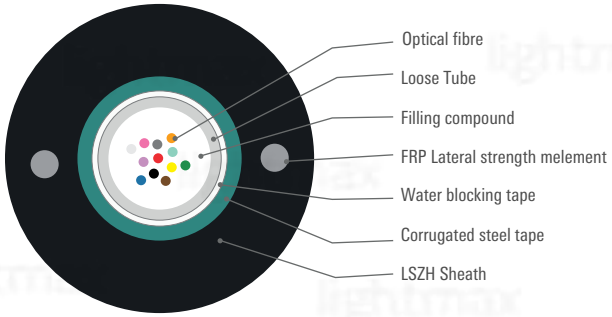
Indoor / Outdoor Cable

Armoured, Unitube | LSZH

6 | 12 | 24 Fibres

MM - OM1 | OM2 | OM3 | OM4

[Picture for reference purposes only]



This *LightMax*® unitube steel armoured indoor / outdoor optical cable is recommended for in duct instalations. It offers great stability and performance on several environmental and installation situations. The sheath protects the cable from UV radiation and humidity. Its unitube structure filled with a compound and containing the fibres is entangled by a corrugated steel tape which gives it an extra rodent protection.

Applications:

- Duct installation on damages risk areas

Features:

- Metal armoured cable
- LSZH Outer sheath
- Rodent protection
- 2 steel wire strength members
- Single loose tube
- Filling compound for water protection
- Multimode OM1 | OM2 | OM3 | OM4 fibres
- Ripcord (only on 24 fibres version)

OM1 FIBRE OPTIC SPECIFICATIONS		
Fibre type		*OM1 Multimode*
Core diameter		*62.5 ±2.5 µm*
Cladding diameter		*125 ±1.0 µm*
Coating diameter		*245 ±7 µm*
Cladding non circularity		*≤ 1.0 %*
Core/Cladding concentricity error		*–*
Coating non circularity		*≤ 6.0 %*
Cladding/Coating concentricity error		*≤ 10.0 %*
Chromatic Dispersion	*Zero dispersion wavelength*	*1320 ~ 1365 nm*
	Zero dispersion slope	*≤ 0.11 [ps/nm².km0]*
Overfilled Modal Bandwidth	*@850 nm*	*≥200 (MHZ*km)*
	@1300 nm	*≥200 (MHZ*km)*
Attenuation	*@850 nm*	*≤ 3.5 dB/km*
	@1300 nm	*≤ 1.5 dB/km*
Standard		
IEC 60793-2-10		

OM2 FIBRE OPTIC SPECIFICATIONS		
Fibre type		*OM2 Multimode*
Core diameter		*50 ±2.5 µm*
Cladding diameter		*125 ±1.0 µm*
Coating diameter		*245 ±7 µm*
Cladding non circularity		*≤ 1.0 %*
Core/Cladding concentricity		*≤1.5 µm*
Coating non circularity		*≤ 6.0 %*
Cladding/Coating concentricity		*≤ 10.0 µm*
Chromatic Dispersion	*Zero dispersion wavelength*	*1295 ~ 1340 nm*
	Zero dispersion slope	*≤ 0.105 [ps/nm².km0]*
Overfilled Modal Bandwidth	*@850 nm*	*≥500 (MHZ*km)*
	@1300 nm	*≥500 (MHZ*km)*
Attenuation	*@850 nm*	*≤ 3.0 dB/km*
	@1300 nm	*≤ 1.0 dB/km*
Standard		
IEC 60793-2-10		

Fibres and tube colours

[France Télécom]

Fibres

1	Red	7	Orange
2	Blue	8	Grey
3	Green	9	Brown
4	Yellow	10	Black
5	Violet	11	Aqua
6	White	12	Rose

Tube: White

OM3 & OM4 FIBRE OPTIC SPECIFICATIONS			
Fibre type			OM3 - OM4
Core diameter			50 ±2.5 µm
Cladding diameter			125.0 ±1.0 µm
Coating diameter			245 ±7 µm
Cladding non circularity			≤ 1.0 %
Core/Cladding concentricity			≤1.0 µm
Core non-circularity			≤ 5.0 %
Cladding/Coating concentricity			≤ 10.0 µm
Chromatic Dispersion	Zero dispersion wavelength		1295 ~ 1340 nm
	Zero dispersion slope @1295 ≤λ_0≤1310 (nm)		≤ 0.105 [ps/nm^2.km0]
	Zero dispersion slope @1310 ≤λ_0≤1340 (nm)		≤ 0.000375 (1590-λ_0) [ps/nm^2.km0]
Overfilled Modal Bandwidth	@850 nm	OM3	≥1500 (MHZ*km)
		OM4	≥3500 (MHZ*km)
	@1300 nm		≥500 (MHZ*km)
Attenuation	@850 nm		≤ 3.0 dB/km
	@1300 nm		≤ 1.0 dB/km
Standard			
IEC 60793-2-10			

CABLE SPECIFICATIONS					
Loose tube	Count	–	1		
	Diameter	mm	2.6 (±0.2)		
	Material	–	PBT		
Max. fibre count			6	12	24
Peripheral strength member	Material	–	Phosphated steel wire		
Outer sheath	Material	–	LSZH		
	Color	–	Black		
	Thickness	mm	~ 2.4		
Cable diameter [D]		mm	9.3 (±0.5)		10.2 (±0.5)
Cable weight		kg/km	120 (±10%)		140 (±10%)
Bending Radius	Static	–	10 D		
	Dynamic		20 D		
Tensile	Short term	N	1500		
Crush	Short term	N/100mm	1000		
Temperature	Storage	°C	-40 ~ 70		
	Operation		-30 ~ 60		
Standards					
IEC 60794-1-2			E1 - Tensile Loading		
			E3 - Crush		
			E4 - Impact Resistance		
			E6 - Repeated Bending		
			E7 - Torsion		
			E11A - Cable Bending		
			F5B - Water Penetration		

Part Numbers	
OM1	LMCAIOM1AU006FM06ZHPB3 | LMCAIOM1AU012FM12ZHPB3 | LMCAIOM1AU024FM24ZHPB3
OM2	LMCAIOM2AU006FM06ZHPB3 | LMCAIOM2AU012FM12ZHPB3
OM3	LMCAIOM3AU006FM06ZHPB3 | LMCAIOM3AU012FM12ZHPB3 | LMCAIOM3AU024FM24ZHPB3
OM4	LMCAIOM4AU006FM06ZHPB3 | LMCAIOM4AU012FM12ZHPB3 | LMCAIOM4AU024FM24ZHPB

Rel. 10-EN/FEB23