



Indoor Dielectric Cable

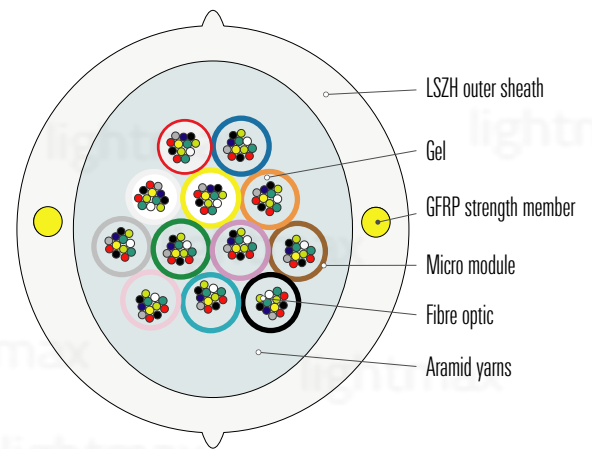
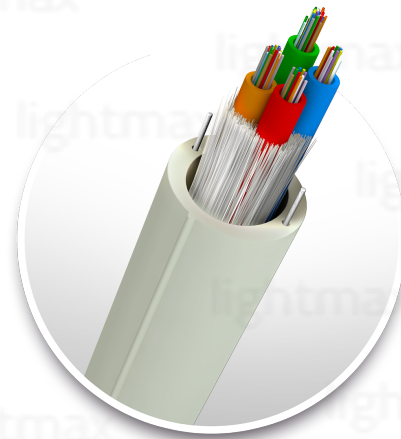
Micromodule of 6* and 12 Fibres

Singlemode G.652D/G.657.A2

LSZH - 6* | 12 | 24 | 36 | 48 | 72 | 96 | 144 | 288 fibres

Dca

LightMax[®] LSZH micromodule cable is suitable for indoor duct installations. Micromodules containing the fibres are made of thermoplastic for easy stripping. This cable includes two GFRP guides in order to provide excellent tensile performance and mechanical strength during and after installation.



[Images only for reference purposes]

G.652.D FIBRE OPTIC SPECIFICATIONS

Fibre type	Single Mode
Core diameter	9 μm
MFD	@1310 nm 9.2 ± 0.4 μm @1550 nm 10.4 ± 0.5 μm
Cladding diameter	125 ± 0.7 μm
Coating diameter	Before colour 245 ± 10 μm
Cladding non circularity	≤ 0.7 %
Core/Cladding concentricity error	≤ 0.5 μm
Chromatic Dispersion	@1300 +30/-15 nm ≤ 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/(nm ² .km)
PMD	Max. (fibre on the reel) 0.20 ps/√km Max. (link designed value) 0.10 ps/√km
Attenuation	@1310 nm ≤ 0.34 dB/km @1383 nm ≤ 0.34 dB/km @1550 nm ≤ 0.21 dB/km @1625 nm ≤ 0.24 dB/km
Standard	ITU-T G.652.D

G.657.A2 FIBRE OPTIC SPECIFICATIONS

Fibre type	Singlemode
Core diameter	9 μm
MFD	@1310 nm 8.8 ± 0.4 μm @1550 nm 9.8 ± 0.5 μm
Cladding diameter	125 ± 0.7 μm
Coating diameter	Before colour 245 ± 10 μm Coloured 250 ± 10 μm
Cladding non-circularity	≤ 0.7 %
Core/Cladding concentricity error	≤ 0.5 μm
Attenuation	@1310 nm ≤ 0.35 dB/km @1550 nm ≤ 0.22 dB/km @1285 ~ 1330 nm -3.5 ~ 3.5 ps/(nm.km)
Chromatic Dispersion	@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/(nm ² .km)
PMD	Max. (fibre on the reel) 0.20 ps/√km Max. (link designed value) 0.10 ps/√km
Macrobend loss	10 mm radius, 1 turn, @1550 nm ≤ 0.10 dB 10 mm radius, 1 turn, @1550 nm ≤ 0.20 dB 10 mm radius, 1 turn, @1625 nm ≤ 1.0 dB
Standard	ITU-T G.657.A2



Colours of Fibres & Micromodules

[France Télécom]

Fibres		Micromodules	
1	Red	7	Orange
2	Blue	8	Slate
3	Green	9	Brown
4	Yellow	10	Black
5	Violet	11	Aqua
6	White	12	Pink

From the 13th to the 24th micromodule, colours will be black ring marked. Black micromodule will be white ring marked.

Characteristics:

- CPR Dca
- Dielectric cable
- LSZH ivory outer jacket
- GFRP traction guides
- Micromodules filled with hydrofuge gel
- 6*|12|24|36|48|72|96|144|288 fibres availability
- Singlemode fibre - G.652.D or G.657.A2
- France Télécom colour code

Applications:

- Indoor
- Duct
- Facade

CABLE CHARACTERISTICS											
Fibre count		6*	12	24	36	48	72	96	144	288	
Fibres per micromodule		6	12								
Cable diameter nominal (D)	mm	6.0 ± 0.5	6.5 ± 0.5	7.0 ± 0.5	7.5 ± 0.5		9.5 ± 0.5	11.0 ± 0.5	14.5 ± 0.5		
Cable weight	kg/km	30	37	40	47	74	78	100	150		
Outer sheath	Material Colour	LSZH Ivory white									
Humidity protection		Gel									
Reinforcement elements		Aramid yarns									
Temperature	Storage	°C -40 ~ 70									
	Operation	°C -20 ~ 60									
Radius of curvature	Load	20 x D									
	Unload	15 x D									
Crush resistance	N/10 cm	1000									
Max. tensile	N	600						1000		1500	
Standards											
IEC 60794-1-2					E1 - Traction						
					E3 - Crush						
					E4 - Impact						
					E6 - Flexion						
					E7 - Torsion						
					F1 - Temperature cycle						
EN 50575					Dca						
IEC 60332-1 / NF C32-070 C2					Flame retardant						
IEC 50399					Flame propagation, energy, smoke formation and burning droplets.						
IEC 60754-2					Measurement of the acidity level of gases						

Part Numbers
LMCAIN2DMDxxxFM12ZHTPD G.652.D
LMCAINA2MDxxxFM12ZHTPD G.657.A2

Rel. 4-EN/APR21