



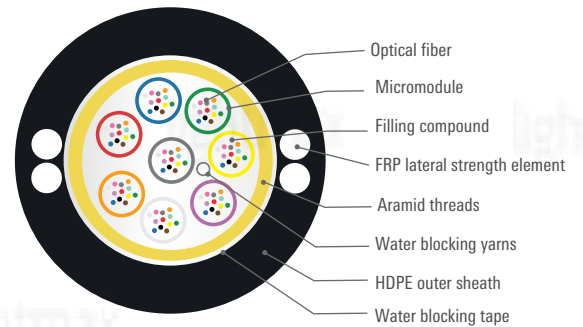
Dielectric Outdoor Cable

Aerial & Duct | 6* or 12 fibres per Micromodule
SM | 6* ~ 96 fibres | HDPE



[Pictures for reference purposes only]

LightMax[®] HDPE Micromodule cable is suitable for aerial and duct installations. The micromodules containing the fibres are made of thermoplastic, which facilitates its stripping. This cable incorporates two GFRP guides which ensure excellent traction performance as well as great mechanical robustness during and after its installation.



Applications:

- Outdoor installations
- Aerial
- Duct

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 coulored	245 ±10 µm
Cladding non circularity		≤ 0.7 %
Core/Cladding concentricity error		≤ 0.5 µm
Chromatic Dispersion	@1310 +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
PMD	Zero-Dispersion slope	≤ 0.092 ps/(nm ² .km)
	Max. (fibre on the reel)	0.20 ps/√km
	Max. (link designed value)	0.10 ps/√km
Attenuation	@1310 nm	≤ 0.40 dB/km
	@1550 nm	≤ 0.30 dB/km
Standard	ITU-T	G.652.D

G.657.A2 FIBRE OPTIC SPECIFICATIONS		
Fibre type		Single mode
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 coloured	245 ±10 µm
	coloured	250 ±10 µm
Cladding non circularity		≤ 0.7 %
Core/Cladding concentricity error		≤ 0.5 µm
Attenuation	@1310 nm	≤ 0.40 dB/km
	@1550 nm	≤ 0.30 dB/km
Chromatic Dispersion	@1285 ~ 1330 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 ² .km)
	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, @1625 nm	≤ 0.20 dB
	10 mm radius, 1 turn, @1550 nm	≤ 0.50 dB
	10 mm radius, 1 turn, @1625 nm	≤ 1.0 dB
Standard	ITU-T	G.657.A2



Fibres and Micro modules colours:

[France Télécom]

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

Features:

- Dielectric cable
- Multitube cable (6F unitube)
- UV resistant HDPE outer sheath
- GFRP strength members
- Micromodules filled with water repellent gel
- Micromodules easy to strip
- Fibres count: 6|12|24|36|48|72|96
- Cable span: ≤60 m
- Single mode fibre - G.652.D or G.657.A2
- France Télécom colour code

CABLE SPECIFICATIONS												
Fibres count	-		6	12	24	36	48	72	96			
Micromodules count	-		1	1	2	3	4	6	8			
Fibres per micromodule	-		6						12			
Micromodule diameter	mm								1.3			
Nominal cable diameter (D)	mm		6.2 ±0.5	6.8 ±0.5	8.0 ±0.5	8.2 ±0.5	8.7 ±0.5	9.8 ±0.5	10.9 ±0.5			
Cable weight	kg/km		28 ±5%	33 ±5%	43 ±5%	48 ±5%	53 ±5%	69 ±5%	84 ±5%			
Outer sheath	Material Colour	-							HDPE Black			
Water blocking elements	-								Yarns and Gel			
Strength elements	-								GFRP (Glass fibre reinforced plastic)			
Temperature	Storage	°C		-40 ~ 70								
	Operation	°C		-40 ~ 70								
Radius of curvature	Load	-		25 x D								
	Unload	-		12.5 x D								
Crush resistance	N/10 cm								2000			
Tensile (max)	N		800		1200		2000		2200		2500	
Span	m								≤60			
Standards												
IEC 60794-1-2		E1 - Tensile										
		E3 - Crush										
		E4 - Impact										
		E6 - Repeated bending										
		E7 - Torsion										
		F1 - Temperature cycle										
		F5 - Water penetration										

Part Numbers

G.652.D	LMCAOU2DMA006FM06HDP2F	G.657.A2	LMCAOUA2MA006FM06HDP2F
	LMCAOU2DMA012FM12HDP2F		LMCAOUA2MA012FM12HDP2F
	LMCAOU2DMA024FM12HDP2F		LMCAOUA2MA024FM12HDP2F
	LMCAOU2DMA036FM12HDP2F		LMCAOUA2MA036FM12HDP2F
	LMCAOU2DMA048FM12HDP2F		LMCAOUA2MA048FM12HDP2F
	LMCAOU2DMA072FM12HDP2F		LMCAOUA2MA072FM12HDP2F
	LMCAOU2DMA096FM12HDP2F		LMCAOUA2MA096FM12HDP2F