



Dielectric Outdoor Cable

Microcable Unitube - Air Blown Unit CPR: Eca 4, 12 & 24 Fibres | SM G.657.A1

The *LightMax*[®] Microcable Unitube is suitable for air blown fibre applications. The thermoplastic loose tube filled with water protection gel houses the bend insensitive optical fibres. This cable is reinforced by aramid yarns acting as strength member and increasing mechanical performance.

Features:

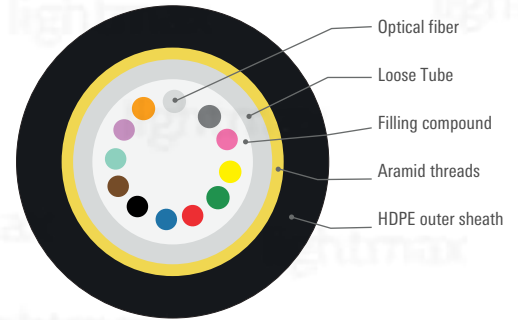
- Dielectric microcable
- HDPE outer sheath
- Aramid yarns as strength member
- TP loose tubes with 4, 12 and 24 fibres
- Gel as water blocking material
- G.657.A1 fibre

Applications:

- Air blown fibre



[Picture for reference purposes only]



G.657.A1 FIBRE OPTIC SPECIFICATIONS [8]			
Fibre type	Single Mode		
Core diameter	9 μm		
Cabled Fibre Attenuation	@1310 nm	≤0.40 dB/km	
	@1383 nm	≤0.34 dB/km	
	@1550 nm	≤0.30 dB/km	
	@1625 nm	≤0.23 dB/km	
Zero-Dispersion wavelength	1300 ~ 1324 nm		
Zero-Dispersion slope	≤0.092 ps/nm ² .km		
Macrobend loss	30 mm radius, 10 turns	@ 1550 nm ≤ 0.25 dB	@ 1625 nm ≤ 1.0 dB
	20 mm radius, 1 turn	@ 1550 nm ≤ 0.75 dB	@ 1625 nm ≤ 1.5 dB
MFD	@1310 nm	8.8 ±0.6 μm	
PMD individual value	≤0.2 ps/√km		
Coating diameter	250 ±15μm		
Cladding no circularity	≤0.7%		
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Core/Cladding concentricity error	≤ 0.5 μm		
Proof stress	≥ 0.69 GPa		
Standard	ITU-T G.657.A1		



Fibres and tube colours

[France Telecom]

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

CABLE SPECIFICATIONS					
<i>Fibres</i>	<i>Count</i>	–	4	12	24
	<i>Colour code</i>	–	France Télécom		
<i>Loose tube</i>	<i>Fibres count</i>	–	4	12	24
	<i>Material</i>	–	PBT		
	<i>Colour</i>	–	White		
	<i>Diameter</i>	mm	1.5	1.7	2.7
<i>Water blocking</i>	–	Thixotropic compound			
<i>Outer diameter (nominal) [D]</i>	mm	2.0 ±0.2	2.5 ±0.2	3.8 ±0.2	
<i>Weight</i>	kg/km	3.4	5.0	13.0	
<i>Strength member</i>	–	Aramid yarns			
<i>Outer sheath</i>	<i>Material</i>	–	HDPE		
	<i>Colour</i>	–	Black		
<i>Tensile (max.)</i>	N	10	50		
<i>Crush</i>	N/100mm	500			
<i>Impact</i>	J	1			
<i>Temperature</i>	<i>Operation</i>	-20 ~ 60			
	<i>Installation</i>	-20 ~ 60			
<i>Bend radius</i>	<i>Static</i>	–	10xD		
	<i>Dynamic</i>	–	20xD		
Standard					
IEC 60794-1-2	E1 - Tensile				
	E3 - Crush				
	E4 - Impact				
	E6 - Repeated bending				
	F1 - Temperature cycling				

Part Numbers
LMCAOUA1BU004FM04HDPB2F LMCAOUA1BU012FM12HDPB2F
LMCAOUA1BU024FM24HDPB2F

Rel. 5-EN/FEB23