



Dielectric Outdoor Cable

Fibre Units for Blowing Installation

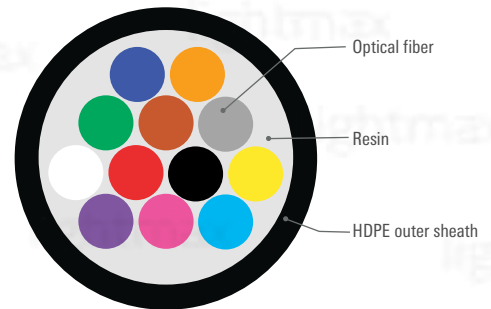
MULTIMODE | OM3 - OM4

12 Fibres



The *LightMax*[®] EPFU (Enhanced Performance Fibre Units) cable contains optical fibres that are specifically engineered for blown fibre applications. These are contained inside a soft HDPE sheath made of a low friction coated layer and filled with resin, protecting them from damage and assisting in the improvement of distance on blowing installations. *LightMax*[®] EPFU cables are available in OM3 and OM4 versions.

[Pictures for reference purposes only]



OM3 - OM4 FIBRE OPTIC SPECIFICATIONS				
Fibre type			OM3	OM4
Core diameter		µm		50 ±2.5
Core non-circularity		%		≤ 5.0
Cladding diameter		µm		125 ±1.0
Cladding non circularity		%		≤ 1.0
Coating diameter		µm		245 ±7
Coating/Cladding concentricity error		µm		≤ 10.0
Coating non-circularity		%		≤ 6.0
Core/Cladding concentricity error		µm		≤ 1.0
Attenuation	@850 nm	dB/km	≤ 3.0	≤ 3.0
	@1300 nm	dB/km	≤ 1.0	≤ 1.0
Overfilled Modal Bandwidth	@850 nm	MHz.km	≥1500	≥3500
	@1300 nm	MHz.km	≥500	≥500
Effective Modal Bandwidth	@850 nm	MHz.km	≥2000	≥4700
Chromatic Dispersion	Zero dispersion wavelength	nm	1295 ~ 1340	
	Zero dispersion slope	1295nm~1310nm	≤0.105	
		1300nm~1320nm	≤0.000375 (1590.λ ₀)	
Standard				
IEC 60793-2-10				



Fibres and Low friction sheath colours

[FOTAG]

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

Features:

- Dielectric gel free cable
- Low friction HDPE sheath
- 25 years of typical service conditions
- 12 fibre count availability
- Fibre type OM3 & OM4
- Typical blowing distance : 800 m

Applications:

- Suitable for air blown fibre units in micro-ducts installations

CABLE SPECIFICATIONS		
Fibres count		12
Nominal diameter <small>(±0.1)</small>	mm	1.65
Sheath Colour		HDPE Black
Weight <small>(±0.3)</small>	kg/km	2.0
Tensile [ST LT]	N	19.6 5.88
Crush [ST LT]	N	100 50
Bending radius	mm	Static: 20 Dynamic: 30
Temperature	Storage	-40 ~ 70
	Installation	°C -5 ~ 50
	Operation	-20 ~ 70
Standards		
		E1 - Tensile
		E3 - Crush
		E4 - Impact
IEC 60794-1-2		E6 - Repeated bending
		E7 - Torsion
		E11A - Flexion
		F1 - Temperature cycling

BLOWING PERFORMANCE ^(*)		
Fibres count		12
Standard duct	mm	5.0 / 3.5
Pressure	bar	12
Typical blowing distance	m	800
Typical blowing time	min	30
Standard		
IEC 60794-5-10		Blowing Performance ^(*)

^(*) PLUMETTAZ Ultimaz test equipment

Part Numbers	
OM3	OM4
LMCAOUM3EP012FM12HDRE1	LMCAOUM4EP012FM12HDRE1

Rel. 7-EN/FEB23