

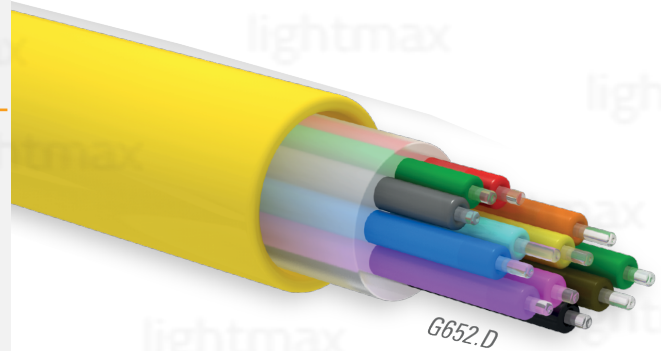


## Dielectric Outdoor Cable

### Fibre Units for Blowing Installation

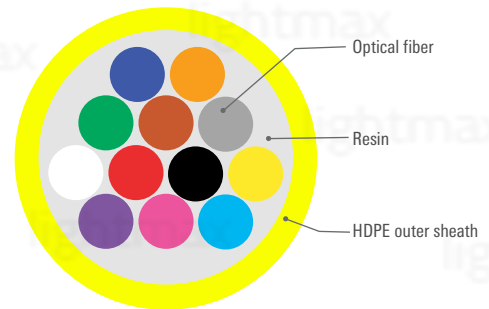
SM - G.652.D

12 Fibres



The *LightMax*<sup>®</sup> 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*<sup>®</sup> EPFU cables are available in G.652.D fibre version.

[Pictures for reference purposes only]



G.652.D FIBRE OPTIC SPECIFICATIONS		
<b>Fibre type</b>		Single Mode
<b>Core diameter</b>		9 µm
<b>MFD</b>	@1310 nm	9.2 ±0.4 µm
	@1550 nm	10.4 ±0.5 µm
<b>Cladding diameter</b>		125 ±0.7 µm
<b>Coating diameter</b>		235 - 250
<b>Coating non circularity</b>		≤ 6.0 %
<b>Core/Cladding concentricity error</b>		≤ 0.6 µm
<b>Chromatic Dispersion</b>	@1285 - 1340 (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
	Zero-Dispersion slope	≤ 0.092 ps/(nm <sup>2</sup> .km)
<b>PMD</b>	Max. (fibre on the reel)	≤0.10 ps <sup>2</sup> /km
	Max. (link designed value)	≤0.06 ps <sup>2</sup> /km
<b>Attenuation</b>	@1310 nm	≤ 0.40 dB/km
	@1550 nm	≤ 0.30 dB/km
<b>Proof test</b>		≥ 9.0 N
<b>Dynamic Fatigue (n<sub>1</sub>)</b>		≥ 20
<b>Standard</b>	ITU-T	G.652.D



**Fibres and Low friction sheath colours**

[FOTAG]



**Features:**

- Dielectric gel free cable
- Low friction HDPE sheath
- 25 years of typical service conditions
- 12 fibre count availability
- Fibre type G.652.D
- 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
<b>Standards</b>		
		E1 - Tensile
		E3 - Crush
		E4 - Impact
IEC 60794-1-2		E6 - Repeated bending
		E7 - Torsion
		E11A - Flexion
		F1 - Temperature cycling

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

<sup>(\*)</sup> PLUMETTAZ Ultimaz test equipment

Part Numbers
G.652.D
LMCAOU2DEP012FM12HDRE1

Rel. 6-EN/FEB23