



PrimaLight™

PrimaLight™ is the new Prysmian singlemode fibre, fully compliant with the ITU-T G.652 Recommendation, characterized by a standard 125 µm glass diameter and two coating layers, based on Neon™ Plus technology, with a 200 µm external diameter.

Whilst not compromising the excellent optical and mechanical properties of Prysmian standard singlemode fibres, PrimaLight™ naturally gives the cable manufacturers the chance of increasing the cable fibre counts: operators looking for high fibre density cables could easily benefit from this innovation.

ITU-T G652 PrimaLight™ Fibre Specification

General Specifications

Material	Silica/Doped Silica
Refractive Index Profile	Step Index

Coating Characteristics

Primary Coating Material	Acrylate Neon™ Plus
External Coating Diameter	200 µm ± 10 µm

Geometrical Characteristics

Mode Field Diameter @1310 nm	9,2 ± 0.4 µm
Cladding Diameter	125 ± 0.7 µm
MFD/Cladding Concentricity Error	≤ 0.5 µm
Cladding non Circularity Error	≤ 1.0 %

Cable Cut -Off Wavelength	≤ 1260 nm
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Attenuation Coefficients [*]

@1310 nm	≤ 0.35 dB/km
@1550 nm	≤ 0.21 dB/km
@1625 nm	≤ 0.24 dB/km
Attenuation uniformity (1310 & 1550 nm)	≤ 0.05 dB/km

Dispersion Coefficients

1285 ÷ 1330 nm	≤ 3.5 ps/(nm·km)
@1550 nm	≤ 18 ps/(nm·km)
@1625 nm	≤ 22 ps/(nm·km)
Zero Dispersion Wavelength	1302 ÷ 1322 nm
Zero Dispersion Slope S ₀	≤ 0.092 ps/(nm ² ·km)
Polarisation Mode Dispersion	≤ 0.1 ps/√km
PMD _{link}	≤ 0.07 ps/√km

Mechanical Characteristics

Proof Test	≥ 1.0 %
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[*] Different attenuation coefficients are available upon request