

EPFU 50/125 MULTIMODE (OM2) FIBRE SPECIFICATION

The following details summarise the main Optical, Geometrical and Physical Characteristics of fibres for the CATV/industrial market, compliant to ITU -T Rec. G.651 and IEC 60793-2-10 A1a.

Fibres are manufactured from high grade silica, doped as necessary to achieve the required light guiding properties, designed with a matched-cladding, graded-index profile.

The fibre coating is a dual layer structure of ultra-violet cured acrylate resin. The lower modulus inner layer being optimised for both adhesion to the fibre surface and mechanical stripping, using the appropriate stripping tools. The outer layer is optimised for abrasion resistance and fibre processing properties.

OPTICAL PROPERTIES		VALUE	UNITS
Attenuation Coefficient (2F + Hybrids)	850 nm	≤ 3.2	dB/km maximum
	1300 nm	≤ 1.2	dB/km maximum
Attenuation Coefficient (4F, 6F, 8F,12F)	850 nm	≤ 2.6	dB/km maximum
	1300 nm	≤ 0.8	dB/km maximum
Numerical Aperture		0.20 ± 0.015	-
Normalised Bandwidth	850 nm	500	MHz.km minimum
	1300 nm	800	MHz.km minimum

GEOMETRICAL PROPERTIES		VALUE	UNITS
Core Diameter		50 ± 2.5	µm
Reference Surface Diameter		125 ± 1	µm
Core to Cladding Concentricity Error		≤ 1.5	µm
Reference Surface Non-Circularity		≤ 1	%
Coating Diameter (Coloured)		235 to 255	µm

PHYSICAL PROPERTIES		VALUE	UNITS
Proof Test Level		≥ 1	%