

62.5/125 Multimode Fibre (OM1) to IEC 60793-2-10 A1b

Features and Benefits

The following details summarise the main optical, geometrical and physical characteristics of multimode 62.5/125 fibres as used in Sirocco Enhanced Performance Fibre Units (EPFU), compliant with IEC 60793-2-10 A1b.

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,4F,8F,12F)	850 nm	≤ 3.5	dB/km maximum
	1300 nm	≤ 1.0	dB/km maximum
Numerical Aperture		0.275 ± 0.015	-
Normalised Bandwidth (< 2 km lengths)	850 nm	200	MHz.km minimum
	1300 nm	600	MHz.km minimum
Dispersion	850 nm	≤ 120	ps/nm.km
	1300 nm	≤ 6	ps/nm.km

Geometrical Properties		Value	Units
Core Diameter		62.5 ± 2.5	µm
Reference Surface Diameter		125 ± 1.0	µm
Core to Cladding Concentricity Error		≤ 1.5	µm
Reference Surface Non-Circularity		≤ 1.0	%
Coating Diameter (Coloured)		235 - 255	µm

Physical Properties		Value	Units
Proof Test Level		≥ 1	%

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