

50/125 Multimode Fibre (OM3) to TIA/EIA-492AAAC, ISO/IEC 11801 OM-3 TYPE and IEC 60793-2-10 A1a.2

Features and Benefits

The following details summarise the main Optical, Geometrical and Physical Characteristics of OM3 fibres as used in Sirocco Enhanced Performance Fibre Units (EPFU), compliant with TIA/EIA-492AAAC, ISO/IEC 11801 OM-3 Type and IEC 60793-2-10 A1a.2.

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)	850 nm	≤ 3.2	dB/km maximum
	1300 nm	≤ 1.2	dB/km maximum
Attenuation Coefficient (4F,8F,12F)	850 nm	≤ 2.6	dB/km maximum
	1300 nm	≤ 0.7	dB/km maximum
Numerical Aperture		0.20 ± 0.015	-
Minimum Modal Bandwidth	850 nm	1500	MHz.km minimum
	1300 nm	500	MHz.km minimum
Effective Modal Bandwidth	850 nm	2000	MHz.km minimum

Geometrical Properties		Value	Units
Core Diameter		50 ± 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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