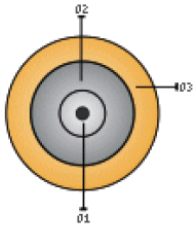


Simplex Fibre Optic Cable OM1

Multimode 62.5/125µm

TechOptics

Cable Specification



Cable description

- 01. Tight Buffer Fibre (0.6 mm)
- 02. Strength Members
- 03. Outer Jacket

Applications

- Indoor
- Pigtail and jumper connections
- Direct connection to terminal equipments



Advantages

Flexible / Resilient / Totally dielectric / Direct connectorization.



SPECIFICATIONS

Fibres	1
Buffer Material	Hytrel
Strength members	Aramid Yarns
Outer Jacket	Polyurethane (Thickness 0.2 mm)
Identification	ORG (RAL2003) MM62
Weight (Kg/Km)	3
Outer Ø (mm)	1.6 ±0.1
Max. Tensile Load (N)	71 (Operating) / 142 (Installation) - (IEC 60794-1-21 E1)
Max. Crush (N)	300 (IEC 60794-1-21 E3)
Temperature Range	-40°C to +80°C (IEC 60794-1-22 F1)
Min. Bending Radius	15 x Outer Ø (IEC 60794-1-21 E11)

Standards

Mechanical and Environmental tests according to IEC 60794-1-21 and IEC 60794-1-22.

Fibre and buffer colour code: Blue

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Fibre Specification

OM1 (62.5/125µm) graded index fibre optimised for 850/1300nm. The fibre complies with or exceeds IEC 60793-2-10 type A1b Optical Fibre Specification, ISO/IEC 11801 OM1 /OM2, TIA/EIA-492AAAA and Telcordia GR-20-CORE and GR-409-CORE Specifications.

GEOMETRICAL AND MECHANICAL CHARACTERISTICS	VALUES
Core diameter	62.5 ± 2.5 µm
Core non-circularity	≤ 6 %
Core / Cladding concentricity error	≤ 1.5 µm
Cladding diameter	125 ± 2 µm
Cladding non-circularity	≤ 1 %
Primary coating diameter	245 ± 10 µm
Coating non-circularity	≤ 6 %
Coating concentricity error	≤ 12.5 µm
Proof Test	≥ 8.8 N / ≥ 1 % / ≥ 100 Kpsi

Geometrical and mechanical characteristics according to IEC 60793-2-10.

OPTICAL CHARACTERISTICS		OM1	OM2	Giga
Attenuation Coefficient (dB/Km)	850 nm	≤ 3.0	≤ 3.0	≤ 3.0
	1300 nm	≤ 0.7	≤ 0.7	≤ 0.7
Bandwidth (MHz.Km)	850 nm	≥ 200	≥ 500	≥ 200
	1300 nm	≥ 500	≥ 500	≥ 500
Link Distance (m)	1000Base-SX	300	550	500
	1000Base-LX	550	550	1000
Numerical Aperture	0.275 ± 0.015			
Group Index of Refraction	850 nm	1.496		
	1300 nm	1.491		

Optical properties according to IEC 60793-2-10, ISO/IEC 11801, EN 50173, ANSI/TIA/EIA-492AAAA and Telcordia GR-20-CORE and GR-409-CORE.

For further information and to discuss your application please contact:-

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ISO9001:2008
for distribution
of fibre optic
products and
manufactured
assemblies.



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Specifications subject to change without notice.

Simplex OM1 cable – April 2017

www.techoptics.com

