

# Optical Fibre

## OM3 (50/125µm Multimode fibre)

Datasheet GD101699v3

**Brand-Rex** | a LEVITON<sup>®</sup> company

### 850 nm LASER-OPTIMIZED 50/125 MULTIMODE OPTICAL FIBRE IEC 60793-2-10 Type A1a.2 and ISO/IEC 11801 (OM3 cabled optical fibre) For 10 Gb/s APPLICATION UP TO 300 m

#### OPTICAL PROPERTIES

Attenuation	@ 850 nm @ 1300 nm	≤ 2.8 dB/km ≤ 0.8 dB/km
Overfilled Modal Bandwidth	@ 850 nm @ 1300 nm	≥ 1500 MHz.km ≥ 500 MHz.km
Effective Modal Bandwidth	@ 850 nm	≥ 2000 MHz.km
Numerical Aperture		0.200 ± 0.015
Chromatic Dispersion: Zero-Dispersion Wavelength Zero-Dispersion Slope	1295 - 1300 nm 1300 - 1320 nm	≤ 0.001(λ <sub>0</sub> -1190) ps/nm <sup>2</sup> .km ≤ 0.11 ps/nm <sup>2</sup> .km
Attenuation Uniformity	Point or Step Defects Extended variations	≤ 0.2 dB ≤ 0.2 dB
Group Index of Refraction	(Typical) 850 nm 1300 nm	1.482 1.477

#### MACROBENDING PROPERTIES

2 turns around 30mm diameter	@850 nm	≤0.1 dB/km
2 turns around 30mm diameter	@1300 nm	≤0.3 dB/km
2 turn around 15mm diameter	@850 nm	≤0.2 dB/km
2 turn around 15mm diameter	@1300 nm	≤0.5 dB/km

#### GEOMETRICAL PROPERTIES

Core		50 ± 2 µm
Core Non-Circularity		≤ 5.0 %
Core / Cladding Concentricity Error		≤ 1 µm
Cladding Diameter		125.0 ± 1.0 µm
Cladding Non-Circularity		≤ 0.7 %
Coating Diameter		245 ± 10 µm
Coating Concentricity Error		≤ 12 µm
Coating Non-Circularity		≤ 6 %

#### MECHANICAL PROPERTIES

Proof Test Level		≥ 0.69 GPa / ≥ 1.0 %
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