OPTOKON KABLE Co., Ltd., s.r.o.
Kourimskeho 2500
393 01, Pelhrimov, Czech Republic
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Multimode Fiber OM5

Specifications:

Fiber type 50/125
OPK code OM5
Rev. 005-21/41

Fiber type	**50/125**
OPK code	**OM5**

Optical Characteristics

Attenuation coefficient Loose tube Cables (Typical / Maximum)	
at 850 nm	2.2 / 3.0 dB/km
at 1300 nm	0.5 / 1.5 dB/km
Attenuation coefficient Tight Buffered Cables (Typical / Maximum)	
at 850 nm	2.5 / 3.0 dB/km
at 1300 nm	0.6 / 1.5 dB/km
Point of discontinuity at 1300 nm	≤ 0.2 dB
Zero dispersion wavelength	1297 – 1328 nm
Zero dispersion slope	≤ 4(-103)/(840(1-(l0 /840)4)) ps/(nm2·km)
Numerical Aperture	0.200 ± 0.015
Effective group index of refraction at 850 nm	1.483
Effective group index of refraction at 1300 nm	1.478

Performance Characteristics

Bandwidth (Overfilled launch)	
at 850 nm	≥ 3500 MHz·km
at 953 nm	≥ 1850 MHz·km
at 1300 nm	≥ 500 MHz·km
Effective Modal Bandwidth (EMB)	
at 850 nm	≥ 4700 MHz·km
at 953 nm	≥ 2470 MHz·km

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Geometrical Characteristics

Core diameter	50 ± 2.5 µm
Core non-circularity	≤ 5.0 %
Core/Cladding concentricity error	≤ 1 µm
Cladding diameter	125.0 ± 1.0 µm
Cladding non-circularity	≤ 1.0 %
Primary coating diameter (uncoloured fibre)	242 ±7 µm
Primary coating diameter (coloured fibre)	250 ±10 µm
Coating-Cladding concentricity	≤ 10 µm

Macrobending loss

2 turns, mandrel diameter 30 mm at 850 nm	≤ 0.1 dB
2 turns, mandrel diameter 30 mm at 1300 nm	≤ 0.3 dB
2 turns, mandrel diameter 15 mm at 850 nm	≤ 0.2 dB
2 turns, mandrel diameter 15 mm at 1300 nm	≤ 0.5 dB

Mechanical Characteristics

Proof test level	≥ 0.69 Gpa (≥ 8.8 N)
Coating strip force	1.9 N
Dynamic fatigue resistance parameter	≥ 23

Typical attenuation is the value measured for at least 90% of the fibers in the cable.

OTDR measurement values can only be guaranteed for cable lengths of 1000 m and more.

Cable on the reel may show an discontinuity of the OTDR curve caused by winding of the cable on the reel.