Specifications for Plastic Optical Fiber

DB-1500

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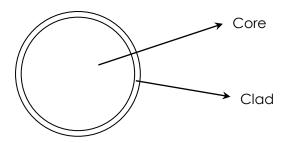
Plastic Optical Fiber

Marketing & Development Gr



1, STRUCTURE

ITEM	UNIT	Specifications
Core Material		PMMA
Clad Material		Fluorinated Polymer
Core reflective index		1.49
NA		0.5
Reflective index Profile		Step index
Core Diameter	μm	1480 ± 90
Fiber Diameter	μm	1500 ± 90
Approx. weight	g/m	2.1





2, PROPERTIES

ITEM	UNIT	Specifications	
Storage Temperature Range	°C	-55 ~ 70	*1
Application Temperature Range	°C	-55 ~ 70	*1
Attenuation	dB/km	≤ 160	*2
Tensile Strength at Break Point	N	≥ 170	*3
Minimum Bending Radius	mm	30	*4

Sample conditions

Temperature: $T = 23^{\circ}C$ Humidity: RH = 50%Storage time: t = 200h

*1 : After 1000h, Attenuation Increase shall be ≤10% of the specification *2 : Monochromatic light at 650nm, LNA = 0.15, 52-2m Cut-back Method *3 : Interval between grippers = 100 mm, Tensile Speed = 100mm/min

*4: L = 2m, 90 degree bending at the middle of fiber Light Source: LED (Peak Wavelength = 657nm)

Transmission Rate \geq 90%

3, RoHS certification

The product does not contain RoHS 2 hazardous substances, Cadmium, Lead, Mercury, Chromium (VI), PBB, PBDE, DIBP, DEHP, DBP and BBP intentionally.