

Specifications for Plastic Optical Fiber

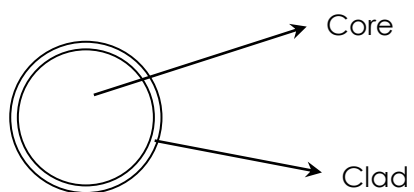
DB-500(MY)

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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	480 ± 23
Fiber Diameter	μm	500 ± 23
Approx. weight	g/m	0.3



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	≥ 19	*3
Minimum Bending Radius	mm	10	*4

Sample conditions

Temperature: T = 23°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 ≥ 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.