

SPECIFICATION

FOR

HIGHLY HEAT RESISTANT PLASTIC OPTICAL FIBER

[P/N; HPOF-S 1.5/2.2]



Electric Wires & Cables Production Center
Engineering Dept.

Hitachi Cable, Ltd.

1. Scope

This specification covers Highly Heat Resistant Plastic Optical Fiber [HPOF-S].

2. Construction and Material

Item		Specified value
Core	Material	Silicone
	Diameter	1.5mm
Cladding and Jacket	Material	FEP
	Color	Inner ; Clear, Outer ; Black
	Diameter	2.2 ± 0.1 mm

3. Characteristics

Item	Value	Condition
Attenuation	Max. 1.0dB/m	at 20°C, at 660nm by cut-back method (5m-1m) source of light : monochromator (halogen lamp)
Max. theoretical NA	0.65	calculated value
Min. permissible bending radius	35mm	180° bending, increase of attenuation : Max. 0.1dB
Heat resistance	150°C X 5000h	heating length : 1m increase of attenuation : Max. 1.0dB at 660nm
Humidity resistance	60°C, 90%RH X 1000h	humidity length : 1m increase of attenuation : Max. 1.0dB at 660nm

4. Packing

Standard length: 100m

Packing: coil

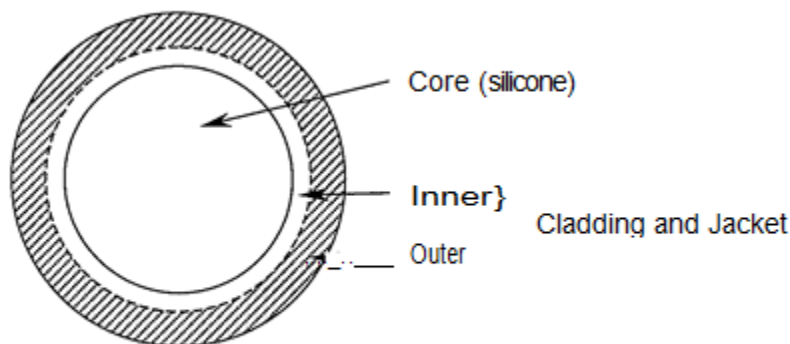


Fig.1 Cross-section of fiber