Product Specifications

Product No: Part# FF-HSN1.0

1. Scope

This specification covers basic requirements for the structure and optical performances of FF-HSN1.0.

Side Emitting Fiber, 1.0 mm dia. Fiber, Exterior appearance clear

2. Structure

Product parameter

Fiber Core Material: PMMA

Fiber Cladding Material: Fluorinated Polymer

Core refractive index: 1.491

Cladding refractive index: 1.363

Numerical Aperture: 0.5

Minimum Bend Radius: 10mm

4. Specifications:

ltem		Unit	Technical Parameters	Test
Structural parameters	Core diameter	μm	985±60	IEC 60793-1-20
	Cladding diameter	μm	1000±60	
	Cladding non-circularity	96	≤6	
	Approximate Weight	g/m	1	
Optical properties	Transmission Loss	dB/m	≤0.2	650nm IEC 60793-1-40
	Transmission Loss Under 95%RH	dB/m	≤0.2	
Mechanical Characteristics	Tensile Strength	N	≥56	IEC 60068-1
Environmental Performance	Storage and Operating Temperature	°C	-55~+85	No Physical Deterioration and Optical Property
	Recommended Operating Temperature	°C	-40~+70	No Deterioration In Optical Properties
	Installation Temperature	°C	-20~+70	No Deterioration In Optical Properties