# **Product Specifications**

## Product No: Part# FF-HSN4.0

### 1. Scope

This specification covers basic requirements for the structure and optical performances of FF-HSN4.0.

Side Emitting Fiber, 4.0 mm dia. Fiber, Exterior appearance clear, Cable flexible

### 2. Structure

Product Data:		(
1. Fiber core material	MMA Polymer	Core
2. Cladding material	PTFE	
3. Minimum bending radius	6 x diameter	
4. Wavelength range	400-700nm	
5. Interior Refractive Index	1.475	
6. Exterior Refractive Index	1.375	$\sim$
		Cladding

#### Specifications:

Item		Unit	Index	Testing method
Structural Parameters	Core diameter	mm	3.6	JIS C 6863
	Cladding diameter	mm	4	
	Cladding non-circularity	%	≤6	
	Length	m/roll	100	
Optical Properties	Attenuation	dB/km	≤700	
	Numerical Apertures	/	0.65	650nm JIS C 6863
	Attenuation (95% RH)	dB/km	300-350	
Mechanical Properties	Repeated bending (200times)	dB	Loss added $\leq 2$	
	Tensile strength	N	70	JIS C 6861
	Twisting (5times)	dB	Loss added $\leq 2$	
	Impacting (0.4N/meter)	dB	Loss added $\leq 2$	

Operating temperature: -40℃ to 70℃

Recommended Storage temperature: -10°C to 35°C

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