

# Product Specifications

## Product No: Part# FF-HEB4.0/5.0

### 1. Scope

This specification covers basic requirements for the structure and optical performances of FF-HEB4.0/5.0.

End Emitting Fiber, 4.0mm dia. fiber with a 5.0mm dia. black PVC jacket

### 2. Structure

<b>Product Data:</b> 1. Fiber core material           MMA Polymer 2. Cladding material            PTFE 3. Jacket material                Black PVC 4. Minimum bending radius   6 x diameter 5. Wavelength range          400-700nm 6. Interior Refractive Index   1.475		
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#### Specifications:

Item		Unit	Index	Testing method
Structural Parameters	Core diameter	mm	4	JIS C 6863
	Outer diameter	mm	5	
	Cladding non-circularity	%	≤6	
	Length	m/roll	100	
Optical Properties	Attenuation	dB/km	≤700	650nm JIS C 6863
	Numerical Apertures	/	0.68	
	Attenuation (95% RH)	dB/km	300-350	
Mechanical Properties	Repeated bending (200times)	dB	Loss added ≤2	JIS C 6861
	Tensile strength	N	70	
	Twisting (5times)	dB	Loss added ≤2	
	Impacting (0.4N/meter)	dB	Loss added ≤2	

Operating temperature: -40°C to 70°C

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