1. Scope
    The specification covers basic requirements for the structure and optical performances of BH-4001-1.5

2. Structure

Table 1

Item			Specification			
			Unit	Min.	Typ.	Max.
Optical Fiber	Core Material		—	Polymethyl-Methacrylate Resin		
	Cladding Material		—	Fluorinated Polymer		
	Core Refractive Index		—	1.49		
	Refractive Index Profile		—	Step Index		
	Numerical Aperture		—	0.58		
	Core Diameter		µm	920	980	1,040
	Cladding Diameter		µm	940	1,000	1,060
Jacket	Material		—	Crosslinked Polyethylene		
	Color		—	Black		
	Diameter		mm	1.45	1.50	1.55
Approximate Weight			g/m	2		
Indication on the Product			—	None		

Header for the Specification table block: **BH-4001-1.5**

Sectional View

Optical Fiber

Jacket
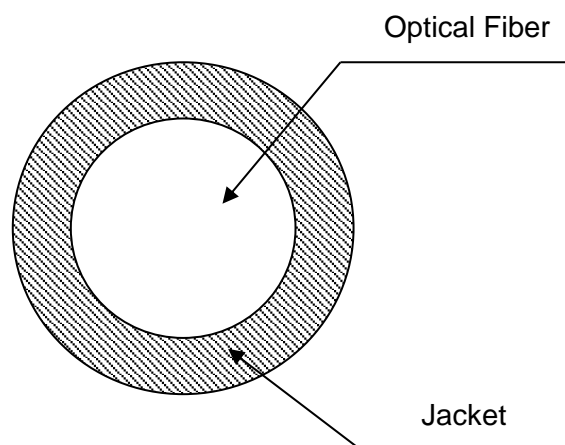
No.

3. Performances

Table 2

			BH-4001-1.5			
Item		Acceptance Criterion and/or [Test Condition]	Specification			
			Unit	Min.	Typ.	Max.
Maximum Rating	Storage Temperature	No Physical Deterioration [in a Dry Atmosphere]	℃	-55	—	+105
	Operation Temperature	No Deterioration in Optical Properties* [in a Dry Atmosphere]	℃	-55	—	+105
		No Deterioration in Optical Properties** [under 95%RH condition]	℃	—	—	+85
Optical Properties	Transmission Loss [650nm Collimated Light]	[25℃ 50%RH]	dB/km	—	—	200
		[Operation Temperature]	dB/km	—	—	250
Mechanical Characteristics	Minimum Bend Radius	Loss Increment ≦0.5dB [A Quarter Bend]	mm	15	—	—
	Repeated Bending Endurance	Loss Increment ≦1dB [in Conformity to the JIS C 6861]***	Times	1,000	—	—
	Tensile Strength	Tensile Force at 5% Elongation [in Conformity to the JIS C 6861]	N	65	—	—

All tests are carried out under temperature of 25℃ unless otherwise specified.

  * Attenuation change shall be within +/- 10% after 1,000 hours.
 ** Attenuation change shall be within +/- 10% after 1,000 hours, except that due to absorbed water.
*** Bend Angle +/-90° ,Bend Radius 15mm,Tension 500g

The specifications is subject to change without notice.
The information contained herein is presented as guide for the product selection.
Please contact our business department for the issue of an official specification sheet.