

Table 1

BHM-4001

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	—	Polyolefine Elastomer		
	Color	—	Black		
	Diameter	mm	2.13	2.20	2.27
Approximate Weight		g/m	3.6		
Indication on the Product		—	None		

Table 2

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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 $\leq 0.5\text{dB}$ [A Quarter Bend]	mm	15	—	—
	Repeated Bending Endurance	Loss Increment $\leq 1\text{dB}$ [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	—	—	—
	Twisting Endurance	Loss Increment $\leq 1\text{dB}$ [Sample Length : 1m Tensile Force : 4.9N]	Times	—	—	—
	Impact Endurance	Loss Increment $\leq 1\text{dB}$ [in Conformity to the JIS C 6861]	N·m	—	—	—