Specification Sheet

GHTT-4002

High-Performance Plastic Optical Fiber

Eska™

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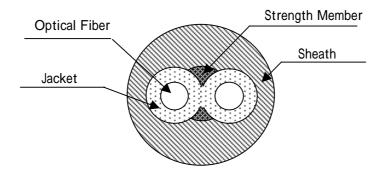
1.

Scope This specification covers basic requirements for the structure and optical performances of GHTT-4002.

2. Structure

Table 1	GHTT-4002							
Item			Specification					
			Unit	Min.	Тур.	Max.		
Optical Fiber	Core I	Core Material		Polymethyl-Methacrylate Resin				
	Cladding	Cladding Material		Fluorinated Polymer				
	Core Refra	Core Refractive Index		1.49				
	Refractive	Refractive Index Profile		Step Index				
	Numerica	Numerical Aperture		0.5				
	Core D	Core Diameter		920	980	1,040		
	Cladding	Cladding Diameter		940	1,000	1,060		
Jacket	Ma	Material		Polyethylene				
	Co	Color		Black				
	Dimention	Minor Axis	mm	2.13	2.20	2.27		
	Dimention	Major Axis	mm	4.3	4.4	4.5		
	Indication of	Indication on the Jacket		Pink line on one of the pair				
Number of cords			-	1 Duplex cord				
Strength Member	Ma	Material		Aramid Fiber				
	Ma	Material		Poly-Vinyl-Chloride				
Sheath	Co	Color		Gray				
	Diar	Diameter		5.8	6.0	6.2		
Approximate Weight			g/m	38				
Indication on the Jacket			-	·····ESKA PREMIER·····:Pink				

Sectional View



No. 0

3. Performances

Table 2 GHTT-4002

ltem		Acceptance Criterion and/or	Specification			
		[Test Condition]	Unit	Min.	Тур.	Max.
Maximum Rating	Storage Temperature	No Physical Deterioration [in a Dry Atmosphere]		-40	-	+85
	Operation Temperature	No Deterioration in Optical Properties [in a Dry Atmosphere]		-40	-	+85
		No Deterioration in Optical Properties** [under 95%RH condition]		-	-	+75
Optical Properties	Transmission Loss [650nm Collimated Light]	[25 50%RH]	dB/km	-	-	170
		[Operation Temperature]	dB/km	-	-	190
Mechanical Characteristics	Minimum Bend Radius	Loss Increment 0.5dB [A Quarter Bend]***	mm	40	-	-
	Repeated Bending Endurance	Loss Increment 1dB [in Conformity to the JIS C 6861]****	Times	5,000	-	-
	Tensile Strength	Tensile Force at 5% Elongation; in Conformity to the JIS C 6861]	N	420	-	-
	Twisting Endurance	Loss Increment 1dB [Sample Length : 1m Tensile Force : 4.9N]	Times	2	-	-
	Impact Endurance	Loss Increment 1dB [in Conformity to the JIS C 6861]	N∙m	-	-	-

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

^{*} Attenuation change shall be within +/- 10% after 1,000 hours.
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^{***} In the direction of the minor axis

^{****} Bend Angle +/-90° ,Bend Radius 15mm,Tension 1,000g