

1.Scope

This specification covers basic requirements for the structure, optical and mechanical performances of SH-001.

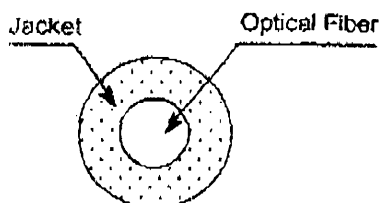
2.Structure

Table1

		SH 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	—	0.5		
	Core Diameter	μm	920	980	1,040
	Cladding Diameter	μm	940	1,000	1,060
Jacket	Material and Color	—	Polyethylene, Black		
	Diameter	mm	2.13	2.20	2.27
	Indication on the Jacket	—	SUPER ESKA ; Blue		
Approximate Weight		g / m	4		

SUPER ESKA ; Blue

Sectional View



MH PART NO:- MHA-2.2W-B.

3.Performance

No. DPF1122-17

Table2

SH 4001

Item		Acceptance Criterion and / or [Test Condition]	Specification			
			Unit	Min.	Typ.	Max.
Maximum Rating	Storage Temperature	No Physical Deterioration [in a Dry Atmosphere]	°C	-55	---	+70
	Operation Temperature	No Deterioration in Optical Properties* [in a Dry Atmosphere]	°C	-55	---	+70
	Operation Temperature in a Moist Atmosphere	No Deterioration in Optical Properties** [under 95 %RH]	°C	---	---	+60
Optical Properties	Transmission Loss	650 nm Collimated Light]	dB/km	---	---	190
	Transmission Loss under 95 %RH	650 nm Collimated Light]	dB/km	---	---	210
Mechanical Characteristics	Minimum Bend Radius	Loss Increment $\leq$ 0.5 dB [A Quarter Bend]	mm	25	---	---
	Repeated Bending Endurance	Loss Increment $\leq$ 1 dB [in Conformity to the JIS C 6861]	Times	10,000	---	---
	Tensile Strength	[Tensile Force at 5Å] Elongation; in Conformity to the JIS C 6861]	N	70	---	---
	Twisting Endurance	Loss Increment $\leq$ 1 dB [Sample Length : 1 m Tensile Force : 4.9 N]	Times	5	---	---
	Impact Endurance	Loss Increment $\leq$ 1 dB [in Conformity to the JIS C 6861]	N.m	0.4	---	---

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

* Attenuation increase shall be within 10 % after 1,000 hours.

** Attenuation increase shall be within 10 % after 1,000 hours, except that due to absorbed water .

The specification is subject to change without notice.

The information contained herein is presented as a guide for the product selection. Please contact our business department for the issue of an official specification sheet.