



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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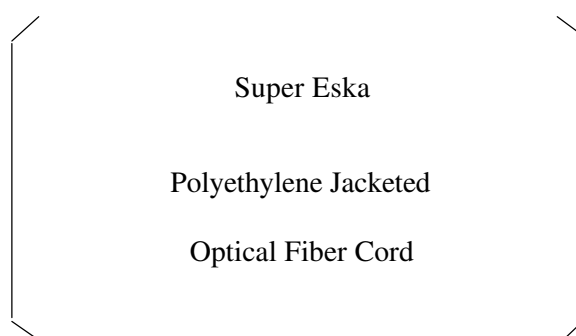
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# Specification Sheet

## SH 4001



Super Eska

Polyethylene Jacketed

Optical Fiber Cord

High - Performance Plastic Optical Fiber

**E s k a**<sup>TM</sup>

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1.Scope

This specification covers basic requirements for the structure, optical and mechanical performances of SH4001.

2.Structure

Table1

SH 4001

Item		Specification			
		Unit	Min.	Typ.	Max.
Optical Fiber	Core Material	—	Polymetyl - 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

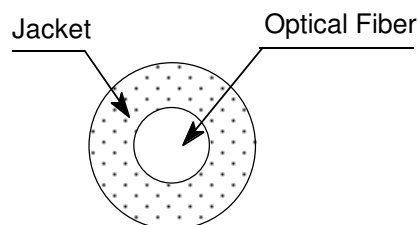


Table2

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	ϕ50 nm Collimated Light ]	dB/km	—	—	190
	Transmission Loss under 95 %RH	ϕ50 nm Collimated Light ]	dB/km	—	—	210
Mechanical Characteristics	Minimum Bend Radius	Loss Increment =< 0.5 dB [ A Quarter Bend ]	mm	25	—	—
	Repeated Bending Endurance	Loss Increment =< 1 dB [ in Conformity to the JIS C 6861 ]	Times	10,000	—	—
	Tensile Strength	[ Tensile Force at 5Åì Elongation; in Conformity to the JIS C 6861 ]	N	70	—	—
	Twisting Endurance	Loss Increment =< 1 dB [ Sample Length : 1 m Tensile Force : 4.9 N ]	Times	5	—	—
	Impact Endurance	Loss Increment =< 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.