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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!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# Specification Sheet

## GH 4002

ESKA PREMIER

Polyethylene Jacketed

Optical Fiber Cord

High - Performance Plastic Optical Fiber

**E s k a**<sup>™</sup>

**MITSUBISHI RAYON CO., LTD.**  
**ESKA OPTICAL FIBER DIVISION**

6-41 Kounan 1-Chome, Minato-ku, Tokyo, Japan

Phone : + 81 - 3 - 5495 - 3060

Facsimile : + 81 - 3 - 5495 - 3212

## 1.Scope

This specification covers basic requirements for the structure, optical and mechanical performances of GH4002.

## 2.Structure

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	$\mu$ m	920	980	1,040	
	Cladding Diameter	$\mu$ m	940	1,000	1,060	
Number of Fibers		—	2			
Jacket	Material and Color	—	Polyethylene			
	Dimension	Minor Axis	mm	2.13	2.20	2.27
		Major Axis	mm	4.3	4.4	4.5
Indication on the Jacket		—	ESKA PREMIER :Pink color			
Approximate Weight		g / m	8			

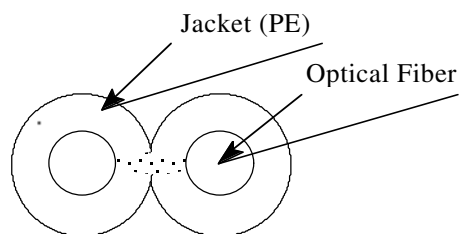
Sectional View

Table2

GH 4002

Item		Acceptance Criterion and / or [Test Condition ]	Specification			
			Unit	Min.	Typ.	Max.
Maximum Rating	Storage Temperature	No Physical Deterioration	°C	- 55	—	+ 85
	Operation Temperature	No Deterioration in Optical Properties*	°C	- 55	—	+ 85
	Operation Temperature under 95 %RH	No Deterioration in Optical Properties**	°C	—	—	+ 75
Optical Properties	Transmission Loss	[ 650 nm Collimated Light ]	dB / km	—	—	170
	Transmission Loss under 95 %RH	[ 650 nm Collimated Light ]	dB / km	—	—	190
Mechanical Characteristics	Minimum Bend Radius	Loss Increment =< 0.5 dB [ Quarter bend ]	mm	25	—	—
	Repeated Bending Endurance	Loss Increment =< 1dB [90° 25 mmR Dead Weight : 500 g ]	Times	10,000	—	—
	Tensile Strength	[Tensile Force at 5% Elongation; in Conformity to the JIS C 6861 ]	N	140	—	—
	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 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 .

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.