Issued in July , 2001 No. DPF1262-17

## **Specification Sheet**

### **GHV** 4001

**ESKA PREMIER** 

Polyvinylchloride Jacketed

Optical Fiber Cord

High - Performance Plastic Optical Fiber

Eska<sup>™</sup>

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### 1.Scope

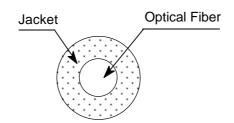
This specification covers basic requirements for the structure, optical and mechanical performances of GHV 4001.

#### 2.Structure

Table 1			GHV 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	_	Polyvinylchloride ; Gray		
	Diameter	mm	2.13	2.20	2.27
	Indication on the Jacket	_	See marginalia / Color: Pink		
Approximate Weight		g / m	5.5		

E89328-\* MITSUBISHI RAYON AWM 5237 80C VW-1 GHV 4001 (\* shall be A or B)





3.Performance No. DPF1262-17

GHV 4001

5,000

70

5

0.4

Times

N

Times

N.m

**Acceptance Criterion** Specification and / or Item [Test Condition] Unit Min. Max. Тур. Storage  $^{\circ}C$ - 40 + 85 No Physical Deterioration Temperature Operation No Deterioration Maximum  $^{\circ}C$ - 40 +85Temperature in Optical Properties\* Rating Operation No Deterioration Temperature  $^{\circ}C$ +75in Optical Properties\*\* under 95 %RH Transmission Loss dB/km 170 [ 650 nm Collimated Light ] Optical **Properties** Transmission Loss dB/km [ 650 nm Collimated Light ] 190 under 95 %RH Minimum Loss Increment =< 0.5 dBmm 25 Bend Radius [ A Quarter Bend ]

Loss Increment =< 1 dB

[ in Conformity to the

[Tensile Force at 5%

Elongation; in Conformity

to the JIS C 6861 ]

Loss Increment =< 1 dB

[ Sample Length: 1 m

Loss Increment =< 1 dB

[ in Conformity to the

JIS C 6861 ]

Tensile Force: 4.9 N]

JIS C 6861]

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

Repeated Bending

Endurance

Tensile Strength

Twisting Endurance

Impact Endurance

Table2

Mechanical

Characteristics

<sup>\*</sup> Attenuation change shall be within 10 % after 1,000 hours.

<sup>\*\*</sup> 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.