ESKA[™] Premier PE Jacketed and PVC Sheathed Optical Fiber Cord: GHEV4001

Manufactured by Mitsubishi Chemical Corporation

Marketed and sold by Mitsubishi International PolymerTrade Corporation

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Structure					
Core Material	Polymethyl Methacrylate Resin (PMMA)				
Cladding Material	Fluorinated Polymer				
Core Refractive Index	1.49				
Refractive Index Profile	Step Index				
Numerical Aperture	0.5				
	Unit	Typical			
Core Diameter	μm	980			
Cladding Diameter	μm 1,000				
Jacket Material and Color	Polyethylene, Black				
Jacket Diameter	mm 2.20				
Outer Sheath Diameter	mm 3.00				
Approximate Weight	g/m 8.5				

Packaging				
Spool Length (m)	500			
Net weight on spool (kg)	6.3			
Spool Weight (kg)	2.0			
Carton Size (mm)	470 X 470 X 180			
Carton Weight (kg)	6.9			
Master Carton	2 spools			
Outer Scheath				
Color and Material	Polyvinylchloride, Gray			
Indication on Jacket	···ESKA PREMIER···; Pink			

Performance		Criteria for Acceptance and/or [Test Conditions]	Unit	Values
Operation Temperature		No deterioration in optical properties [in a Dry Atmosphere]*	°C	-40 ~ 85
Operating Temperature in a Moist Atmosphere		No deterioration in optical properties [under 95% RH]**	°C	Max.75
Optical Properties	Transmission Loss [650nm Collimated Light]	[25°C 50% RH]	dB/km	Max.170
		[Operation Temperature]	dB/km	Max.190
Mechanical Character- istics	Minimum Bend Radius	Loss increment =< 0.5dB [a quarter bend]	mm	Min.35
	Repeated Bending Endurance	Loss increment =< 1 dB [in conformity to the JIS C 6861]***	Times	Min.5,000
	Tensile Strength	[Tensile force at 5% Elongation; in conformity to the JIS C 6861]	N	Min.120
	Twisting Endurance	Loss Increment =< 1 dB [sample length: 1m, Tensile Force: 4.9N]	Times	Min.5
	Impact Endurance	Loss Increment =< 1dB [in conformity to the JIS C 6861]	N⋅m	0.4

Notes: Performance tested in conditions under 25°C unless otherwise indicated.

- * Attenuation increase shall be <10% after 1,000 hours.
- ** Attenuation increase shall be <10% after 1,000 hours, except when due to absorbed water.
- *** Bend Angle +/-90 $^{\circ}\,$, Bend Radius 15mm, Tension 500g.

Applications

GHEV4001 is typically used as data transfer media with added mechanical requirements.

The information contained herein is presented as a guide to product selection. It is subject to change without notice, and should not be regarded as a representation, warranty or guarantee with regard to the quality, characteristics or use of this product

