

ESKA™ Polyethylene Jacketed Optical Fiber Cord: SH2001-TM

Manufactured by Mitsubishi Rayon Co., Ltd.

Marketed and sold by Mitsubishi International PolymerTrade Corporation

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Structure			Packaging	
Core Material	Polymethyl Methacrylate Resin (PMMA)		Spool Length (m)	1,000
Cladding Material	Fluorinated Polymer		Net weight on spool (kg)	4.8
Core Refractive Index	1.49		Spool Weight (kg)	1.2
Refractive Index Profile	Step Index		Carton Size (mm)	365 X 365 X 160
Numerical Aperture	0.5		Carton Weight (kg)	5.4
	Unit	Typical	Master Carton	5 spools
Core Diameter	μm	485	Jacket	
Cladding Diameter	μm	500	Color and Material	Black, Polyethylene
Jacket Diameter	mm	2.20	Indication on Jacket	...SUPER ESKA ... : Blue
Approximate Weight	g/m	3.6		

Performance		Criteria for Acceptance and/or [Test Conditions]	Unit	Values
Operation Temperature		No deterioration in optical properties [in a dry atmosphere]*	°C	-55 ~ 70
Operating Temperature in a Moist Atmosphere		No deterioration in optical properties [under 95% RH] **	°C	Max.60
Optical Properties	Transmission Loss [650nm Collimated Light]	[25°C 50% RH]	dB/km	Max.210
		[Operation Temperature]	dB/km	Max.230
Mechanical Characteristics	Minimum Bend Radius	Loss increment =< 0.5dB [a quarter bend]	mm	Min.10
	Repeated Bending Endurance	Loss increment =< 1 dB [in conformity to the JIS C 6861]***	Times	Min.10,000
	Tensile Strength	[Tensile force at 5% Elongation; in conformity to the JIS C 6861]	N	Min.18
	Twisting Endurance	Loss Increment =< 1 dB [sample length: 1m, Tensile Force: 4.9N]	Times	Min.5
	Impact Endurance	Loss Increment =< 1 dB [in Conformity to the JIS C 6861]	N · m	-

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

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

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*** Bend Angle +/-90° , Bend Radius 15mm, Tension 500g.

Applications

The SH-Series of single-jacketed cables are typically used as data transfer media and sensor media

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



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