

ESKA™ Polyethylene Jacketed Optical Fiber Cord: BH2001

Manufactured by Mitsubishi Chemical Corporation
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)	2.0
Core Refractive Index	1.49		Spool Weight (kg)	1.2
Refractive Index Profile	Step Index		Carton Size (mm)	370 X 370 X 170
Numerical Aperture	0.58		Carton Weight (kg)	2.6
	Unit	Typical	Master Carton	5 spools
Core Diameter	μm	485	Jacket	
Cladding Diameter	μm	500	Color and Material	Black, Cross-linked PE
Jacket Diameter	mm	0.95	Indication on Jacket	None
Approximate Weight	g/m	0.8		

Performance		Criteria for Acceptance and/or [Test Conditions]	Unit	Values
Operation Temperature		No deterioration in optical properties [in a dry atmosphere]*	°C	-55 ~ 105
Operating Temperature in a Moist Atmosphere		No deterioration in optical properties [under 95% RH]**	°C	Max.85
Optical Properties	Transmission Loss [650nm Collimated Light]	[25°C 50% RH]	dB/km	Max.250
		[Operation Temperature]	dB/km	Max.300
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.1,000
	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	-
	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 BH-Series of single-jacketed cables are typically used as data and sensor media for higher temperature 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