

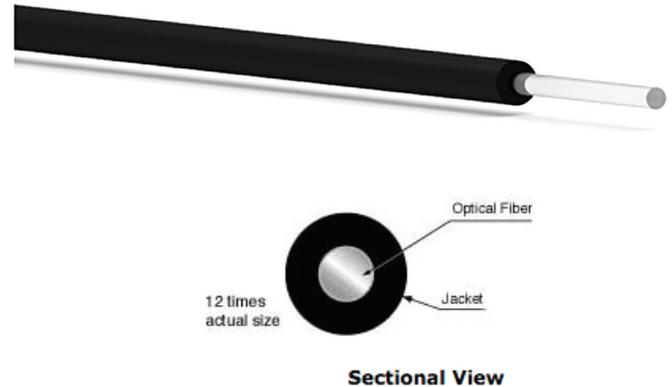
ESKA™ Polyethylene Jacketed Optical Fiber Cord: BH4001

Manufactured by Mitsubishi Rayon Co., Ltd

SPECIFICATIONS

Structure

Core Material	Polymethyl Methacrylate Resin (PMMA)	
Cladding Material	Fluorinated Polymer	
Core Refractive Index	1.49	
Refractive Index Profile	Step Index	
Numerical Aperture	0.58	
	Unit	Typical
Core Diameter	μm	980
Cladding Diameter	μm	1,000
Jacket Diameter	mm	2.18
Approximate Weight	g/m	3.8



Applications: Lighting

The BH-Series of single-jacketed cables are typically used as data and sensor media for higher temperature requirements.

Packaging

Spool Length (m)	500
Net weight on spool (kg)	3.1
Spool Weight (kg)	1.2
Carton Size (mm)	370 X 370 X 170
Carton Weight (kg)	3.8
Master Carton	5 spools

Jacket

Color and Material	Black, Cross-linked PE
Indication on Jacket	None

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] [Operation Temperature]	dB/km/km	Max. 200 Max. 250
	Mechanical Characteristics	Minimum Bend Radius	Loss increment =< 0.5dB [quarter bend]	mm
	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 JIS C 6861]	N	Max. 70
	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	Min. 0.4

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.

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