ESKA[™] MEGA Polyethylene-jacketed Optical Fiber Cord: MHV-4001

Manufactured by Mitsubishi Rayon Co., Ltd.

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				
Numerical Aperture	0.3				
Refractive Index Profile	(Step Index)				
	Unit	Typical			
Core Diameter	μm	980			
Cladding Diameter	μm	1000			
Jacket Diameter	mm	2.2 ± 0.07			
Fiber Diameter (mm) X # of fibers	1.0 mm X 1				
Approximate Weight (g/m)	5.3				

Packaging				
Spool Length (m)	500			
Net weight on spool (kg)	3.6			
Spool Weight (kg)	3.8			
Carton Size (mm)	470 X 470 X 180			
Carton Weight (kg)	7.4			
Master Carton	5 spools			
Jacket				
Color and Material	Pink PE			
Indication on Jacket	ESKAMEGA - UL1582			

Performance		Criteria for Acceptance and/or Test Conditions	Unit	Values
Temperature Range		No deterioration in optical properties *	°C	-40 ~ 85
Operating Temperature under Conditions of High Humidity		No deterioration in optical properties [95% RH] **	°C	=<75
Optical Properties	Transmission Loss	650nm collimated light (standard conditions) [10m – 1m	dB/ km	=<160
	Loss under 95% RH	cutback]		=<180
	Bandwidth	Launch NA=0.3 / Length 50m@650nm	MHZ	200
Mechanical Character- istics	Minimum Bend Radius	Loss increment =< 0.5dB [Quarter bend]	mm	=>25
	Repeated Bending Endurance	Loss increment =< 1 dB [conforms to JIS C 6861]	Times	=>5000
	Tensile Strength	Tensile force at yield point [JIS C 6861]	N	=>70
	Twisting Endurance	Loss increment =< 1 dB [sample length = 1 m, tensile force = 4.9N]	Times	=>5
	Impact Endurance	Loss increment =< 1 dB [conforms to JIS C 6861]	N.m	=>0.4

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

- * Attenuation increase is <10% after 1000 hours
- ** Attenuation increase is <10% after 1000 hours, except when due to absorbed water

Applications

The MH-Series of cables are typically used as data transfer media for high bandwidth and network 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



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