ESKA[™] MEGA PVC Jacketed Optical Fiber Cord: MHV4002

Manufactured by Mitsubishi Chemical Corporation

Marketed and sold by Mitsubishi International PolymerTrade Corporation

January 2010

Structure					
Core Material	Polymethyl Methacrylate Resin (PMMA)				
Cladding Material	Fluorinated Polymer				
Core Refractive Index	1.49				
Refractive Index Profile	Step Index				
Numerical Aperture	0.3				
	Unit	Typical			
Core Diameter	μm	980			
Cladding Diameter	μm	1,000			
Number of Fibers	2				
Jacket Dimension - Minor Axis	mm	2.2			
Jacket Dimension – Major Axis	mm	4.4			
Approximate Weight	g/m	11.0			

Packaging				
Spool Length (m)	500			
Net weight on spool (kg)	7.3			
Spool Weight (kg)	1.8			
Carton Size (mm)	470 X 470 X 180			
Carton Weight (kg)	7.9			
Master Carton	2 spools			
Jacket				
Color and Material	Black, Polyvinylchloride			
Indication on Jacket	E89328-A/B MITSUBISHI RAYON AWM 5237 80C VW-1			
Fire Rating	UL1581 VW1 Style No.5237			

Performance		Criteria for Acceptance and/or [Test Conditions]	Unit	Values	
Operation Temperature		No deterioration in optical properties [in a dry atmosphere]*	°C	- 55 ~ 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.160		
		[Operation Temperature]	dB/km	Max.180	
	Bandwidth	-3dB bandwidth, Launch NA = 0.3, Length 50m@650nm	MHz	Min.170	Тур.200
Mechanical Character- istics	Minimum Bend Radius	Loss increment =< 0.5dB [a quarter bend]***	mm Min.25		25
	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.140		
	Twisting Endurance	Loss Increment =< 1 dB [sample length: 1m, Tensile Force: 4.9N]	Times	imes Min.2	
	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.

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

except when due to absorbed water.

*** In the direction of the minor axis.

**** Bend Angle +/-90 $^\circ\,$, Bend Radius 15mm, Tension 1,000g.

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

Mitsubishi International PolymerTrade Corporation

2 Penn Plaza East, 11th Floor, Newark, NJ 07105