ESKA[™] OPTOHOME Poly-Vinyl-Chloride Jacketed Optical Fiber Cord: RHVV4002-CMR

Manufactured by Mitsubishi Chemical Corporation

Marketed and sold by Mitsubishi International PolymerTrade Corporation

March 2011

Structure			
Core Material	Polymethyl Methacrylate Resin (PMMA)		
Cladding Material	Fluorinated Polymer		
Core Refractive Index	1.49		
Refractive Index Profile	Step Index		
Numerical Aperture	0.5		
	Unit	Typical	
Core Diameter	μm	980	
Cladding Diameter	μm	1,000	
Number of Fibers	2		
Jacket Color and Material	Black, Poly-Vinyl-Chloride		
Outer Sheath Dimension - Minor Axis	mm	2.2	
Outer Sheath Dimension - Major Axis	mm	4.4	
Approximate Weight	g/m	11	

Packaging				
Spool Length (m)		500		
Net weight on spool (kg)		6.6		
Spool Weight (kg)		1.2		
Carton Size (mm)		365 X 365 X 160		
Carton Weight (kg)		7.2		
Master Carton		5 spools		
Outer Sheath				
Color and Material	White, Poly-Vinyl- Chloride			
Indication on Outer Sheath	Green; (UL)E336876 MITSUBISHI RAYON ESKA OPTOHOME TYPE OFNR FT4			
Fire Rating	Riser OFNR FT4			

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.170
		[Operation Temperature]	dB/km	Max.190
	Bandwidth	[launch NA > Fiber NA]	MHz • 50m	Min.40
Mechanical Character- istics	Minimum Bend Radius	Loss increment =< 0.5dB [a quarter bend]***	mm	Min.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]	Ν	Min.140
	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.
- ** 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°C, Bend Radius 15mm, Tension 1,000g.

Applications

RHVV4002-CMR is for home networking applications with fire retardancy requirement..

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 '