

ESKATM OPTOHOME Poly-Vinyl-Chloride Jacketed Optical Fiber Cord: **RHV4001-CMRB**

Manufactured by Mitsubishi Chemical Corporation
Marketed and sold by Mitsubishi International PolymerTrade Corporation

March 2011

Structure			Packaging	
Core Material	Polymethyl Methacrylate Resin (PMMA)		Spool Length (m)	500
Cladding Material	Fluorinated Polymer		Net weight on spool (kg)	3.9
Core Refractive Index	1.49		Spool Weight (kg)	1.2
Refractive Index Profile	Step Index		Carton Size (mm)	365 X 365 X 160
Numerical Aperture	0.5		Carton Weight (kg)	4.5
	Unit	Typical	Master Carton	5 spools
Core Diameter	μm	980	Jacket	
Cladding Diameter	μm	1,000	Color and Material	Black, Poly-Vinyl-Chloride
Jacket Diameter	mm	2.2	Indication on Jacket	Green; (UL)E336876 MITSUBISHI RAYON ESKA OPTOHOME TYPE OFNR FT4
Approximate Weight	g/m	5.3	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 85% 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 Characteristics	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 yield point [JIS C 6861]	N	Min.70
	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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*** In the direction of the minor axis.

**** Bend Angle +/-90° , Bend Radius 15mm, Tension 500g.

Applications

The RH-Series of single-jacketed cables are for composite cables for home network applications.

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