

# ESKA™ Premier PE Buffered Optical Fiber Cord with ETFE coating: **GHEF4001-2.2**

Manufactured by Mitsubishi Rayon Co., Ltd.

Marketed and sold by Mitsubishi International PolymerTrade Corporation

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Structure			Packaging	
Core Material	Polymethyl Methacrylate Resin (PMMA)		Spool Length (m)	500
Cladding Material	Fluorinated Polymer		Net weight on spool (kg)	3.6
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)	4.2
	Unit	Typical	Master Carton	5 spools
Core Diameter	μm	980	<b>Sheath</b>	
Cladding Diameter	μm	1,000	Color and Material	Clear, ETFE
Buffer Material and Color	Polyethylene, Black		Indication on Jacket	None
Buffer Diameter	mm	1.80		
Sheath Diameter	mm	2.20		
Approximate Weight	g/m	4.8		

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.170
		[Operation Temperature]	dB/km	Max.190
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.10,000
	Tensile Strength	[Tensile force at 5% Elongation; in conformity to the JIS C 6861]	N	Min.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	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.

## Applications

GHEF4001-2.2 is typically used in environmentally harsh areas.

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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Please visit <http://www.fiber opticpof.com/> to locate a sales representative near you.