

ESKA™ Premier Polyethylene-jacketed Optical Fiber Cord: GH-4002

Manufactured by Mitsubishi Rayon Co., Ltd.

Marketed and sold by Mitsubishi International Corporation

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| Structure | | |
|-----------------------------------|--------------------------------------|----------------|
| Core Material | Polymethyl Methacrylate Resin (PMMA) | |
| Cladding Material | Fluorinated Polymer | |
| Core Refractive Index | 1.49 | |
| Numerical Aperture | 0.5 | |
| Refractive Index Profile | (Step Index) | |
| | <i>Unit</i> | <i>Typical</i> |
| Core Diameter | μm | 980 |
| Cladding Diameter | μm | 1,000 |
| Jacket Diameter (zip-cord) | mm | 2.2 X 4.4 |
| Fiber Diameter (mm) X # of fibers | 1.0 mm X 2 | |
| Approximate Weight (g/m) | 8.0 | |

| Packaging | |
|--------------------------|-----------------------------|
| Spool Length (m) | 500 |
| Net weight on spool (kg) | 4.9 |
| Spool Weight (kg) | 0.68 |
| Carton Size (mm) | 365 X 365 X 160 |
| Carton Weight (kg) | 5.5 |
| Master Carton | 5 spools |
| Jacket | |
| Color and Material | Black PE |
| Indication on Jacket | ESKA Premier; Pink color |

| Performance | | Criteria for Acceptance and/or Test Conditions | Unit | Values |
|---|----------------------------|--|-------|----------|
| Temperature Range | | No deterioration in optical properties * | °C | -55 ~ 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 cutback] | dB/km | =<170 |
| | Loss under 95% RH | | | =<190 |
| Mechanical Characteristics | Minimum Bend Radius | Loss increment =< 0.5dB [Quarter bend] | mm | =>25 |
| | Repeated Bending Endurance | Loss increment =< 1 dB [conforms to JIS C 6861] | Times | =>10,000 |
| | Tensile Strength | Tensile force at yield point [JIS C 6861] | N | =>140 |
| | 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

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Applications

The GH-Series of single-jacket cables are typically used as data transfer media.

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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