

ESKA™ Premier PE Jacketed, PVC Sheathed Optical Fiber Cord with Strength Member: GHTT4001

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

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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 |
| Jacket Material and Color | Polyethylene, Black | |
| Jacket Diameter | mm | 2.2 |
| Strength Member Material | Aramid Fiber | |
| Sheath Diameter | mm | 5.0 |
| Approximate Weight | g/m | 28.0 |

Packaging

| | |
|--------------------------|-----------------|
| Spool Length (m) | 500 |
| Net weight on spool (kg) | 16.0 |
| Spool Weight (kg) | 2.0 |
| Carton Size (mm) | 470 X 470 X 180 |
| Carton Weight (kg) | 16.6 |

Outer Sheath

| | |
|----------------------|--------------------------|
| Color and Material | Gray, Polyvinylchloride |
| Indication on Jacket | ...ESKA PREMIER...; Pink |

| Performance | | Criteria for Acceptance and/or [Test Conditions] | Unit | Values |
|---|--|---|-------|-----------|
| Operation Temperature | | No deterioration in optical properties* [in a Dry Atmosphere] | °C | -40 ~ 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.40 |
| | 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.245 |
| | 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 | - |

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.

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

Applications

The GHTT-Series of cables are typically used as data transfer media with added mechanical 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