

ESKA™ MEGA Chlorinated PE Jacketed Optical Fiber Cord: MHCP4002

Manufactured by Mitsubishi Rayon Co., Ltd.

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 | 0.3 | |
| | Unit | Typical |
| Core Diameter | μm | 980 |
| Cladding Diameter | μm | 1,000 |
| Number of Fibers | 2 | |
| Jacket Dimension - Minor Axis | mm | 2.2 |
| Jacket Dimension – Major Axis | mm | 4.4 |
| Approximate Weight | g/m | 11.0 |

| Packaging | |
|--------------------------|--|
| Spool Length (m) | 500 |
| Net weight on spool (kg) | 7.3 |
| Spool Weight (kg) | 1.8 |
| Carton Size (mm) | 470 X 470 X 180 |
| Carton Weight (kg) | 7.9 |
| Master Carton | 2 spools |
| Jacket | |
| Color and Material | Black, Chlorinated Polyethylene |
| Indication on Jacket | E89328-A/B MITSUBISHI RAYON AWM 5310 80C VW-1 |
| Fire Rating | UL1581 VW1, Style No.5310 |

| 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.160 | |
| | | [Operation Temperature] | dB/km | Max.180 | |
| | Bandwidth | -3dB bandwidth, Launch NA = 0.3, Length 50m@650nm | MHz | Min.170 | Typ.200 |
| 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 5% elongation; in conformity to the JIS C 6861] | N | Min.140 | |
| | Twisting Endurance | Loss Increment =< 1 dB [sample length: 1m, Tensile Force: 4.9N] | Times | Min.2 | |
| | Impact Endurance | Loss Increment =< 1 dB [in Conformity to the JIS C 6861] | N · m | Min.0.4 | |

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° , Bend Radius 15mm, Tension 1,000g.

Applications

The MH-Series of cables are typically used as data transfer media for high bandwidth and network 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



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