

1. Scope

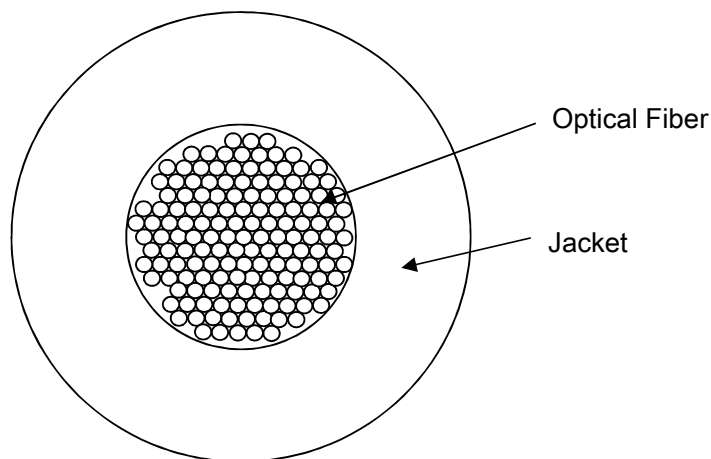
This specification covers basic requirements for the structure and optical performances of LH-2001-J.

2. Structure

Table 1

| Item | | Specification | | | |
|--------------------------|--------------------------|---------------|-------------------------------|------|------|
| | | Unit | Min. | Typ. | Max. |
| Optical Fiber | Core Material | — | Polymethyl-Methacrylate Resin | | |
| | Cladding Material | — | Fluorinated Polymer | | |
| | Core Refractive Index | — | 1.49 | | |
| | Refractive Index Profile | — | Step Index | | |
| | Numerical Aperture | — | — | 0.5 | — |
| | Number of cores ※ | — | 151 | | |
| | Fiber Diameter | μm | 470 | 500 | 530 |
| Jacket | Material | - | Polyethylene | | |
| | Color | - | Black | | |
| | Diameter | mm | 0.95 | 1.00 | 1.05 |
| Approximate Weight | | g/m | 0.8 | | |
| Indication on the Jacket | | - | White Line | | |

Sectional View



No

3. Performances

Table 2

LH-2001-J

| Item | | Acceptance Criterion and/or [Test Condition] | Specification | | | |
|-------------------------------|--|--|---------------|-------|------|------|
| | | | Unit | Min. | Typ. | Max. |
| Maximum Rating | Storage Temperature | No Physical Deterioration [in a Dry Atmosphere] | °C | - 40 | - | + 70 |
| | Operation Temperature | No Deterioration in Optical Properties* [in a Dry Atmosphere] | °C | 0 | - | + 70 |
| | | No Deterioration in Optical Properties** [under 95%RH condition] | °C | - | - | + 60 |
| Optical Properties*** | Transmission Loss [650nm Collimated Light] | [25°C 50%RH] | dB/km | - | - | 600 |
| | | [Operation Temperature] | dB/km | - | - | 650 |
| Mechanical Characteristics | Minimum Bend Radius | Loss Increment ≤ 0.5 dB [A Quarter Bend] | mm | 1 | - | - |
| | Repeated Bending Endurance | Loss Increment ≤ 1 dB [in Conformity to the JIS C 6861] | Times | 2,000 | - | - |
| | Tensile Strength | Tensile Force at 5% Elongation; in Conformity to the JIS C 6861] | N | 18 | - | - |
| | 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 | - | - | - |

All tests are carried out under temperature of 25°C unless otherwise specified.

* Attenuation change shall be within +/- 10% after 1,000 hours.

** Attenuation change shall be within +/- 10% after 1,000 hours, except that due to absorbed water.

*** The number of dead cores or sick cores is less than 15.

The specifications is subject to change without notice.

The information contained herein is presented as guide for the product selection.

Please contact our business department for the issue of an official specification sheet.