No.

1. Scope

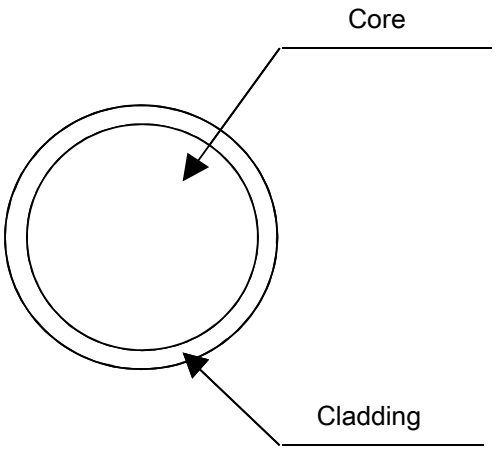
The specification covers basic requirements for the structure and optical performances of CK-120.

2. Structure

Table 1

| Item | | CK-120 Unit | Specification 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 | | |
| | Core Diameter | μm | 2,765 | 2,945 | 3,125 |
| | Cladding Diameter | μm | 2,820 | 3,000 | 3,180 |
| Approximate Weight | | g/m | 9 | | |

Sectional View



3. Performances

Table 2

| Item | | Acceptance Criterion and/or [ Test Condition ] | CK-120 Specification | | | |
|---|---|---|---|---|---|---|
| | | | Unit | Min. | Typ. | Max. |
| Maximum Rating | Storage Temperature | No Deterioration in Optical Properties | ℃ | −55 | − | +70 |
| | Operation Temperature | No Deterioration in Optical Properties* [ in a Dry Atmosphere ] | ℃ | −55 | − | +70 |
| | | No Deterioration in Optical Properties** [ 95%RH ] | ℃ | − | − | +60 |
| Optical Properties | Transmission Loss | [ 650nm Collimated Light ] [ Standard condition ] [ 10m-1m cutback ] | dB/km | − | − | 200 |
| Mechanical Characteristics | Minimum Bend Radius | Loss Increment ≦1.0dB [ A Quarter Bend ] | mm | 100 | − | − |
| | Tensile Strength | [ Tensile Force at Yield Point ] [ JIS C 6861 ] | N | 550 | − | − |

All tests are carried out under temperature of 25℃ 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 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.