

YNS

ELEKTRONIC

Specification Sheet

FC-300

High - Performance Plastic Optical Fiber

From ESKA

1.Scope

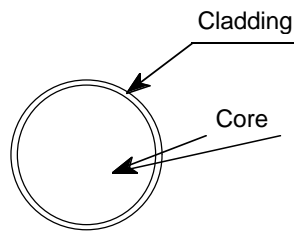
This specification covers basic requirements for the structure, optical and mechanical performances of FC-300.

2. Structure

Table1

| Item | | FC-300 | | | |
|--------------------|--------------------------|--------|--------------------------------|-------|-------|
| | | Unit | Min. | Typ. | Max. |
| Optical Fiber | Core Material | — | Polymetyl - Methacrylate Resin | | |
| | Cladding Material | — | Fluorinated Polymer | | |
| | Core Refractive Index | — | 1.49 | | |
| | Numerical Aperture | — | 0.5 | | |
| | Refractive Index Profile | — | Step Index | | |
| | Core Diameter | μm | 2,770 | 2,950 | 3,130 |
| | Cladding Diameter | μm | 2,820 | 3000 | 3,180 |
| Approximate Weight | | g / m | 9 | | |

Sectional View



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3.Performance

| Table2 | | | FC-300 | | | |
|-------------------------------|---|---|---------------|------|------|------|
| | | | Specification | | | |
| Item | | Acceptance Criterion and / or [Test Condition] | Unit | Min. | Typ. | Max. |
| Maximum Rating | Storage and Operation Temperature | No Deterioration in Optical Properties* | °C | - 55 | — | + 70 |
| | Operation Temperature under high humidity | No Deterioration in Optical Properties** [95 %RH] | °C | - | — | + 60 |
| Optical Properties | Transmission Loss | 650 nm Collimated Light] [Standard condition] [10 m - 1 m cutback] | dB/km | — | — | 200 |
| Mechanical Characteristics | Minimum Bend Radius | Loss Increment =< 0.5 dB [Quarter bend] | mm | 60 | — | — |
| | Tensile Strength | [Tensile Force at Yield Point] [JIS C 6861] | N | 504 | — | — |

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 .

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