Optical Fibre Singlemode Fibre G.657A1 (108)

Datasheet: GD63103v4



SPECIFICATION FOR ENHANCED LOW MACROBENDING SENSITIVE, LOW WATER PEAK SINGLEMODE OPTICAL FIBRE ITU-T RECOMMENDATION G.657A1*, G.652D

OPTICAL PROPERTIES

| @ 1310 nm | ≤ 0.38 dB/km |
|----------------------|--|
| @ 1550 nm | ≤ 0.25 dB/km |
| Point or step defect | ≤ 0.1 dB |
| Extended variations | ≤ 0.1 dB |
| @ 1310nm | 9.0 ± 0.4 μm |
| λccf | ≤1260 nm |
| | 1300 - 1322 nm |
| | ≤ 0.090 ps/nm2.km |
| | |
| | ≤ 0.1 ps/√km |
| | ≤ 0.2 ps/√km |
| @1310/1550 nm | 1.467/1.468 |
| | @ 1550 nm Point or step defect Extended variations @ 1310nm λccf |

MACROBENDING PROPERTIES

| 10 turns around 30mm diameter | @1550 nm | ≤0.25 dB/km |
|-------------------------------|----------|-------------|
| 10 turns around 30mm diameter | @1625 nm | ≤1.0 dB/km |
| | | |
| 1 turn around 20mm diameter | @1550 nm | ≤0.75 dB/km |
| 1 turn around 20mm diameter | @1625 nm | ≤1.5 dB/km |
| | | |

GEOMETRICAL PROPERTIES

| Cladding Diameter | 125 ± 0.7 μm |
|-----------------------------|--------------|
| Glass Concentricity Error | ≤ 0.5 μm |
| Cladding Non-Circularity | ≤ 0.7 % |
| Coating Diameter | 242 ± 7 μm |
| Coating Concentricity Error | ≤ 12.0 μm |
| Coating Non-Circularity | ≤ 5 % |

MECHANICAL PROPERTIES

| Proof Test Level | | ≥ 0.69 GPa / ≥ 1.0 % |
|------------------|--|----------------------|

*ITU-T Recommendation G.657A1 replaces ITU-T Recommendation G.657A and is compatible with G.652D