FNT300-2650085B
Polyimide Coated Bend-insensitive Multimode Fiber

Bend-insensitive graded-index Multimode fiber with the following properties:

1. Geometrical features
   Core Profile: Ge-doped fused silica, graded-index
   Cladding Ø: 125 µm ± 2µm
   Core Ø: 50 µm ± 2.5 µm
   Core/Clad Concentricity Error: ≤ 1.5 µm
   Cladding Non-circularity: ≤ 2.0%
   Coating Ø: 160 µm ± 10µm
   Coating/Clad Concentricity Error: ≤ 5µm
   Coating Material: Polyimide

2. Optical properties
   Bandwidth (OFL) @ 850nm: >500 MHz.km
   Bandwidth (OFL) @ 1300nm: >500 MHz.km
   Attenuation @ 850 nm: < 2.6 dB/km
   Attenuation @ 1300 nm: < 0.8 dB/km
   Attenuation @ 1550nm: < 0.5 dB/km
   Numerical Aperture: 0.200 ± 0.015
   Macro bend Loss @ 850nm
     2 turns, 15 mm radius: ≤ 0.1 dB
     2 turns, 7.5 mm radius: ≤ 0.2 dB

3. Mechanical properties
   Proof-test (100 %): ≥ 100 kpsi
   Dynamic Tensile Strength Unaged Fiber (0.5m), Median Tensile Strength: ≥ 3.8 GPa
   Dynamic Fatigue Stress Corrosion Parameter nd (typical): ≥ 23

4. Additional features
   Operating Temperature: - 190°C to + 385°C
   Fiber color: Yellow gold

4. Delivery length
   >100m

1 This product under development and classified as a B-sample: For trial of total functional range and the technical requirements, usable for continuous-operating tests, manufacturing of the product is for creation of a specification for the series production and verification of manufacturability. First application tests, dimensions and key parameters according to the series. Not for serial application. Not all customer specifications necessarily fulfilled.