FSP100-05000300
Polyimide Coated Singlemode Fiber

Singlemode fiber with the following properties:

1. **Geometrical features**
   - Core Material: Ge-doped fused silica
   - Cladding Ø: 125 µm ± 2µm
   - Core/Clad concentricity error: <0.8µm
   - Cladding Non-circularity: ≤ 1%
   - Coating Ø: 160µm ± 10µm
   - Clad/Coating concentricity error: ≤ 5µm
   - Coating material: Polyimide

2. **Optical properties**
   - Mode field diameter @ 1310nm: 9.2µm ± 0.4µm
   - Mode field diameter @ 1550 nm: 10.4 µm ± 0.5 µm
   - Cut-off wavelength (uncabled): ≤ 1330nm
   - Attenuation @ 1310 nm: ≤ 0.5 dB/km
   - Attenuation @ 1550 nm: ≤ 0.3 dB/km
   - Attenuation @ 1625 nm: ≤ 0.3 dB/km
   - Numerical Aperture (typical): 0.12

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

5. **Delivery length**
   >100m.

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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.