

1550 nm Select Cutoff **Single-Mode Fibers**

Nufern's 1550B-HP high-performance select cutoff bend insensitive single-mode fiber is optimized for use in small form factor active and passive components requiring tight bend radii. With a bend loss considerably lower than SMF-28TM, 1550B-HP is ideal for the video leg in FTTH CWDM and applications such as smaller form factor C and L-band components and low NA planar waveguides.

Typical Applications

Features & Benefits

1550B-HP

0.130

1460 - 1620 nm

1400 ± 50 nm

9.5 ± 0.5 µm @ 1550 nm

≤ 0.5 dB/km @ 1550 nm

- FTTx components and modules
- Compact C and L-band components •
- Low NA planar waveguides
- · Metro components
- Optimized cutoff for 1550 nm wavelength Extremely low bend loss Tight mechanical and optical tolerances — high yield component manufacturing
- Mode matched to SMF-28 Low splice loss to standard fibers

0.130

1550B-HP-80

1460 - 1620 nm

1400 ± 50 nm

9.5 ± 0.5 µm @ 1550 nm

≤ 0.5 dB/km @ 1550 nm

High proof test for tighter bends — Critical for long-term reliability in tight bend applications

Optical Specifications

Operating Wavelength Core NA Mode Field Diameter Cutoff Core Attenuation

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Geometrical & Mechanical Specifications

| Cladding Diameter |
|-----------------------------|
| Core Diameter |
| Coating Diameter |
| Coating Concentricity |
| Core/Clad Offset |
| Coating Material |
| Operating Temperature Range |
| Short Term Bend Radius |
| Long Term Bend Radius |
| Prooftest Level |
| |

| 125.0 ± 1.0 μm | 80.0 ± 1.0 µm |
|-------------------------|-------------------------|
| 9.0 µm | 9.0 µm |
| 245.0 ± 15.0 μm | 165.0 ± 10.0 μm |
| < 5.0 µm | < 5.0 µm |
| ≤ 0.50 µm | ≤ 0.50 µm |
| UV Cured, Dual Acrylate | UV Cured, Dual Acrylate |
| -55 to 85 °C | -55 to 85 °C |
| ≥ 6 mm | ≥ 4 mm |
| ≥ 13 mm | ≥ 9 mm |
| ≥ 200 kpsi (1.4 GN/m²) | ≥ 200 kpsi (1.4 GN/m²) |



7 Airport Park Road, East Granby, CT 06026 • 860.408.5000 • Toll-free 866.466.0214 • Fax 860.844.0210 E-mail info @ nufern.com • www.nufern.com Nufern products are manufactured under an ISO 9001:2008 certified quality management system.



Standard specifications and design parameters are listed above. Specifications are subject to change without notice. Other configurations such as alternative form factors, optimized cut-off and UV cured color coating may be available. Let us know how Nufern can assist with your requirements.