

1310/1550 nm Select Cutoff **Single-Mode Fibers**

Nufern's 1310B-HP and 1310B-HP-V0 high-performance Select Cutoff single-mode fibers are optimized for dual wavelength applications at 1310 and 1550 nm and feature reduced bend sensitivity in the key 1550 nm band, while maintaining low splice loss to industry standard SMF-28™ fiber. Also available with 900 micron V-0 flame rated PVDF secondary buffer in accordance with UL94 in 12 standard colors and with customer specific printing on request. These fibers have virtually no buffer shrinkage over - 40°C to + 85°C operating temperature.

Typical Applications

Features & Benefits

1310B-HP

0.130

1300 – 1625 nm

 $1260 \pm 30 \text{ nm}$

8.6 ± 0.5 µm @ 1310 nm

9.7 ± 0.5 µm @ 1550 nm

≤ 0.5 dB/km @ 1310 nm

≤ 0.5 dB/km @ 1550 nm

- 1310 and 1550 nm components
- · Pigtailing in small form metro components

Tightly controlled cutoff wavelength — Reduced bend loss at 1550 nm

1310B-HP-V0

1300 - 1625 nm

1260 ± 30 nm

8.6 ± 0.5 µm @ 1310 nm

9.7 ± 0.5 µm @ 1550 nm

≤ 0.5 dB/km @ 1310 nm

≤ 0.5 dB/km @ 1550 nm

0.130

- Mode matched to SMF-28 Low splice loss to standard fibers •
- Printing available Customer specific for serialization
- PVDF secondary coating Flame retardant buffer, with virtually no temperature shrinkage

Optical Specifications

Operating Wavelength
Core NA
Mode Field Diameter

Cutoff Core Attenuation

Geometrical & Mechanical Specifications

Cladding Diameter Core Diameter Coating Diameter Coating Concentricity Core/Clad Offset Coating Material First Buffer Diameter **Buffer Concentricity** First Buffer Material

Operating Temperature Range Short Term Bend Radius Long Term Bend Radius **Prooftest Level**

125.0 ± 1.0 μm	125.0 ± 1.0 µm
8.5 µm	8.5 µm
245.0 ± 15.0 μm	245.0 ± 15.0 µm
< 5.0 μm	< 5.0 µm
≤ 0.50 µm	≤ 0.50 µm
UV Cured, Dual Acrylate	UV Cured, Dual Acrylate
N/A	900.0 ± 50.0 μm
N/A	≤ 85 µm
N/A	PVDF - Meets UL 94 V-0
	Specification
-55 to 85 °C	-40 to 85 °C
≥ 6 mm	≥ 6 mm
≥ 13 mm	≥ 13 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.

RoHS

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.