

1310/1550 nm Select Cutoff Single-Mode Fibers



Coherent'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.

Typical Applications

- 1310 and 1550 nm components
- Pigtailling in small form metro components

Features & Benefits

- Tightly controlled cutoff wavelength — Reduced bend loss at 1550 nm
- Mode matched to SMF-28 — Low splice loss to standard fibers
- Printing available — Customer specific for serialization

Optical Specifications

	1310B-HP	1310B-HP-V0
Operating Wavelength	1300 – 1625 nm	1300 – 1625 nm
Core NA	0.130	0.130
Mode Field Diameter	8.6 ± 0.5 μm @ 1310 nm 9.7 ± 0.5 μm @ 1550 nm	8.6 ± 0.5 μm @ 1310 nm 9.7 ± 0.5 μm @ 1550 nm
Cutoff	1260 ± 30 nm	1260 ± 30 nm
Core Attenuation	≤ 0.5 dB/km @ 1310 nm ≤ 0.5 dB/km @ 1550 nm	≤ 0.5 dB/km @ 1310 nm ≤ 0.5 dB/km @ 1550 nm

Geometrical & Mechanical Specifications

	1310B-HP	1310B-HP-V0
Cladding Diameter	125.0 ± 1.0 μm	125.0 ± 1.0 μm
Core Diameter	8.5 μm	8.5 μm
Coating Diameter	245.0 ± 15.0 μm	245.0 ± 15.0 μm
Coating Concentricity	< 5.0 μm	< 5.0 μm
Core/Clad Offset	≤ 0.50 μm	≤ 0.50 μm
Coating Material	Acrylate	Acrylate
First Buffer Diameter	N/A	900.0 ± 50.0 μm
Buffer Concentricity	N/A	≤ 85 μm
Operating Temperature Range	-55 to 85 °C	-40 to 85 °C
Short Term Bend Radius	≥ 6 mm	≥ 6 mm
Long Term Bend Radius	≥ 13 mm	≥ 13 mm
Proof Test Level	≥ 200 kpsi (1.4 GN/m ²)	≥ 200 kpsi (1.4 GN/m ²)



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www.coherent.com ; www.shop.coherent.com • Coherent products are manufactured under an ISO 9001:2008 certified quality management system.



Custom developed fiber (FUD) 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 Coherent can assist with your requirements.