COHERENT

Nufern 980/1550 nm Coupler Fiber

Coherent 980C-HP fiber is a high-performance, mid-NA fiber optimized for use by coupler manufacturers in the telecom industry. It features low, consistent splice and bend loss, and a design to minimize excess loss in the coupler. The fiber is produced with extremely tight second mode cut-off tolerance, and the high tensile strength critical for long-term reliability in tight bend radius applications. These high-performance specifications also result in improved production yields and reduced component manufacturer costs.

Exceptional uniformity and core/clad concentricity — Low, consistent splice loss to telecom components

Extremely tight second mode cutoff tolerance — High yield coupler manufacturing

Higher proof test levels — Critical for long-term reliability in tight bend applications

Typical Applications

- WDM pump/signal couplers for EDFAs
- CATV couplers; Tap couplers
- Bi-directional splitters & combiners
- Ultra-compact components requiring small bend radii

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 Clad Non-Circularity Coating Material Operating Temperature Range Short Term Bend Radius Long Term Bend Radius Prooftest Level 980 - 1600 nm 0.160 4.9 ± 0.3 μm @ 980 nm 7.7 ± 0.3 μm @ 1550 nm 930 ± 30 nm ≤ 3.0 dB/km @ 980 nm

980C-HP

Features & Benefits

125.0 ± 1.0 μm 4.4 μm 245.0 ± 15.0 μm < 5.0 μm ≤ 0.30 μm ≤ 2.0 % Acrylate -55 to 85 °C ≥ 6 mm ≥ 13 mm ≥ 200 kpsi (1.4 GN/m²)



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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.