

1550 nm Single-Mode Double Clad Coupler Fiber



Coherent's single-mode double clad coupler fiber is designed for 1550 nm amplifier modules utilizing higher power multimode pumps. With a core designed to match SMF-28™ and an inner cladding glass-on-glass structure optimized to accept multimode pump energy, this fiber is ideal for the signal leg in high power CATV couplers.

Typical Applications

- CATV pump/signal couplers
- Laser delivery/fluorescence

Features & Benefits

- Single-mode core — Low splice loss to SMF
- Glass-on-glass double clad structure — Compatible with Nufern Power Delivery Fibers
- Exceptional geometric uniformity and core/clad concentricity — Superior fiber diameter tolerances

Optical Specifications

Operating Wavelength	1250 – 1600 nm
Core NA	0.120
Mode Field Diameter	10.5 ± 0.7 μm @ 1550 nm
Cutoff	1250 ± 60 nm
Core Attenuation	≤ 0.5 dB/km @ 1550 nm

SM-9/105/125-20A

Geometrical & Mechanical Specifications

First Cladding Diameter (inner)	105.0 ± 5.0 μm
Second Cladding Diameter	125 ± 1 μm
Core Diameter	9.0 μm
Coating Diameter	245.0 ± 15.0 μm
First Cladding Material	Glass Inner Cladding
Coating Material	Acrylate
Proof test Level	≥ 100 kpsi (0.7 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.

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