ALL SILICA DOUBLE CLAD FIBER

Passive Double Clad Fiber (SMM900) is a passive, dual cladding, Multimode (MM) fiber that combines both Single-Mode (SM) and MM fiber characteristics within a single fiber.

The fiber has a germano-silicate SM core, a pure silica inner cladding to guide the pump light and a fluorine doped secondary cladding to give outstanding power handling over a full range of environmental conditions. The fiber does not rely on a low index polymer coating, so it can be stripped, cleaved and spliced like a standard telecoms fiber, without the need to apply a low index recoat material.

SMM900 has been designed specifically to be used in conjunction with Fibercore's Dual Clad Erbium/Ytterbium Doped Fiber (CP1500Y), Multimode Pump Fiber (MM105) and Isolating Wavelength Division Multiplexer (CP-IWDM). In order to minimize losses throughout the system and maximize efficiency, the optical characteristics of these fibers have been matched for high splice compatibility.

FEATURES

Advantages

- All silica design
- No recoating required
- Stable in humid environments

Typical Applications:

- Telecoms
- Erbium Doped Fiber Amplifier (EDFA)
- Cable Television (CATV)
- Fiber laser
- Biomedical illumination

Product Variants

- SMM900
  Double clad passive fiber with SM core and MM pump guide

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SPECIFICATIONS

	SMM900
Single-Mode Core	
Cut-Off Wavelength (nm)	870 - 970
Numerical Aperture	0.18 - 0.20
Mode Field Diameter (µm)	6.5 - 8.2 @1550nm
Attenuation (dB/km)	4 (nominal) @1550nm
Core Cladding Concentricity (µm)	≤0.75
Pump Guide	
Diameter (µm)	100 - 104
Numerical Aperture	0.24 - 0.28
General	
Cladding Diameter (µm)	125 ± 1
Proof Test (%)	1 (100 kpsi)
Coating Diameter (µm)	245 ± 7
Coating Type	Dual Layer Acrylate
Operating Temperature (°C)	-55 to +85

RELATED PRODUCTS

- Dual Clad Erbium/Ytterbium Doped Fiber
- Large Core Fiber
- Isolating Wavelength Division Multiplexer

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