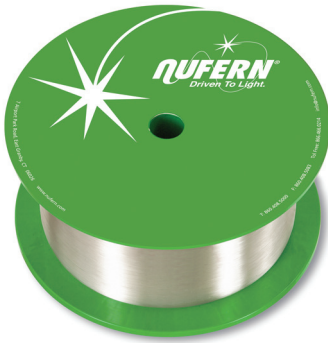


# Nuferm 980 nm Select Cut-Off Single-Mode Fiber



Nuferm's 980 nm high-performance select cut-off single-mode fibers are optimized for use by component manufacturers in the telecommunications wavelengths. These application-specific fibers were developed for pump diode pigtailed, unique delivery for components, and couplers. Available in 80  $\mu\text{m}$  and 125  $\mu\text{m}$  form factors, Nuferm's 980 nm fibers offer exceptional uniformity and core/clad concentricity specifications, very tight second mode cut-off tolerances, and tighter bend radius applications in miniaturized fiber optic packages. These high-performance specifications result in superior strength, increased component reliability, improved production yields and reduced component manufacturer costs.

## Typical Applications

- Pump Diode Pigtailed
- Metro components
- Small form factor components
- Couplers

## Features & Benefits

- 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

### Optical Specifications

Operating Wavelength (nominal)  
Mode Field Diameter  
Second Mode Cut-Off  
Attenuation  
Numerical Aperture (nominal)  
Bend Loss for 100 turns  
@ LTBR(nominal)  
Bend Radius for 0.05 dB  
per 100 Turns (nominal)  
Bend Radius for 0.05 dB  
per 100 Turns (nominal)

### Geometrical & Mechanical Specifications

Clad Diameter  
Coating Diameter  
Core-Clad Concentricity  
Coating/Clad Offset  
Coating Material  
Operating Temperature  
Short-Term Bend Radius  
Long-Term Bend Radius  
Proof Test Level

### 980-HP

980 - 1600 nm  
 $4.2 \pm 0.5 \mu\text{m}$  @ 980 nm  
 $6.8 \pm 0.5 \mu\text{m}$  @ 1550 nm  
920  $\pm$  30 nm  
< 3.5 dB/km @ 980 nm  
0.20  
0.001 dB @ 980 nm  
Much less than LTBR @ 980 nm  
15 mm @ 1550 nm

### 980-HP-80

980 - 1600 nm  
 $4.2 \pm 0.5 \mu\text{m}$  @ 980 nm  
 $6.8 \pm 0.5 \mu\text{m}$  @ 1550 nm  
920  $\pm$  30 nm  
< 3.5 dB/km @ 980 nm  
0.20  
0.001 dB @ 980 nm  
Much less than LTBR @ 980 nm  
15 mm @ 1550 nm

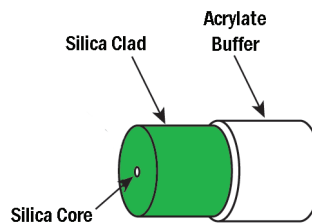
### 980M-HP-80

980 - 1600 nm  
 $4.7 \pm 0.3 \mu\text{m}$  @ 980 nm  
NA  
930  $\pm$  30 nm  
< 3.0 dB/km @ 980 nm  
0.17  
0.001 dB @ 980 nm  
Much less than LTBR @ 980 nm  
40 mm @ 1550 nm

$125.0 \pm 1.5 \mu\text{m}$   
 $245 \pm 15 \mu\text{m}$   
< 0.5  $\mu\text{m}$   
 $\leq 5 \mu\text{m}$   
UV Cured, Dual Acrylate  
- 55 to + 85° C  
 $\geq 6 \text{ mm}$   
 $\geq 13 \text{ mm}$   
 $\geq 200 \text{ kpsi (1.4 GN/m}^2\text{)}$

$80 \pm 2 \mu\text{m}$   
 $165 \pm 10 \mu\text{m}$   
< 0.5  $\mu\text{m}$   
 $\leq 5 \mu\text{m}$   
UV Cured, Dual Acrylate  
- 55 to + 85° C  
 $\geq 4 \text{ mm}$   
 $\geq 9 \text{ mm}$   
 $\geq 200 \text{ kpsi (1.4 GN/m}^2\text{)}$

$80 \pm 2 \mu\text{m}$   
 $165 \pm 10 \mu\text{m}$   
< 0.5  $\mu\text{m}$   
 $\leq 5 \mu\text{m}$   
UV Cured, Dual Acrylate  
- 55 to + 85° C  
 $\geq 4 \text{ mm}$   
 $\geq 9 \text{ mm}$   
 $\geq 200 \text{ kpsi (1.4 GN/m}^2\text{)}$

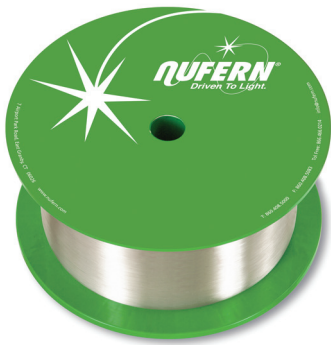


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# Nufern 980/1550 nm Coupler Fiber

Nufern 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.

## Typical Applications

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

## Features & Benefits

- 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

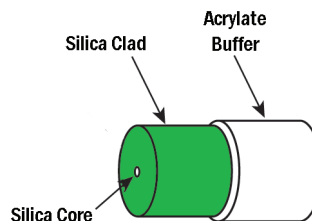
### Optical Specifications

Operating Wavelength (nominal)	980 - 1600 nm
Mode Field Diameter	4.9 ± 0.3 μm @ 980 nm 7.7 ± 0.3 μm @ 1550 nm
Second Mode Cut-Off	930 ± 30 nm
Attenuation	< 3 dB/km @ 980 nm
Numerical Aperture (nominal)	0.16
Bend Loss for 100 turns @ LTBR (nominal)	0.001 dB @ 980 nm
Bend Radius for 0.05 dB per 100 Turns (nominal)	Much less than LTBR @ 980 nm

### Geometrical & Mechanical Specifications

Clad Diameter	125 ± 1 μm
Coating Diameter	245 ± 15 μm
Core-Clad Concentricity	< 0.3 μm
Coating/Clad Offset	≤ 5 μm
Fiber Non-Circularity	≤ 2%
Coating Material	UV Cured, Dual Acrylate
Operating Temperature	- 55 to + 85° C
Short-Term Bend Radius	≥ 6 mm
Long-Term Bend Radius	≥ 13 mm
Proof Test Level	≥ 200 kpsi (1.4 GN/m <sup>2</sup> )

### 980C-HP



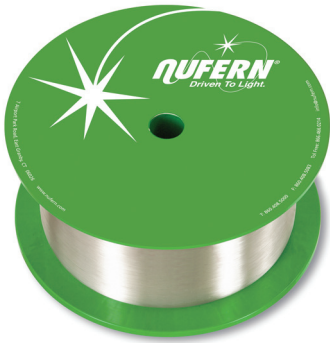
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# 980/1060 nm Select Cutoff Single-Mode Fiber



Nufern's 1060-XP select cutoff single-mode fibers are optimized for use by component manufacturers in the telecommunications wavelengths. These application-specific fibers were developed for pump diode pigtails, unique delivery for components and couplers. They offer exceptional uniformity and core/clad concentricity specifications, very tight second mode cut off tolerances, and tighter bend radius for applications in optical packages. These extra high-performance specifications result in superior strength, increased component reliability, improved production yields and reduced component manufacturer costs.

## Typical Applications

- Pump Diode Pigtails
- 980/1550 nm WDM Couplers
- Single Clad Yb-fiber pigtails

## Features & Benefits

- 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

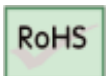
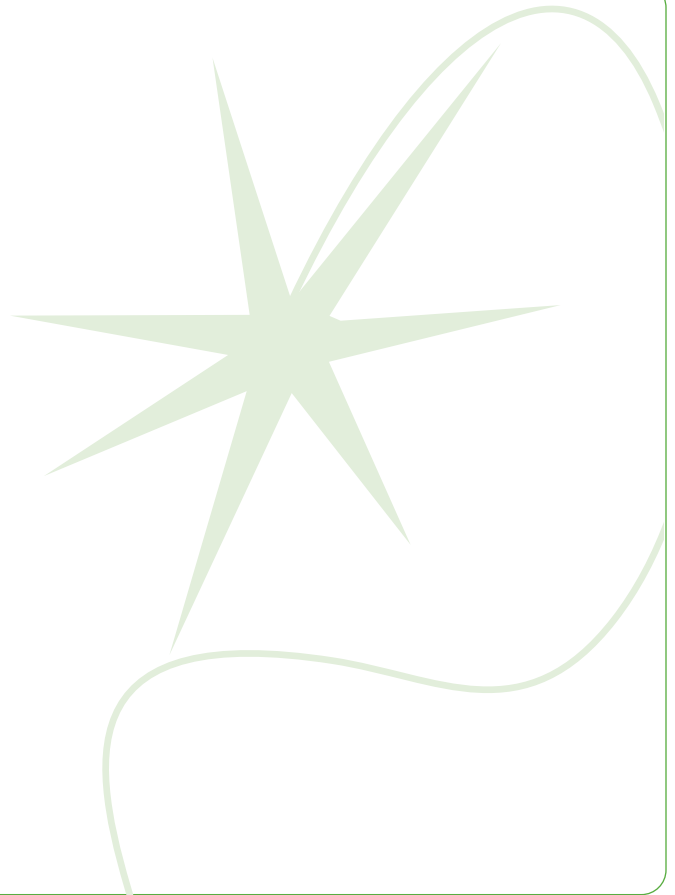
## Optical Specifications

Operating Wavelength (nominal)	980–1600 nm
Mode Field Diameter	5.9 ± 0.5 μm @ 980 nm
Mode Field Diameter	6.2 ± 0.5 μm @ 1060 nm
Mode Field Diameter	9.5 ± 0.5 μm @ 1550 nm
Second Mode Cutoff	920 ± 30 nm
Attenuation	≤ 2.1 dB/km @ 980 nm
Attenuation	≤ 1.5 dB/km @ 1060 nm
Numerical Aperture (nominal)	0.14
Bend Loss for 100 turns @ 13 mm radius (nominal)	< 0.001 dB @ 1060 nm
Bend Radius for 0.05 dB per 100 turns (nominal)	13 mm @ 1060 nm
Bend Radius for 0.05 dB per 100 turns (nominal)	57 mm @ 1550 nm

## Geometrical & Mechanical Specifications

Clad Diameter	125.0 ± 0.5 μm
Coating Diameter	245 ± 10 μm
Core-Clad Concentricity	< 0.3 μm
Coating/Clad Offset	≤ 5 μm
Coating Material	UV Cured, Dual Acrylate
Operating Temperature	- 55 to + 85°C
Short-Term Bend Radius	≥ 6 mm
Long-Term Bend Radius	≥ 13 mm
Proof Test Level	≥ 200 kpsi (1.4 GN/m <sup>2</sup> )

## 1060-XP

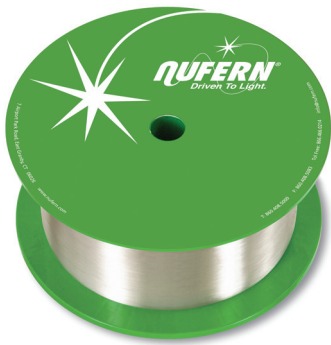


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# 1310/1550 nm Reduced Clad and Bend Insensitive Select Cut-Off Single-Mode Fiber

Nufern's 1310/1550 nm high-performance select cut-off single-mode fibers are optimized for use by component manufacturers in the telecommunications wavelengths. These application-specific fibers were developed for small form factor components. Nufern's fibers offer exceptional uniformity and core/clad concentricity, very tight second mode cut-off tolerances, and tight bend radius specifications for applications in miniaturized fiber optic packages. These high-performance specifications result in superior strength, increased component reliability, improved production yields and reduced component manufacturer costs.

## Typical Applications

- Small form factor components
- Couplers
- Optical switches

## Features & Benefits

- Exceptional uniformity and core/clad concentricity — low, consistent splice loss
- Tight mechanical and optical tolerances — high component manufacturing yields
- Higher proof test levels and 80  $\mu\text{m}$  diameter — critical for long-term reliability in tight bend applications

### Optical Specifications

Operating Wavelength (nominal)  
Mode Field Diameter  
Second Mode Cut-Off  
Attenuation  
  
Numerical Aperture (nominal)  
Bend Radius for 0.05 dB per 100 turns

### 1310-HP-80

1310 - 1620 nm  
9.3  $\pm$  0.5  $\mu\text{m}$  @ 1310 nm  
1250  $\pm$  50 nm  
< 0.75 dB/km @ 1310 nm  
< 0.5 dB/km @ 1550 nm  
0.11  
15 mm @ 1310 nm  
30 mm @ 1550 nm

### 1310M-HP

1310 - 1620 nm  
6.7  $\pm$  0.5  $\mu\text{m}$  @ 1310 nm  
1250  $\pm$  50 nm  
< 0.75 dB/km @ 1310 nm  
< 0.5 dB/km @ 1550 nm  
0.16  
Much less than LTBR @ 1310 nm  
12 mm @ 1550 nm

### 1310M-HP-80

1310 - 1620 nm  
6.7  $\pm$  0.5  $\mu\text{m}$  @ 1310 nm  
1250  $\pm$  50 nm  
< 0.75 dB/km @ 1310 nm  
< 0.5 dB/km @ 1550 nm  
0.16  
Much less than LTBR @ 1310 nm  
12 mm @ 1550 nm

### Geometrical & Mechanical Specifications

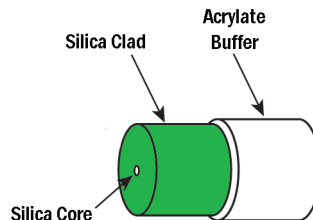
Clad Diameter  
Coating Diameter  
Core-Clad Concentricity  
Coating/Clad Offset  
Coating Material  
Operating Temperature  
Short-Term Bend Radius  
Long-Term Bend Radius  
Proof Test Level

80  $\pm$  2  $\mu\text{m}$   
165  $\pm$  10  $\mu\text{m}$   
< 0.5  $\mu\text{m}$   
 $\leq$  5  $\mu\text{m}$   
UV Cured, Dual Acrylate  
- 55 to +85° C  
 $\geq$  4 mm\*  
 $\geq$  9 mm\*  
 $\geq$  200 kpsi (1.4 GN/m<sup>2</sup>)

125  $\pm$  1  $\mu\text{m}$   
245  $\pm$  15  $\mu\text{m}$   
< 0.5  $\mu\text{m}$   
 $\leq$  5  $\mu\text{m}$   
UV Cured, Dual Acrylate  
- 55 to +85° C  
 $\geq$  6 mm  
 $\geq$  13 mm  
 $\geq$  200 kpsi (1.4 GN/m<sup>2</sup>)

80  $\pm$  2  $\mu\text{m}$   
165  $\pm$  10  $\mu\text{m}$   
< 0.5  $\mu\text{m}$   
 $\leq$  5  $\mu\text{m}$   
UV Cured, Dual Acrylate  
- 55 to +85° C  
 $\geq$  4 mm  
 $\geq$  9 mm  
 $\geq$  200 kpsi (1.4 GN/m<sup>2</sup>)

\*may be limited by optical bend loss



RoHS

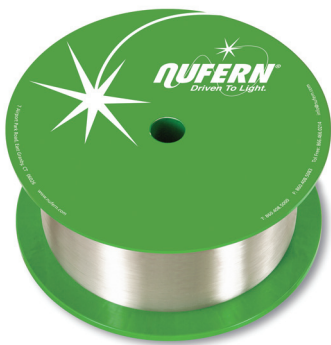


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# 1310/1550 nm Select Cutoff Single-Mode Fibers

Nufer'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

- 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
- PVDF secondary coating — Flame retardant buffer, with virtually no temperature shrinkage

### Optical Specifications

Operating Wavelength (nominal)  
 Mode Field Diameter  
 Mode Field Diameter  
 Second Mode Cutoff  
 Attenuation  
 Attenuation  
 Numerical Aperture (nominal)  
 Bend Loss per turn @ 13 mm radius  
 Bend Radius for < 0.05 dB/100 turns  
 Bend Radius for < 0.05 dB/100 turns  
 Bend Radius for < 0.05 dB/100 turns

### 1310B-HP

1300– 1625 nm  
 $8.6 \pm 0.5 \mu\text{m}$  @ 1310 nm  
 $9.7 \pm 0.5 \mu\text{m}$  @ 1550 nm  
 $1260 \pm 30 \text{ nm}$   
 $\leq 0.5 \text{ dB/km}$  @ 1310 nm  
 $\leq 0.5 \text{ dB/km}$  @ 1550 nm  
 0.13  
 $< 0.01 \text{ dB}$  @ 1310 nm  
 Less than LTBR  
 22 mm @ 1550 nm  
 24 mm @ 1625 nm

### 1310B-HP-V0

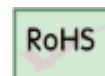
1300 – 1625 nm  
 $8.6 \pm 0.5 \mu\text{m}$  @ 1310 nm  
 $9.7 \pm 0.5 \mu\text{m}$  @ 1550 nm  
 $1260 \pm 30 \text{ nm}$   
 $\leq 0.5 \text{ dB/km}$  @ 1310 nm  
 $\leq 0.5 \text{ dB/km}$  @ 1550 nm  
 0.13  
 $< 0.01 \text{ dB}$  @ 1310 nm  
 Less than LTBR  
 22 mm @ 1550 nm  
 24 mm @ 1625 nm

### Geometrical & Mechanical Specifications

Clad Diameter  
 Coating Diameter  
 Buffer Diameter  
 Core-Clad Concentricity  
 Coating/Clad Offset  
 Buffer Concentricity  
 Coating Material  
 Buffer Material  
 Operating Temperature  
 Short-Term Bend Radius  
 Long-Term Bend Radius  
 Proof Test Level

$125 \pm 1 \mu\text{m}$   
 $245 \pm 15 \mu\text{m}$   
 NA  
 $< 0.5 \mu\text{m}$   
 $\leq 5 \mu\text{m}$   
 NA  
 UV Cured, Dual Acrylate  
 NA  
 $- 55 \text{ to } + 85^\circ\text{C}$   
 $\geq 6 \text{ mm}$   
 $\geq 13 \text{ mm}$   
 $\geq 200 \text{ kpsi (1.4 GN/m}^2\text{)}$

$125 \pm 1 \mu\text{m}$   
 $245 \pm 15 \mu\text{m}$   
 $900 \pm 50 \mu\text{m}$   
 $< 0.5 \mu\text{m}$   
 $\leq 5 \mu\text{m}$   
 $< 85 \mu\text{m}$   
 UV Cured, Dual Acrylate  
 PVDF (meets UL94 specifications)  
 $- 40 \text{ to } + 85^\circ\text{C}$   
 $\geq 6 \text{ mm}$   
 $\geq 13 \text{ mm}$   
 $\geq 200 \text{ kpsi (1.4 GN/m}^2\text{)}$



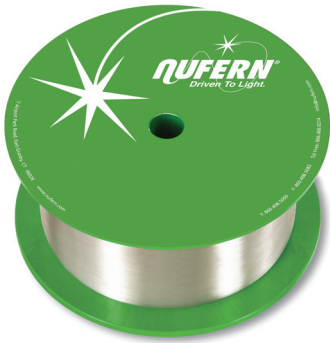
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# 1550 nm Select Cutoff Single-Mode Fibers



Nufern's 1550B-HP high-performance select cutoff bend insensitive single-mode fiber is optimized for use in small form factor active and passive components requiring tight bend radii. With a bend loss considerably lower than SMF-28™, 1550B-HP is ideal for the video leg in FTTH CWDM and applications such as smaller form factor C and L-band components and low NA planar waveguides.

## Typical Applications

- FTTx components and modules
- Compact C and L-band components
- Low NA planar waveguides
- Metro components

## Features & Benefits

- Optimized cutoff for 1550 nm wavelength — Extremely low bend loss
- Tight mechanical and optical tolerances — high yield component manufacturing
- Mode matched to SMF-28 — Low splice loss to standard fibers
- High proof test for tighter bends — Critical for long-term reliability in tight bend applications

## Optical Specifications

Operating Wavelength (nominal)	1460– 1620 nm
Mode Field Diameter	9.5 ± 0.5 μm @ 1550 nm
Second Mode Cutoff	1400 ± 50 nm
Attenuation	≤ 0.5 dB/km @ 1550 nm
Numerical Aperture (nominal)	0.13
Bend Loss for 100 turns @ LTBR (nominal)	0.3 dB @ 1550 nm
Bend Radius for 0.05 dB per 100 turns (nominal)	15 mm @ 1550 nm

## 1550B-HP

Operating Wavelength (nominal)	1460– 1620 nm
Mode Field Diameter	9.5 ± 0.5 μm @ 1550 nm
Second Mode Cutoff	1400 ± 50 nm
Attenuation	≤ 0.5 dB/km @ 1550 nm
Numerical Aperture (nominal)	0.13
Bend Loss for 100 turns @ LTBR (nominal)	0.3 dB @ 1550 nm
Bend Radius for 0.05 dB per 100 turns (nominal)	15 mm @ 1550 nm

## 1550B-HP-80

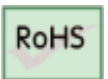
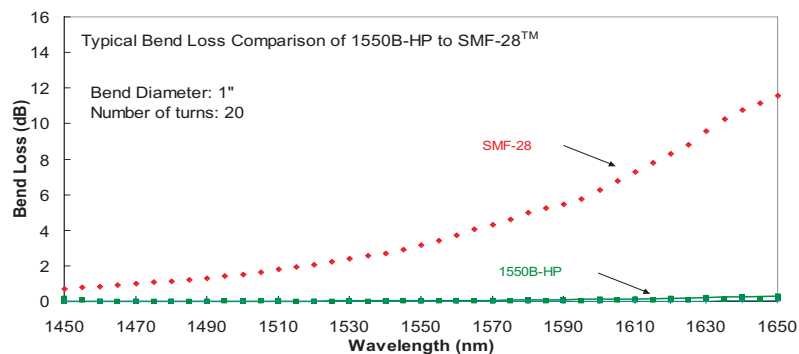
Operating Wavelength (nominal)	1460 – 1620 nm
Mode Field Diameter	9.5 ± 0.5 μm @ 1550 nm
Second Mode Cutoff	1400 ± 50 nm
Attenuation	≤ 0.5 dB/km @ 1550 nm
Numerical Aperture (nominal)	0.13
Bend Loss for 100 turns @ LTBR (nominal)	0.15 dB @ 1550 nm
Bend Radius for 0.05 dB per 100 turns (nominal)	15 mm @ 1550 nm

## Geometrical & Mechanical Specifications

Clad Diameter	125 ± 1 μm
Coating Diameter	245 ± 15 μm
Core-Clad Concentricity	< 0.5 μm
Coating/Clad Offset	≤ 5 μm
Coating Material	UV Cured, Dual Acrylate
Operating Temperature	- 55 to + 85°C
Short-Term Bend Radius	≥ 6 mm
Long-Term Bend Radius	≥ 13 mm
Proof Test Level	≥ 200 kpsi (1.4 GN/m <sup>2</sup> )

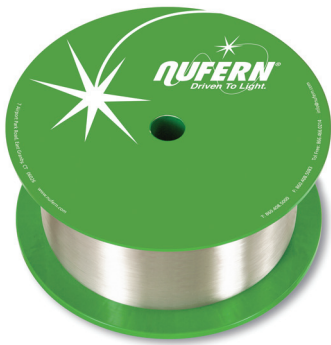
Clad Diameter	125 ± 1 μm
Coating Diameter	245 ± 15 μm
Core-Clad Concentricity	< 0.5 μm
Coating/Clad Offset	≤ 5 μm
Coating Material	UV Cured, Dual Acrylate
Operating Temperature	- 55 to + 85°C
Short-Term Bend Radius	≥ 6 mm
Long-Term Bend Radius	≥ 13 mm
Proof Test Level	≥ 200 kpsi (1.4 GN/m <sup>2</sup> )

Clad Diameter	80 ± 1 μm
Coating Diameter	165 ± 10 μm
Core-Clad Concentricity	< 0.5 μm
Coating/Clad Offset	≤ 5 μm
Coating Material	UV Cured, Dual Acrylate
Operating Temperature	- 55 to + 85°C
Short-Term Bend Radius	≥ 4 mm
Long-Term Bend Radius	≥ 9 mm
Proof Test Level	≥ 200 kpsi (1.4 GN/m <sup>2</sup> )



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# 1550 nm Single-Mode Double Clad Coupler Fiber

Nufern'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

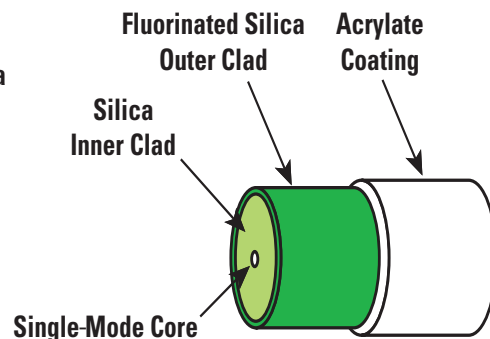
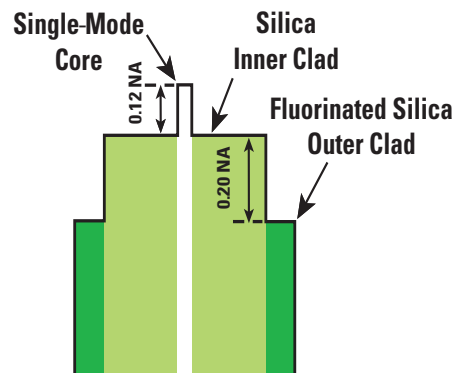
## Optical Specifications

Operating Wavelength (nominal)	1550 nm
Mode Field Diameter	10.5 ± 0.7 μm @ 1550 nm
Second Mode Cutoff	1250 ± 60 nm
Attenuation	≤ 0.5 dB/km @ 1550 nm
Core Numerical Aperture (nominal)	0.12
Clad Numerical Aperture (nominal)	0.20

## Geometrical & Mechanical Specifications

Silica Inner Clad Diameter	105 ± 5 μm
Silica Outer Clad Diameter	125 ± 1 μm
Coating Diameter	245 ± 15 μm
Coating Material	UV Cured, Dual Acrylate
Proof Test Level	≥ 100 kpsi (0.7 GN/m <sup>2</sup> )

## SM-9/105/125-20A



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