

Fiber Type:

Step Index
Multimode

Fiber

Construction:

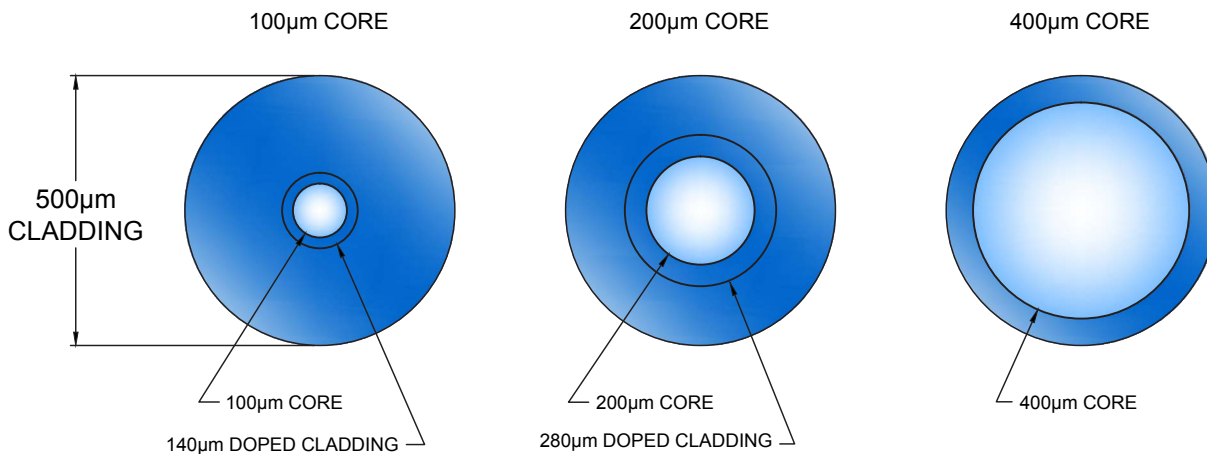
Silica Core/
Silica Clad/
Polymer Coated

Trade Name:

UniClad™
Anhydroguide™
VIS-IR (Low OH)
300nm – 2400nm

UniClad™

Superguide™
UV-VIS (High OH)
190nm – 1250nm



Fiberguide's Universal Clad, or UniClad, optical fibers are Silica Core/Silica Clad/Polymer Coated fibers designed for high power transmission and other applications where a large cladding relative to the core is beneficial. These fibers feature a fixed 500µm cladding diameter, with a 100µm - 400µm core size, making laser alignment and splicing easier. The larger 600µm and 800µm core sizes use proportionally larger cladding.

FIBER SPECIFICATIONS

- Step Index Multimode
- Pure Fused Silica Core / Fluorine Doped Silica Cladding
- Silicone Buffer Coating Layer for Nylon
- Core / Cladding Sizes: 100µm to 800µm
- Numerical Aperture (NA): 0.20 ± 0.02
- Recommended Bend Radius:
 - o Short Term: 100 X Clad Diameter
 - o Long Term: 200 X Clad Diameter

Please note that these figures represent best practice recommendations. In applications where tighter bends are required, Fiberguide can assist you in estimating what impact they may have on fiber reliability.

- 100% Proof Test Using 4-Axis Bend Method
- Nylon certified to NAMS Class VI

APPLICATIONS

- High Power Applications
- Spectroscopy
- Ultra Low Loss Assemblies
- Low Focal Ratio Degradation Applications
- Universal Dimensioning
- Simplified Assembly

UniClad All Silica Fiber

Fiber Type:
 Step Index
 Multimode

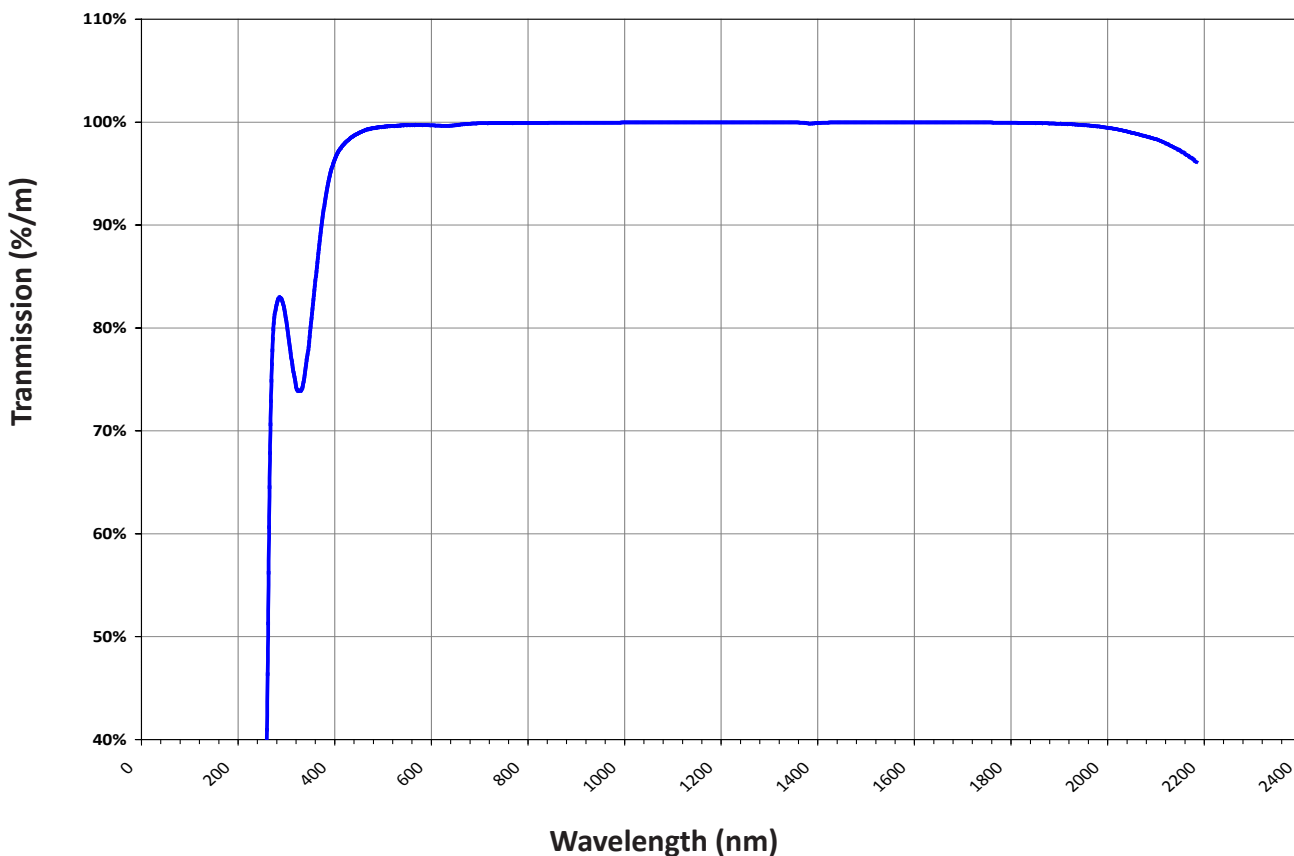
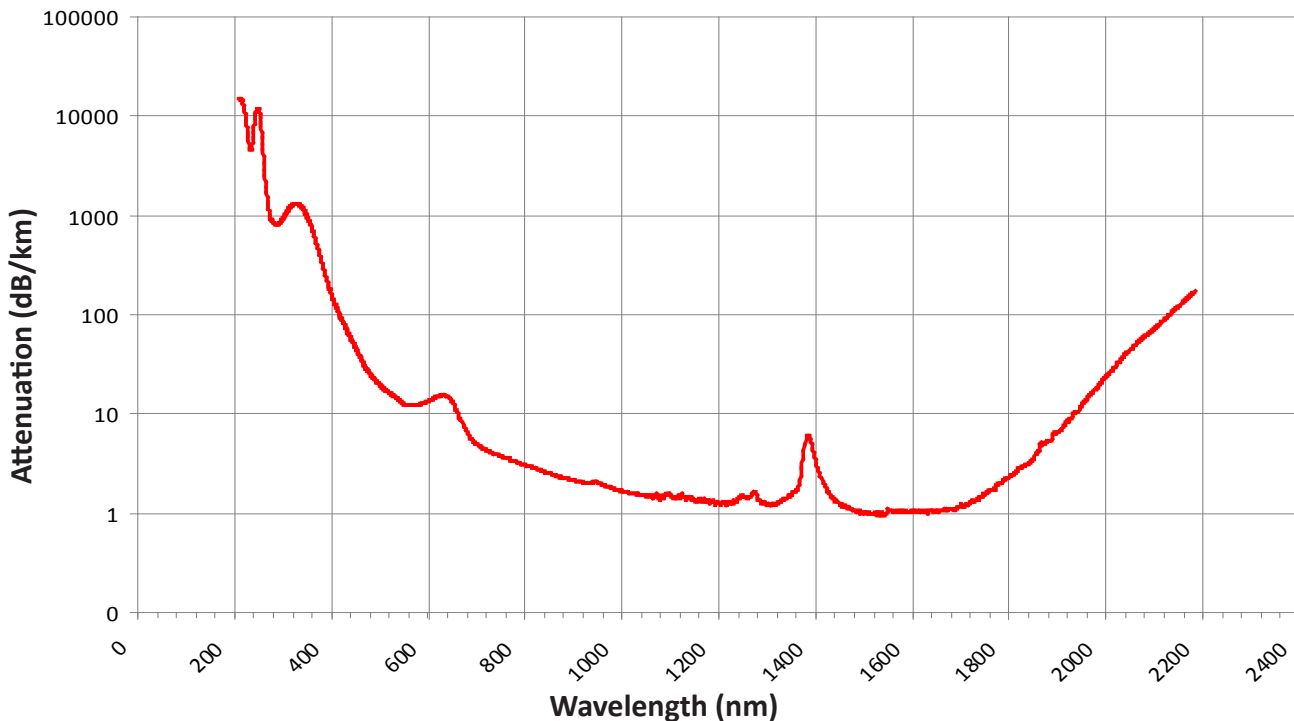
Fiber

Construction:
 Silica Core/
 Silica Clad/
 Polymer Coated

Trade Name:
 UniClad™
 Anhydroguide™
 VIS-IR (Low OH)
 300nm – 2400nm

UniClad™
 Superguide™
 UV-VIS (High OH)
 190nm – 1250nm

Fiber Type: Anhydroguide™ Pure Fused Silica Core/ Fluorine Doped Silica Cladding - Step Index Multimode
Wavelength: VIS-IR (Low OH): 300 nm - 2400 nm



UniClad All Silica Fiber

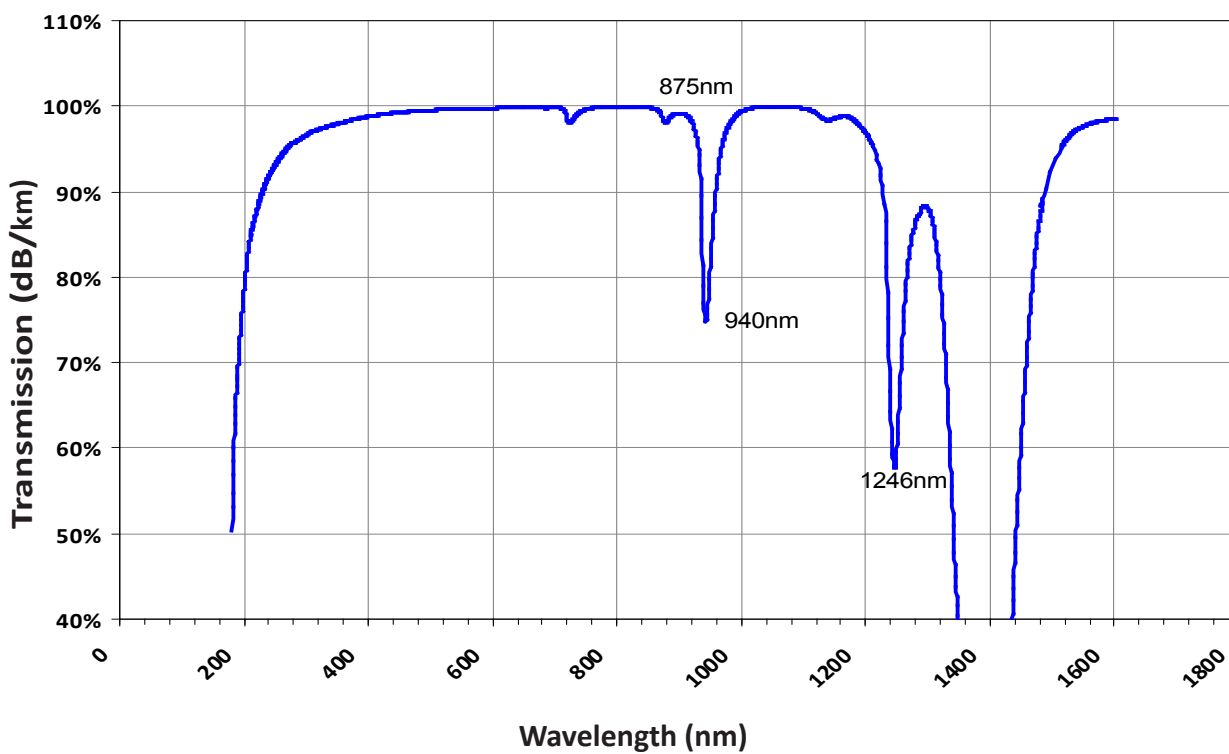
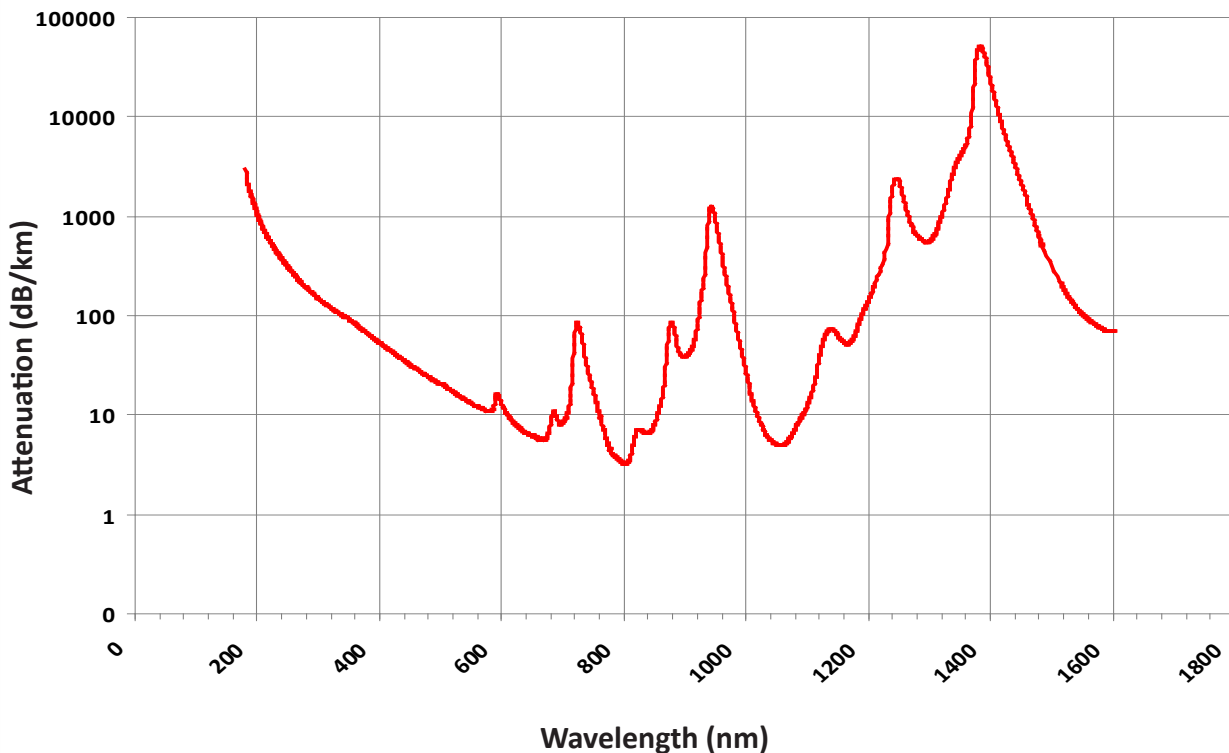
Fiber Type:
Step Index
Multimode

Fiber Type: Superguide™ Pure Fused Silica Core/ Fluorine Doped Silica Cladding - Step Index Multimode
Wavelength: UV-VIS (High OH): 190 nm - 1250 nm

Fiber Construction:
Silica Core/
Silica Clad/
Polymer Coated

Trade Name:
UniClad™
Anhydroguide™
VIS-IR (Low OH)
300nm – 2400nm

UniClad™
Superguide™
UV-VIS (High OH)
190nm – 1250nm



Fiber Type:
Step Index
Multimode

Fiber

Construction:
Silica Core/
Silica Clad/
Polymer Coated

Trade Name:
UniClad™

Anhydroguide™
VIS-IR (Low OH)
300nm – 2400nm

UniClad™
Superguide™
UV-VIS (High OH)
190nm – 1250nm

Nylon Coating

Temperature: -40°C to +100°C / -40°F to + 212°F

Fiber Type: Anhydroguide™ Pure Fused Silica Core/ Fluorine Doped Silica Cladding - Step Index Multimode

Wavelength: VIS-IR (Low OH): 300 nm - 2400 nm

Numerical Aperture (NA):

Standard: 0.20 ± 0.02 (Full acceptance Angle 23°) - Prefix AFR

Proof Test: 100 KPSI 4-Axis Bend Test

Product Code	Core Diameter (µm)	Doped Cladding Diameter (µm)	Un-Doped Cladding Diameter (µm)	Silicone Buffer Diameter (µm)	Coating Diameter (µm)	Bend Radius Short Term/ Long Term (mm)
AFR100/140/500/780/1300N	100 ± 2	140 ± 3	500 ± 10	780 ± 23	1300 ± 65	≥ 50/100
AFR200/280/500/780/1300N	200 ± 4	280 ± 6	500 ± 10	780 ± 23	1300 ± 65	≥ 50/100
AFR300/500/780/1300N	300 ± 6	500 ± 10	N/A	780 ± 23	1300 ± 65	≥ 50/100
AFR400/500/780/1300N	400 ± 8	500 ± 10	N/A	780 ± 23	1300 ± 65	≥ 50/100
AFR600/750/1100/1700N	600 ± 12	750 ± 15	N/A	1100 ± 33	1700 ± 85	≥ 75/150
AFR800/1000/1320/2000N	800 ± 16	1000 ± 20	N/A	1320 ± 40	2000 ± 100	≥ 100/200

Nylon Coating

Temperature: -40°C to +100°C / -40°F to + 212°F

Fiber Type: Superguide™ Pure Fused Silica Core/ Fluorine Doped Silica Cladding - Step Index Multimode

Wavelength: UV-VIS (High OH): 190 nm - 1250 nm

Numerical Aperture (NA):

Standard: 0.20 ± 0.02 (Full acceptance Angle 23°) - Prefix SFR

Proof Test: 100 KPSI 4-Axis Bend Test

Product Code	Core Diameter (µm)	Doped Cladding Diameter (µm)	Un-Doped Cladding Diameter (µm)	Silicone Buffer Diameter (µm)	Coating Diameter (µm)	Bend Radius Short Term/ Long Term (mm)
SFR100/140/500/780/1300N	100 ± 2	140 ± 3	500 ± 10	780 ± 23	1300 ± 65	≥ 50/100
SFR200/280/500/780/1300N	200 ± 4	280 ± 6	500 ± 10	780 ± 23	1300 ± 65	≥ 50/100
SFR300/500/780/1300N	300 ± 6	500 ± 10	N/A	780 ± 23	1300 ± 65	≥ 50/100
SFR400/500/780/1300N	400 ± 8	500 ± 10	N/A	780 ± 23	1300 ± 65	≥ 50/100
SFR600/750/1100/1700N	600 ± 12	750 ± 15	N/A	1100 ± 33	1700 ± 85	≥ 75/150
SFR800/1000/1320/2000N	800 ± 16	1000 ± 20	N/A	1320 ± 40	2000 ± 100	≥ 100/200