

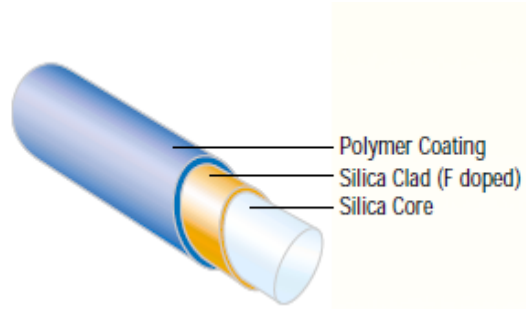
**Fiber Type:**  
Step Index  
Multimode

**Fiber**

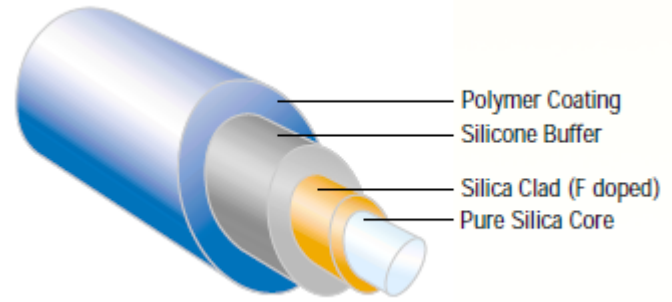
**Construction:**  
Silica Core/  
Silica Clad/  
Polymer Coated

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

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



**Polyimide or Acrylate Coated**



**Nylon or Tefzel Coated**

Fiberguide’s Silica Core/Silica Clad/Polymer Coated fibers are primarily used in photonics applications where individual or bundled large core (> 50µm) multimode fibers are needed for the transmission of optical energy. These fibers can be coated with a variety of polymers or metalized, for extreme temperature performance.

**FIBER SPECIFICATIONS**

- Step Index Multimode
- Pure Fused Silica Core / Fluorine Doped Silica Cladding
- Silicone Buffer Coating Layer for Nylon & Tefzel Outer Coatings
- Core / Cladding Sizes: 50/125µm to 1500/1650µm
- Numerical Aperture (NA): 0.12, 0.22, 0.26

- 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
  - Standard Core/Clad Ratio: 1.1
  - Available Core/Clad Ratios: 1.2, 1.4 and 2.5
  - Thermocoat (Polyimide), Nylon, Tefzel certified to NAMS Class VI

**APPLICATIONS**

- Bio-Analytical Sensing
- Medical Laser
- Aerospace/Defense
- Spectroscopy
- Nuclear Plasma Sensing
- Industrial Laser Systems

**All Silica Fiber  
(Low & High OH)  
Anhydroguide™ (AFS) & Superguide™ (SFS)**

**Fiber Type:**  
Step Index  
Multimode

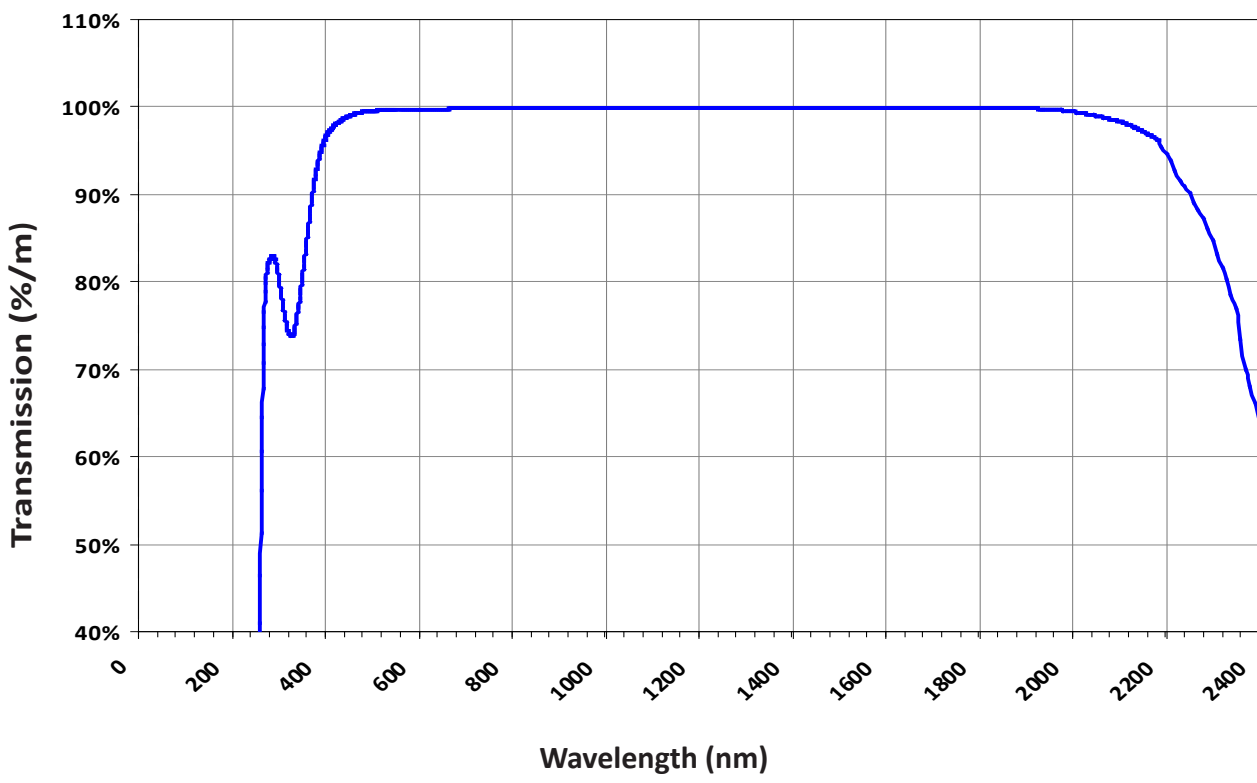
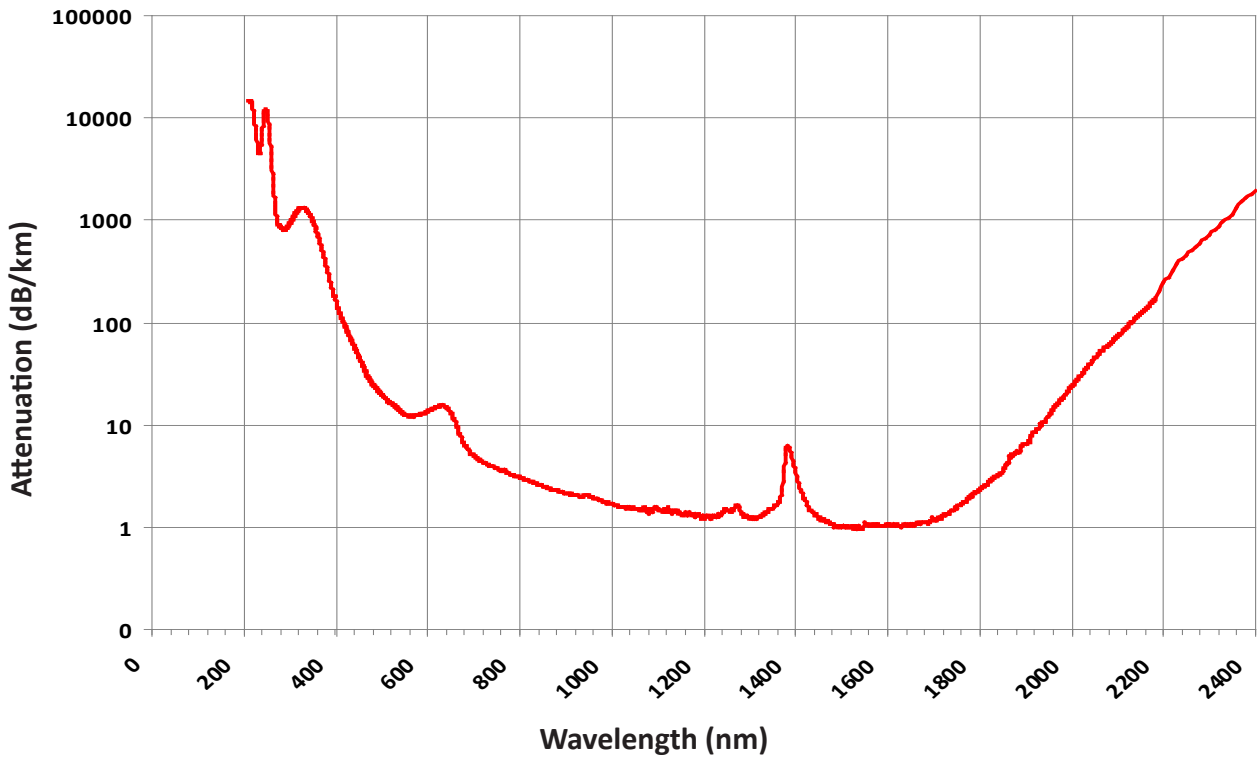
**Fiber Type:** Anhydroguide™ Pure Fused Silica Core/ Fluorine Doped Silica Cladding - Step Index Multimode  
**Wavelength:** VIS-IR (Low OH): 300 nm - 2400 nm

**Fiber**

**Construction:**  
Silica Core/  
Silica Clad/  
Polymer Coated

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

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



**All Silica Fiber  
(Low & High OH)  
Anhydroguide™ (AFS) & Superguide™ (SFS)**

**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:**

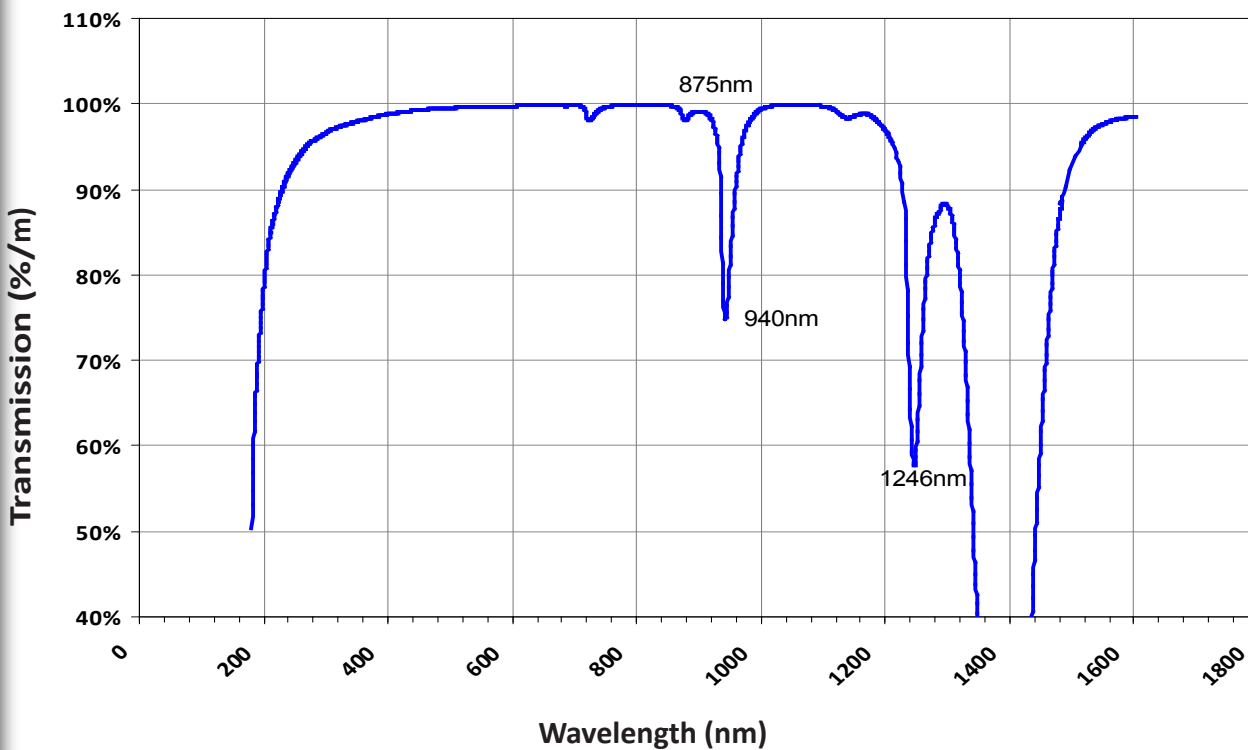
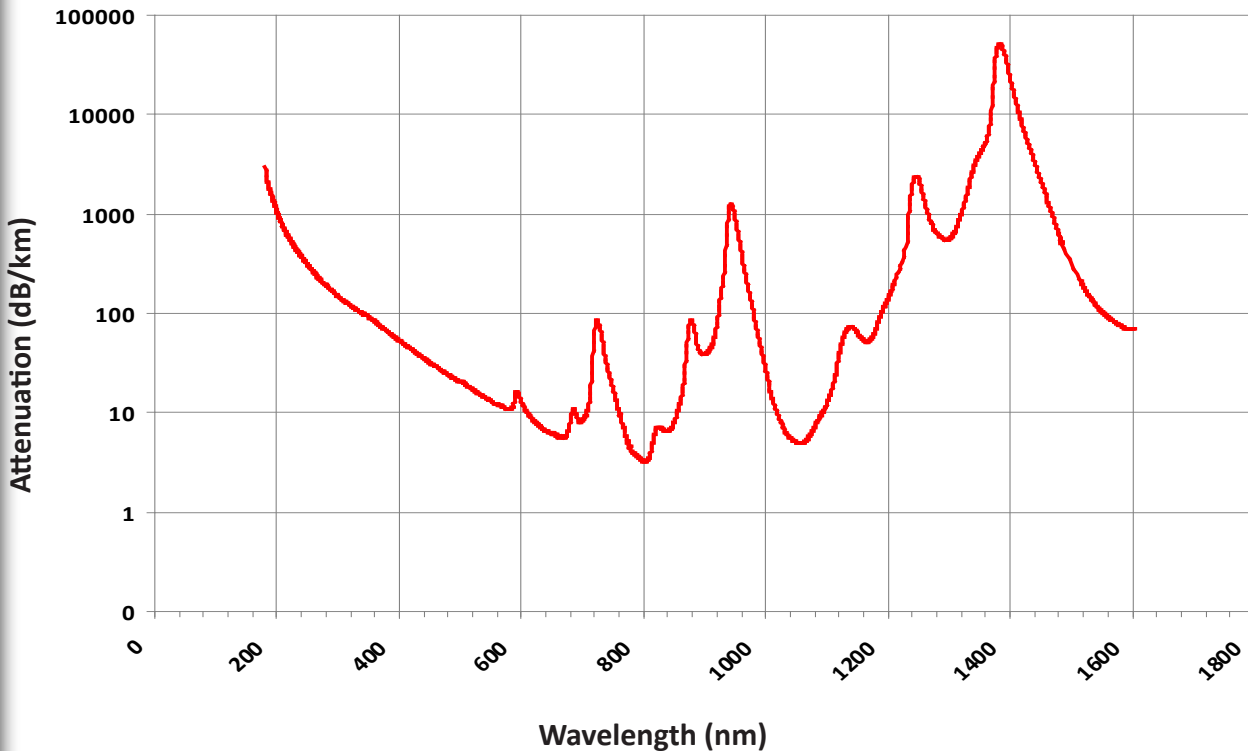
Silica Core/  
Silica Clad/  
Polymer Coated

**Trade Name:**

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

Superguide™

UV-VIS (High OH)  
190nm – 1250nm



**Fiber Type:**  
Step Index  
Multimode

**Fiber Construction:**  
Silica Core/  
Silica Clad/  
Polymer Coated

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

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

| Index of Refraction (IOR) @ 633 nm  |          |                          |       |       |
|---|----------|--------------------------|-------|-------|
| Fiber Type  | Layer    | Numerical Aperature (NA) |       |       |
|   |          | 0.12                     | 0.22  | 0.26  |
| Anhydroguide™ Pure Fused Silica Core/ Fluorine Doped Silica Cladding - Step Index Multimode | Core     | 1.457                    | 1.457 | 1.457 |
|   | Cladding | 1.452                    | 1.440 | 1.434 |
| Superguide™ Pure Fused Silica Core/ Fluorine Doped Silica Cladding - Step Index Multimode   | Core     | 1.457                    | 1.457 | 1.457 |
|   | Cladding | 1.452                    | 1.439 | 1.434 |

| Acrylate Coating   |                    |                        |                               |                       |  |
|--|--------------------|------------------------|-------------------------------|-----------------------|--|
| Temperature: -40°C to +85°C / -40°F to + 185°F   |                    |                        |                               |                       |  |
| <b>Fiber Type:</b> Anhydroguide™ Pure Fused Silica Core/ Fluorine Doped Silica Cladding - Step Index Multimode   |                    |                        |                               |                       |  |
| <b>Wavelength:</b> VIS-IR (Low OH): 300 nm - 2400 nm   |                    |                        |                               |                       |  |
| <b>Numerical Aperture (NA):</b><br>Standard: 0.22 ± 0.02 (Full acceptance Angle 25°) - Prefix AFS (Shown Below)<br>Low: 0.12 ± 0.02 (Full Acceptance Angle 14°) - Prefix AFM<br>High: 0.26 ± 0.02 (Full Acceptance Angle 30°) - Prefix AFH |                    |                        |                               |                       |  |
| <b>Proof Test:</b> 100 KPSI 4-Axis Bend Test   |                    |                        |                               |                       |  |
| Product Code   | Core Diameter (µm) | Cladding Diameter (µm) | Silicone Buffer Diameter (µm) | Coating Diameter (µm) | Bend Radius Short Term/ Long Term (mm) |
| AFS50/125/250Y   | 50 ± 2             | 125 + 1/-3             | N/A                           | 250 ± 12.5            | ≥ 13/25                                |
| AFS100/140/250Y  | 100 ± 2            | 140 + 1/-3             | N/A                           | 250 ± 12.5            | ≥ 14/28                                |
| AFS105/125/250Y  | 105 ± 2            | 125 + 1/-3             | N/A                           | 250 ± 12.5            | ≥ 13/25                                |
| AFS200/220/320Y  | 200 ± 4            | 220 ± 4                | N/A                           | 320 ± 16              | ≥ 22/44                                |

| Acrylate Coating   |                    |                        |                               |                       |  |
|--|--------------------|------------------------|-------------------------------|-----------------------|--|
| Temperature: -40°C to +85°C / -40°F to + 185°F   |                    |                        |                               |                       |  |
| <b>Fiber Type:</b> Superguide™ Pure Fused Silica Core/ Fluorine Doped Silica Cladding - Step Index Multimode   |                    |                        |                               |                       |  |
| <b>Wavelength:</b> UV-VIS (High OH): 190 nm - 1250 nm  |                    |                        |                               |                       |  |
| <b>Numerical Aperture (NA):</b><br>Standard: 0.22 ± 0.02 (Full acceptance Angle 25°) - Prefix SFS (Shown Below)<br>Low: 0.12 ± 0.02 (Full Acceptance Angle 14°) - Prefix SFM<br>High: 0.26 ± 0.02 (Full Acceptance Angle 30°) - Prefix SFH |                    |                        |                               |                       |  |
| <b>Proof Test:</b> 100 KPSI 4-Axis Bend Test   |                    |                        |                               |                       |  |
| Product Code   | Core Diameter (µm) | Cladding Diameter (µm) | Silicone Buffer Diameter (µm) | Coating Diameter (µm) | Bend Radius Short Term/ Long Term (mm) |
| SFS50/125/250Y   | 50 ± 2             | 125 + 1/-3             | N/A                           | 250 ± 12.5            | ≥ 13/25                                |
| SFS100/140/250Y  | 100 ± 2            | 140 + 1/-3             | N/A                           | 250 ± 12.5            | ≥ 14/28                                |
| SFS105/125/250Y  | 105 ± 2            | 125 + 1/-3             | N/A                           | 250 ± 12.5            | ≥ 13/25                                |
| SFS200/220/320Y  | 200 ± 4            | 220 ± 4                | N/A                           | 320 ± 16              | ≥ 22/44                                |

## All Silica Fiber (Low & High OH) Anhydroguide™ (AFS) & Superguide™ (SFS)

**Fiber Type:**  
Step Index  
Multimode

**Fiber**

**Construction:**  
Silica Core/  
Silica Clad/  
Polymer Coated

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

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

### Thermocoat Coating (Polyimide)

Temperature: -190°C to +350°C / -310°F to + 662°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: 0.22 ± 0.02 (Full acceptance Angle 25°) - Prefix AFS (Shown Below)

Low: 0.12 ± 0.02 (Full Acceptance Angle 14°) - Prefix AFM

High: 0.26 ± 0.02 (Full Acceptance Angle 30°) - Prefix AFH

**Proof Test:** 50 KPSI 4-Axis Bend Test

| Product Code    | Core Diameter (µm) | Cladding Diameter (µm) | Silicone Buffer Diameter (µm) | Coating Diameter (µm) | Bend Radius Short Term/ Long Term (mm) |
|-----------------|--------------------|------------------------|-------------------------------|-----------------------|--|
| AFS50/125/145T  | 50 ± 2             | 125 + 1/-3             | N/A                           | 145 ± 5               | ≥ 13/25                                |
| AFS100/110/130T | 100 ± 2            | 110 ± 2.2              | N/A                           | 130 ± 5               | ≥ 11/22                                |
| AFS100/120/140T | 100 ± 2            | 120 ± 2.4              | N/A                           | 140 ± 5               | ≥ 12/24                                |
| AFS100/140/165T | 100 ± 2            | 140 + 1/-3             | N/A                           | 165 ± 5               | ≥ 14/28                                |
| AFS105/125/145T | 105 ± 2            | 125 + 1/-3             | N/A                           | 145 ± 5               | ≥ 13/25                                |
| AFS200/220/245T | 200 ± 4            | 220 ± 4.4              | N/A                           | 245 ± 5               | ≥ 22/44                                |
| AFS300/330/370T | 300 ± 6            | 330 ± 6.6              | N/A                           | 370 ± 10              | ≥ 33/66                                |
| AFS400/440/480T | 400 ± 8            | 440 ± 8.8              | N/A                           | 480 ± 10              | ≥ 44/88                                |
| AFS600/660/710T | 600 ± 12           | 660 ± 13.2             | N/A                           | 710 ± 15              | ≥ 66/132                               |

### Thermocoat Coating (Polyimide)

Temperature: -190°C to +350°C / -310°F to + 662°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: 0.22 ± 0.02 (Full acceptance Angle 25°) - Prefix SFS (Shown Below)

Low: 0.12 ± 0.02 (Full Acceptance Angle 14°) - Prefix SFM

High: 0.26 ± 0.02 (Full Acceptance Angle 30°) - Prefix SFH

**Proof Test:** 50 KPSI 4-Axis Bend Test

| Product Code    | Core Diameter (µm) | Cladding Diameter (µm) | Silicone Buffer Diameter (µm) | Coating Diameter (µm) | Bend Radius Short Term/ Long Term (mm) |
|-----------------|--------------------|------------------------|-------------------------------|-----------------------|--|
| SFS50/125/145T  | 50 ± 2             | 125 + 1/-3             | N/A                           | 145 ± 5               | ≥ 13/25                                |
| SFS100/110/130T | 100 ± 2            | 110 ± 2.2              | N/A                           | 130 ± 5               | ≥ 11/22                                |
| SFS100/120/140T | 100 ± 2            | 120 ± 2.4              | N/A                           | 140 ± 5               | ≥ 12/24                                |
| SFS100/140/165T | 100 ± 2            | 140 + 1/-3             | N/A                           | 165 ± 5               | ≥ 14/28                                |
| SFS105/125/145T | 105 ± 2            | 125 + 1/-3             | N/A                           | 145 ± 5               | ≥ 13/25                                |
| SFS200/220/245T | 200 ± 4            | 220 ± 4.4              | N/A                           | 245 ± 5               | ≥ 22/44                                |
| SFS300/330/370T | 300 ± 6            | 330 ± 6.6              | N/A                           | 370 ± 10              | ≥ 33/66                                |
| SFS400/440/480T | 400 ± 8            | 440 ± 8.8              | N/A                           | 480 ± 10              | ≥ 44/88                                |
| SFS600/660/710T | 600 ± 12           | 660 ± 13.2             | N/A                           | 710 ± 15              | ≥ 66/132                               |

## All Silica Fiber (Low & High OH) Anhydroguide™ (AFS) & Superguide™ (SFS)

**Fiber Type:**  
Step Index  
Multimode

**Fiber**

**Construction:**  
Silica Core/  
Silica Clad/  
Polymer Coated

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

**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: 0.22 ± 0.02 (Full acceptance Angle 25°) - Prefix AFS (Shown Below)

Low: 0.12 ± 0.02 (Full Acceptance Angle 14°) - Prefix AFM

High: 0.26 ± 0.02 (Full Acceptance Angle 30°) - Prefix AFH

**Proof Test:** 100 KPSI 4-Axis Bend Test

| Product Code            | Core Diameter (µm) | Cladding Diameter (µm) | Silicone Buffer Diameter (µm) | Coating Diameter (µm) | Bend Radius Short Term/ Long Term (mm) |
|-------------------------|--------------------|------------------------|-------------------------------|-----------------------|--|
| AFS50/125/225/295N      | 50 ± 2             | 125 + 1/-3             | 225 ± 6.75                    | 295 ± 14.75           | ≥ 13/25                                |
| AFS100/110/210/280N     | 100 ± 2            | 110 ± 2.2              | 210 ± 6.3                     | 280 ± 14              | ≥ 11/22                                |
| AFS100/140/240/310N     | 100 ± 2            | 140 + 1/-3             | 240 ± 7.2                     | 310 ± 15.5            | ≥ 14/28                                |
| AFS200/220/320/390N     | 200 ± 4            | 220 ± 4.4              | 320 ± 9.6                     | 390 ± 19.5            | ≥ 22/44                                |
| AFS300/330/430/530N     | 300 ± 6            | 330 ± 6.6              | 430 ± 12.9                    | 530 ± 26.5            | ≥ 33/66                                |
| AFS400/440/540/640N     | 400 ± 8            | 440 ± 8.8              | 540 ± 16.2                    | 640 ± 32              | ≥ 44/88                                |
| AFS600/660/760/860N     | 600 ± 12           | 660 ± 13.2             | 760 ± 22.8                    | 860 ± 43              | ≥ 66/132                               |
| AFS800/880/980/1080N    | 800 ± 16           | 880 ± 17.6             | 980 ± 29.4                    | 1080 ± 54             | ≥ 88/176                               |
| AFS1000/1100/1200/1300N | 1000 ± 20          | 1100 ± 22              | 1200 ± 36                     | 1300 ± 65             | ≥ 110/220                              |
| AFS1500/1650/1800/1950N | 1500 ± 30          | 1650 ± 33              | 1800 ± 54                     | 1950 ± 97.5           | ≥ 165/330                              |

### 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: 0.22 ± 0.02 (Full acceptance Angle 25°) - Prefix SFS (Shown Below)

Low: 0.12 ± 0.02 (Full Acceptance Angle 14°) - Prefix SFM

High: 0.26 ± 0.02 (Full Acceptance Angle 30°) - Prefix SFH

**Proof Test:** 100 KPSI 4-Axis Bend Test

| Product Code            | Core Diameter (µm) | Cladding Diameter (µm) | Silicone Buffer Diameter (µm) | Coating Diameter (µm) | Bend Radius Short Term/ Long Term (mm) |
|-------------------------|--------------------|------------------------|-------------------------------|-----------------------|--|
| SFS50/125/225/295N      | 50 ± 2             | 125 + 1/-3             | 225 ± 6.75                    | 295 ± 14.75           | ≥ 13/25                                |
| SFS100/110/210/280N     | 100 ± 2            | 110 ± 2.2              | 210 ± 6.3                     | 280 ± 14              | ≥ 11/22                                |
| SFS100/140/240/310N     | 100 ± 2            | 140 + 1/-3             | 240 ± 7.2                     | 310 ± 15.5            | ≥ 14/28                                |
| SFS200/220/320/390N     | 200 ± 4            | 220 ± 4.4              | 320 ± 9.6                     | 390 ± 19.5            | ≥ 22/44                                |
| SFS300/330/430/530N     | 300 ± 6            | 330 ± 6.6              | 430 ± 12.9                    | 530 ± 26.5            | ≥ 33/66                                |
| SFS400/440/540/640N     | 400 ± 8            | 440 ± 8.8              | 540 ± 16.2                    | 640 ± 32              | ≥ 44/88                                |
| SFS600/660/760/860N     | 600 ± 12           | 660 ± 13.2             | 760 ± 22.8                    | 860 ± 43              | ≥ 66/132                               |
| SFS800/880/980/1080N    | 800 ± 16           | 880 ± 17.6             | 980 ± 29.4                    | 1080 ± 54             | ≥ 88/176                               |
| SFS1000/1100/1200/1300N | 1000 ± 20          | 1100 ± 22              | 1200 ± 36                     | 1300 ± 65             | ≥ 110/220                              |
| SFS1500/1650/1800/1950N | 1500 ± 30          | 1650 ± 33              | 1800 ± 54                     | 1950 ± 97.5           | ≥ 165/330                              |

## All Silica Fiber (Low & High OH) Anhydroguide™ (AFS) & Superguide™ (SFS)

**Fiber Type:**  
Step Index  
Multimode

**Fiber**

**Construction:**  
Silica Core/  
Silica Clad/  
Polymer Coated

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

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

| Tefzel Coating   |                    |                        |                               |                       |  |
|--|--------------------|------------------------|-------------------------------|-----------------------|--|
| Temperature: -40°C to +200°C / -40°F to + 392°F  |                    |                        |                               |                       |  |
| <b>Fiber Type:</b> Anhydroguide™ Pure Fused Silica Core/ Fluorine Doped Silica Cladding - Step Index Multimode   |                    |                        |                               |                       |  |
| <b>Wavelength:</b> VIS-IR (Low OH): 300 nm - 2400 nm   |                    |                        |                               |                       |  |
| <b>Numerical Aperture (NA):</b><br>Standard: 0.22 ± 0.02 (Full acceptance Angle 25°) - Prefix AFS (Shown Below)<br>Low: 0.12 ± 0.02 (Full Acceptance Angle 14°) - Prefix AFM<br>High: 0.26 ± 0.02 (Full Acceptance Angle 30°) - Prefix AFH |                    |                        |                               |                       |  |
| <b>Proof Test:</b> 100 KPSI 4-Axis Bend Test   |                    |                        |                               |                       |  |
| Product Code   | Core Diameter (µm) | Cladding Diameter (µm) | Silicone Buffer Diameter (µm) | Coating Diameter (µm) | Bend Radius Short Term/ Long Term (mm) |
| AFS100/110/240/310Z  | 100 ± 2            | 110 ± 2.2              | 240 ± 7.2                     | 310 ± 15.5            | ≥ 11/22                                |
| AFS100/140/240/370Z  | 100 ± 2            | 140 ± 1/-3             | 240 ± 7.2                     | 370 ± 18.5            | ≥ 14/28                                |
| AFS200/220/320/480Z  | 200 ± 4            | 220 ± 4.4              | 320 ± 9.6                     | 480 ± 24              | ≥ 22/44                                |
| AFS300/330/480/720Z  | 300 ± 6            | 330 ± 6.6              | 480 ± 14.4                    | 720 ± 36              | ≥ 33/66                                |
| AFS400/440/590/880Z  | 400 ± 8            | 440 ± 8.8              | 590 ± 17.7                    | 880 ± 44              | ≥ 44/88                                |
| AFS600/660/810/1200Z   | 600 ± 12           | 660 ± 13.2             | 810 ± 24.3                    | 1200 ± 60             | ≥ 66/132                               |
| AFS800/880/1030/1550Z  | 800 ± 16           | 880 ± 17.6             | 1030 ± 30.9                   | 1550 ± 77.5           | ≥ 88/176                               |
| AFS1000/1100/1250/1850Z  | 1000 ± 20          | 1100 ± 22              | 1250 ± 37.5                   | 1850 ± 92.5           | ≥ 110/220                              |
| AFS1500/1650/1800/2750Z  | 1500 ± 30          | 1650 ± 33              | 1800 ± 58.5                   | 2750 ± 137.5          | ≥ 165/330                              |

| Tefzel Coating   |                    |                        |                               |                       |  |
|--|--------------------|------------------------|-------------------------------|-----------------------|--|
| Temperature: -40°C to +200°C / -40°F to + 392°F  |                    |                        |                               |                       |  |
| <b>Fiber Type:</b> Superguide™ Pure Fused Silica Core/ Fluorine Doped Silica Cladding - Step Index Multimode   |                    |                        |                               |                       |  |
| <b>Wavelength:</b> UV-VIS (High OH): 190 nm - 1250 nm  |                    |                        |                               |                       |  |
| <b>Numerical Aperture (NA):</b><br>Standard: 0.22 ± 0.02 (Full acceptance Angle 25°) - Prefix SFS (Shown Below)<br>Low: 0.12 ± 0.02 (Full Acceptance Angle 14°) - Prefix SFM<br>High: 0.26 ± 0.02 (Full Acceptance Angle 30°) - Prefix SFH |                    |                        |                               |                       |  |
| <b>Proof Test:</b> 100 KPSI 4-Axis Bend Test   |                    |                        |                               |                       |  |
| Product Code   | Core Diameter (µm) | Cladding Diameter (µm) | Silicone Buffer Diameter (µm) | Coating Diameter (µm) | Bend Radius Short Term/ Long Term (mm) |
| SFS100/110/240/310Z  | 100 ± 2            | 110 ± 2.2              | 240 ± 7.2                     | 310 ± 15.5            | ≥ 11/22                                |
| SFS100/140/240/370Z  | 100 ± 2            | 140 ± 1/-3             | 240 ± 7.2                     | 370 ± 18.5            | ≥ 14/28                                |
| SFS200/220/320/480Z  | 200 ± 4            | 220 ± 4.4              | 320 ± 9.6                     | 480 ± 24              | ≥ 22/44                                |
| SFS300/330/480/720Z  | 300 ± 6            | 330 ± 6.6              | 480 ± 14.4                    | 720 ± 36              | ≥ 33/66                                |
| SFS400/440/590/880Z  | 400 ± 8            | 440 ± 8.8              | 590 ± 17.7                    | 880 ± 44              | ≥ 44/88                                |
| SFS600/660/810/1200Z   | 600 ± 12           | 660 ± 13.2             | 810 ± 24.3                    | 1200 ± 60             | ≥ 66/132                               |
| SFS800/880/1030/1550Z  | 800 ± 16           | 880 ± 17.6             | 1030 ± 30.9                   | 1550 ± 77.5           | ≥ 88/176                               |
| SFS1000/1100/1250/1850Z  | 1000 ± 20          | 1100 ± 22              | 1250 ± 37.5                   | 1850 ± 92.5           | ≥ 110/220                              |
| SFS1500/1650/1800/2750Z  | 1500 ± 30          | 1650 ± 33              | 1800 ± 58.5                   | 2750 ± 137.5          | ≥ 165/330                              |