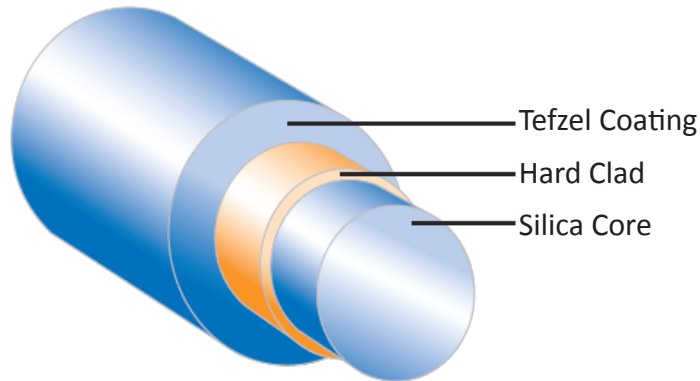


Fiber Type:
Step Index
Multimode

Fiber Construction:
Hard Clad Silica

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

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



Hard Clad Fiber

Fiberguide's SPCH & APCH fibers feature a hard polymer cladding instead of a silica cladding. The hard cladding enables a higher NA (0.37) than a silica cladding, and reduces cost. Hard Clad fibers are the ideal choice for disposable medical products.

FIBER SPECIFICATIONS

- Step Index Multimode
- Pure Fused Silica Core / Hard Polymer Cladding
- Core / Cladding Sizes: 200/300µm to 1500/1550µm
- Numerical Aperture (NA): 0.37
See Note
- Recommended Bend Radius:
 - o Short Term: 100 X Core Diameter
 - o Long Term: 200 X Core DiameterPlease 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
- Tefzel certified to NAMS Class VI

Applications:

- Bio-Analytical Sensing
- Medical Laser
- Dental Curing
- Spectroscopy
- Nuclear Plasma Sensing
- Photodynamic Therapy

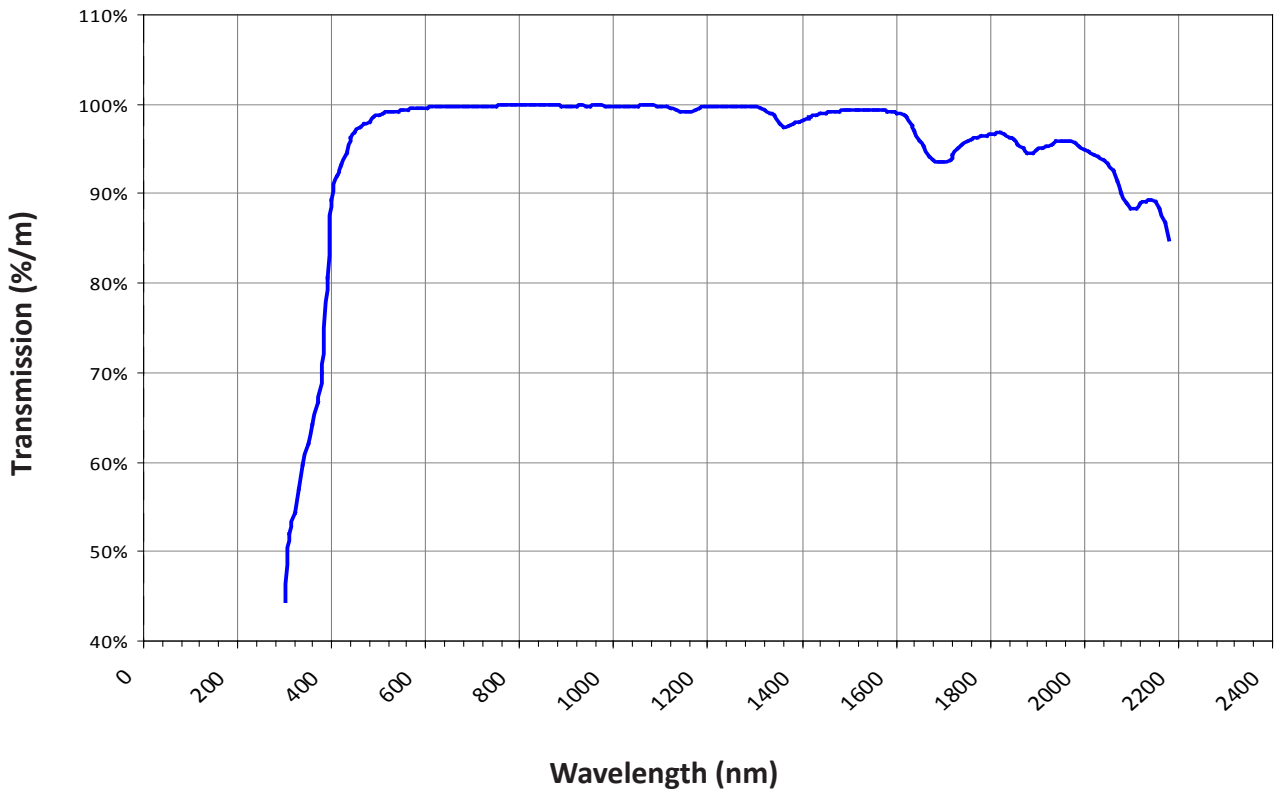
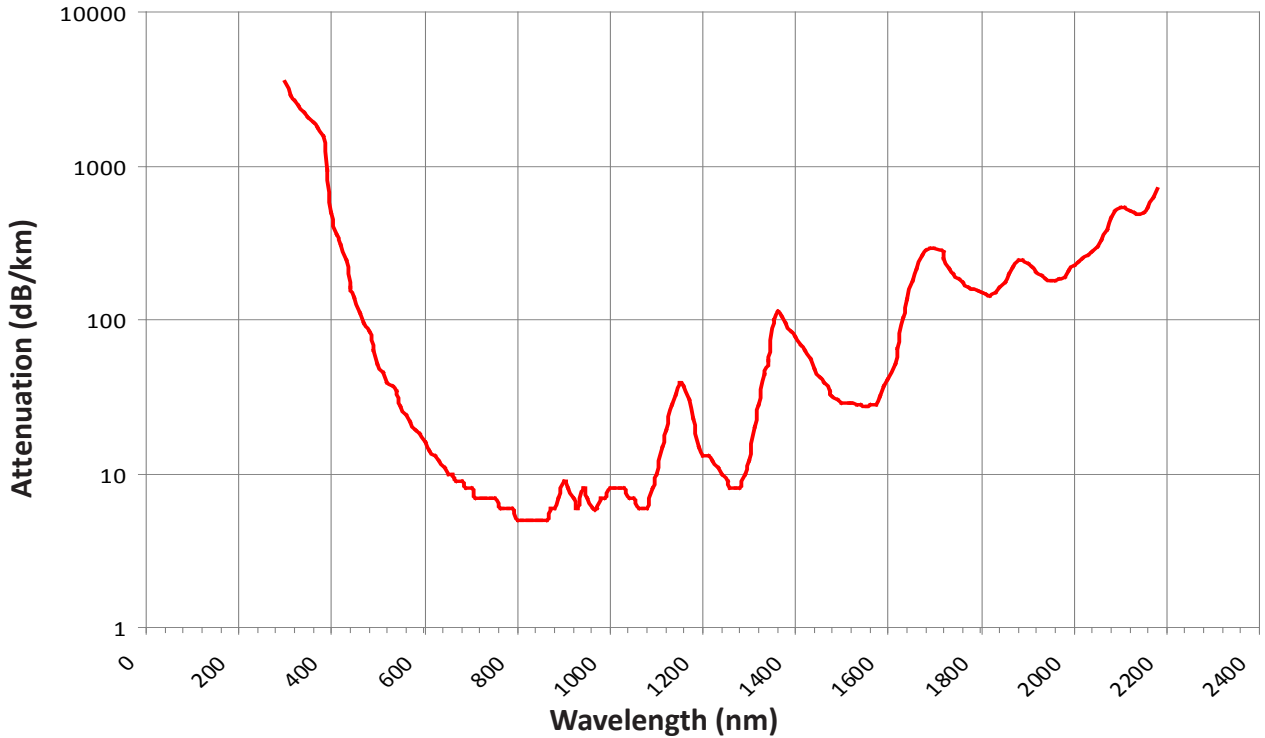
Fiber Type:
Step Index
Multimode

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

Fiber Construction:
Hard Clad Silica

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

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



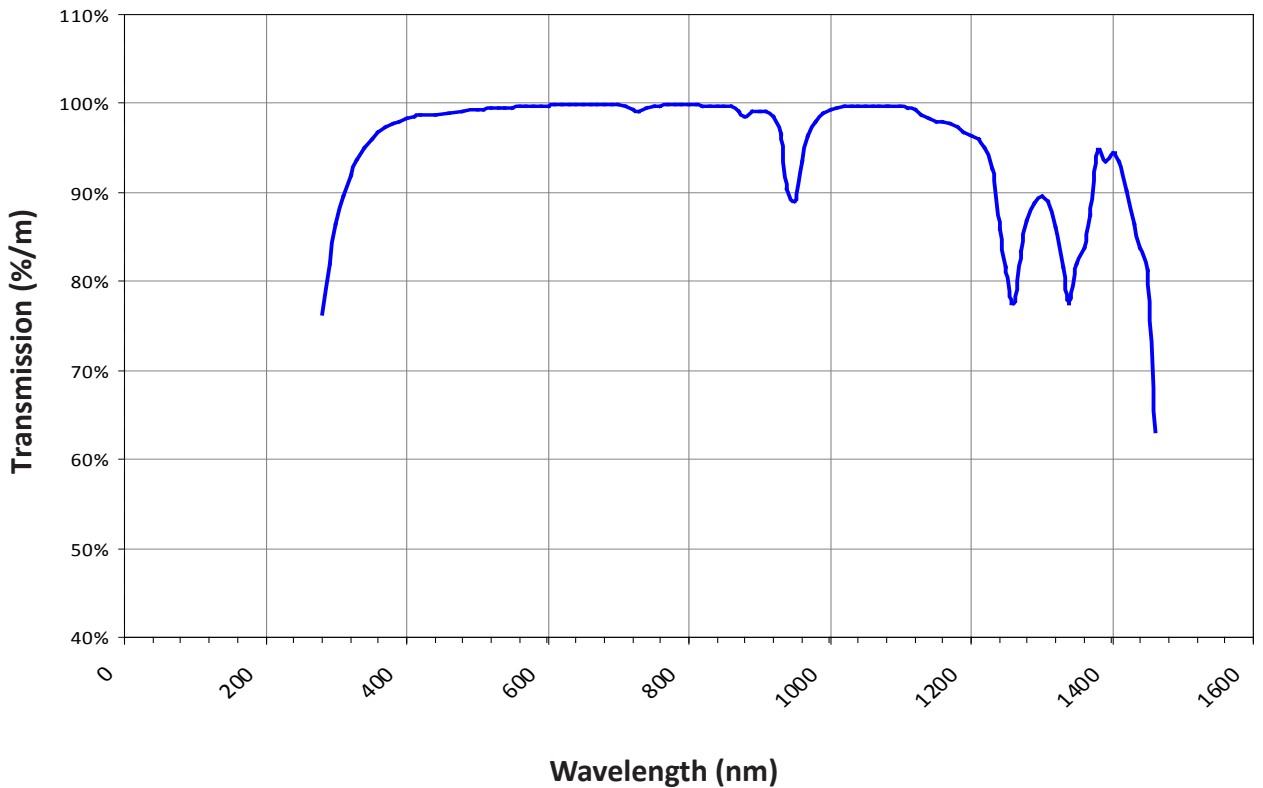
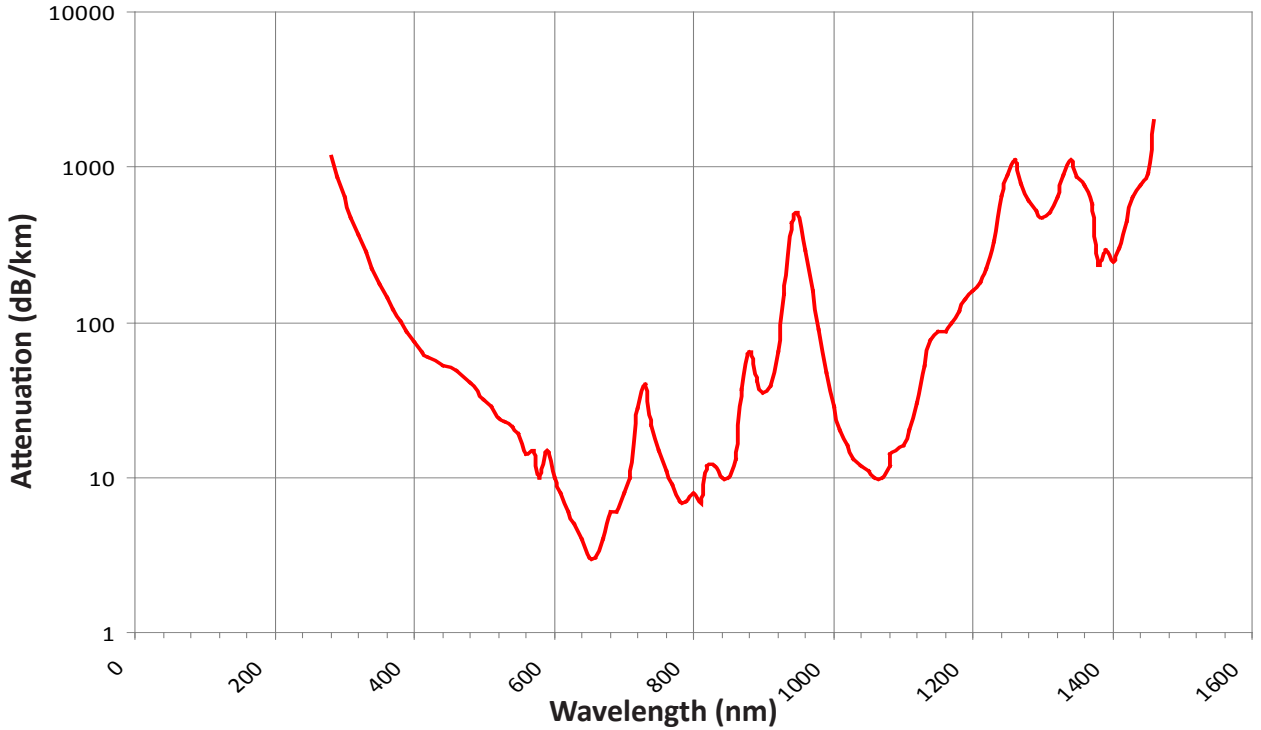
Fiber Type:
Step Index
Multimode

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

Fiber Construction:
Hard Clad Silica

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

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



Hard Clad Fiber (Low & High OH) Anhydroguide™ (APCH) & Superguide™ (SPCH)

Fiber Type:
Step Index
Multimode

Fiber Construction:
Hard Clad Silica

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 Aperture (NA)
		0.37
Anhydroguide™ Pure Fused Silica Core/Hard Polymer Cladding - Step Index Multimode	Core	1.457
	Cladding	1.410
Superguideguide™ Pure Fused Silica Core/Hard Polymer Cladding - Step Index Multimode	Core	1.457
	Cladding	1.410

Tefzel Coating (Natural)

Temperature: -40°C to +125°C / -40°F to + 257°F

Fiber Type: Anhydroguide™ Pure Fused Silica Core/Hard Polymer Cladding - Step Index Multimode

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

Numerical Aperture (NA):

Standard: 0.37 ± 0.02 (Full acceptance Angle 46°) - Prefix APCH or SPCH

Proof Test: 100 KPSI 4-Axis Bend Test

Product Code	Core Diameter (µm)	Cladding Diameter (µm)	Coating Diameter (µm)	Bend Radius Short Term/ Long Term (mm)
APCH200/230/500Z	200 ± 5	230 ± 5	500 ± 30	≥ 20/40
APCH300/330/650Z	300 ± 6	330 ± 10	650 ± 30	≥ 30/60
APCH400/430/730Z	400 ± 8	430 ± 10	730 ± 30	≥ 40/80
APCH600/630/1040Z	600 ± 12	630 ± 10	1040 ± 50	≥ 60/120
APCH800/830/1040Z	800 ± 16	830 ± 10	1040 ± 62	≥ 80/160
APCH1000/1035/1400Z	1000 ± 20	1035 ± 15	1400 ± 70	≥ 100/200
APCH1500/1550/2000Z	1500 ± 35	1550 ± 31	2000 ± 100	≥ 150/300

Tefzel Coating (Natural)

Temperature: -40°C to +125°C / -40°F to + 257°F

Fiber Type: Superguide™ Pure Fused Silica Core/Hard Polymer Cladding - Step Index Multimode

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

Numerical Aperture (NA):

Standard: 0.37 ± 0.02 (Full acceptance Angle 46°) - Prefix APCH or SPCH

Proof Test: 100 KPSI 4-Axis Bend Test

Product Code	Core Diameter (µm)	Cladding Diameter (µm)	Coating Diameter (µm)	Bend Radius Short Term/ Long Term (mm)
SPCH200/230/500Z	200 ± 5	230 ± 5	500 ± 30	≥ 20/40
SPCH300/330/650Z	300 ± 6	330 ± 10	650 ± 30	≥ 30/60
SPCH400/430/730Z	400 ± 8	430 ± 10	730 ± 30	≥ 40/80
SPCH600/630/1040Z	600 ± 12	630 ± 10	1040 ± 50	≥ 60/120
SPCH800/830/1040Z	800 ± 16	830 ± 10	1040 ± 62	≥ 80/160
SPCH1000/1035/1400Z	1000 ± 20	1035 ± 15	1400 ± 70	≥ 100/200
SPCH1500/1550/2000Z	1500 ± 35	1550 ± 31	2000 ± 100	≥ 150/300

Hard Clad Fiber (Low & High OH) Anhydroguide™ (APCH) & Superguide™ (SPCH)

Fiber Type:
Step Index
Multimode

Fiber Construction:
Hard Clad Silica

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

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

Tefzel Coating (Blue)

Temperature: -40°C to +125°C / -40°F to + 257°F

Fiber Type: Anhydroguide™ Pure Fused Silica Core/Hard Polymer Cladding - Step Index Multimode

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

Numerical Aperture (NA):

Standard: 0.37 ± 0.02 (Full acceptance Angle 43°) - Prefix APCH or SPCH

Proof Test: 100 KPSI 4-Axis Bend Test

Product Code	Core Diameter (µm)	Cladding Diameter (µm)	Coating Diameter (µm)	Bend Radius Short Term/ Long Term (mm)
APCH200/230/500C	200 ± 5	230 ± 5	500 ± 30	≥ 20/40
APCH300/330/650C	300 ± 6	330 ± 10	650 ± 30	≥ 30/60
APCH400/430/730C	400 ± 8	430 ± 10	730 ± 30	≥ 40/80
APCH600/630/1040C	600 ± 12	630 ± 10	1040 ± 50	≥ 60/120
APCH800/830/1040C	800 ± 16	830 ± 10	1040 ± 62	≥ 80/160
APCH1000/1035/1400C	1000 ± 20	1035 ± 15	1400 ± 70	≥ 100/200
APCH1500/1550/2000C	1500 ± 35	1550 ± 31	2000 ± 100	≥ 150/300

Tefzel Coating (Blue)

Temperature: -40°C to +125°C / -40°F to + 257°F

Fiber Type: Superguide™ Pure Fused Silica Core/Hard Polymer Cladding - Step Index Multimode

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

Numerical Aperture (NA):

Standard: 0.37 ± 0.02 (Full acceptance Angle 43°) - Prefix APCH or SPCH

Proof Test: 100 KPSI 4-Axis Bend Test

Product Code	Core Diameter (µm)	Cladding Diameter (µm)	Coating Diameter (µm)	Bend Radius Short Term/ Long Term (mm)
SPCH200/230/500C	200 ± 5	230 ± 5	500 ± 30	≥ 20/40
SPCH300/330/650C	300 ± 6	330 ± 10	650 ± 30	≥ 30/60
SPCH400/430/730C	400 ± 8	430 ± 10	730 ± 30	≥ 40/80
SPCH600/630/1040C	600 ± 12	630 ± 10	1040 ± 50	≥ 60/120
SPCH800/830/1040C	800 ± 16	830 ± 10	1040 ± 62	≥ 80/160
SPCH1000/1035/1400C	1000 ± 20	1035 ± 15	1400 ± 70	≥ 100/200
SPCH1500/1550/2000C	1500 ± 35	1550 ± 31	2000 ± 100	≥ 150/300