

Fiber Optic Single Fiber Assemblies



Fiberguide offers standard single fiber assemblies for a wide range of applications including spectroscopy, industrial sensing, and low power laser light delivery. These are available with a variety of optical fibers, industry standard connectors, and packaged using several kinds of sheathing.

STANDARD SPECIFICATIONS

- Fiber Type: Step Index Multimode
- Core Sizes: 50 μ m, 100 μ m, 200 μ m, 300 μ m, 400 μ m, 600 μ m, 800 μ m, 1000 μ m, 1500 μ m
- Wavelengths: Standard OH: UV - Vis: 190nm – 1250nm / Low OH: Vis - IR: 300nm – 2400nm
- Numerical Aperture (NA): 0.22
- Connector Options: SMA905
- Sheathing Options: PVC Breakout (Furcation) Tubing, Stainless Steel Monocoil
- Standard Temperature Range: -40°C to +85°C / -40°F to +185°F
- Lengths: < 100 meters

Applications:

- Light transfer
- UV Lamps
- Spectroscopy
- Data Transmission
- Laser Delivery
- Remote Monitoring Applications

Fiber Optic Single Fiber Assemblies

SPECIFICATIONS:	
Optical Fiber Type	Step Index Multimode
Fiber Core/ Cladding Sizes (μm)	1:1.1 Ratio: 200/220, 300/330, 400/440, 600/660, 800/880, 1000/1100, 1500/1650 Other: 50/125, 100/140
Fiber Coating Type	Nylon
Numerical Aperature (NA)	0.22 \pm 0.02 (25° Full Acceptance Angle)
Operating Wavelength (λ)	High OH / Ultraviolet (UV) ~ Visible: λ = 190nm ~ 1250nm Low OH / Visible ~ Infrared (IR): λ = 300nm ~ 2400nm
Temperature Range	-40°C to +85°C / -40°F to + 185°F
Connector Type	Input Connector: SMA Output Connector: SMA, Cleaved End, Polished End, Cut End
Sheathing Type	None, Stainless Steel Monocoil, PVC Tubing

Customer Fiber Assembly Options

Fiberguide offers a wide range of custom single fiber assembly options, including custom core to cladding ratios (1:1.1, 1:1.2, 1:1.4, 1:2.5, single mode, graded index, and others), as well as our universal cladding fiber (UniClad, with a 500um cladding diameter) in addition to different jacketing options (Tefzel, Acrylate, Polyimide, and others), or our industry-leading high temperature jacketing solutions (Thermocoat, Aluminium, Vulcan Alloy, and Gold jacketed fiber assemblies for extreme environment applications up to 700 C with resistance to most acids, bases, and other hazardous conditions). Also available are 25 connector options, 10 sheathing options, and an entirely separate line of fiber assemblies designed to handle the high powers commonly found in industrial applications.

Please contact your Fiberguide sales representative for more information.

Fiber Optic Single Fiber Assemblies

ORDERING INFORMATION

PART NUMBER:

SP-01BB-XXXXXX-YYYSRR



AA - Input Connector	
01	905 Style SMA Connector

BB - Output Connector	
01	905 Style SMA Connector
13	Cleaved End
14	Polished End
15	Cut End

XXXXXX - Fiber Type				
Core / Cladding Size (um)	NA	Jacket Type	Wavelength Range	
			UV - VIS 190nm ~ 1250nm	VIS - IR 300nm ~ 2400nm
50/125	0.22	Nylon	Y5A5CN	Y5A5LN
100/140	0.22	Nylon	A1A4CN	A1A4LN
200/220	0.22	Nylon	A2A2CN	A2A2LN
300/330	0.22	Nylon	A3A2CN	A3A2LN
400/440	0.22	Nylon	A4A2CN	A4A2LN
600/660	0.22	Nylon	A6B2CN	A6A2LN
800/880	0.22	Nylon	A8B2CN	A8A2LN
1000/1100	0.22	Nylon	10A2CN	10A2LN
1500/1650	0.22	Nylon	15A2CN	15A2LN

YYY - Assembly Length	
YYY	Length in Meters: (YY.Y) Ex: 010 = 1.0 Meters 100 = 10.0 Meters 305 = 30.5 Meters

S - Sheathing	
X	None
A	Stainless Steel Square Lock Monocoil
D	PVC Tubing

RR - Anti-Reflective (AR) Coating	
BLANK	None
RR	Fiberguide offers a variety of AR Coatings. Please contact us for available options