

Fiberoptic Probes – Standard Dip/Absorption/Transmission

Applications:

- Pharmaceutical Dissolution
- On-line Process Control
- Laboratory Dip Spectroscopy
- Medical
- General Absorption Spectroscopic Measurements



RSOF's line of Dip Probes are developed specifically for use in a wide variety of absorption or transmittance applications. The standard probe also incorporates user interchangeable path length tips that allow these versatile probe to be used in a wide variety of general absorption and dip spectroscopy applications.

- Standard diameters 1/8" stepped up to 0.25" tip, 0.25" and 0.5" (custom diameters upon request)
- 200um, 400um and 600um core std. – Deep UV, UV/VIS & NIR

Design: RSOF's dip style process probes represent a significant leap forward in fiberoptic probe design and performance. RSOF probes are used in laboratory and industrial process environments. Our standard probes range in diameter from 0.5" down to 0.125", though larger "super hardened" probes (larger than 0.5") and "micro" probes with diameters under 1.5mm have been provided. For harsh environments probes can incorporate a wide variety of materials that are impervious to the intended environment.

Fiber Materials: RSOF fabricates probes using the highest quality silica core/silica clad fibers. These fibers have a standard NA of 0.22 and cover the wavelength range from 180nm to 2500nm. If other fiber material is required, please contact RSOF.

Materials: Standard probe materials are 316L SSTL, however if needed we can incorporate features such as sapphire windows, seals for high temperatures and pressures or chemical exposure. We can also include other exotic features such as welded, brazed or glass fritted components, and materials from Monel and Hastelloy C to machinable ceramics.

Environment: RSOF excels in our probe designs for a wide range of environments. Whether the installation environment is harsh or benign, RSOF has well over a century of aggregate experience in manufacturing the highest quality fiberoptic assemblies. We have been involved in projects where assemblies have been successfully deployed to the bottom of the ocean, into the harshest portions of nuclear reactors, and to the outer reaches of the Solar System. Whether you are trying to manage kilowatts of laser energy or trying to preserve individual photons, RSOF should be your first call when designing your assembly.

Quality: All of our products come with a standard 1 year warranty to protect against any defects in materials or workmanship. At RSOF – we stand behind our products 100%!

Fiberoptic Probes Standard

ORDERING/SPECIFYING INFORMATION

NOTES:

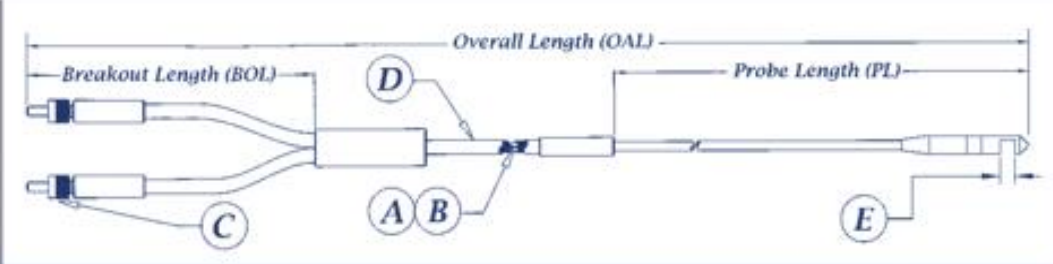
- Probes are often used in harsh environments so if you have any questions about the applicability of a probe for your environment, please contact an RSOF application specialist
- For any configuration that is not accommodated by the specifying system, please call RSOF
- To discuss high temperature or other environmental concerns, please call RSOF

FEATURES

- Highest throughput in the industry
- Robust design that minimizes stray light
- Transmission date with every probe
- Every seal checked
- All wetted materials tested for corrosion resistance
- Industry standard and custom terminations
- Interchangeable path length tips
- Highest grade UV materials
- Custom configurations available

These probe products can be ordered using the specifying system respresented on this page. If you have any trouble with the specifying system or have any special requirements not accommodated or shownm please contact RSOF

As with all RSOF products, virtually all characteristics of these assemblies may be modified to optimize the finished product for your specific application. Contact RSOF with your requirements.



The diagram shows a fiberoptic probe assembly with the following labels and dimensions:

- BOL**: Breakout Length
- OAL**: Overall Length
- PL**: Probe Length
- A**: Fiber Type
- B**: Fiber Size
- C**: Connector
- D**: Probe Diameter
- E**: Path Length

A) Fiber Type

- 1) Silica/Silica (UV/VIS)
- 2) Silica/Silica Low Solarization (UV)
- 3) Silica/Silica (VIS/NIR)
- 4) Polymer Clad Silica(UV/VIS High NA)
- 5) Polymer Clad Silica(VIS/NIR High NA)
- 6) Other _____

B) Fiber Size

- 1) 100µm
- 2) 200µm
- 3) 300µm
- 4) 400µm
- 6) 500µm
- 7) 600µm
- 8) Other _____

C) Connector

- 1) SMA
- 2) FC
- 3) ST
- 4) Other _____

D) Probe Diameter

- 1) Ø0.125"
- 2) Ø0.250"
- 3) Ø0.125" steep up to Ø0.250" (shown)
- 4) Ø0.500"
- 5) Other _____

E) Path Length*

- 1) 2mm
- 2) 5mm
- 3) 10mm
- 4) 20MM
- 5) Other _____

*Double the gap measurement at "E" for path length.

Specifying Method

AD - A B C D E X X (PL-in)

Example : AD-17133 06

AD- 1 7 1 3 3 0 6 (in)

Silica/Silica (UV/VIS), 600 micron , SMA connector, 6 in. probe length, 10mm path length

Please contact RSOF regarding replaceable path length tips, or environmental concerns.

Temperature Requirements: _____
 Pressure Requirements: _____
 Other Requirements: _____

R Specialty Optical Fibers LLC

5248 Olde Towne Road, Suite 12-13, Williamsburg VA 23188

757-645-2911

contact@rspecialtyopticalfibers.com