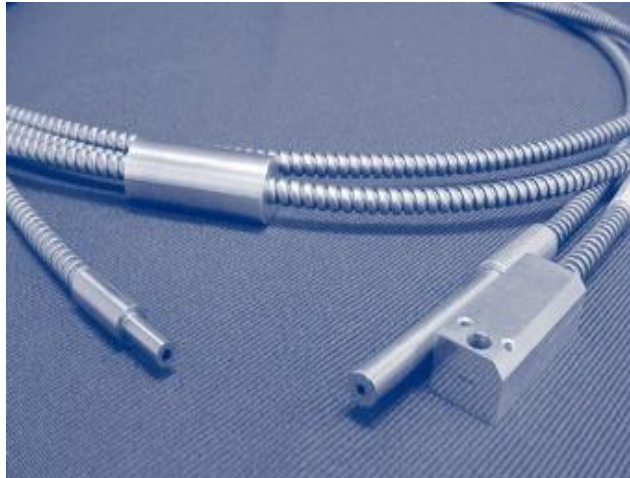


Fluorescence, Reflectance and General Sensing Probes

Applications:

- Cell Viability
- Presence/Absence Measurements
- Dye Markers
- Oil/Water Separators
- Active Pharmaceutical Ingredient (API) Measurements
- Biofouling Onset
- Surface Fluorescence
- Fluorescence of Liquids, Solids & Slurries



RSOF's Fluorescence, Reflectance & General Sensing probes are developed specifically to improve accuracy and sensitivity of your process measurements. The unique designs offered allow RSOF probes to be used in demanding environments for slurries, pastes, liquids and solids. As with all RSOF products, virtually all characteristics of these probes may be modified for optimization in your specific application.

Design: Represented in the photo above is a very common configuration. These assemblies however, are available in their simplest form of two fibers to their most complicated with multiple legs incorporating many aperture sizes and end termination types. Elaborate mapping configurations are also available.

Fiber Materials: RSOF fabricates prototype and production probes using all of the standard types of optical fibers. These include silica core/silica clad, silica core/polymer clad, borosilicate or leaded glass fiber, polymer optical fiber, or various exotic constructions. These fibers cover the Numerical Aperture range from 0.12NA to 0.55NA and the wavelength range from 180nm to 2500nm (although some exotic constructions will transmit well into the IR wavelengths). The fiber types can be step index or graded index, and multimode or singlemode.

End Fittings: 316L SSSL (standard), Hastelloy C, Monel, Titanium and other materials are a design option. RSOF can also provide any standard fiberoptic connector or end fitting for your probe design. We routinely fabricate custom end fittings to suit your specific custom or OEM application requirements.

Environment: RSOF excels in the design of probes 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.

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%!

Fluorescence, Reflectance and General Sensing Probes

ORDERING/SPECIFYING INFORMATION

NOTES:

- For any configuration that is not accommodated by the specifying system, please call RSOF
- To discuss high temperature, vacuum or other environmental concerns, please call RSOF
- Fiber transmission curves and other performance details can be provided as required.

FEATURES

- Excitation and signal collection fibers in a single probe end
- Virtually any configuration or "mapping" is possible
- Same unit can be used for several measuring techniques
- Signal collection fibers can easily be configured into a slit aperture to match certain instruments
- Available in deep UV, UV/VIS and VIS/NIR versions
- Various fiberoptic connectors, ferrules and end fittings are available

Fluorescence, reflectance or general sensing probes need to be specified with regard to their aperture shapes and sizes, lengths, fiber type and end terminations, mapping requirements, if any, and any specialty information, such as environmental concerns.

The specifying system is an effort to accommodate the most commonly ordered probes, but the possible configurations that fall under this product area are limited only by your imagination and the diverse applications that require fiberoptic assemblies. If the device you desire does not conform to the system below please give RSOF a call and one of our application specialists will help you.

The possible end terminations or end fittings are also unlimited. We have called out some standard fittings below but we are able to provide virtually any configuration.

Please call us to discuss your needs.

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.

<p>A Fiber Type</p> <p>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) Plastic (PMMA) 7) Other _____</p>	<p>B Fiber Size</p> <p>1) 50µm 6) 500µm 2) 100µm 7) 600µm 3) 200µm 8) 800µm 4) 300µm 9) 1,000µm 5) 400µm 10) Other _____</p>	<p>C Termination</p> <p>1) SMA-905 5) ST 2) D-ring SMA 6) Biconic 3) Std. Ferrule* 7) Ø0.230" Ferrule 4) FC 8) Ø10mm Ferrule 9) Other _____ 10) Other _____</p>	<p>D Jacketing</p> <p>1) PVC Tubing 2) PVC/Kevlar Protection Tubing 3) PVC Monocoil 4) Stainless Steel BX 5) Braided SSTL/PTFE Hose 6) Teflon Tubing 7) Other _____</p>
<p>E Probe Configuration</p> <p>1) 6 around 1 (Shove) 2) 18 around 1 3) 60 around 1 4) 2.2mm Round 5) Other _____</p>	<p>F Bundle Configuration</p> <p>1) Line (Shove) 2) Round 3) Other _____</p>	<div style="border: 1px solid black; padding: 5px;"> <p><i>RSOF offers a wide variety of assembly options. Please contact one of our technical sales associates to assist you in defining the configuration that really works in your application!</i></p> </div>	
<p>Temperature Requirements: _____</p> <p>Other Requirements: _____</p>			

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