



Specialty Photonics Division
Your Optical Fiber Solutions Partner

Application Specific Optical Fibers for Sensors

OFS Specialty Photonics Division (SPD) responds to customer-based sensor technology needs with Application Specific Optical Fibers (ASOF's). Building upon our heritage of customized optical fiber design and production, we combine expertise in glass and coatings engineering with flexible manufacturing to match the demanding environmental challenges our customers face.

The technology and markets for sensor fibers are very broad. OFS SPD specializes in optical fiber design and production tailored to the environment of specific applications. Our glass design and coating systems are purpose-built to satisfy harsh condition installations with long-term reliability. Whether you need a fully distributed intrinsic sensor fiber for oil and gas operations monitoring, a composite-ready fiber for aerospace structural health monitoring, a strain transducing cable design for pipeline operations, or a reduced diameter fiber for precision coil winding, OFS SPD can help.

Fibers for Distributed Sensing

The following table describes several of our many optical fiber alternatives for distributed sensing applications using Rayleigh, Raman and Brillouin techniques. Selection of fiber type is highly dependent upon application characteristics. We encourage you to call with details of your applications. We will assist you in selecting an existing product or discuss a custom solution to meet your needs.

Part Number	Product	Fiber Type	Coating Ø (µm)	Coating System	Temp Range (°C)	Common Uses
F13469	GE050	GI Multimode	155	Carbon/PYROCOAT®	-65/+300	DTS
F18961-02	GE050-SA	GI Multimode	250	Carbon/Silicone/Acrylate	-45/+160	DTS
F21976	GeoSil™ SM	Pure core Singlemode	155	PYROCOAT	-65/+300	DTS/DSS
F17792	GeoSil™ MM	SI Multimode	155	PYROCOAT	-65/+300	DTS

For detailed product specifications please visit www.SpecialtyPhotonics.com, email to info@SpecialtyPhotonics.com, call us toll free at 888.438.9936 (Canada and USA) or contact us directly at 860.678.0371

