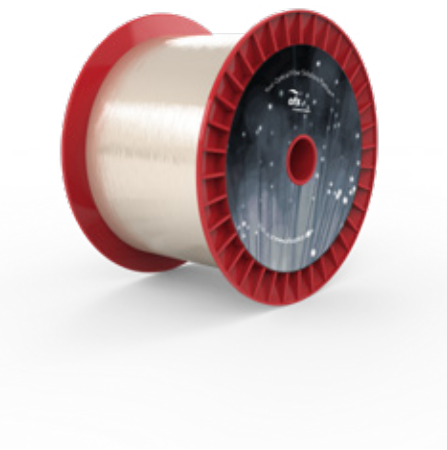
ofs
A Furukawa Company

GEO50 SA Geophysical Graded-Index Optical Fiber

P/N: F18961-02



Overview

GEO50 SA is designed for distributed temperature sensing applications and will function in the mid-temperature range up to 125 ºC for up to 20 years. The fiber is protected against moisture and hydrogen ingression across the temperature range.

The fiber's high-temperature, silicone/acrylate coating makes it resistant to water and chemicals, and cushions it for deployment and service in harsh environments.

Typical Applications

Datacom in Harsh Environments

Distributed Temperature Sensing

High-Temperature DTS

Local Area Networks with Elevated Temperature Requirements

GEO50 SA Geophysical Graded-Index Optical Fiber

P/N: F18961-02

Product Specifications	
Product Description	**GEO50 SA Geophysical Graded-Index Optical Fiber**
Physical Characteristics	
Coating Material	High-Temperature Silicone/Acrylate
Core Diameter	50 ± 3 µm
Cladding Diameter	125 ± 2 µm
Coating Diameter	250 ± 10 µm
Core/Clad Offset	≤ 3%
Core Non-Circularity	≤ 5%
Clad Non-Circularity	≤ 2.0%
Crimp & Cleave Compatible	No
Optical Characteristics	
Type	Multimode Graded-Index
Numerical Aperture	0.20
Bandwidth @ 1300 nm	≥ 400 MHz-km
Bandwidth @ 850 nm	≥ 400 MHz-km
Attenuation @ 1300 nm	≤ 2 dB/km
Attenuation @ 850 nm	≤ 4 dB/km
Coating/Buffer Descriptions	
Hermetic Carbon Layer	300 to 400 Å
Operating Temperature (Continuous)	-45 to +125 ºC
Mechanical and Environmental	
Short-Term Bend Radius	≥ 8 mm
Long-Term Bend Radius	≥ 10 mm
Proof Test Level	100 kpsi (0.689 GPa)
Order by Part Number	**F18961-02**
OPTIONS: Additional coatings, cabling, connectorization, metalization, other upgrades	
NOTES: OFS polyimide optical fibers are known to operate in environments up to 300 ºC. Performance is application dependent. Contact our Technical Sales department to discuss your specific application requirements.	

For additional information please contact your sales representative.

You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.

OFS Marketing Communications
Date: 11/19