

Specification Sheet

 Multimode Graded-Index
GeoFibers™


ofs
A Furukawa Company

These fibers are designed for distributed temperature sensing applications. In the mid-temperature range up to 125°C for up to 20 years, select Geo50™ SA. When temperature requirements are higher, up to 300°C, choose

Geo50. The fibers are protected against moisture and hydrogen ingress across the temperature range. They are resistant to water and chemicals, and cushioned for deployment and service in harsh environments.

	GE050	GE050 SA
Optical Properties		
Numerical aperture	0.20	0.20
Bandwidth	@ 850 nm @ 1310 nm	n/a n/a
Attenuation	@ 850 nm @ 1300 nm	≤4 dB/km ≤2 dB/km
Dimensions/Geometric Properties		
Core diameter	50 ± 3 μm	50 ± 3 μm
Clad diameter	125 ± 2 μm	125 ± 2 μm
Coating diameter	155 ± 5 μm	250 ± 10 μm
Cladding non-circularity	≤2%	≤2%
Core non-circularity	≤5%	≤5%
Core/cladding offset	≤3 μm	≤3%
Coating/Buffer Descriptions		
Hermetic carbon layer	300-400 Å	300-400 Å
Primary coating material	PYROCOAT®	Silicone
Secondary coating	none	High-Temperature Acrylate
Operating temperature	-65 to +300°C	-45 to +160°C
Short-term temperature excursions	up to 400°C (for very short-term soldering operations)	n/a
Mechanical and Testing Data		
Bend radius:	Short-term Long-term	≥8 mm ≥10 mm
Proof test level		100 kpsi (0.689 GPa)
Order by Part Number: Location A	F13469	F18961-02
Typical Applications	Distributed temperature sensing • High-temperature DTS • Datacom in harsh environments • Local area networks with elevated temperature requirements	

Options: Cabling, Connectorization, Metalization, Additional Coatings, Other Upgrades.

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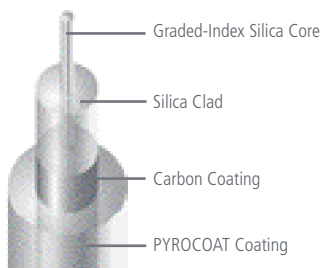
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Geo50 Fiber



Geo50 SA Fiber

