

# 1407 Doped Fiber

DF1008

## AG980H (5.66 dB/m)

The erbium doped fiber is designed for use in space applications, including amplifiers for inter-satellite communications and light sources for earth monitoring missions. AG980H has a unique trivalent core matrix optimized for high continuous operating time, as might be required in fiber optic gyroscopes (FOGs). This fiber builds on Fibercore's world class erbium doped fiber (EDF) expertise to deliver new technology to challenging environments.

### FEATURES

- High Duty Cycle Space Applications
- Optimized Trivalent Core Matrix for Space Operation
- High-efficiency Designs for max. Electrical-to-optical Power Conversion
- High-reliability Mechanical Design

### USE IN

- Amplifiers for Inter-satellite Communications
- Light Sources for Earth Observation Missions
- Light Sources and Amplifiers for Large Scale Sensing Missions

Cut-Off Wavelength	900 nm to 970 nm
Numerical Aperture	0.22 to 0.24
Absorption	5 dB/m to 7.1 dB/m @ 1531 nm
Numerical Aperture	0.21 to 0.23
Mode Field Diameter	5.5 $\mu$ m to 6.3 $\mu$ m @ 1550 nm
Attenuation @ 1200 nm	10 dB/km max.
Core Concentricity	0.3 $\mu$ m max.
Cladding Diameter	125.0 $\pm$ 1.0 $\mu$ m
Coating Diameter	245.0 $\pm$ 7 $\mu$ m
Coating Material	Dual Layer Acrylate
Operating Temperature	-55 $^{\circ}$ C to +85 $^{\circ}$ C
Proof Test	100 kpsi
PMD	0.005 ps/m max.