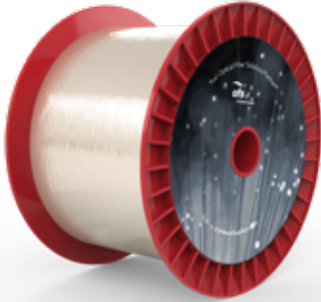


Polarization-Maintaining Raman Optical Fiber

P/N: 27313



Overview

OFS Raman Fiber is specifically designed for applications where a high Raman gain efficiency is required. The PM type is designed with a high index core and a small effective area. It is constructed using B203 doped stress rods for high birefringence.

With appropriate choice of pump wavelength, the standard Raman fiber can provide gain at any wavelength from 1200 to 1700 nm. Additionally, it offers bending performance, good splicing properties and low attenuation at the water peak.

Typical Applications

Discrete Broadband
Raman Amplifiers
Raman Lasers



A Furukawa Company

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Product Specifications	
Product Description	PM Raman Optical Fiber
Physical Characteristics	
Cladding Diameter	125 ± 1.0 µm
Coating Diameter	245 ± 5 µm
Clad Non-Circularity	< 2%
Core Eccentricity	< 0.6 µm
Optical Characteristics	
Type	Non-Standard
Cutoff Wavelength	< 1050 nm
Effective Area @ 1450 nm	16.1 ± 1.5 µm ²
Effective Area @ 1550 nm	18.7 ± 1.5 µm ²
Attenuation @ 1450 nm (Maximum)	0.58 dB/km
Attenuation @ 1550 nm (Maximum)	0.45 dB/km
Attenuation @ 1450 nm (Typical)	0.54 dB/km
Attenuation @ 1550 nm (Typical)	0.42 dB/km
Dispersion @ 1550 nm	-20 ps/(nm·km)
Dispersion Slope @ 1550 nm	0.02 ps/(nm ² ·km)
Raman Gain Efficiency @ 1551 nm	2.5 (W·km) ⁻¹
Extinction Ratio (L=100 m)	> 30 dB
PM or non-PM	PM
Peak Raman Gain Efficiency (Typical)	2.5 (W·km) ⁻¹ Using a Depolarized Pump at 1453 nm (W·km) ⁻¹
Birefringence (Typical)	2.8 x 10 ⁻⁴
Mechanical and Environmental	
Proof Test Level	≥ 200 kpsi (1.38 GPa)
Order by Part Number	27313

OPTIONS: Standard delivery is on a 105 x 265 mm spool. The fiber can be delivered on a 29 x 175 mm spool, optionally with standard fiber pigtailed spliced to it, and with a layer of protective silicone to protect against mechanical damage.

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.



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