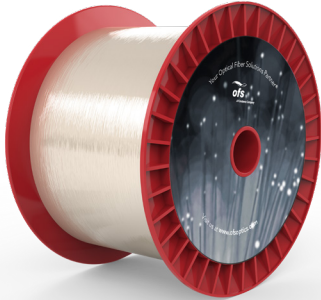


## Raman Optical Fiber 80 $\mu\text{m}$

P/N: 89845



### Overview

OFS Raman Fiber 80  $\mu\text{m}$  is specifically designed for applications where a high Raman gain efficiency is required. The fiber is designed with a high index core and a small effective area which yields a high Raman gain efficiency.

With appropriate choice of pump wavelength, the Raman fiber can provide gain at any wavelength from 1100 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

# Raman Optical Fiber 80 μm

P/N: 89845

Product Specifications	
Product Description	Raman Optical Fiber 80 μm
<b>Physical Characteristics</b>	
Cladding Diameter	80 ± 1.0 μm
Coating Diameter	165 ± 10 μm
Clad Non-Circularity	≤ 1.0%
Core Eccentricity	< 0.6 μm
<b>Optical Characteristics</b>	
Type	Non-Standard
Cutoff Wavelength	≤ 1050 nm
Effective Area @ 1450 nm	16.1 ± 1.5 μm <sup>2</sup>
Effective Area @ 1550 nm	18.7 ± 1.5 μm <sup>2</sup>
Attenuation @ 1450 nm (Maximum)	0.46 dB/km
Attenuation @ 1550 nm (Maximum)	0.36 dB/km
Attenuation @ 1450 nm (Typical)	0.43 dB/km
Attenuation @ 1550 nm (Typical)	0.33 dB/km
Polarization Mode Dispersion (PMD) (Typical)	0.05 ps/km <sup>0.5</sup>
Polarization Mode Dispersion (PMD) (Maximum)	<0.5 ps/km <sup>0.5</sup>
PM or non-PM	Non-PM
Peak Raman Gain Efficiency (Typical)	2.5 (W·km) <sup>-1</sup>
<b>Mechanical and Environmental</b>	
Operating Temperature	-40 to +85 °C
Proof Test Level	≥ 200 kpsi (1.38 GPa)
Order by Part Number	89845

For additional information please contact your sales representative.

You can also visit our website at [www.ofsoptics.com](http://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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