



A Furukawa Company

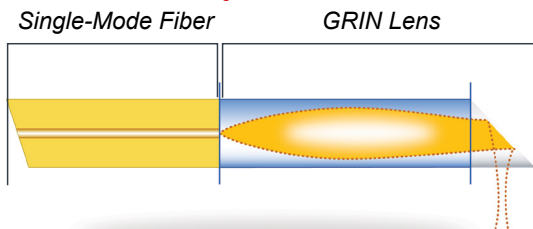
Solutions for Optical Coherence Tomography (OCT)

Optical Fiber and Probes

Biocompatible Coating Materials
Wide range of medical-grade coatings and buffers.

Customizable Connector

Custom Lens Assembly
Specific focal distances



Overview

OFS plays an important role in the expanding adoption of optical coherence tomography (OCT) using miniature optical fiber probes in such applications as cardiology, ophthalmology, and gastroenterology.

Product Description

OFS has created the technology platform to build high quality optical fiber probes with flexible tip lensing designs that allow beam shaping to meet specific focal distances.

Typical Probe Specifications

Operating Wavelength: 850, 980, 1310 nm and others

Internal Back Reflection: -60 dB or better

Return Loss: -20 to -70 dB

Outer Diameter: 100 - 400 μm

Spot Size: 20 - 60 μm

Working Distance: up to 1.5 mm

	Single-mode	Single-mode	Single-mode	Single-mode	Coreless
Operating Wavelength	850 nm	980 nm	1310 nm	1310 nm	All Wavelengths
Fiber Cutoff Wavelength	750 ± 50 nm	≤ 960 nm	1250 ± 60 nm	≤ 1260 nm	NA
Mode Field Diameter	6.0 ± 0.5 μm	5.0 ± 0.3 μm	9.3 ± 0.5 μm	9.3 ± 0.5 μm	NA
Attenuation @ 820 nm	≤ 6.0 dB/km	---	---	---	NA
Attenuation @ 980 nm	---	≤ 3.0 dB/km	---	NA	NA
Attenuation @ 1310 nm	---	---	≤ 3.0 dB/km	≤ 0.7 dB/km	NA
NA (nominal)	0.12	0.16	0.12	0.12	NA
Core Diameter (nominal)					NA
Cladding Diameter	125 ± 1 μm	125 ± 1 μm	80 ± 2 μm	125 ± 1 μm	125 ± 2 μm
Coating Diameter	155 ± 5 μm	155 ± 5 μm	100 ± 4 μm	155 ± 5 μm	250 ± 10 μm
Clad Non-Circularity	≤ 2%	≤ 2%	≤ 2%	≤ 2%	≤ 2%
Core/Clad Offset	≤ 0.5 μm	≤ 0.5 μm	≤ 1 μm	≤ 0.5 μm	---
Coating Material	Polyimide	Polyimide	Polyimide	Polyimide	Acrylate
Proofstest Level	200 kpsi	200 kpsi	200 kpsi	200 kpsi	200 kpsi
Order by Part Number:	BF04701	F9022	BF04441-06	BF05717-06	F15330

Graded-Index - Custom fibers available to achieve specific GRIN lense focal point requirements.

NOTE: The operating temperature ranges are general guidelines. Consult with our Technical Sales department to determine the optimal coating and buffer material for your specific application. 1.860.678.6636



Copyright © 2016 OFS Fitel, LLC.
All rights reserved, printed in USA.

OFS Marketing Communications
Date: 0516



OFS reserves the right to make changes to the prices and product(s) described in this document at any time without notice. This document is for informational purposes only and is not intended to modify or supplement any OFS warranties or specifications relating to any of its products or services.