



OFI 200 Optical Fiber Identifier

The OFI 200 Optical Fiber Identifier is a low cost, hand-held instrument designed to detect optical signals without disrupting traffic. During maintenance, installations, rerouting or restorations, it's often necessary to isolate a specific fiber. By simply clamping the OFI 200 onto a fiber, the unit will indicate if there is no signal, a 2 kHz tone, or traffic and show signal direction.

The OFI 200 is available in two models. The OFI 200B is recommended for 250 μ m and ribbon "bare" fiber applications. The OFI 200C is recommended for up to 3 mm jacketed fiber. Both models are equipped with a unique two-position head design that can be configured to work with 250 μ m, 900 μ m, ribbon, or jacketed fiber in seconds, without tools or adjustments.

When testing coated fibers, the slim design of the OFI 200 allows easier access on a splice tray where the amount of work space is limited. The clamping trigger is ergonomically designed to fit the natural motion of the operator's hand. A high impact molded plastic case makes the OFI 200 suitable for use outside plant or in the central office.

Powered by a single standard 9-Volt alkaline battery, the OFI 200 performs thousands of tests before battery replacement is necessary.

features

- Accepts 250 μ m, 900 μ m coated fiber, 3mm jacketed fiber cable, and ribbon fiber
- No head swapping or adjustments
- Identifies light carrying fiber
- Low cost, easy to use
- Hand-held, 9V battery operated
- Low insertion loss - traffic remains uninterrupted
- Indicates 2 kHz Tone visually and audibly
- Indicates direction of traffic

applications

The OFI 200 is used during restoration or rerouting to positively identify fibers prior to cutting and splicing.



OFI 200 Optical Fiber Identifier

specifications

Detectable Signal Range

Fiber Type	Parameter	Wavelength, Signal	OFI 200B	OFI 200C
250 µm Coated Fiber (SMF-28 with 250 µm CPC6 coating)	Detect Range (average power, typical)	1310 nm, CW or Traffic	+23 to -40 dBm	+23 to -24 dBm
		1310 nm, 2 kHz Tone	+20 to -45 dBm	+20 to -27 dBm
		1550 nm, CW or Traffic	+23 to -45 dBm	+23 to -33 dBm
		1550 nm, 2 kHz Tone	+20 to -50 dBm	+20 to -36 dBm
Insertion Loss (typical)	1310 nm	0.2 dB (0.5 dB max)	0.2 dB	
	1550 nm	1.5 dB (2 dB max)	2.5 dB	
3 mm Jacketed Fiber (SMF-28 with 250 µm CPC6 coating and a 3 mm, yellow jacket)	Detect Range (average power, typical)	1310 nm, CW or Traffic		+23 to -30 dBm
		1310 nm, 2 kHz Tone		+20 to -33 dBm
		1550 nm, CW or Traffic		+23 to -37 dBm
		1550 nm, 2 kHz Tone		+20 to -40 dBm
Insertion Loss (typical)	1310 nm		0.2 dB	
	1550 nm		1.8 dB	

Model OFI 200B & OFI 200C

Optical Specifications	
Detector type	InGaAs
Specified wavelength of operation	1310 & 1550 nm
Fiber stress	<100 kPSI max
Fiber size	250 µm, 900 µm, 3 mm jacketed & ribbon fiber
Tone detection	2000 ±100Hz
Measurement time	<1.0 second
General Specifications	
Operation temperature	0° to 40° C
Storage temperature	-30° to 60° C
Battery life	>10,000 operations typical (9 volt DC Alkaline)
Dimensions (H x W x D)	8.5 x 1.5 x 1.1 in. (22 x 3.8 x 2.8 cm)
Weight	7.5 oz. (210 g)

Notes:

1. 250 µm coated fiber parameters are specified with OFI 200 plunger in the "250/900/RIB" position. 3 mm jacketed fiber parameters are specified with OFI 200 plunger in the "3 mm" position.
2. Unless noted otherwise, all specifications are typical. Actual results can vary by several dB depending on fiber type, coating material, jacket color, jacket hardness, and other factors.
3. "CW" or Continuous Wave is a light signal that is not modulated. "Traffic" is a light signal modulated by a random data sequence. "Tone" is a light signal modulated into a nominal 50% duty cycle square wave.

ordering information

The OFI 200 Optical Fiber Identifier comes with a carry case and user's guide.