

Fiber Identifier



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. OFI 200 Identifiers 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, 3 mm 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.

ordering information

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

specifications

Detectable Signal Range

Fiber Type	Parameter	Wavelength, Signal	OFI 200D
250 μ m coated fiber (SMF-28 with 250 μ m CPC6 coating)	Minimum detect level (average power, typical)	1310 nm, CW or Traffic 1310 nm, 2 kHz Tone 1550 nm, CW or Traffic 1550 nm, 2 kHz Tone	-40 dBm -45 dBm -45 dBm -50 dBm
	Insertion loss (typical)	1310 nm 1550 nm	0.3 dB 1.5 dB
3 mm jacketed fiber (SMF-28 with 250 μ m CPC6 coating and a 3 mm, yellow jacket)	Minimum detect level (average power, typical)	1310 nm, CW or Traffic 1310 nm, 2 kHz Tone 1550 nm, CW or Traffic 1550 nm, 2 kHz Tone	-28 dBm -34 dBm -33 dBm -38 dBm
	Insertion loss (typical)	1310 nm 1550 nm	0.6 dB 2.0 dB

Optical Specifications

Detector type	InGaAs
Specified wavelength of operation	1310 & 1550 nm
Fiber stress	<100 kPSI max
Fiber size	250 μ m, 900 μ m, 3 mm jacketed & ribbon fiber
Tone detection	2000 \pm 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 μ m coated fiber parameters are specified with OFI 200 plunger in the "250/900/RIB" position. 2 mm / 3 mm jacketed fiber parameters are specified with OFI 200 plunger in the "2 mm / 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.