hand-held optical fiber identifier

F6121A

Features

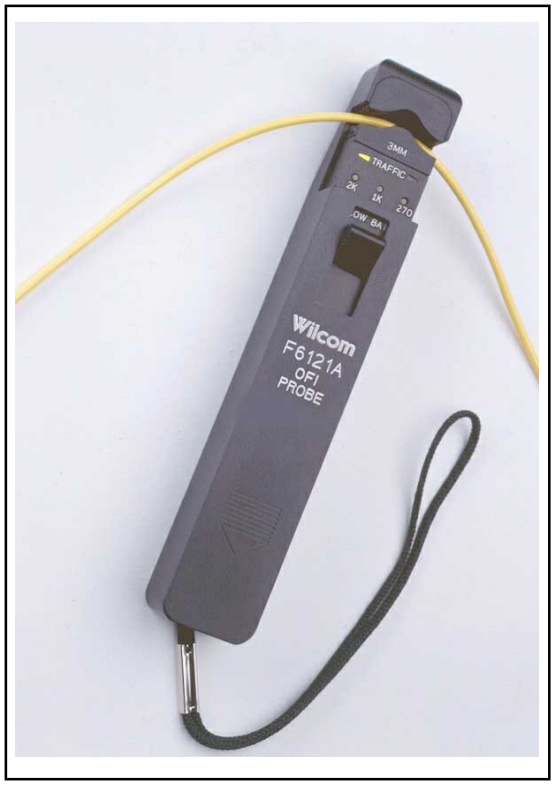
- Hand-Held, Lightweight, Rugged, Battery-Powered
- Interchangeable Adapter Heads for: Jacketed, Coated or Ribbon Fiber
- Complete With Carrying Case
- Attaches to Belt or Tool Pouch
- Operates With One Hand
- Weighs 7.5 oz.

Live Fiber Identifier

- Operates From 800 nm to 1700 nm
- Compatible With Most AT&T and Corning Optical Fiber
- Uses Non-Destructive Macro-bending Technology
- Audible Tone in the presence of Traffic

Easy to Use

- Bi-Directional Traffic Indication
- High Intensity LED indication of Active Signal Transmission
- Interchangeable heads
- Detects presence of 270 Hz, 1000 Hz and 2000 Hz Modulated Tones
- Low Battery Indication



Description

Wilcom's hand-held OFI Model F6121A Probe is a rugged, easy-to-use installation and maintenance instrument which identifies optical fibers by detecting the optical signals being transmitted through a singlemode fiber. By utilizing local detection technology (non-destructive macro-bend detection), the unit eliminates the need to open the fiber at the splice point for identification; eliminating the probability of interrupting service.

Signals detected by the OFI Model F6121A include continuous wave (CW), live optical transmission, and low frequency modulated tones at 270, 1000 and 2000Hz. When traffic is present on the fiber tested, an audible tone as well as traffic direction which is indicated by LEDs illuminating on the probe, as well as an audible tone.

During maintenance, installations, rerouting, or restorations it is often necessary to isolate a specific fiber from a bundle without disrupting service. By simply clamping the F6121A onto a fiber, the unit will indicate if there is no signal, a 270, 1000 or 2000 Hz tone, or traffic and show signal direction.

The OFI Model F6121A has the widest environmental operating range of any optical fiber identifier on the market today.

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The F6121A when used in conjunction with Wilcom's stabilized Laser or LED Sources outlined below offer optimum fiber optic identification capability.

F6121A	FS8513A	FS8514A	FS1316
Wavelength	850 nm 1310 nm	850 nm 1310 nm	1310 nm 1550 nm
Presence of CW Signal	✓	✓	✓
Tone Detection	2 kHz	2 kHz 1 kHz 270 Hz	2 kHz 1 kHz 270 Hz

Specifications

Optical Characteristics: (Using Corning 1528)

Detection Technique	Non-destructive macro-bending
Typical loss in dB	<0.6 db @1310 nm typical
Spectral Response	800 nm to 1700 nm
Detector Sensitivity (MDSP)*	-40 dBm typical (equivalent core power)
Optical Tone Receiver	270 Hz, 1 kHz, 2 kHz
Minimum Fiber Slack	0.75 inches required for detection

Fiber Compatibility:

Dual Window Singlemode	8 to 10 µm core diameter
Coating Diameter	250 µm diameter
Coating	High Refractive Index Acrylate

Optional Accessory:
Optional interchangeable 2mm head

Electrical Characteristics:

Power	One 9-volt Alkaline battery
Operation	Approx. 10,000 readings

Environmental Conditions:

Operating Temperature	-20°C to +50°C
Storage Temperature	-40°C to +60°C
Humidity	0 to 90% non-condensing
Physical	Length: 7.5 inches
	Width: 1 1/4 inches
	Depth: 1 inch
	Weight: 7.5 oz.

Ordering Information:

Model	Part No.
Basic:	
F6121A	30612131

Includes Fiber Optic Probe, carrying case and three (3) interchangeable adapter heads for jacketed, coated or ribbon fiber.

Optional Accessory:	
2mm Adapter	04419965
CLEI Code:	Pending

CE

*Mean detectable signal power for singlemode fiber at 1310 nm.

Specifications and prices are subject to change without notice.
2/02
811-824-008

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