

hand-held optical fiber identifier

F6121A

Description

The **Wilcom Model F6121A Optical Fiber Identifier** is a rugged, easy-to-use installation and maintenance instrument which identifies optical fibers by detecting the optical signals being transmitted through a single-mode fiber. By utilizing local detection technology (*non-destructive macro-bend detection which does not damage or overstress the fiber*), the unit eliminates the need to open the fiber at the splice point for identification; eliminating the probability of interrupting service.

The **Optical Fiber Identifier** detects low frequency tones at 270 Hz, 1000 Hz and 2000 Hz. When traffic is present on the fiber under test, an audible tone can be heard as well as the traffic direction which is indicated by LEDs illuminating on the probe.

During installations, maintenance, rerouting, or restorations it is often necessary to isolate a specific fiber without disrupting service. A light source such as Wilcom's Model FS1316 used in conjunction with the **Optical Fiber Identifier** can make the job a lot easier.

The **Optical Fiber Identifier** includes a carrying pouch containing three easy to use field interchangeable adapter heads to accommodate; 900 μm buffered fiber, ribbon or 250 μm coated fiber and 3mm jacketed fiber.



Features and Benefits

✓ Rugged Metal Case

The F6121A uses the same field proven lightweight rugged metal housing as the rest of Wilcom's Optical Fiber Identifier product line.

✓ 850nm to 1700nm Range

With the use of InGaAs detectors, the unit can be used on singlemode and multimode applications.

✓ Audible Tone

The unit provides an audible tone in the presence of a fiber optic signal.

✓ Tone Detection

The F6121A can detect 270Hz, 1kHz and 2kHz tones for easy fiber cable identification

✓ LED Indication

LEDs indicate tone detection, Traffic presence, Traffic Direction, and Low Battery.

✓ Hands-Free-Operation

With an easy to use thumb lock, hands-free operation can be enabled and disabled.

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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	FS1318	FS1316
Wavelength	850 nm 1310 nm	1310 nm, 1490 nm 1550 nm	1310 nm 1550 nm
Presence of CW Signal	N	N	N
Tone Detection	2 kHz	2 kHz 1 kHz 270 Hz	2 kHz 1 kHz 270 Hz

Specifications

Optical Characteristics:

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 Type: Singlemode fiber

Fiber Compatibility:

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

Electrical Characteristics:

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

<u>Model</u>	<u>Part No.</u>
Basic: F6121A	30612131-03

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

Optional Accessory:

2mm Adapter Head	04419965-01-RC-1
1.6mm Adapter Head	04420715-01-RC-1



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

Specifications and prices are subject to change without notice.

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ISO - 9001:2000 Registered

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