

# hand-held optical fiber identifier

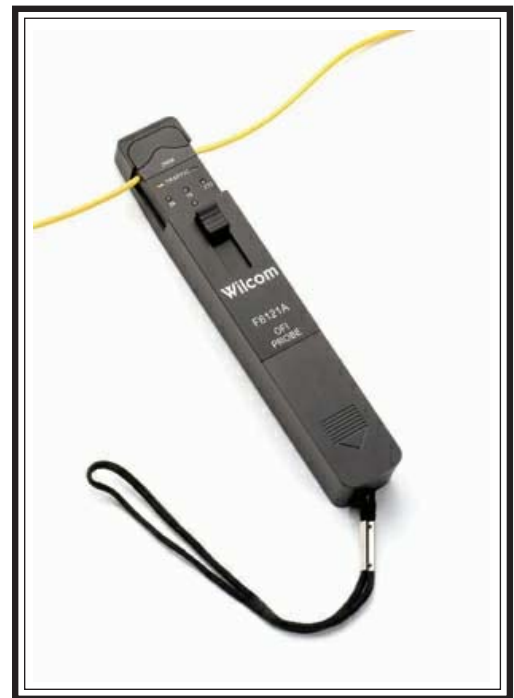
# F6121A

## 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), 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  $\mu\text{m}$  buffered fiber, ribbon or 250 $\mu\text{m}$  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.*

**Wilcom**

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:** (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

**Electrical Characteristics:**

Power Operation One 9-volt Alkaline battery  
 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	30612131-03

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
1.6mm Adapter Head	04420715-01

**ISO-9001:2000  
Registered**



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

Specifications and prices are subject to change without notice.

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