

hand-held optical fiber identifier **F6121A**

Features

Hand-Held, Lightweight, Rugged, Easy-to-Use, Battery-Powered

- +20 dBm to -40 dBm Core Power Detection
- Operated with One Hand
- Interchangeable Adapter Heads for Jacketed, Coated or Ribbon Fiber
- Weighs Less Than 7.6 oz.
- Complete with Leather Carrying Case
- Attaches to Belt or Tool Pouch
- Uses 9-volt Battery

Live Fiber Identifier

- Operates from 800 nm to 1700 nm
- Compatible with Most AT&T and Corning Optical Fiber
- Uses Non-Destructive Macrobending Technology

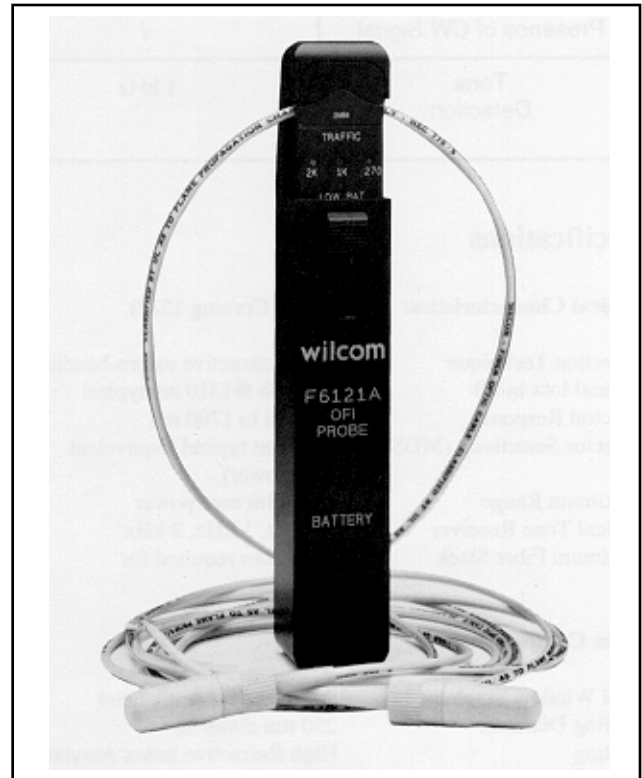
Easy to Use

- Bi-Directional Traffic Indication
- High Intensity LED indication of Active Signal Transmission
- Detects presence of 270 Hz, 1000 Hz and 2000 Hz Modulated Tones
- Low Battery Indication
- Self Test on Power up

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 F6121A eliminates the need to open the fiber at the splice point for identification; eliminating the probability of interrupting service.

Signals detected by the Model F6121A include continuous wave, live optical transmission, and



low frequency modulated tones at 270, 1000, and 2000 Hz. When traffic is present on the fiber tested, the direction of transmission is indicated by LEDs illuminating on the probe. When modulated tones are present on the fiber under test, the F6121A will detect and illuminate the corresponding LED for 270 Hz, 1000 Hz or 2000 Hz. The F6121A has the widest environmental operating range of any optical fiber identifier on the market today.

Wilcom

Description (Continued)

The F6121A, used in conjunction with Wilcom's Stabilized Laser/LED Sources outlined below, offers optimum fiber optic identification capability.

F6121A	FS8513	FS8514	FS1315B
Wavelength	850 nm 1310 nm	850 nm 1310 nm	1310 nm 1550 nm
Presence of CW Signal			
Tone Detection	1 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)
 Maximum Range +20 dBm core power
 Optical Tone Receiver 270 Hz, 1 kHz, 2 kHz
 Minimum Fiber Slack 0.5 inches required for detection

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: 7.6 oz.

Fiber Compatibility:

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

Ordering Information

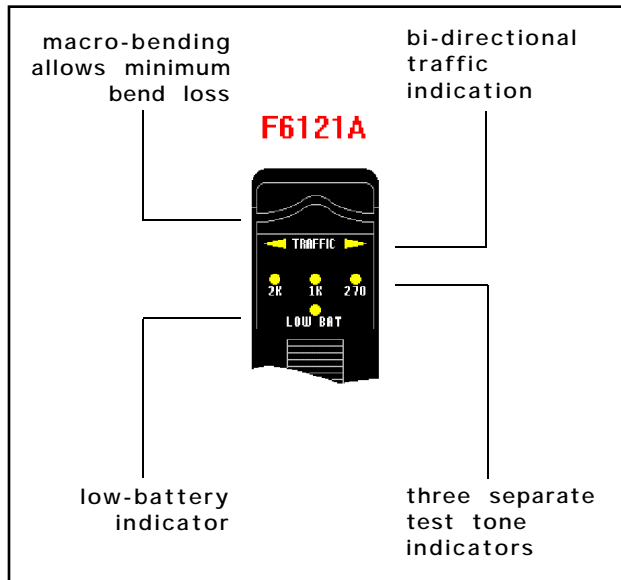
ModelNo. Part No.

Basic:
 F6121A 30612130

Includes F6121A Fiber Optic Probe, leather carrying case and three (3) interchangeable adapter heads for jacketed, coated or ribbon fiber.

Accessories:
 2mm Adapter 04419965

CLEI Code: TELWX7EDAA



Wilcom

TRANSCAT

▶ Visit us at Transcat.com!

35 Vantage Point Drive // Rochester, NY 14624 // Call 1.800.800.5001