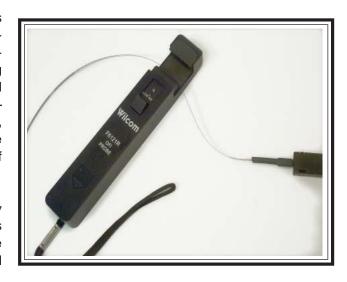
optical ribbon fiber identifier

F6121R

Description

The *Wilcom Model F6121R Ribbon Fiber Identifier* is a lightweight, rugged, easy-to-use installation and maintenance instrument designed for fast, accurate identification and traffic testing of optical signals without cutting the fiber cable or interrupting service. 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 *Ribbon 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 *Ribbon Fiber Identifier* can make the job a lot easier.

The *Ribbon Fiber Identifier* includes three easy to use field changeable adapter heads. Two adapter heads are dedicated to ribbon fiber making the unit ideal for verifying signal presence or absence (live or dark fiber) on ribbon fiber. One adapter head is for use on *Bare Ribbon Fiber*, and the other adapter head is for use on *Jacketed Ribbon Fiber*. The third interchangeable adapter head is for testing 3mm patch cords.

Features and **Benefits**

√ Rugged Metal Case

The F6121R uses the same field proven lightweight rugged metal housing as the rest of Wilcom's Optical Flber 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.

✓ Low Insertion Loss @ 1310 and 1550nm

The lowest insertion loss in the industry eliminates system interruptions.

↓ 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.



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

F6121R	FS8513A	FS8514A	FS1316
Wavelength	850 nm	850 nm	1310 nm
	1310 nm	1310 nm	1550 nm
Presence of CW Signal	N	<i>N</i>	*
Tone	2 kHz	2 kHz	2 kHz
Detection		1 kHz	1 kHz

Specifications

Optical Characteristics:

Detection Technique Spectral Response Optical Tone Receiver

800 nm to 1700 nm 270 Hz, 1 kHz, 2 kHz

Non-destructive macro-bending

Minimum Fiber Slack 0.75 inches required for detection

Minimum Detector Sensitivity*

Bare Ribbon Fiber Adapter

-40.0 dBm @1310nm typical -50.0 dBm @1550nm typical

Jacketed Ribbon Fiber Adapter

-30.0 dBm @1310nm typical -40.0 dBm @1550nm typical

3mm Adapter -32.5 dBm @1310nm typical

-40.0 dBm @1550nm typical

Insertion Loss

Ribbon Adapters

< 0.20 db @1310nm typical < 2.00 db @1550nm typical

3mm Adapter

< 0.11 db @1310nm typical < 0.80 db @1550nm typical

Fiber Type: Singlemode fiber

Fiber Compatibility:

Dual Window Singlemode Coating Diameter

8 to 10 µm core diameter 250 µm diameter

Coating High Refractive Index Acrylate

Interchangeable Fiber Heads:

Bare Ribbon Fiber Adapter Jacketed Ribbon Fiber Adapter 3mm Adapter

CE Pending

*Sensitvity is color dependent. The F6121R is less sensitive on dark colors such as Black, Brown, and Dark Blue

Specifications and prices are subject to change without notice.

11/06 813-027-005 ISO - 9001:2000 Registered

Electrical Characteristics:

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

Environmental Conditions:

Operating Temperature Storage Temperature

Humidity Physical

-20°C to +50°C -40°C to +60°C

0 to 90% non-condensing Length: 7.5 inches Width: 1 1/4 inches Depth: 1 inch Weight: 7.5 oz.

Ordering Information:

Part No. **Model**

Basic:

30612197-02 F6121R

Includes Fiber Optic Probe, carrying case and three (3) interchangeable adapter heads.



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