# hand-held optical fiber identifier F6222

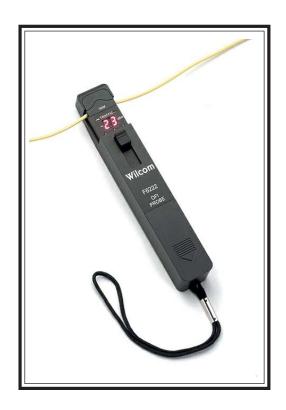
# F6222 F6222C

# **Description**

The *Wilcom Models F6222 and F6222C Optical Fiber Identifier* are a rugged, easy-to-use installation and maintenance instrument which identifies optical fibers by detecting the optical signals being transmitted through a singlemode fiber. The *Model F6222C Optical Fiber Identifier* is designed specifically to meet the needs of the CATV industry. By utilizing local detection technology (non-destructive macro-bend detection), both units eliminate the need to open the fiber at the splice point for identification; eliminating the probability of interrupting service.

Both **Optical Fiber Identifiers** detect 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 Identifiers** can make the job a lot easier.



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

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# Features and **Benefits**

#### Rugged Metal Case

The units use 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.

#### Core Power Display

Both the F6222 and F6222C can display Relative Core Power which is helpful in identifying bad connectors, splice points, etc.

#### 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 F6222 and the F6222C used in conjunction with Wilcom's stabilized Laser or LED Sources outlined below offer optimum fiber optic identification capability.

F6222/F6222C	FS8513A	FS1318	FS1316
Wavelength	850 nm 1310 nm	1310 nm, 1490 nm 1550 nm	1310 nm 1550 nm
Presence of CW Signal	M	M	M
Tone Detection	2 kHz	2 kHz 1 kHz 270 Hz	2 kHz 1 kHz 270 Hz

## **Specifications**

#### **Optical Characteristics:**

(Using Corning 1528)

Detection Technique Typical loss in dB Spectral Response Detector Sensitivity (MDSP)\*

<0.6 db @1310 nm typical 800 nm to 1700 nm -40 dBm typical (equivalent core power) 270 Hz, 1 kHz, 2 kHz 0.75 inches required for detection

Non-destructive macro-bending

0 to -40dBm +20 to -20 dBm

#### Fiber Compatibility:

Optical Tone Receiver

Minimum Fiber Slack

Core Power Reading

F6222:

F6222C:

Dual Window Singlemode8 to 10 µm core diameterCoating Diameter250 µm diameterCoatingHigh Refractive Index Acrylate

# **Ordering Information:**

Model	<u>Part No.</u>
Basic:	
F6222	30622216-03
F6222C	30622217-03
F6222C	30622217-03

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

#### Accessories:

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



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

Specifications and prices are subject to change without notice. 08/05 813-213-003

#### **Electrical Characteristics:**

Power

Power Operation

#### Environmental Conditions:

Operating Temperature Storage Temperature Humidity Physical One 9-volt Alkaline battery Approx. 10,000 readings

-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.

> ISO-9001:2000 Registered



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