

hand-held optical fiber identifier **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 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 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.

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 μ m buffered fiber, ribbon or 250 μ m coated fiber and 3mm jacketed fiber.



Features and Benefits

✓ Rugged Metal Case

The units use 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.

✓ 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.

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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	✘	✘	✘
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	850 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
Relative Core Power Reading	
F6222:	5 to -40dBm
F6222C:	+19 to -19 dBm

Fiber Type: Singlemode fiber

Fiber Compatibility:

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

Electrical Characteristics:

Power Operation	One 9-volt Alkaline battery Approx. 8 hrs or 5000 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:	7.75 inches
Width:	1 1/4 inches
Depth:	1 inch
Weight:	8.0 oz.w/ Batt

Ordering Information:

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