

# live fiber identifier

# F6 Series

## Description

The Wilcom family of Optical Fiber Identifiers are rugged, easy-to-use installation and maintenance instruments which identify live fibers by detecting the optical signals being transmitted through them. By utilizing non-destructive macro-bend detection (which does not damage or overstress the fiber), these units eliminate the need to disconnect fiber connectors for traffic verification. When used on jumper cables before they are disconnected insures vital services are not interrupted.

The Optical Fiber Identifier detects low frequency test tones at 270 Hz, 1 kHz and 2kHz for locating individual fibers within a cable. When traffic is present, the probe produces an audible tone and clearly indicates direction by illuminating a direction indicator LED.

Wilcom produces Optical Fiber Identifiers for an array of applications such as: basic installation and troubleshooting, display of relative core power, high-power CATV, bend insensitive fibers and an extended range model with multiple capabilities.

All Optical Fiber Identifiers include a carrying pouch containing three easy to use field interchangeable adapter heads for: 900 μm buffered fiber, ribbon or 250 μm coated fiber and 3mm jacketed jumpers.



## Specifications:

|  | F6121A   | F6222        | F6222C       | F6121R       | F6225        |
|--|--|--------------|--------------|--------------|--------------|
| Application                            | Basic  | Standard     | Cable TV     | Ribbon Fiber | Ext. Range   |
| Relative Core Power Reading (dB)       | None   | +5 to -40    | +20 to -20   | None         | +24 to -58   |
| Insertion Loss (dB) (250μm, 1310/1550) | < 0.6 / <3.0   | < 0.6 / <3.0 | < 0.6 / <3.0 | <0.2 / <2.0  | <0.16 / <1.1 |
| 900 μm & 3mm adapter 1310 /1550        |  |              |              | <0.1 / <0.8  | <0.1 / <0.37 |
| Detector Sensitivity (dBm, 1550 nm)    |  | -40          |              |              | -45          |
| Fiber Type                             | Singlemode, 8-10μm core, 250 μm clear Acrylate coating |              |              |              |              |
| Spectral Response (nm)                 | 850 to 1700  |              |              |              |              |
| Optical Test Tone Detection            | 270 Hz, 1kHz and 2kHz                                  |              |              |              |              |
| Minimum Fiber Slack                    | 0.75" (19mm)   |              |              |              |              |
| Power                                  | One 9V Alkaline Battery                                |              |              |              |              |
| Battery Life                           | 5,000 operations                                       |              |              |              |              |
| Operating Temperature                  | -20 to +50 °C  |              |              |              |              |
| Storage Temperature                    | -40 to +60 °C  |              |              |              |              |
| Humidity                               | 0 to 90% non-condensing                                |              |              |              |              |
| Dimensions (HWD)                       | 7.75" x 1.25" x 1.0" (197 x 32 x 25mm)                 |              |              |              |              |
| Weight                                 | 8.0 oz (227g)  |              |              |              |              |
| Warranty                               | 1 year   |              |              |              |              |

## Ordering Information:

| Description   | Part Number |
|---|-------------|
| <b>F6121A</b> Basic OFI                                   | 30612131-03 |
| <b>F6222</b> Standard OFI with relative power display     | 30622216-03 |
| <b>F6222C</b> Cable TV (high power) OFI                   | 30622217-03 |
| <b>F6121R</b> Ribbon fiber OFI (includes ribbon adapters) | 30612197-02 |
| <b>F6225</b> Extended range OFI                           | 30622510    |

## Optional Accessories

| Description                  | Part Number      | Part Number (F6225 only) |
|------------------------------|------------------|--------------------------|
| 2mm jacketed cable adapter   | 04419965-01-RC-1 | 04420688-01-RC-1         |
| 1.6mm jacketed cable adapter | 04420715-01-RC-1 | 04420712-01-RC-1         |

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