

optical fault location kits **FF-3, FF-4**

Features

- **FF- 3 KIT**
 - FR2 Fiber Ranger Fault Locator
 - F6121A Optical Fiber Identifier w/ Audible Tone
 - F6230A Visual Fault Locator (650nm)
 - FR2 Range up to 20 KM
- **FF- 4 KIT**
 - FR2 Fiber Ranger Fault Locator
 - F6230A Visual Fault Locator (650nm)
 - FR2 Range up to 20 KM
- Simple, Reliable, and Economical Fault Isolation and Location
- Useful for Signal Tracing, Fiber Identification, and fault detection in fiber optic cable
- Hard Carrying Case with Manuals



Description

FF- 3 Optical Fault Location Kit

Wilcom's FF-3 Kit is designed to give the optical technician the tools required for accurate fault isolation in singlemode and multimode fiber systems.

The three units included in the FF-3 Optical Fault Location Kit, will enable the technician to narrow down problem areas in fiber cabling by systematically testing the fiber to the fault. The FR2 will display the distance to an event (fault) in either feet or meters using OTDR technology. The FR2 has the ability to detect and display up to seven multiple events. The FR2 also has a user selectable Index of Refraction (IOR) which enables the technician to set while in the field.

In the FF-3 kit, there is a choice of using the F6121A Optical Fiber Identifier for non-intrusive testing of the fiber, or the F6230A Visual Fault Locator for pinpoint accuracy in fault location. Both the F6121A and the F6230A allow the technician to isolate the fault for cost-effective repair in a minimum amount of time. The Model F6121A is not recommended for multimode applications.

FF- 4 Optical Fault Location Kit

Wilcom's FF-4 Kit is designed to give the optical technician the tools required for accurate fault isolation in singlemode and multimode fiber systems.

The two units included in the FF-4 Optical Fault Location Kit, will enable the technician to narrow down problem areas in fiber cabling by systematically testing the fiber to the fault. The FR2 will display the distance to an event (fault) in either feet or meters using OTDR technology. The FR2 has the ability to detect and display up to seven multiple events. The FR2 also has a user selectable Index of Refraction (IOR) which enables the technician to set while in the field.

The F6230A projects a powerful visible beam of light into the fiber cable to pinpoint areas of leakage and allows the technician to isolate the fault or trace signals.

Specifications

FR2 Fiber Ranger Fault Locator

Wavelength	: 1310 nm Typical
Emitter Fiber Type	: Multimode & Singlemode
Index of Refraction (IOR)	: 1.40 to 1.69
End Measurement Accuracy	: ± 2 m
Minimum Distance Measured	: 30m
Minimum Detectable Signal @ 10Km	: -49dB
Number of Events detected	: 7
Meters/Feet	: User selectable
Battery Type	: 4 AA Alkaline
Battery Life (Alkaline)	: >13,000 operations
Operating temp.	: 0 to +40°C
Storage temp.	: -20 to +50°C
Dimensions	: 7.7 x 4.0 x 1.7 in (83x152x33mm)
Weight (Approx.)	: 0.49 lbs (220g)
Connector Type	: ST, SC, or FC
Patent:	: US 6,381,011,B1

F6121A Optical Fiber Identifier

Optical Characteristics	: (Using Corning 1528)
Detection Technique	: Nondestructive macro-bending
Typical loss in dB	: < 0.6 db @1310 nm typical
Spectral Response	: 800 nm to 1700 nm
Detector Sensitivity	: -40 dBm typical (equiv. core power)
Maximum Range	: +20 dBm core power
Optical Tone Receiver	: 270 Hz, 1 kHz, 2 kHz
Audible Tone	: Signal present
Power	: One 9-volt Alkaline battery
Operating Temperature	: -20°C to +50°C
Storage Temperature	: -40°C to +60°C
Dimensions	: 7.5 x 1.25 x 1 in.
Weight:	: 7.6 oz.



compliant

F6230A Visual Fault Locator

Source	: Class II Laser
Wavelength	: 650 ±10 nm @25°C
Output Power	: -4 dBm @25°C into SMF-28 fiber
Transmission	: Continuous or 1 Hz
Range	: > 5 km

Environmental

Operating Temp.	: -10 to +50°C
Storage Temp.	: -20 to +80°C
Humidity	: 0 to 95% (non-condensing)

Physical

Length	: 6.2 in	157 mm
Approx. Diameter	: 0.63 in	18 mm
Approx. Weight	: 2.36 oz	66.90 g

Connector Style Universal (any 2.5mm ferrule)



Compliant

Ordering Information

<u>Model No.</u>	<u>Part No.</u>
FF-3 Kit- w/ ST style connector	30032022
FF-3 Kit- w/ FC style connector	30032023
FF-3 Kit- w/ SC style connector	30032024
FF-4 Kit- w/ ST style connector	30032025
FF-4 Kit- w/ FC style connector	30032026
FF-4 Kit- w/ SC style connector	30032027

Warranty

The FF-3 and FF-4 Optical Fault Locator Kits are warranted for a one year period of normal usage.