# FI700

SPECIFICATIONS

## Optical Fiber Identifiers


### Single-Hand Operation and Wide Detection Range

The FI700 Series of Optical Fiber Identifiers is the safe, economical and non-destructive way to identify active lit optical fibers. These rugged units use local detection technology, which employs a macrobend method, eliminating the need to open the fiber at the splice point for identification. All models detect continuous wave, live optical transmission and low frequency modulated tones at 270 Hz, 1 k, and 2 kHz. The presence of traffic, the direction of the transmission and modulated tones on the fiber are indicated by LEDs. In addition, the FI720 models measure the fiber's relative power and displays the reading on a two-digit, seven-segment LED. This allows for measurement of power loss through a splice or connector.

### Features and Benefits

- Detection of modulated tones; 270 Hz, 1 kHz, 2 kHz
- Single-hand operation
- Light weight (7.5 oz.)
- Interchangeable head for ribbon, jacketed and coated fiber allows
- virtually any fiber to be identified
- Detects all light source and loss test set modulation frequencies

### Optical Specifications

| Model | FI710 | FI720 | FI720C |
|---|---|---|---|
| **Insertion Loss** | <0.5 dB[1] | <0.5 dB[1] | <0.5 dB[1] |
| **Spectral Response** | 800 to 1700 nm | 800 to 1700 nm | 800 to 1700 nm |
| **Optical Tone Receiver** | 270, 1 k and 2 kHz | 270, 1 k and 2 kHz | 270, 1 k and 2 kHz |
| **Maximum Range** | 0 to –40 dBm | 0 to -40 dBm; ±2.0 dBm | +20 to –20 dBm; ±2.0 dBm |
| **Relative Power** | No | Yes | Yes |
| **Fiber Stress** | None; Macro-bending | | |

**Note:**
[1] Mean Detectable Signal Power for single-mode fiber at 1310 nm.

| | | |
|---|---|---|
| **Fiber compatibility** | Dual window single-mode | 8 to 10 mm diameter |
| | Coating diameter | 250 mm diameter |
| | Coating | High refractive index acrylate |
| **Optical characteristics** | | (Using Corning 1528) |
| **Minimum fiber slack** | | 0.75 µm required for detection |

| General Specifications | |
|---|---|
| **Power** | One 9 volt Alkaline battery |
| **Operation** | Approximately 10,000 readings |
| **Operating temperature** | –20° to +50° C (–4° to 122° F) |
| **Storage temperature** | –40° to 60° C (–40° to 140° F) |
| **Humidity** | 0 to 90% non-condensing |
| **Dimensions (L x W x D)** | 19.1 x 4.2 x 2.5 cm (7.5 x 1.3 x 1.0 inches) |
| **Weight** | 0.2 kg (7.5 oz) |

## Ordering Information

A Fiber Identifier is a non-intrusive tool used to determine if a fiber has traffic on it prior to breaking the connection and interrupting service. All Fiber Identifiers operate on a 9-volt battery and include a 3 mm, 900 µm, ribbon adapter, manual, and carry case.

- **Model Numbers:**

FI710 = Basic Optical Fiber Identifier
FI720 = Optical Fiber Identifier with relative power reading
FI720C = High Power (CATV) Optical Fiber Identifier

- **Fiber Identifier Accessories:**

| | |
|---|---|
| TD-30418 | 250 µm buffered fiber adapter |
| TD-30419 | 900 µm buffered fiber adapter |
| TD-30420 | 3 mm fiber adapter |
| TD-34788 | 2 mm adapter |
| TD-30421 | Replacement leather pouch for Fiber Identifier |