Fault Identifiers

Fault identifiers are power visible red laser sources designed to troubleshoot faults on fiber optic cables. Light generated by these units will escape from sharp bends and breaks in jacketed or bare fibers, as well as poorly mated connectors. They can identify faults in fiber optic jumper cables, distribution frames, patch panels, and splice trays.

Fault identifiers are also an excellent complement to an OTDR because they can locate faults inside the OTDR’s dead-zone. Other applications include end-to-end continuity checks, identifying connectors in patch panels and fibers during splicing operations.

Noyes

VFI 2 Visual Fault Identifiers

- 1 mW Output Power (635nm)
- Continuous and Flashing Output Modes
- 2.5mm Universal Adapter Cap (1.25mm available)
- 2 x AA Batteries (~60 Hours)
- 14.0 x 6.2 x 3.2 cm
- 200 g

Noyes

HILITE “Keychain” Visual Fault Identifiers

- 1 mW Output Power (635nm)
- Flashing Output
- 2.5mm Universal Adapter Cap (1.25mm available)
- 1 x AAA Battery (~4 Hours)
- 7.0 x 3.6 x 1.5 cm
- 50 g

Westover

FFL-100 Visual Fault Locator

- 1 mW Output Power (635nm)
- Continuous and Flashing Output Modes
- 2.5mm & 1.25mm Universal Adapter Cap
- 2 x AA Battery (~80 Hours)
- 22.0 x 3.5 x 3.0 cm
- 150 g

Westover

FFL-050 Visual Fault Locator

- 1 mW Output Power (635nm)
- Continuous and Flashing Output Modes
- 2.5mm Universal Adapter Cap (1.25mm available)
- 2 x AAA Battery (~30 Hours)
- 11.4 x 3.5 x 2.0 cm
- 46 g

Ideal

VFF5 Visual Fault Finder

- 1 mW Output Power (635nm)
- Continuous and Flashing Output Modes
- 2.5mm Universal Adapter Cap
- 2 x AA Battery (~80 Hours)
- 20.3 x 2.2 cm
- 150 g

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Mfg.</th>
<th>Description</th>
<th>1.25mm Adapter</th>
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<tr>
<td>VFI 2</td>
<td>Noyes</td>
<td>VFI 2 w/ 2.5mm Adapter &amp; Carry Case</td>
<td>2900-50-0010MR</td>
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<tr>
<td>HILITE</td>
<td>Noyes</td>
<td>HiLite w/ 2.5mm Adapter &amp; Carry Case</td>
<td>2900-50-0010MR</td>
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<tr>
<td>FFL-100</td>
<td>Westover</td>
<td>FFL-100 w/ 2.5mm, 1.25mm Adapter &amp; Carry Case</td>
<td>FFL-U12</td>
</tr>
<tr>
<td>FFL-050</td>
<td>Westover</td>
<td>FFL-050 w/ 2.5mm Adapter &amp; Carry Case</td>
<td>FFL-050-U12</td>
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<td>VFF5</td>
<td>Ideal</td>
<td>VFF5 w/ 2.5mm Adapter &amp; Carry Case</td>
<td>NA</td>
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</table>
Noyes

**MT Tracer 12-Fiber Visible Laser Source & Display**

The MT Tracer is a compact multi-fiber visual fault identifier (red laser source) supporting 8 or 12 fiber MTP® connections. The user simply connects the 12-fiber cable directly to the unit. Fibers can be tested individually or all at once. By progressing sequentially through the fibers, cables can be quickly checked for polarity by verifying the proper order at the output.

The MT Tracer Display is a passive optical device designed to receive the light from the MT Tracer Source and provide an eye-safe method of viewing the red light. Identification is accomplished by expanding the output of the MT ferrule to a large easy to read panel - large enough to be read from several feet away.

**Ordering Information**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT Tracer Kit</td>
<td>12-Fiber MT Tracer Kit Including the MT Tracer Source and MT Tracer Display</td>
</tr>
<tr>
<td>MT Tracer Source</td>
<td>MT Tracer, 12-Fiber Visible Laser Source</td>
</tr>
<tr>
<td>MT Tracer Display</td>
<td>MT Tracer, 12-Fiber Display</td>
</tr>
<tr>
<td>4050-00-0113</td>
<td>AC Adapter, 120VAC/3VDC</td>
</tr>
</tbody>
</table>

Miller

**CCT 2001 Continuity Tester**

The Miller Fiber Continuity Tester is a high intensity, long-lasting, green, LED light source used to check whether or not a fiber link can simply transmit light. It is not a laser, so it is not powerful enough to find fiber breaks but it does provide an inexpensive solution for quick continuity tests on fiber runs under 2 Km. Included 2.5mm, 1.25mm and MT-RJ adapters provide compatibility with the most common connector styles.

**TruView**

**PS809 Series Continuity Testers**

The PS809 continuity tester from TrueView offers quick continuity inspection of patch cords, fiber links and cable reels up to 2000 meters in length. The PS809 pocket light source provides a brilliant, pre-focused white light that is easily detected. The unique ferrule grip design will center and securely hold any ST/SC/FC connector style with no special adapters required. The PS809-LC continuity tester is also available for inspecting LC cables.

**Ordering Information**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Manufacturer</th>
<th>Description</th>
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<tbody>
<tr>
<td>CCT 2001</td>
<td>Miller</td>
<td>Continuity Tester with 1.25mm, 2.5mm and MT-RJ Style Adapters Included</td>
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<tr>
<td>PS809</td>
<td>TrueView</td>
<td>2.5mm Continuity Tester</td>
</tr>
<tr>
<td>PS809-LC</td>
<td>TrueView</td>
<td>LC Continuity Tester</td>
</tr>
</tbody>
</table>
Noyes Optical Fiber Identifiers

Noyes Optical Fiber Identifiers are rugged, handheld, and easy-to-use fiber optic test instruments designed to detect optical signals transmitted through a single-mode fiber without disrupting traffic. During installation, maintenance, rerouting, or restoration; it is often necessary to isolate a specific fiber. By simply clamping an Optical Fiber Identifier onto a gently bent fiber, the unit will use the minute amount of light loss through the buffer/jacket to perform its function.

All models are equipped with a unique two-position head design configured to work with several different fiber types and constructions in seconds, without tools or adjustments. When testing coated fibers, the slim design allows easier access on a splice tray where the amount of work space is limited. The clamping trigger is ergonomically designed to fit the natural motion of the operator’s hand. A high impact molded plastic case makes these models suitable for use outside plant or in the central office.

**OFI200D**

The OFI 200D Identifier runs on 2 x AA batteries and can perform thousands of tests before replacement is necessary. By simply clamping the OFI 200D onto a gently bent fiber, the unit will indicate if there is [No Signal], [Tone], or [Traffic] and identify signal direction.

**OFI400**

The OFI 400 model Identifier is the next generation of Noyes Optical Fiber Identifiers. It has all the features of the OFI 200 model plus easy-to-read LCD display with Backlight, multiple [TONE] signal detection (270 Hz, 330 Hz, 1 kHz, or 2 kHz), power saving feature, and [Set Reference] feature. The OFI 400 model also measures and displays fiber core power or relative power on an LCD display.

**OFI-FTTsx**

The OFI-FTTx is a rugged, hand-held optical fiber identifier designed to identify the presence or absence of an active Optical Network Terminal (ONT) on FTTx F2 fibers at the Fiber Distribution Hub (FDH). During a test, the F2 fiber does not have to be removed from service. Thus the OFI-FTTx can verify whether a splitter pigtail at the FDH is connected to an active circuit before it is disconnected for fault location or re-use. The OFI-FTTx can help verify FTTx network records and recover splitter pigtails and F2 fibers that are connected at the FDH but, in fact, are available for new customers.

When applied to a splitter pigtail at the FDH, the OFI FTTx will report either that the ONT is “Active” or “Not Detected.” Time to complete each test is typically one second. The OFI-FTTx is compatible with 2 mm jumper cable containing standard single-mode fiber, such as SMF-28e ™, or bend insensitive fiber (BIF) with a 15 mm bend radius specification, such as AFL BendLite ™.

**Ordering Information**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>OFI200D</td>
<td>OFI200D Optical Fiber Identifier, User’s Guide and Carry Case</td>
</tr>
<tr>
<td>OFI400</td>
<td>OFI400 Optical Fiber Identifier, User’s Guide and Carry Case</td>
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<tr>
<td>OFI400C</td>
<td>OFI400C Optical Fiber Identifier Optimized for Jacketed Fiber, User’s Guide and Carry Case</td>
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<tr>
<td>OFI400HP</td>
<td>OFI400HP Optical Fiber Identifier Optimized for High Power Detection, User’s Guide and Carry Case</td>
</tr>
<tr>
<td>OFI-FTTX</td>
<td>OFI-FTTsx Optical Fiber Identifier, User’s Guide and Carry Case</td>
</tr>
</tbody>
</table>
**Noyes Talk Sets**

**FTS Series**

**Fiber Optic Talk Sets**

Fiber Optic Talk Sets are an inexpensive solution to meet your communication needs when testing multimode or single-mode fiber optic cables. Designed for voice communication over spare fibers, they provide full duplex, hands-free operation. Ease of use and compact size allow the operators to focus on the task at hand, rather than operating the talk set. Two talk set models are available, the FTS 1 for communication on single-mode or multimode fiber and the FTS 2 for long-range single-mode applications. The FTS 2 model includes a multiparty communication feature, which provides the connection of two talk sets at a common site to extend the range or to include three or more persons in the conversation.

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**Ordering Information**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>FTS 1-2</td>
<td>FTS 1-2 1300nm Talk Set for Short Range Multimode or Single Mode</td>
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<tr>
<td>FTS 2-1310</td>
<td>FTS 2-1310 1310nm Talk Set for Long Range Single Mode</td>
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<tr>
<td>FTS 2-1550</td>
<td>FTS 2-1550 1550nm Talk Set for Long Range Single Mode</td>
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<tr>
<td>4050-00-0111</td>
<td>AC Adapter 90-26VAC/9VDC</td>
</tr>
<tr>
<td>1300-00-0102</td>
<td>Headset and Adapter for the FTS1 and FTS2 Series Talk Sets</td>
</tr>
</tbody>
</table>

Includes two talk sets with carry case, headsets, protective rubber boots and user’s guide. AC adapters are available. Specify connector type (e.g. FTS2-1310-SC)

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**FTS-20C**

**Clip On Coupler**

A clip-on coupler is available for bare fiber access where terminated ends are not available. The FTS 20C allows bi-directional communication from a center point on the fiber link or from an unterminated end. When used with a fiber talk set – such as the FTS2 – a user can access the intended talk fiber at a mid-point across the span, usually at the splice enclosure. The FTS-20C can also be used in conjunction with a Laser Source and Tone Detector to inject or detect 2 kHz test tones. It works at 1310, 1550, or 1625 nm. Coupling efficiency is approximately 18 dB.

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<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>8000-10-0900</td>
<td>FTS-20C Clip-On Coupler</td>
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</tbody>
</table>
Noyes Variable Attenuators

VOA5 Series
Multimode Variable Attenuators

The VOA5-MM is a hand-held, field-rugged variable optical attenuators suited for a wide range of fiber link certification and production test applications. The VOA5 can be operated under local control (front panel keypad) or from a PC via a serial link using the supplied PC software. The VOA5 offers high bi-directional return loss and will maintain the set attenuation level when the unit is powered down.

The VOA5 is powered by (2) AA alkaline batteries or an AC power adapter. A NiCad rechargeable battery pack is an option.

Features & Benefits

- Hand-held (0.55 kg, 1.22 lb)
- High speed (0 to 60 dB < 3 s)
- Low insertion loss
- Remote (SCPI) control via serial port
- LabVIEW® drivers provided
- AA Alkaline, NiCad, or AC powering
- Long battery life (> 16 hours)

SVA1
Single Mode Variable Attenuator

The SVA1 Single-mode Variable Attenuator advances fiber optic field testing by offering superior performance in a low cost hand-held package. Utilizing a simplified, industry accepted attenuation technique, the innovative design of the SVA1 offers superior resolution across the entire 60 dB dynamic range.

Intended for field testing during installation, new equipment turn-ups, or for performing routine maintenance, the SVA1 is a complete, easy to use attenuator. Its unique features allow bi-directional signal transmission with no loss penalty.

The SVA1 is available with a variety of connectors and reflectance options to better than 60 dB. With only two adjustments, COARSE and FINE, the SVA1 is simple to understand and operate. The SVA1 is suited for all singlemode applications including Telco, LANs, WANs, Video, and CATV.

Features & Benefits

- 1310 and 1550 nm single-mode
- Lightweight
- Coarse and fine adjustments
- 60 dB dynamic range
- Better than 60 dB isolation available
- FC, SC, or ST Style Outputs
- Low insertion loss

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SVA1</td>
<td>SVA1 Single Mode Variable Optical Attenuator</td>
</tr>
<tr>
<td>VOA5 MM</td>
<td>VOA5 Multimode Variable Optical Attenuator</td>
</tr>
<tr>
<td>4050-00-0112PR</td>
<td>90-264 VAC/12VDC AC Adapter for VOA5 Series Attenuators</td>
</tr>
</tbody>
</table>

All models include carry case and instruction card. *When ordering, specify connector type at end of model number (e.g. SVA1-FC). APC termination for the SVA1 is available for an additional charge.