

Visual Fault Locator (VFL)

PCVFL Description

The PCVFL (Precision Coupled Visual Fault Locator) is a light-weight, hand-held tool used to quickly troubleshoot faults in the near-end of both singlemode and multimode fibers, as well as used for port identification and fiber continuity. The PCVFL holds its own against the best visual fault locators (VFL) in the industry. As with any quality VFL, the PCVFL uses a precision-coupled laser diode to inject a maximum amount of optical energy into an optical fiber. A multi-million dollar semiconductor machine is used in the manufacture of a special precision coupled micro sized ball lens. This tiny ball lens is used to focus the high-intensity red laser at the optimum point of the optical fiber core. Since cheap laser light pens do not use precision-coupling optics, their red lasers are not focused at the correct point, and thus produce sub-par results. Each unit comes with a protective rubber boot, carrying strap, 9-volt battery, and CD-ROM with operations manual.



Specifications

Launch Method	Red Laser
Output Power	>1 mW
Output Modes	CW / Flash
Visual Range	up to 5 kilometers
Battery Life	15 hours
Low Battery Indicator	Yes
Connector Style	ST
Dimensions	4.94" x 2.75" x 1.28"

Ordering Info

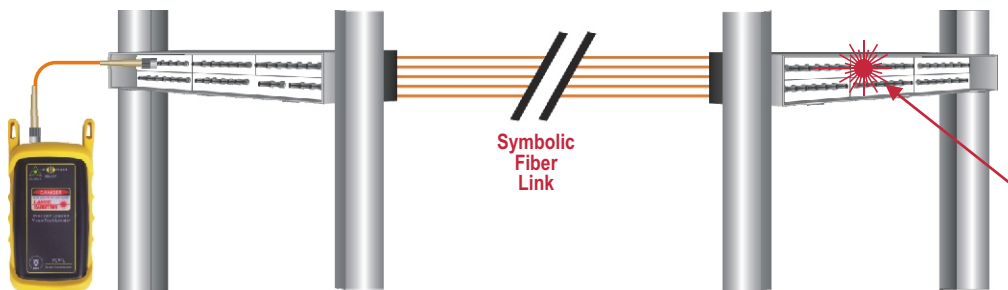
PCVFL	Precision-Coupled Visual Fault Locator	295.00
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Warning

Invisible optical radiation when power switch is set to the ON position – Avoid eye exposure to direct or scattered radiation

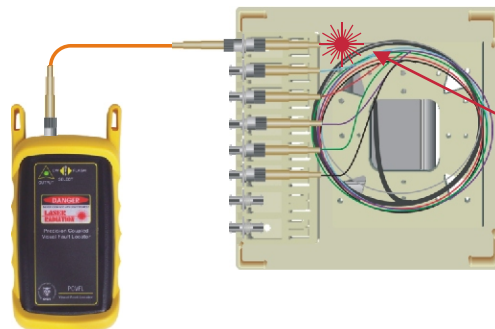


Application #1: Port Identification



The PCVFL can help take the guesswork out of identifying ports in a fiber patch panel or checking polarity of a duplex connector. Connect the PCVFL to one end of a fiber link, and the high-intensity, precision-coupled red laser diode will allow the user to visually identify the port by the presence of a red glow emitting from the connector on the other end. The PCVFL allows for visual port identification of fiber optic links up to 5 kilometers (3.1 miles) away!

Application #2: Visual Fault Location



The PCVFL can also be used as a troubleshooting tool to determine if there are breaks, micro-bends, or any other anomalies causing excessive loss within the first few feet of the fiber under test located in the splice tray. The laser diode in the PCVFL injects high-intensity red laser light into the near-end connector. If this light encounters any anomalies, such as a break or a micro-bend, the light is deflected into the fiber jacket, producing a red glow at the point of the anomaly. Some optical fiber jackets are colored so that it is difficult to see red light shining through, so it is recommended to keep the room light at a minimum when using the PCVFL for visual fault location.