Data Sheet

VIAVI

Visual Fault Locators

Optical Fiber Damage/Break Locator

Whether installing or troubleshooting, the Visual Fault Locator (VFL) is an essential tool that quickly and easily locates problem areas in fiber cables. By pinpointing the exact location of fiber damage, technicians can diagnose, troubleshoot, and fix the problem efficiently. The VFL is also used for conducting continuity tests and performing fiber identification.

VIAVI Solutions offers two unique versions of the VFL that are economically priced and ergonomically designed for comfortable handling and portability. Both versions are equipped with a 2.5 mm interface and are compatible with connectors such as SC, ST, and FC, while the included 1.25 mm adapter enables connection to LC and MU connectors. The VFL emits a visible red light, making the light escaping from the damaged fiber easily visible from a distance. The Continuous/Flash control button lets operators choose between continuous or flashing illumination.

Benefits

- Easy-to-use
- Quickly and easily locate damage in optical fiber
- Continuous and Flashing illumination modes
- Economically priced
- Ruggedized and designed for demanding field use
- Long-lasting battery life

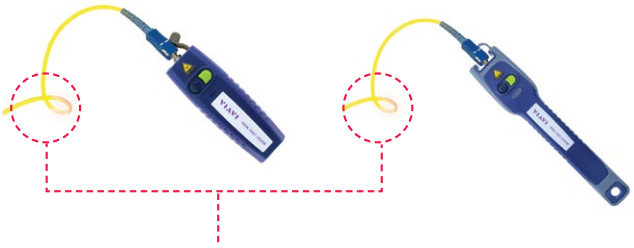
Features

- Compact, ergonomic design for ultimate portability
- Visible wavelength is 650 nm
- Low and high powered versions (1 mW and 5 mW) for single-mode and multimode fibers
- Continuous or Flash illumination
- Universal connector interface for quick and easy connection
- 2.5 mm connector input and 1.25 mm adapter
- Includes soft-sided carrying case with belt loop

Applications

- Locate sharp bends, breaks, and damages in fiber
- Conduct end-to-end continuity tests
- Perform fiber tracing and identification

Fiber Troubleshooting & Verification



Red illumination indicating fiber damage/bend

Comparison

FFL-050 / 055 (Pocket-sized)

- Compact size for portability
- Uses two AAA batteries (included) with 30+ hours continuous power
- Universal 1.25 mm adapter included

FFL-100 / 105 (Ruggedized)

- Rugged, shock-absorbing construction
- Uses two AA batteries (included) with 80+ hours continuous power
- Professional-grade with universal 1.25 mm adapter included
- Lanyard / neck-strap included
- Magnet for quick attach to rack / panel

Specifications

Part number	FFL-050	FFL-055	FFL-100	FFL-105
Form factor	Pocket-sized		Ruggedized	
Dimensions	12.0 x 3.5 x 2.0 cm (4.7 x 1.4 x 0.8 in)		21.0 x 4.0 x 2.6 cm (8.3 x 1.6 x 1.0 in)	
Weight[1]	70 g (2.5 oz)		145 g (5.1 oz)	
Fiber compatibility	Single-mode, Multimode			
Wavelength	650 nm (visible)			
Output modes	Continuous and flashing			
Connector interface	Universal 2.5 mm (fixed) Universal 1.25 mm adapter			
Controls	On / Off Continuous / Flashing			
Battery type	Two AAA		Two AA	
Battery life	45+ hours on continuous	20+ hours on continuous	90+ hours on continuous	50+ hours on continuous
Carrying case	Soft-sided with belt loop			
Warranty	1 year			
Output power	1 mW	5 mW	1 mW	5 mW
Laser safety rating	Class 2	Class 3R	Class 2	Class 3R
Range (maximum)[2]	7 km	12 km	7 km	12 km

1. With batteries installed

2. VFL range depends on many factors, including fiber quality / loss

Ordering Information

Description	Part Number
Visual fault locator (ruggedized) 1mW	FFL-100
Visual fault locator (pocket-sized) 1mW	FFL-050
Visual fault locator (ruggedized) 5mW	FFL-105
Visual fault locator (pocket-sized) 5mW	FFL-055
Universal 1.25 mm adapter for FFL-100 / 105	FFL-U12
Universal 1.25 mm adapter for FFL-050 / 055	FFL-050-U12

VIAVI Solutions

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