KI 6358 Series

Optical Visual Fault Locator

Optical Communications Test Applications

- Fiber identification
- Fiber continuity testing
- Connection polarity testing
- Precise optical fault location
- Cable route location

Revision 5

The KI 6358 visual fault locator is a small, high quality and very low skill fiber cable tester. It has only one button, and an operating range of a few km.

Visible light is injected into the fiber under test, and can be seen from a fiber end, or through most 3 mm cable types at a break or loss point.

Unusually, this pen meets Class 1 safety standards (IEC IEC60825-2 2021) for total emitted power when no fiber is connected, so does not need any special safety eye safety precautions under any condition.

Features

- Very simple and compact
- 2 x AAA alkaline batteries
- Captive dust cap
- Pen-style retaining clip
- Recessed button
- 2.5 mm universal connector
- Selectable Pulsed / CW
- Class 1 Laser/eye safety standards compliant
- Needs no special eye safety procedures
- Durable construction
- 3 years warranty

KI 6358 Series – Optical Visual Fault Locator

The KI 6358 Visual Fault Locators are used to test all fiber types, up to about 5 Km.

A fiber fault or loss point can be easily located since it emits a bright red light. Continuity or polarity testing of a fiber is simply achieved by looking for red light coming out of the fiber bundle. Alternatively, a fiber route can be confirmed by bending a patch lead or fiber so red light leaks out of the side.

This simple tool is useful on short links, or locally on a long link in combination with an OTDR, since an OTDR is not precise.

The universal connector adapter is suitable for 2.5 mm fiber optic connectors, and the ceramic alignment sleeve ensures durable operation. A 1.25 mm universal adaptor is available as optional accessory.

650 nm light is optimized for visibility and distance, and pulsing helps improve this further.

These high-quality instruments are ruggedly constructed from metal and rubber, and can withstand dust and water immersion.

The specially designed captive protective dust cap which is semi-translucent enables user to see if the laser is turned on even with the cap is mounted on the instrument.

The pen and labeling are compliant with eye safety standard IEC60825-2:2021 Class 1, so no special safety procedures are required. This applies to both coupled and total emitted power.

Alternatively, Kingfisher can supply 635nm or 650nm (up to 5mW output) VFL light sources, power meters or loss test sets with 650nm VFL built in. Our unique VisiTester option on some equipment mixes a VFL with a test laser, very useful when testing large patch panels.

For long distance continuity testing up to 250Km, we suggest using either a Fiber Identifier or Power Meter tone detection.

OPTICAL SPECIFICATIONS

Parameters	Value
Wavelength	655 ± 5 nm
Output power (typical)[1]	1.5 mW (1.7 dBm) @ uncoupled 1.3 mW (1.0 dBm) @ 50/125 µm 0.7 mW (-1.3 dBm) @ 9/125 µm
Useful distance/range[2]	Up to 5 Km
Connector	2.5 mm universal
Working mode	CW & 2-3 Hz modulation
Retention force for ferrule	1-2 N
Laser protection class	Class 1, IEC60825-2:2021

Note 1: With PC polish connector. Coupled power into an APC connector is less. Max permissible power for Class 1 laser is 1.95mW. Many purple cables do not.

Note 2: Some cable materials can absorb red light. Standard 3 mm yellow and orange patch leads generally provide good visibility.

GENERAL SPECIFICATIONS

Parameters	Value
Operating temperature	-10 to +45 °C
Storage temperature	-40 to +70 °C
Relative humidity	95%
Power	2 AAA alkaline batteries (not included)
Battery life, Pulsed mode	> 40 hours
Weight	83 g including batteries
Size	18 x 160 mm
Warranty	3 years

ORDERING INFORMATION

Description	Part Number
Instrument, VFL Pocket 650 nm, 2.5 mm, Pulsed & CW	KI 6358

STANDARD ACCESSORIES

Description	Quantity
Rubber grip sleeve with captive dust cap (mounted on instrument)	1
Protective case	1
Operation manual	1

OPTIONAL ACCESSORIES

Description	Part number
Option, Connector Adaptor, 2.5 Male-1.25 mm Female, Ceramic, SM	OPT189

Technical data is subject to change without notice as part of our program of continuous improvements.

AUTHORIZED DEALER

by KINGFISHER INTERNATIONAL

Kingfisher International Pty Ltd
720 Springvale Road, Mulgrave
VIC 3170 Australia

T +61 3 8544 1700
F +61 3 8544 1793
E sales@kingfisher.com.au

kingfisherfiber.com