

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 6

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	1.3 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	IEC60825-2:2021, 21CFR1040.10 ³ (FDA) Class 1 (Fiber Coupled / Uncoupled)

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.

Note 3: Labelling for this product defers to IEC 60825-2 as per CDRH Laser Notices No. 56 (2019). Annual FDA reports are lodged by Kingfisher.

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, Source, Visual Fault Locator Pen VFL, Class 1, Universal 2.5mm	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.

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- Fiber identification
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- Precise optical fault location
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Revision 2

The KI 6359 high power 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 up to 10 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.

This pen meets Class 2M laser/eye safety standards IEC 60825-2: 2021, 21CFR 1040.10 (FDA).

Features

- Very simple and compact
- 2 x AAA Alkaline batteries
- 10 Km operating range
- Pen-style retaining clip
- Single button for operations
- 2.5 mm universal connector
- Selectable Pulsed / CW
- Class 2M laser/eye safety standards compliant
- Durable construction
- 3 years warranty

KI 6359 Series – Optical Visual Fault Locator

The KI 6359 Visual Fault Locators (VFL) is used to test all fiber types, up to about 10 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.

OPTICAL SPECIFICATIONS

Parameters	Value
Wavelength	655 ± 5 nm
Output power ¹	< 5 mW (7 dBm) into SMF < 6 mW (7.8 dBm) into 50/125 µm MMF
Useful distance/range ²	Up to 10 Km
Connector	2.5 mm universal
Working mode	CW & 2-3 Hz modulation
Retention force for ferrule	1-2 N
Laser protection class	IEC60825-2:2021, 21CFR1040.10 ³ (FDA) Class 2M (Fiber Coupled / Uncoupled)

Note 1: With PC polish connector. Coupled power into an APC connector is less. Max permissible power for 650 nm fiber coupled laser of Class 2M is 9.7 mW.

Note 2: Some cable materials can absorb red light. Standard 3 mm yellow and orange patch leads generally provide good visibility. Many purple cables do not. Typical guidance only, may be less.

Note 3: Labelling for this product defers to IEC 60825-2 as per CDRH Laser Notices No. 56 (2019). Annual FDA reports are lodged by Kingfisher

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	Up to 40 hours
Weight	83 g including batteries
Size	18 x 160 mm
Warranty	3 years

This high-quality instrument is ruggedly constructed from metal and can withstand dust immersion.

The VFL's power is compliant with Class 2M of laser/eye safety standard IEC60825-2:2021 for coupled or uncoupled 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.

ORDERING INFORMATION

Description	Part Number
Instrument, Source, Visual Fault Locator Pen VFL, Class 2M, Universal 2.5mm	KI 6359

STANDARD ACCESSORIES

Description	Quantity
Operation manual	1
Dust cap	1
Protective case	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



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