

KI 6171 SERIES

OPTICAL FIBER IDENTIFIER



OPTICAL COMMUNICATIONS TEST APPLICATION

- Positive identification of fibers carrying traffic
- Positive identification of fibers carrying a test tone
- Approximate indication of optical power level
- Continuity testing of unterminated fibers
- Find mid-span point loss using power display



Revision 4

The Kingfisher Optical Fiber Identifier is a craft tool used during installation and maintenance of fiber optic systems.

These reliable instruments are easy to use and will enhance the performance of your staff.

FEATURES

- Very easy to operate. No menu!
- Thumb lock for consistency & hands free operation
- 4 easy-change chucks for:
bare fiber, patch cords & ribbon fiber
- Identifies 3 common test tones
- Identifies dominant traffic direction, audible alarm
- Approximate core power reading
- Low false detection & insertion loss
- 12 month warranty
- Common alkaline battery

The KI 6171 Tone and Traffic Identifiers are rugged, easy to use instruments used to identify optical test tones, live traffic and optical power levels in single mode fiber. They are commonly used to positively identify fibers to avoid accidentally disconnecting live systems, and for general checking of continuity, faults or mid-span loss points.

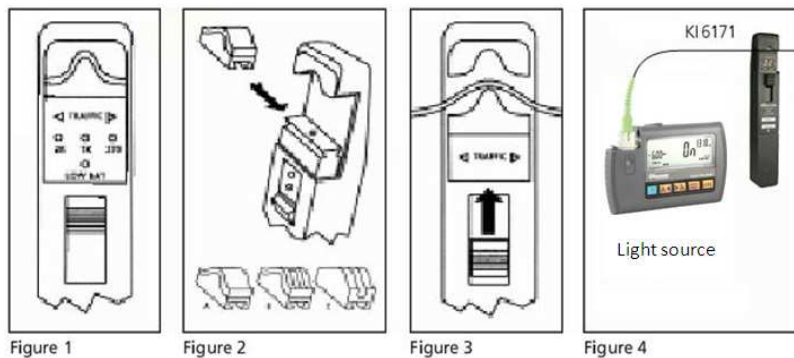
The instruments are simple and reliable to use with one hand. They can detect a variety of optical tones, which can be

provided by any Kingfisher laser source.

When traffic is present, an audible tone can be heard as well as LED indication of traffic direction and estimated core power.

Various field interchangeable chucks are supplied, and enable rapid re-configuration for a variety of fiber cord diameters.

The approximate core power in the fiber is measured and displayed on a two-digit display.



SPECIFICATIONS

Parameters	Value
Detected tones	270 Hz, 1 kHz, 2 kHz
Detected λ	800 to 1700 nm
Audible tones	Audible tones depends on traffic / test tone
Fiber types	SMF: ribbon, 250 μm, 900 μm, 2 mm, 3 mm
Fiber Slack	12 mm (0.5")
Power reading ¹	+10 to -50 dBm
Detection Sensitivity ¹	-46 dBm Typ @ 1310 nm -50 dBm Typ @ 1550 nm
Insertion loss, typ 250 μm	≤ 0.4 dB @ 1310 nm ≤ 2.5 dB @ 1550 nm
Insertion loss, typ 3 mm	≤ 0.5 dB @ 1310 nm ≤ 2.5 dB @ 1550 nm

Note:

1. Mean detectable signal power for 250 μm singlemode fiber at 1310 nm. This will also depend on the fiber type, fiber coating pigmentation and patch cord construction.

GENERAL SPECIFICATIONS

Parameters	Value
Warranty	18 month
Size	209 x 33 x 31 mm (8.5 x 1.3 x 1.3")
Weight	215 gm (7.6 oz)
Power	9 V PP3 Alkaline battery, Low battery detector, Auto turn-off, 10,000 readings typ
Display	Traffic direction, Tone frequency, Low battery, Self test, Relative core power
Operating/Storage Temperature	-10 to +60 °C / -25 to +70 °C
Humidity	0 to 95% non-condensing

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

ORDERING INFORMATION

Description	P/N
Tone and Traffic Identifier	KI 6171

A test tone source is required to use the tone detection feature on these instruments. Please refer to any Kingfisher Light Source.

STANDARD ACCESSORIES

Description	Quantity
SMF, 2 mm chuck (OPT620)	1
SMF, 3 mm chuck (OPT621)	1
SMF, 900 µm chuck (OPT622)	1
SMF, ribbon & 250 µm chuck (OPT623)	1
Pouch	1
Battery	1
Manual	1
Wrist strap	1

Also available from kingfisher: Light Source, Power Meter, Loss test Set, OTDR, Attenuator, Talk Set, Cold Clamp, Visible Pen.

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