KI 6171 Series

Optical Fiber Identifier

Optical Communications Test Applications

- 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 8

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.
- 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
- Slide-on compartment for chuck storage
- AAA size batteries
- 1-year warranty

KI 6171 Series – Optical Fiber Identifier

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 accidently 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. Chucks not in used are securely stored and conveniently carried along with the equipment in the slide-on compartment hence reducing chances of those chucks being misplaced.

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

OPTICAL SPECIFICATIONS

Parameters	Value
Tone detection	270 Hz, 1 kHz, 2 kHz
λ detection	800 to 1700 nm
Audible tones	Audible tones depend on traffic / test tone
Fiber types	SMF: ribbon, 250 μm, 900 μm, 2 mm, 3 mm
Power detection range[1]	-50 ~ 10 dBm
Fiber Slack	12 mm (0.5")
Tone detection range	*900 μm, 2 mm, 3 mm:* -30~0 dBm @ 270Hz & 1KHz, -25~0 dBm @ 2KHz *250μm:* -25~0 dBm @1KHz &2KHz, -20~0 dBm @ 2KHz
Insertion loss (typical)	0.8 dB (1310 nm) 2.5 dB (1550 nm)

Note1: CW in 0.9mm bare fiber

GENERAL SPECIFICATIONS

Parameters	Value
Size	196x 30.5 x 27 mm (7.7 x 1.2 x 1.1")
Weight (excluding chuck & battery)	200 gm (7.1 oz.)
Power	2x AAA size batteries (alkaline or NiMH)
Battery life	15 hours (may vary with battery type used)
Display	Traffic direction, Tone frequency, Low battery, Relative core power
Slide-on chuck compartment	Houses 3 standard chucks
Operating / Storage Temperature	-10 ~ 60 °C / -25 ~ 70 °C
Warranty	1 year

ORDERING INFORMATION

Description	Part number
Instrument, Fiber Identifier (Tone) + 4 Fiber Chucks	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 (OPT621)	1
SMF, 3 mm chuck (OPT624)	1
SMF, 900 µm chuck (OPT622)	1
SMF, ribbon & 250 µm chuck (OPT623)	1
Carry pouch	1
AAA battery	2
Operation manual	1
Wrist strap	1

OPTIONALACCESSORIES

Description	P/N
Option, Clip-On Probe FC-PC 1300-1550 nm (20 ~ 30 dB typical coupling loss[2])	OPT130

Note 2: The Clip-On coupling loss is 17 dB under ideal conditions, however 20 ~ 30 dB is often achieved under practical conditions.

AUTHORIZED DEALER

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History Record

Revision	Date	Editor	Change Description
8	17Apr2018	TO Ng	Added OPTIONA: ACCESSORIES section with OPT130 (Clip-on Coupler).

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