OFI-BI Series Optical Fiber Identifiers — One Shot, Detects All!

OFI-BIPM

OFI-BI

Features

- World class signal detection sensitivity
- Optional ONU signal detection function
- Integrated optical power meter option
- Trigger lock, positive stop for optimum detection
- 2.4" color touchscreen with backlight
- Brightness and buzzer volume control

Applications

- Maintenance of fiber optic networks
- Troubleshooting network issues
- Customer turn-up for FTTx networks
- Identification of live fibers
- Power levels verification (–BIPM model)

The OFI-BI and –BIPM are easy-to-use tools that determine if a fiber is live, the transmission direction and the relative core power on standard and bend-insensitive single-mode fibers. Its positive stop plunger mechanism provides the right pressure to assure proper detection while keeping loss to a minimum. The design assures traffic will not be interrupted and fibers will not be damaged.

The OFI-BI fiber identifier eliminates the need to access the optical fiber at a connection or splice point, eliminating the possibility of interrupting service to a valued customer. The –BIPM model provides an integrated optical power meter for easy verification of power levels during installation or troubleshooting activities.

These OFIs do not require changing adapter heads for jacketed, coated or ribbon fibers, making them extremely easy to use in the field. The touchscreen features provide easy to follow setup and clear, easy to read results.

OFI-BI Series Optical Fiber Identifier

Specifications[a]

OPTICAL (OFI)	OFI-BI & OFI-BIPM MODELS			
Fiber Type	0.25 mm SM fiber and SM ribbon fiber (up to 12 ribbon fiber) 1.1 mm/1.5 mm/1.7 mm/2.0 mm/3.0 mm SM jacketed fiber			
Optical Characteristic	Wavelength Range	900 to 1700 nm		
	Detectable Light Signals	CW, Traffic or 270 Hz/1 kHz/2 kHz Modulated light [b]		
	ONU Detector[c]; Operating Range[c]	G(E)-PON upper stream signal; -7.5 to +9.0 dBm G(E)-PON down stream signal; -25.5 to -6.2 dBm VCAST down stream signal; -12.0 to +3.3 dBm B-PON upper stream; -5.5 to +4.0 dBm B-PON down stream; -20.6 to -11.7 dBm		
Insertion Loss & Minimum Detect Level [d]	Fiber Type	@1310 nm	@1550 nm	@1650 nm
	0.25 mm (R=30 mm), Ribbon	0.2 dB/-58 dBm; -53/-64 dBm	1.0 dB/-67 dBm; -62/-73 dBm	2.5 dB/-67 dBm; -62/-73 dBm
	0.25 mm (R=15 mm)	0.1 dB/-44 dBm; -39/-50 dBm	0.3 dB/-57 dBm; -52/-63 dBm	1.0 dB/-57 dBm; -52/-63 dBm
	0.5 mm (R=15 mm)	0.2 dB/-58 dBm; -53/-64 dBm	1.0 dB/-67 dBm; -62/-73 dBm	2.5 dB/-67 dBm; -62/-73 dBm
	1.1 mm/1.5 mm Jacketed	0.3 dB/-43 dBm; -37 dB/-53 dBm	1.0 dB/-55 dBm; -50/-61 dBm	2.5 dB/-57 dBm; -52/-63 dBm
	1.7 mm/2.0 mm Jacketed	0.5 dB/-22 dBm; -17 dB/-28 dBm	2.0 dB/-27 dBm; -22/-33 dBm	3.0 dB/-27 dBm; -22/-33 dBm
	3.0 mm Jacketed	1.0 dB/-20 dBm; -15/-25 dBm	3.0 dB/-23 dBm; -18/-28 dBm	3.0 dB/-23 dBm; -18/-28 dBm

POWER METER	OFI-BIPM MODEL
Wavelength	1310 nm, 1490 nm, 1550 nm
Detectable Light Signal	CW, Traffic or 270 Hz/1 kHz/2 kHz Modulated light
Detector Sensitivity	+10 to -60 dBm at modulated tone; +10 to -40 dBm at CW or Traffic[b]
Accuracy[e]	±0.3 dB @1310/1550 nm; ±0.6 dB @1490 nm

GENERAL	OFI-BI & OFI-BIPM MODELS
Operation Conditions	-10 to +50 °C, 0 to 95 % RH (non-condensing)
Storage Conditions	-20 to +60 °C, 0 to 95 % RH (non-condensing)
Power Supply	2 x AA batteries; 1.2 to 1.5 V DC
Battery Life	8 hours[f]
Dimensions (W x H x D)	5.0 x 11.5 x 21.2 cm (1.9 x 4.5 x 8.3 in)[g]
Weight	230 g (8.1 oz) including battery

Notes:
a. All specifications valid at 25°C unless otherwise specified.
b. Traffic is a light signal modulated by a random data sequence.
c. ONU Signal detection requires waveform optimization. The Operating Range (Core Power) varies due to coating material, color, etc.
d. Typical value. The minimum detect level (core power) and the insertion loss varies due to coating material, color, etc.
e. Under the condition of temperature 25°C -20 dBm.
f. Using 2 Alkaline AA Batteries.
g. Except protruding part.

International Sales and Service Contact Information

Available at www.AFLglobal.com/Test/Contacts

www.AFLglobal.com or (800) 321-5298, (603) 528-7780