

OFI-BI and OFI-BIPM Series Optical Fiber Identifiers



Features

- World class signal detection sensitivity
- Trigger lock, positive stop for optimum detection
- Integrated optical power meter option (-BIPM model only)
- 2.4" color touchscreen with backlight
- Optional ONU signal detect function - customer ONU wave profile must be provided

Applications

- Maintenance of fiber optic networks
- Troubleshooting network issues
- Identification of live fibers or trace fibers
- Power levels verification (-BIPM model only)

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 verification of power levels during installation or troubleshooting activities. The universal head of these OFI's eliminates the need to change adapter heads for jacketed, coated or ribbon fibers, making them extremely easy to use in the field. The touchscreen features provide simple to follow setup and clear to read results.

OFI-BI and OFI-BIPM Optical Fiber Identifiers are warranted against defective material and workmanship for a period of one year from the date of delivery to the end user.

Ordering Information

DESCRIPTION	AFL NO.
BI Optical Fiber Identifier	OFI-BI
BI Optical Fiber Identifier with integrated Optical Power Meter. The kit includes one 2.5 mm Universal Power Meter Port Adapter, BIPM-00-25.	OFI-BIPM
OPTIONAL OFI-BIPM ADAPTERS (ordered separately)	
OFI-BIPM 2.5 mm Universal Power Meter Port Adapter	BIPM-00-25
OFI-BIPM SC Power Meter Port Adapter	BIPM-00-SC
OFI-BIPM FC Power Meter Port Adapter	BIPM-00-FC
OFI-BIPM ST Power Meter Port Adapter	BIPM-00-ST
OFI-BIPM LC Power Meter Port Adapter	BIPM-00-LC

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 (IL) & Minimum Detect Level ^d at Normal, Fast or Fine operation mode	Wavelength	1310 nm		1550 nm		1650 nm	
	Fiber Type	IL (dB)	Normal/Fast/Fine (dBm)	IL (dB)	Normal/Fast/Fine (dBm)	IL (dB)	Normal/Fast/Fine (dBm)
	0.25 mm (R=30 mm)	0.2	-58/-53/-64	1.0	-67/-62/-73	2.5	-67/-62/-73
	0.25 mm (R=15 mm), Ribbon	0.1	-44/-39/-50	0.3	-57/-52/-63	1.0	-57/-52/-63
	0.5 mm (R=15 mm)	0.2	-58/-53/-64	1.0	-67/-62/-73	2.5	-67/-62/-73
	1.1 mm/1.5 mm Jacketed	0.3	-43/-37/-53	1.0	-55/-50/-61	2.5	-57/-52/-63
	1.7 mm/2.0 mm Jacketed	0.5	-22/-17/-28	2.0	-27/-22/-33	3.0	-27/-22/-33
	3.0 mm Jacketed	1.0	-20/-15/-25	3.0	-23/-18/-28	3.0	-23/-18/-28

POWER METER (OPM)	OFI-BIPM MODEL (Only)
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:

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



International Sales and Service Contact Information

Available at www.AFLglobal.com/Test/Contacts