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OFI-FTTx Active ONT Detector

The OFI-FTTx is a rugged, hand-held optical fiber identifier designed to identify the presence or absence of an active Optical Network Terminal (ONT) on FTTx F2 fibers at the Fiber Distribution Hub (FDH). During a test the F2 fiber does not have to be removed from service. Thus the OFI-FTTx can verify whether a splitter pigtail at the FDH is connected to an active circuit before it is disconnected for fault location or re-use. The OFI-FTTx can help verify FTTx network records and recover splitter pigtails and F2 fibers that are connected at the FDH but, in fact, are available for new customers.

When applied to a splitter pigtail at the FDH, the OFI FTTx will report either that the ONT is 'Active' or 'Not Detected'. Time to complete each test is typically one second. The OFI-FTTx is compatible with 2mm jumper cable containing standard single-mode fiber, such as SMF-28e®, or bend insensitive fiber (BIF) with a 15mm bend radius specification, such as AFL Bend Insensitive.

The OFI-FTTx is powered by two standard AA alkaline batteries, provides a low battery indication, and can typically be operated 800 times before battery replacement is necessary.

OFI-FTTx Active ONT Detector
US Patent #7916983

Features

- Rugged, hand-held, lightweight
- In-service detection of upstream (1310 nm) activity on FTTx networks
- Determines which unparked splitter pigtails are connected to ONTs
- Does not require travel to customer (ONT) site
- Does not require disconnect of splitter pigtails
- Visual and audible indicators
- Battery operated
- Low battery indication

Applications

- FACILITY RECOVERY:
  Harvest unparked splitter legs and F2 fibers not connected to subscribers.
- TROUBLE-SHOOTING: Real-time confirmation of OLT to ONT connectivity at the FDH.

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Specifications [a]

MODEL	OFI-FTTX
Network Types	FTTx BPON, GPON, EPON, ≥1:4 splitter ratio
Network Locations	Between splitter and customer ONT
Fiber Type	2 mm jacketed SMF-28e®, 15mm bend radius AFL Bend Insensitive, and equivalents
Induced Loss (typ.)	<1 dB @ 1550 nm
Test Time (typ.)	1 sec
Operating Range [b]	Loss from ONT to FDH: 0 to 7 dB (BPON), 0 to 9 dB (GPON, EPON)
User interface	Audio indicator and four red LEDs
Power	2 x AA batteries
Battery Life	800 tests typical
Operating Temperature	-10 °C to 40 °C
Storage Temperature	-20 °C to 50 °C
Dimensions (H x W x D)	22 x 3.8 x 3.2 cm (8.5 x 1.5 x 1.25 in)
Weight	0.23 kg (0.5 lbs)

Notes:

a. All specifications valid at 25 °C unless otherwise specified.

b. Maximum values are typical and depend on fiber type and jacket material.

Ordering Information

INCLUDES	AFL NO.
OFI-FTTx, user's guide, and carry case	OFI-FTTx

Authorized Channel Partner

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