OFI-FTTx Active ONT Detector Quick Reference Guide

General Information

The OFI-FTTx is a rugged, handheld 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.

Please check our web site at **www.AFLtele.com/go/Noyes** for updates to this Reference Guide and additional application information. If you have any questions about your OFI-FTTx, or if you need technical or sales support, please contact Noyes Customer Service.

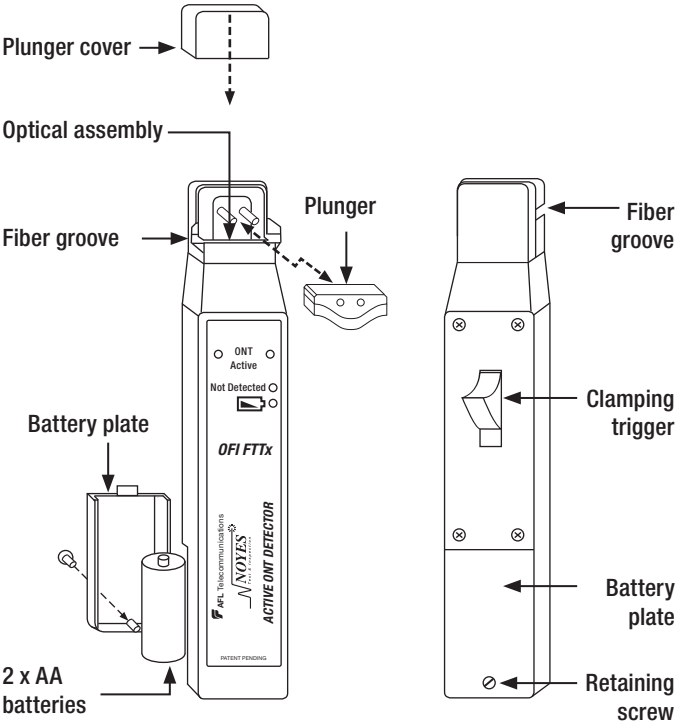
Contacting Customer Service

You may call Noyes Customer Service between 8 AM and 5 PM, United States Eastern Time.

Phone 800-321-5298
603-528-7780
Fax 603-528-2025
Mail noyestechsupport@afltele.com

OFI-FTTx Description

Hardware Features



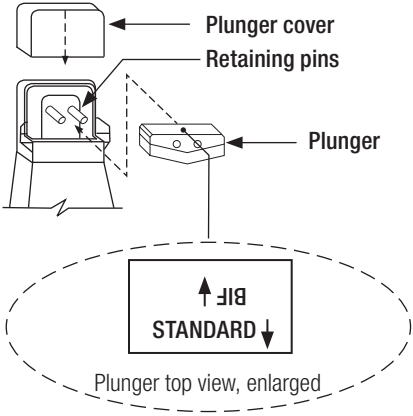
OFI-FTTx Indicators

Indicator	Description
ONT Active	Illuminates to identify the presence of an active Optical Network Terminal (ONT) on FTTx F2 fibers.
Not Detected	Illuminates to identify the absence of an active Optical Network Terminal (ONT) on FTTx F2 fibers.
	Illuminates to indicate a low battery condition.

Testing Fibers

Time to complete each test is typically one second. The OFI-FTTx is compatible with 2mm jacketed SMF-28e ®, 15mm bend radius AFL Bend Insensitive (BIF), and equivalents.

NOTE: It is important to place the plunger in the correct position.



To place the plunger in the correct position

1. Remove the plunger cover.
2. Make sure the plunger is oriented in the correct position. If not, lift the plunger from the two retaining pins. Rotate the plunger as follows:

To test standard fibers	To test BIF fibers
The side labeled “STANDARD” is facing out and will be used for aligning the tested fiber	The side labeled “BIF” is facing out and will be used for aligning the tested fiber

3. Replace the plunger and plunger cover.

To test fibers

1. Select the splitter pigtail to be tested.
2. Gently insert the fiber being tested into the fiber groove at the top of the OFI-FTTx head.
3. Pull down and hold the trigger to depress the fiber against the optical assembly.
4. Once the trigger is completely retracted, the OFI-FTTx will power up and light up the appropriate indicator.
   - If the fiber is carrying service, the [ONT Active] indicator will illuminate showing the presence of service.
   - If no signal is present, the [Not Detected] indicator will light up.

Replacing Batteries

The OFI-FTTx is powered by two standard AA alkaline batteries. When the [Battery] indicator illuminates, the discharged batteries require replacement.

To replace the discharged batteries:

1. Remove the retaining screw and slide the battery plate away from the unit.
2. Replace the discharged batteries.
3. Replace the battery plate and retaining screw.

Cleaning Optical Assembly

Note: For cleaning the OFI-FTTx optical assembly, use lint-free optical cleaning wipes and 99% IPA (isopropyl alcohol) that has not been contaminated. Do not immerse the plunger assembly in alcohol.

1. Remove the plunger cover.
2. Lift the plunger from the two retaining pins.
3. Dampen the wipe with the alcohol and gently clean the exposed prism and optical windows.
4. Once completed, replace the plunger and plunger cover.

Repair and Calibration

Repair of the Noyes test equipment in the field is NOT recommended. Calibration is recommended every 12 months. Noyes Calibration Department is in compliance with ANSI/NCSL Z540-1, ISO 10012-1, MIL STD 45662A, ISO Guide 25 and traceability to the National Institute of Standards and Technology. Call Customer Service to obtain a Service Request (S.R.) number before sending units in for calibration.

Specifications

Model	**OFI-FTTx**
Network Types	FTTx BPON, GPON, EPON, ≥ 1:4 splitter ratio
Network Locations	Between splitter and customer ONT
Fiber Type	2mm jacketed SMF-28e ®, 15mm bend radius AFL Bend Insensitive (BIF), and equivalents
Induced Loss (Typ)	< 1 dB @ 1550 nm
Test Time (Typ)	1 sec
Operating Range*	Loss from ONT to FDH: 0 – 7 dB (BPON), 0 – 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 to 40°C
Storage Temperature	-20 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)

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

NOYES
Test & Inspection

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www.AFLtele.com /1.800.321.5298 /1.603.528.7780