

Field Access Test Unit

The Telephone Technician's Ultimate Assistant

Assistance for the Technician

The Telco Sales, Inc.® Field Access Test Unit (FATU) is designed to assist the Field Technician in maintaining the Local Telephone Loop.

The FATU assists in identifying, locating, and clearing telephone cable troubles in an efficient and timely manner. The FATU performs essential tasks that eliminate travel back and forth along the cable route while clearing trouble.

How It Works

The FATU can be inserted into the customer's line at the Central Office, Remote Carrier Terminal Cross-Connect Boxes, Cable Cross-Connect Boxes, or any other location along the cable route. The FATU is virtually invisible to the customer's line.

The FATU can be accessed in two ways:

1. By remotely calling the telephone number of the line under test.
2. From the field side of the FATU on the cable pair under test.

When the line is called by the technician or anyone else, the FATU will answer after the third ring with this announcement: "We're sorry; a telephone technician is presently working on this line. Please try your call again in a few minutes."

If the FATU does not receive a DTMF line conditioning command by the end of the second announcement, it will simply hang up.

Description of the FATU

The FATU is a microcontroller-based unit, making it highly reliable and accurate. The unit is contained in a small ABS plastic housing with an On/Off push button switch, 3 LED function indicators, a low battery LED indicator, and 2 RJ-45 jacks. It is powered by a 9-volt alkaline battery. The FATU-1 test set comes equipped with two test cords and a nylon water resistant carrying case with a compartment to store the test cords.



Model FATU

Ordering Information

| | |
|----------------|--|
| Model FATU-1 | FATU Test Set: consists of a FATU, (2) test cords, and carrying case |
| Model FATU | Field Access Test Unit |
| Model FATU-C | Carrying Case for FATU |
| Model FATU-TC1 | Test Cord for FATU, RJ-45 to 5 color-coded alligator clips |
| Model FATU-TC2 | Test Cord for FATU, RJ-45 to 4 color-coded alligator clips |

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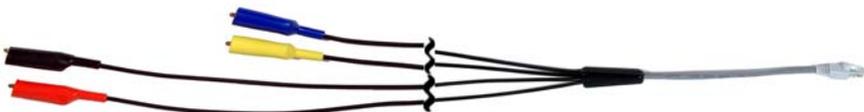
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| FATU Line Conditioning | Allows the technician to perform these functions |
|--------------------------------|---|
| Open Line | Test line with battery and ground removed |
| Short Tip & Ring | Perform a single-sided resistive fault locate or measure loop resistance |
| Open Line and Short Tip & Ring | Test line and locate resistive fault with one command |
| Separate Pair Strap | Locate resistive fault when the line has two-sided fault, such as a short or Tip and Ring ground |
| ID Tone | Identify and locate a cable pair |
| 12-Tone Sequence | Send 12 tones in the voice frequency band to test transmission quality of the line Important: This test is essential for trouble reports, such as a computer running slowly, caller ID not working, squealing on the line, getting the wrong numbers when dialing, etc. |
| Short Tip & Ring to Ground | Test and ensure equal resistance in Tip and Ring |
| Remotely Cut Line Thru | Remotely cut the line thru when the FATU is initially placed in open mode |
| Remotely Open Line | Remotely open the line when the FATU is initially placed in cut thru mode |

The line condition commands are programmed to allow the technician sufficient time to perform the desired function.



Model FATU-TC1



Model FATU-TC2

Specifications

| | |
|-----------------------------------|--|
| Internal Loop Resistance | <10 ohms |
| Insertion Loss | Voice band <0.2 dBm 1.5 MHz <0.5 dBm |
| 12 Tone Sequence | 404 Hz to 4000 Hz ± 0.1% @ 0 dBm (includes MW 1004 Hz) |
| External Voltage Tolerance | Up to 250 volts |
| Power | One (1) 9 Volt Alkaline Battery |
| Battery Life | 10–12 weeks |
| Dimensions | 5 ½" X 3 ¼" X 1 ½" |
| Weight | 9.8 ounces |
| Housing | ABS plastic |
| Operating Temperature | –40° to 65° C |
| Storage Temperature | –40° to 85° C |



Model FATU-C