

Pair identification and much, much more

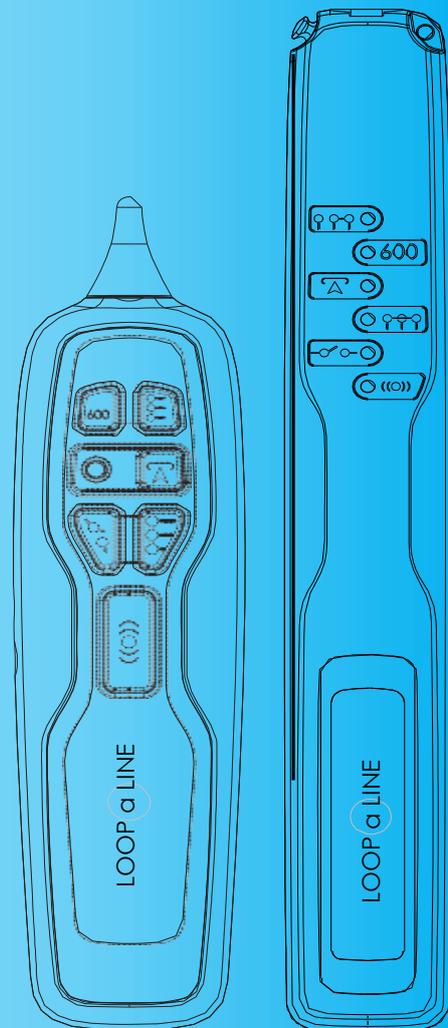
# TX916 Loop-a-Line<sup>®</sup>

TX916, the Loop-a-Line for efficient telephone installation and repair.

The TX916 is ideal for new service installation and repairs. Cable faults will be found faster and service restored more quickly with the TX916 in the technician's tool kit.

Using the Probe, Identify the Pair and control the line termination at the Oscillator

- Open Circuit
- Short Circuit
- Connect Service
- 600  $\Omega$  ohm quiet line
- Pair short circuit detection



*teletech*

# TX916 Loop-a-Line®

**A proven concept in cable practice which reduces service costs!**

The TX916 provides the telecommunications technician with an instrument that cuts repair and installation costs!

The TX916 Loop a Line kit consists of an Oscillator and a Probe unit and two sets of test leads.

A single technician, working alone, can connect the Oscillator to the cable pair at the exchange MDF, street cabinet or distribution point. The Oscillator starts in the 'TONE' mode allowing the technician to identify the pair at the Far End of the Line with the Probe. Extra Oscillators can operate on separate pairs of a cable and are identified by the different tones available. More than one Oscillator can be used on the cable. They are identified by the different tones.

After pair identification, connect the Probe leads to the pair and signal the Oscillator by pressing the Probe's OPEN' or 'SHORT' buttons. This allows the connection of other test equipment to perform tests such as:

- Foreign battery
- Insulation resistance
- Loop resistance
- Resistance balance checks
- Fault finding using a TDR or Resistance Bridge.

After repair or installation, a final press of the 'EXCHANGE CONNECT' button connects the customer's service to the switch to provide dial or ring-back checks.

## 5 WAYS TO BETTER SERVICE PROVISION

1. Press **TONE**  to identify the cable pair
2. Press **OPEN**  to disconnect the line for Foreign Battery and Insulation Resistance testing
3. Press **SHORT**  or  to loop the line for loop resistance, Resistance balance and Resistive fault location tests
4. Press **CONNECT**  to restore the service
5. Press **600 Ω 600** for a quiet line

## BENEFITS OF TX916 LOOP a LINE

- One technician can work unassisted by using the probe to remotely control an oscillator
- Eliminates multiple journeys along the cable path
- Six mode selectable switching
- Battery level indicator

## Technical Specifications

### OSCILLATOR

Battery 9V alkaline IEC6LR61

LED low battery indication

Short circuit detection, foreign battery reverse polarity

Weight: 110g

Dimensions: 240mm x 35mm x 25mm

### Mode 1: Tone (Pair I/D)

Tone output 1kHz-2kHz

Selectable warble (default), continuous, two tone beeps repeating and three tone beeps repeating

Enable/disable buzzer for short circuit and foreign battery reverse polarity detect

Max consumption, 8.80mA (70.5 hours, 580mAh battery)

Tone output level into Line +9.1dBm into 600 Ω (Ohm)

Output impedance 600 Ω (Ohm)

### Mode 2: Open Circuit

Current consumption approx. 0.75mA

Resistance between terminals > 1G Ω (Ohm)

Max open circuit voltage 500V dc

Line Balance: 54pF (black clip-red clip), 58pF (black clip-ground plane), 72pF (red clip-ground plane)

### Mode 3 & 4: or Short Circuit

Current consumption approx. 0.75 mA

Max short circuit current 2A

Resistance between terminals, <0.30 Ω (Ohm)

### Mode 5: Connect

Current consumption approx. 0.75mA

### Mode 6: **600 600 Ω ohm termination**

600 Ω ohm cable pair termination, configuration for noise measurement.

Current consumption approx. 0.75mA

### PROBE

Battery 9V alkaline IEC6LR61

Low battery indication using low frequency beep

Tone receiver, loudspeaker or earphone output (<2000 )

High and low tone sensitivity settings

Tone receiver automatic power off after 2 minutes

Max current consumption approx. 98mA

Current consumption in other modes <1uA

Green/Red LED shows exchange connected

Weight: 130g

Dimensions: 200mm x 50mm x 28mm



Quality  
ISO 9001

