

Pair Identification and much, much more

# TX916 Loop a Line™

## New improved model

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

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

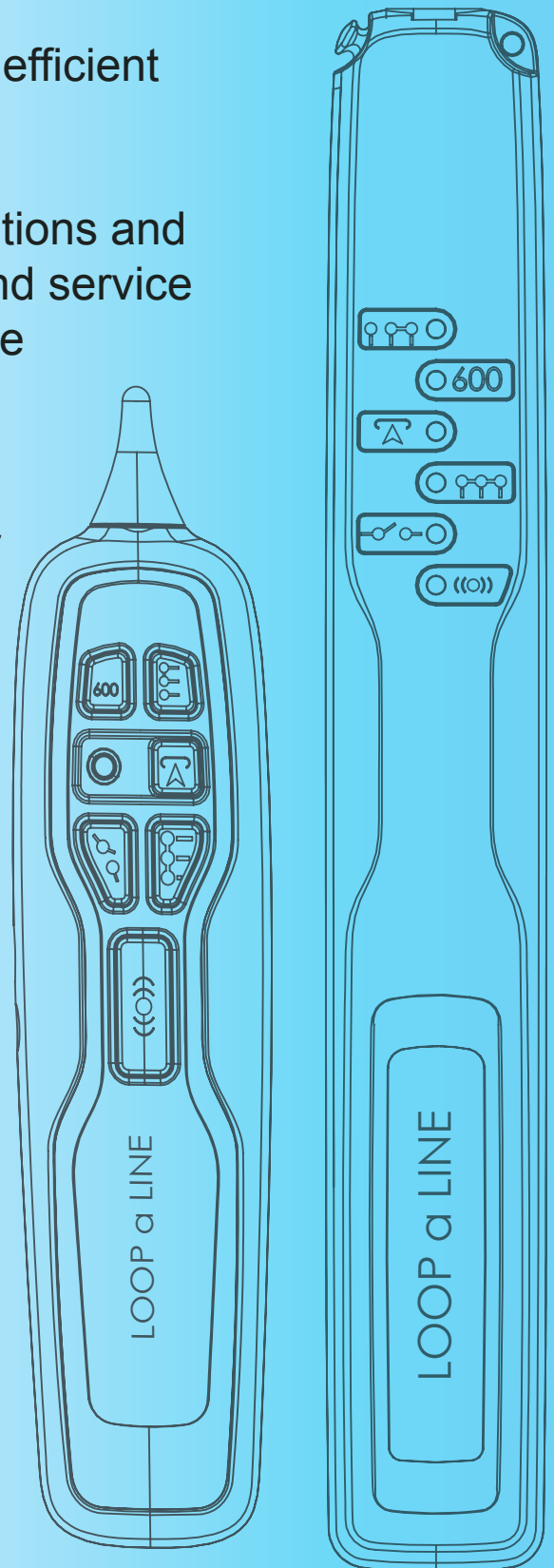
Using the Probe, identify the pair and control the line termination at the oscillator

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

Fully  
compatible  
with previous  
models of  
Loop a Line

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# TX916 Loop a Line™



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

The Loop a Line has been improved.

The new 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.

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 '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 and

### 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

### IMPROVEMENTS OVER PREVIOUS MODEL

- New stronger ergonomic cases
- Operates over longer distances
- Oscillator remembers last tone selected
- Oscillator sounds if line short circuits
- Oscillator displays selected modes
- Battery level displayed

### 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 hours, 580mAh battery)

Tone output level into Line +9 dBm into 600 Ω

Output impedance 600 Ω

#### Mode 2: ↯↯ Open Circuit

Current consumption approx. 0.75mA

Resistance between terminals > 1G Ω

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: ↑↑↑ ↑↑↑ Short Circuit ( with/without ground )

Current consumption approx. 0.75 mA

Max short circuit current 2A

Resistance between terminals, <0.30 Ω

#### Mode 5: ↗ Connect

Current consumption approx. 0.75mA

#### Mode 6: 600 600 Ω termination

600 Ω 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 (<2000Ω )

High and low ( - 6dB ) tone sensitivity settings

Tone receiver automatic power off after 2 minutes

Max current consumption in TONE mode 98mA

Current consumption in other modes <1uA

Green/Red LED shows exchange connected

Weight: 130g

Dimensions: 200mm x 50mm x 28mm