

Requisition NO. 48115038 dtd. 12/2/14.

TECHNICAL SPECIFICATION FOR CABLE FAULT LOCATOR

The TDR based Cable fault locator must be suitable for use by a wide range of operation of all levels of technical knowledge. It must be capable of measuring distance to fault in telecom and signaling cables, LV Power cables, Highway street lighting. :

The instrument should be able to locate the following faults : open, short, load coils, bridge taps/laterals, cross, splice/joint & water in copper cables.

The instrument should have following features :

- Instrument should have two pair test capability
- Should be splash and drip proof
- Should have single button zoom function
- Should have splits/crosstalk mode
- Should measure distance to fault in meters, feet or time
- Should have left/right buttons to navigate through the cable length

Physical Specification:

Size: 141 x 211 x 43mm  
 Weight: ≤ 1.1 kg  
 Power Supply: 6 x AA Battery  
 Power operating time: > 4.5 hours with backlight off  
 Battery Saver: Selectable for 5 to 30 min or disabled

Test Signal Output	1/2 Sine, balanced
Amplitude	6V into 105
Output Impedance	105 nominal
Pulse Widths	5 ns to 2500 ns
Input Protection	+200 V, DC + peak AC, to a maximum of 440 Hz
Maximum Range	15,000 m (45,000 ft.) depending on cable type and condition
Accuracy	+/- 3ft at 10000 ft
Cursor Resolution	0.4% of selected range
Display	5.25in high-contrast, high-resolution, backlit LCD, 520 x 200 pixels.
Display size	12.4 x 6.4 cms
Display Ranges	Eleven automatic display ranges plus single-button expand window
Filter	High pass, cut off frequency 150 kHz, user selectable
Amplifier	5 mV reflection produces a full-screen vertical deflection
Gain	0 to 63 dB
Horizontal Design Accuracy	0.01% ± 300 ps ± Vp uncertainty ± cursor resolution.

Standard accessories:

The equipment comes with Test Leads (Two Sets), Soft carrying case with shoulder strap, 6 x AA Alkaline batteries.

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West Central Railway, KOTA

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