



CX40

Cable Expert - TDR/Toner

Product Description

The CX40 is a handheld Time Domain Reflectometer (TDR) equipped with multiple distance range scales covering a 4000 meter measurement range. Up to eleven high resolution distance scales and superior dead zone performance ensure both near and far end events are displayed with great precision on the 128 x 64 pixel backlit LCD.

Novice users will benefit from the Auto Fault Location mode which automatically moves a cursor directly to the first event on a symbolic trace, thus eliminating the need to visually interpret complex TDR waveforms. For experienced cable or outside plant technicians, a Manual mode is available to display and interpret the waveform as on conventional TDRs.

In either operating mode, up to 64 dB of variable gain allows the user to magnify the event amplitude, while a scan lock feature captures and holds the trace for closer examination. Equipped with 25, 50, 75, 100, and 120 ohms impedance matched circuits and Velocity of Propagation (Vp) settings ranging from 1-99%, identifying and locating faults on all metallic cables with two or more insulated conductors is drastically simplified.

Housed in a rugged IP54 rated ABS enclosure and weighting only 350 grams (12 ounces), the CX40 is suitable for troubleshooting most power, data, communication, and CCTV cables.

Key Features

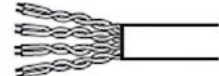
- Auto Fault Location
- Rugged Palm-top design
- Weighs less than 350 g (12 oz)
- 11 Measurement ranges up to 4000 m
- 25, 50, 75, 100 & 120 ohm selectable cable impedance
- User variable gain control
- Built-in Tone Generator for pair tracing and identification
- Suitable for testing all communication and power cables
- Environmental Protection IP54
- CE approved
- Soft bag & test leads

Cable Connection Types

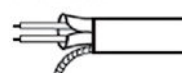
Coaxial Cable



Twisted Pair



Shielded Cable



Multi-conductor Cable





Specifications

Range

Meters: 7, 15, 30, 60, 120, 250, 500, 1 km, 2 km, 3 km, 6 km

Feet: 23, 49, 98, 197, 394, 820, 1640, 3280, 6560, 9850, 19000

Range Selection: Manual range control

Accuracy: 1% of selected range*

Resolution: Approx 1% of range

Sensitivity: Min 3 pixel return at 4 km on 0.6 mm \varnothing , PE, TP

Velocity Factor: Adjustable from 1% to 99%

Output Pulse: 5 Volts peak to peak into an open circuit

Output Impedance: Selectable 25, 50, 75, 100 & 120 ohm

Output Pulse Width: 3 ns to 3 ms, Automatic with range

Scan Rate: 2 scans/second or scan held (not on 3 km/6 km range)

Tone Generator: 810 - 1100 Hz

Voltage Detection: 250 Volts AC

Safety: IEC 61010-1, EN 60950, EMC BS/EN

Splash Resistant/Dust Proof: IP54

** Assumes accurate setting for velocity of propagation (Vp) of the cable under test, and homogeneity of the Vp along the cable length, and accurate cursor positioning.*

General Specifications

Size	165 x 90 x 37 mm (6.5 x 3.5 x 1.5 in)
Weight	350 gm (12 oz)
Operating Temperature	-10° to +50°C (14°F to +122°F)
Storage Temperature	-20° to +70°C (-4°F to +158°F)
Display	128 x 64 pixel backlit LCD
Battery Life	60 hours continuous scanning
Power Supply	6 Volts (4 x 1.5 AA Alkaline cells)
Power Down	Selectable 1, 2, 3, 5 minutes or disabled

Ordering Information

Z02-99-001G	CX40 Cable Expert - TDR/Toner (BNC Interface)
Z02-99-002G	CX40 Cable Expert - TDR/Toner (Banana Interface)