

CABLE TESTERS FAULT MAPPERS



MODEL CA7024
Fault Mapper Cable Length Meter
& Fault Locator Alphanumeric TDR



MODEL CA7027
Fault Mapper Pro® Telephone
Cable Tester / Graphical TDR

MODELS CA7024 & CA7027

Maps and pinpoints the locations of faults on power and communication cables

FEATURES

Built-in tone generator for tracing and locating cables
Large high-visibility blue electroluminescent backlit display
Compatible with industry standard Tone Receivers

MODEL CA7024

- Hand-held Cable Length Meter and Fault Locator for multiple conductor cables
- Detects opens and shorts and the distance to them from one end of the cable
- Measure cable length up to 6000ft or 2000m (selectable)
- Automatic cable impedance compensation
- Built-in library of most common cables and their Velocity of Propagation (Vp)
- Manual selection of Vp for all cables not found in library
- User programmable cable library with 15 storage positions
- Vp setting displayed along with length and cable type (if in library)

MODEL CA7027

- Works on de-energized conductors
- 11 range scales indicating cable faults and terminations up to 19,000ft (6000m) in feet or meters
- Unique graphical and digital display of fault information and length
- Detects opens, shorts, taps, faulty taps, bridge taps, splitters, high resistance, wet cables, splices and more
- Identifies impedance mismatches
- Works with twisted pair, parallel and coaxial cable
- Dead band less than 9ft
- Selectable cable impedance (25Ω, 50Ω, 75Ω, 100Ω)
- Over-voltage protection up to 250V
- Adjustable cursor assists in locating faults and termination

SPECIFICATIONS



MODEL	CA7024	CA7027
MEASUREMENTS		
Range @ Vp = 70%	6000ft or 2000m (selectable)	23, 49, 98, 197, 394, 820, 1640, 3280, 6560, 9850, 19000ft
Range Selection	-	Manual range control
Resolution	0.1ft up to 100ft, then 1ft (0.1m up to 100m, then 1m)	Approximately 1% of selected range
Accuracy	±2% of Reading	±1% of range
Minimum Cable Length	12ft (4m)	1.5ft (0.5m)
Cable Library	Built-in, user selectable and user programmable	-
Sensitivity	-	Minimum 3 pixel return on a fault at 4km on 0.6mm O, PE, TP
Velocity of Propagation (Vp)	Adjustable from 0 to 99%	Adjustable from 1% to 99%
Output Pulse	5V (peak to peak) into open circuit; nanosecond rise Step Function	+5V peak to peak into an open circuit
Output Pulse Width	-	3 ns to 3 ms, Automatic with range
Scan Rate	-	2 scans / second or scan held
Output Impedance	Automatic compensation	Selectable between 25, 50, 75 & 100Ω
Display Resolution	128 x 64 pixel graphical LCD	-
Tone Generator	Oscillating 810 to 1110Hz	
Voltage Warning	Triggers at >10VAC/DC	-
Power Source	Four 1.5V AA Alkaline batteries (included)	
Auto Power OFF	After three minutes	Selectable 1, 2, 3, 5 minutes or disabled
Weight	12oz (350g)	

PRODUCT INCLUDES

MODEL CA7024

Soft carrying case, BNC pigtail cable with alligator clips, four 1.5V AA batteries and user manual.



MODEL CA7027

Soft carrying case, set of two color-coded (red/black) leads, test probes, alligator clips, four 1.5V AA batteries and user manual.



CATALOG NO.	DESCRIPTION
2127.80	Fault Mapper Model CA7024 (Cable Fault / Length Tester – Alphanumeric TDR)
2127.84	Fault Mapper Pro® Model CA7027 (Telephone Cable Tester / Graphical TDR)



Technical Assistance (800) 343-1391

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