

# CABLE TESTERS FAULT MAPPERS

## MODELS CA7024 & CA7027

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

### SPECIFICATIONS

MODEL	CA7024	CA7027
<b>MEASUREMENTS</b>		
Range @ Vp = 70%	6000 ft or 2000m (selectable)	23, 49, 98, 197, 394, 820, 1640, 3280, 6560, 9850, 19000ft
Range Selection	–	Manual range control
Resolution	0.1 ft up to 100ft, then 1 ft (0.1m up to 100m, then 1m)	Approximately 1% of selected range
Accuracy	±2% of Reading	±1% of range
Minimum Cable Length	12 ft (4m)	1.5 ft (0.5m)
Cable Library	Built-in, user selectable and user programmable	–
Sensitivity	–	Minimum 3 pixel return on a fault at 4km on 0.6mm 0, PE, TP
Velocity of Propagation (Vp)	Adjustable from 0 to 99%	Adjustable from 1% to 99%
Output Pulse	5V peak to peak into an 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	
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, (4) 1.5V AA batteries and a user manual.



#### MODEL CA7027

Soft carrying case, set of (2) color-coded (red/black) leads, test probes, alligator clips, (4) 1.5V AA batteries and a user manual.



#### CA7024

Fault Mapper Cable Length Meter & Fault Locator Alphanumeric TDR

#### CA7027

Fault Mapper Pro® Telephone Cable Tester / Graphical TDR



### FEATURES

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

#### CA7024

- Detects opens and shorts and the distance to them from one end of the cable
- Measure cable length up to 6000 ft 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)

#### CA7027

- Works on de-energized conductors
- 11 range scales indicating cable faults and terminations up to 19,000 ft (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

#### 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)

