

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 MEASUREMENTS | CA7024 | CA7027 |
|-------------------------------------|--|---|
| 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) |

