

CABLE VERIFICATION & TRACING ANALYZER

300 V
CAT III



MODEL 6683

Detects and locates faults in electrical wiring, telecommunication cables, live and de-energized conductors buried or in walls



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FEATURES

- Quickly locates and traces electrical or metallic conductors, and identifies cable fault locations such as shorts and open circuits
- Non-contact voltage detection (NCV) up to 1000 V_{AC}
- Dual operation modes: Unipolar (*de-energized*) and Bipolar (*live or de-energized*)
- Adjustable sensitivity — automatic for quick scans or manual for fine detection
- Clear digital, visual, and audible indicators with adjustable pitch or optional mute for precise tracing
- Multiple transmitter ID codes (*up to 7*) for identifying several lines simultaneously
- Digital filtering technology ensures reliable detection and strong immunity to interference
- Large backlit LCDs on both transmitter and receiver show transmission power, digital ID, voltage presence indicator, and battery status
- Built-in LED flashlight for low-light spaces
- Auto power-off on receiver to extend battery life

MODEL	6683E (TRANSMITTER)
Display	Backlit LCD display
Information Display	Measured voltage level, type (AC or DC), transmitted signal power, battery status, identification code, voltage presence
Output Signal Frequency	125 kHz
External Voltage Identification Range	(12, 50, 120, 230) V and 400 V (50/60) Hz or DC $\pm 2.5\%$
Signal Power	Adjustable (3 levels)
Transmitter Identification	Digital signal coding allowing the use of 7 transmitters simultaneously
Power Supply	(6) 1.5 V AAA batteries
Safety	IEC/EN 61010-2-030 300 V CAT III
Operating / Storage Temperature	Operating Temperature: (32 to 104) °F (0 to 40) °C Storage Temperature: (-4 to 140) °F (-20 to 60) °C
Dimensions / Weight	Dimensions: (6.3 x 3.30 x 1.57) in (160 x 84 x 40) mm / Weight: 12.34 oz (350 g)

MODEL	6683R (RECEIVER)
Display	Backlit LCD display
Information Displayed	Signal amplitude, detection sensitivity, transmitter identification code and transmitted signal strength, battery status, voltage presence
Detection Depth With Transmitter	Unipolar application: (0 to 6) ft (0 to 2) m Bipolar application: (0 to 1.6) ft (0 to 0.5) m Single loopback line: Up to 8.2 ft (2.5 m)
Detection Sensitivity	Automatic or manual adjustment (7 levels)
Non-Contact Voltage (NCV) Function	(12 to 1000) V _{AC}
Other Functions	Flashlight; audible signal deactivation
Power Supply	(6) 1.5 V AAA batteries
Safety	Type F sensor compliant with IEC/EN 61010-031 300 V CAT III
Operating / Storage Temperature	Operating Temperature: (32 to 104) °F (0 to 40) °C Storage Temperature: (-4 to 140) °F (-20 to 60) °C
Dimensions / Weight	Dimensions: (7.8 x 2.63 x 1.42) in (198 x 67 x 36) mm / Weight: 10.93 oz (310 g)

Consult factory for NIST Calibration prices.

PRODUCT INCLUDES

Soft carrying case, set of (2) 5 ft silicone color-coded (*red/black*) safety leads w/ 4 mm straight/right angle banana plugs, (2) alligator clips (*red/black*), 110 V outlet adapter with banana plugs, mini ground rod, E14 bulb adapter, (6) 1.5 V AAA (LR03) batteries and multilingual user manual.



CAT. # DESCRIPTION

2127.89 Cable Verification & Tracing Analyzer Model 6683