



TRIAX



LAN Cable Identifier

Model

LAN Cable Identifier

Item no.

157012

Version

EN

triax.com

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Product Profile

The LAN Cable Identifier kit contains the following items:

Emitter

- 1 RJ11 Input
- 2 RJ45 Input
- 3 Function button
- 4 Testing Indicators
- 5 Wire test sequence indicator
- 6 Rotary function select switch

Receiver

- 1 Probe
- 2 Wire test sequence indicator
- 3 Rotary ON/OFF switch and volume control
- 4 Headphone Socket
- 5 RJ45 Input

Accessories

- 1 RJ11 Telephone Cable
- 2 RJ11 Cable with Crocodile Clips
- 3 RJ45 Network Cable
- 4 Earphone



Cable Tracing Functions

Telephone Cables:



1. Insert the Telephone cable to be traced, (fitted with a RJ11 plug), into the RJ11 socket on the LAN Cable Identifier Emitter Unit.
2. Turn the Emitter rotary selection switch to “Scan”, the Status LED will flash indicating that the Emitter is operating normally.
3. Switch on the Receiver Unit by turning the rotary switch clockwise. Use the probe to detect the far end of the cable being traced. During the test the Receiver unit will emit a tone to indicate when it is against the cable that is connected to the Emitter unit.
4. The Receiver Unit can emit two tones, a steady tone and a two-pitch tone. The preferred tone is selected by pressing the ‘Function button’ on the Emitter Unit. The volume of the tone can be adjusted using the rotary control on the Receiver Unit.

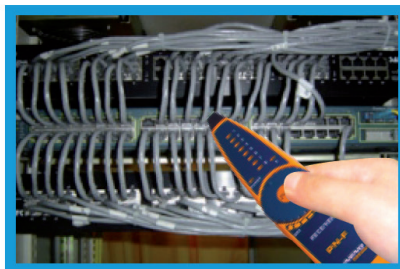
Telephone Wire Location – Typical Applications:

The LAN Cable Identifier can be used to quickly locate the far end of a Telephone cable where many cables are present.

Example 1 - Locate a cable on a switch:



1. Connect the Telephone Cable to be traced into the test port of the Emitter Unit.



2. Use the Receiver Unit probe to detect the far end of the Telephone Cable being traced.

Example 2 - Locate a cable on a patch panel:



1. Connect the Telephone Cable to be traced into the test port of the Emitter Unit.



2. Use the Receiver Unit probe to detect the far end of the Telephone Cable being traced.

Network Cables:



1. Insert the Network cable to be traced, (fitted with an RJ45 plug), into the RJ45 socket on the LAN Cable Identifier Emitter Unit.
2. Turn the Emitter rotary selection switch to “Scan”, the Status LED will flash indicating that the Emitter is operating normally.
3. Switch on the Receiver Unit by turning the rotary switch clockwise. Use the probe to detect the far end of the cable being traced. During the test the Receiver unit will emit a tone to indicate when it is against the cable that is connected to the Emitter unit.
4. The Receiver Unit can emit two tones, a steady tone and a two-pitch tone. The preferred tone is selected by pressing the ‘Function button’ on the Emitter Unit. The volume of the tone can be adjusted using the rotary control on the Receiver Unit.

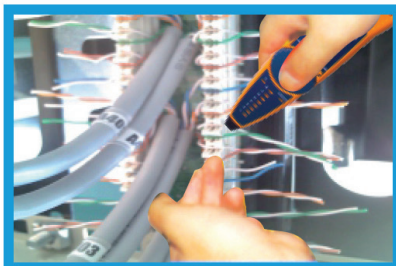
Network Wire Location – Typical Applications:

The LAN Cable Identifier can be used to quickly locate the far end of a Network cable where many cables are present.

Example 1 - Locate a cable on a router:

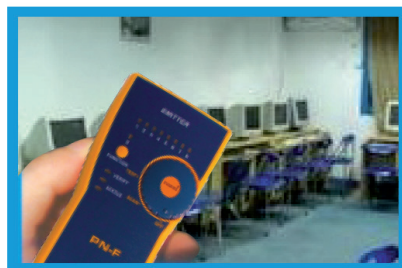


1. Connect the Network Cable to be traced into the test port of the Emitter Unit.

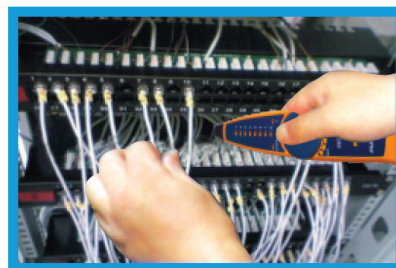


2. Use the Receiver Unit probe to detect the far end of the Network Cable being traced.

Example 2 - Locate a cable on a net bar:

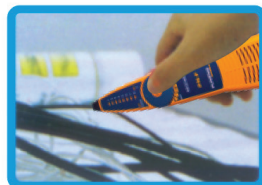
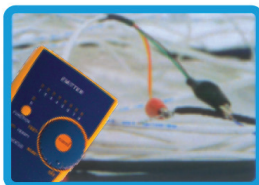


1. Connect the Network Cable to be traced into the test port of the Emitter Unit.



2. Use the Receiver Unit probe to detect the far end of the Network Cable being traced.

Electrical Cables:



1. Insert the RJ11 Cable to Crocodile Clip accessory cable into the RJ11 socket on the LAN Cable Identifier Emitter Unit.
2. Connect the crocodile clips to the electrical cable to be traced. Please note the safety limitations below.
Safety Note: This test is only suitable for cables carrying a low current. The Maximum working current for cables being tested is <math><10\text{mA}</math> for the Emitter Unit and <math><30\text{mA}</math> for the Receiver Unit.
3. Turn the Emitter rotary selection switch to “Scan”, the Status LED will flash indicating that the Emitter is operating normally.
4. Switch on the Receiver Unit by turning the rotary switch clockwise. Use the probe to detect the far end of the cable being traced. During the test the Receiver unit will emit a tone to indicate when it is against the cable that is connected to the Emitter unit.
5. The Receiver Unit can emit two tones, a steady tone and a two-pitch tone. The preferred tone is selected by pressing the ‘Function button’ on the Emitter Unit. The volume of the tone can be adjusted using the rotary control on the Receiver Unit.

Electrical Wire Location – Typical Application:

The LAN Cable Identifier can be used to quickly locate the far end of a Electrical cable where many cables are present.

NOTE: The LAN Cable Identifier must only be used on cables carrying a low current, (see safety note above).

Connect the Electrical Cable to be traced into the test port of the Emitter Unit.



Use the Receiver Unit probe to detect the far end of the Electrical cable being traced.



Network Cable Continuity Function

1. Connect the RJ45 plug at one end of the Network Cable under test into the RJ45 socket on the Emitter Unit and the RJ45 Plug on the far end of the Network Cable into the RJ45 socket of the Receiver Unit. Note safety advice below.
2. Turn the rotary switch on the Emitter Unit to "Test". The "Verify" LED on the Emitter Unit will flash showing that the unit is working correctly.
3. By observing the sequence of the LED's on the Emitter and Receiving Units, the user can determine whether the Network Cable is OK or has a fault condition such as Open Circuit, Short Circuit or cross-over.
4. Pressing the 'Function Button' on the Emitter Unit during the continuity test switches between fast and slow sweep rate.



Safety Note: This test is only suitable for cables carrying a low current. The Maximum working current for cables being tested is <math><10\text{mA}</math> for the Emitter Unit and <math><30\text{mA}</math> for the Receiver Unit.

Other Functions

Open and Short Circuit test:

1. Turn the rotary switch on the Emitter Unit to “Test”.
2. Press the “Function” button on the Emitter Unit for 2 seconds. The “Verify” LED will change from flashing to steady state.
3. Insert the RJ11 to Crocodile Clip lead into the RJ11 socket of the Emitter Unit.
4. Connect each end of the cables under test to the Crocodile Clips.
5. If a Short Circuit is present on the cable the LED in position 1 will light up.
6. If no Short Circuit is present on the cable, i.e. Open Circuit, no LED will light up.
7. When the LED is lit up, an indication of the resistance on a cable is given by the brightness of the LED. The brighter the LED the lower the resistance.

DC Level test:

1. Turn the rotary switch on the Emitter Unit to “Scan”.
2. Press the “Function” button on the Emitter Unit for 2 seconds. The “Status” LED will turn off and the “Verify” LED will begin flashing.
3. Insert the RJ11 to Crocodile Clip lead into the RJ11 socket of the Emitter Unit.
4. Connect each end of the terminal under test to the Crocodile Clips.
5. If the “Status” LED lights up in RED, it means that the red crocodile clip is connected to the positive of the DC supply.
6. If the “Status” LED lights up in GREEN, it means that the red crocodile clip is connected to the negative of the DC supply.
7. The DC level can be judged by the brightness of the LED.

Detecting a signal on a Telephone line:

1. Turn the rotary switch on the Emitter Unit to “Test”.
2. Press the “Function” button on the Emitter Unit for 2 seconds. The “Verify” LED will change from flashing to steady state.
3. The Telephone cable with a RJ11 plug is inserted into the RJ11 Socket of the Emitter Unit, (or the RJ11 to Crocodile Clip lead can be used if required).
4. The LED in position 1 will light up if the signal on the telephone line is normal.

Low Voltage Alarm:

1. Turn the rotary switch on the Emitter Unit to “Scan”.
2. If the battery voltage is less than 6.0V, the “Status” and “Verify” LED’s will light up.
3. This indicates that a new battery is required.

Headphones:

If a test is being carried out in a noisy environment, or where the audio tone from the receiver will be an inconvenience to others, the headphones supplied can be used. Plug the headphones into the headphone socket on the left hand side of the Receiver Unit.

Technical Specification

Item	Specification
Product Name	LAN Cable Identifier
Part Number	157012
Power Supply	2 x DC, 9V Battery (included)
Maximum working current	Emitter Unit: $\leq 10\text{mA}$
	Receiver Unit: $\leq 30\text{mA}$
Maximum DC Voltage	9V (Generally 5V)
Signal Transmission Format	Multi-Frequency Impulse
Electrical Signal Output Status	8V p-p
Signal Transmission Distance	$\geq 3\text{km}$
Dimensions (mm)	Emitter: 140x75x30
	Receiver: 220x48x32
	Kit: 143x50x262
Weight (g)	Emitter: 110
	Receiver: 140
	Kit: 400

Lan Cable Identifier Kit Contents:

Item	Quantity
Emitter Unit	1
Receiver Unit	1
Headphones	1
RJ11 to RJ11 Telephone Cable	1
RJ45 to RJ45 Network Cable	1
RJ11 to Crocodile Clip Cable	1
User Manual	1
Storage bag	1



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