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# LEE VAUGHAN CABLE IDENTIFIER MKIV

The Lee Vaughan Cable Identifier MKIV is our entry level identifier. It will give an accurate and positive identification of high voltage power cables prior to spiking or commencing work. The MKIV is particularly beneficial in situations where one of several cables in a trench needs to be identified.

Features

- Developed for use by electricity distribution system engineers
- Complies with relevant CE legislation
- Visual & audible identification from the rise and fall of induced signal due to the 'lay' of the cable cores
- Conveniently housed in fitted carry case
- Transmitter & receiver each powered by readily available four AA size cells

A cable identifier for use by Electricity Distribution Engineers is an essential part of their equipment when reliable high voltage cable identification is required.

### Overview

It consists of a sturdy plastic carrying case foam-fitted to house the transmitter, receiver, and headset. The transmitter is in a strong plastic case with spring loaded output connection terminals. Power for several hours use is by four AA cells (HP7) that are readily available and easily fitted. The transmitter emits an interrupted signal that when fed into the cable can be picked up by the receiver at the identification point. When the unit is in operation a red LED flashes at the interrupt frequency. The receiver is housed in a similar case to the transmitter and requires the same type of battery. It contains a coil for signal pickup and an amplifier with gain control for the meter and headset. To help to conserve battery life an interlock is arranged to disconnect the battery when the headset plug is removed from its socket.

# Operation

The Lee Vaughan Cable Identifier MKVI consists of a transmitter and a receiver, earphones and a connecting cable with clips.

# WARNING: THE CABLE TO BE IDENTIFIED MUST BE UNENERGISED AND DISCHARGED

To use the Identifier, a short circuit is placed across two healthy cores at the far end of the cable to be identified. The transmitter should be connected to the same two cores at the near end. The transmitter should be switched on and the LED observed to flash.



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After switching on the receiver and plugging-in the headset, the transmitter's 'bleep bleep' will be heard. Observing the meter should show a varying deflection in sympathy with the 'bleeps'. Leave the transmitter switched on but switch off the receiver.

At the site where the cable is to be identified the headset should be plugged into the receiver again and switching on should produce some background hiss in the headset. As the correct cable is approached by the receiver the distinctive 'bleep bleep' will be heard in the headset and an accompanying deflection seen on the meter. For a positive identification of the target cable, the rise and fall **MUST** be experienced. Some induced pick up may appear in adjacent cables, but although detectable it will not exhibit the rise and fall characteristics. Following identification, when the headphones jack plug is removed, the receiver is automatically switched off. The transmitter must be turned off before storing back in the case.

CAUTION

The Electricity Supply Safety Rules should be observed when using this instrument.

### **Specification**

Technical Data Transmitter Signal:	1.6KHz interrupted	ed to avoid adjacent cable nickun
Battery Power:	4 x AA per unit.	
Dimensions Transmitter I Receiver: Carrying Case: Weight including carry	175 x 90 x 45mm 360 x 270 x 90mm	
case and batteries:	1.7 Kg	