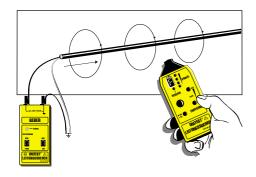
UNITEST Cable Locator



Useful Information concerning the Cable Locator

The UNITEST Cable Locator is a universal cable tracing instrument ideal for fault finding in buildings.



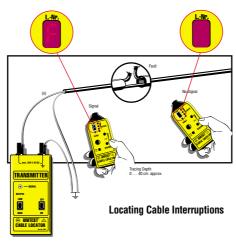
Principle

The Cable Locator functions by means of a carrier and coded signals, similar to radio signals. A transmitter sends a digitally coded signal on a carrier frequency into the cable to be traced. The receiver identifies the signal which consequentially enables the tracing of the cable.

Applications

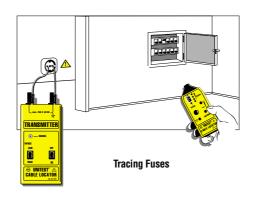
The Cable Locator can be used for various locating applications, such as:

- Locating cable interruptions in walls
- Tracing cables in walls
- Locating short-circuits in cables
- · Locating fuses and assignment to circuits
- Locating of concealed sockets and distribution boxes
- Tracing water and heating pipes



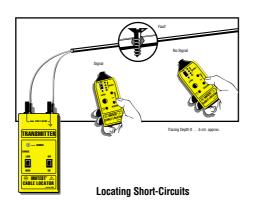
Tracing Depth

The tracing depth can be up to 40 cm depending on the material of the wall (brick-work, concrete...) and the type of operation (tracing live or voltage free cables).



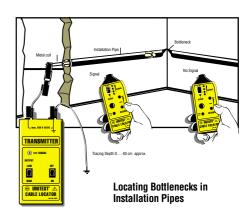
Sensitivity

The receiver sensitivity is divided into 9 steps and is adjustable by means of a push-button. An addidional contact electrode is available for coarse locating, increasing the sensitivity by a factor of 1.5. The transmitter contains two switchable signal intensities.



Display on Receiver

The receiver is equipped with a 7-segment LED display and an LED row indicating the signal intensity. Either a letter (A, B, C, D, E or F) or a number (0, 1, 2, 3, 4, 5, 6, 7, 8 or 9) is indicated on the display, depending on the transmitter coding.



Wire Sorter

Up to 10 lines may be sorted in one process by one person.

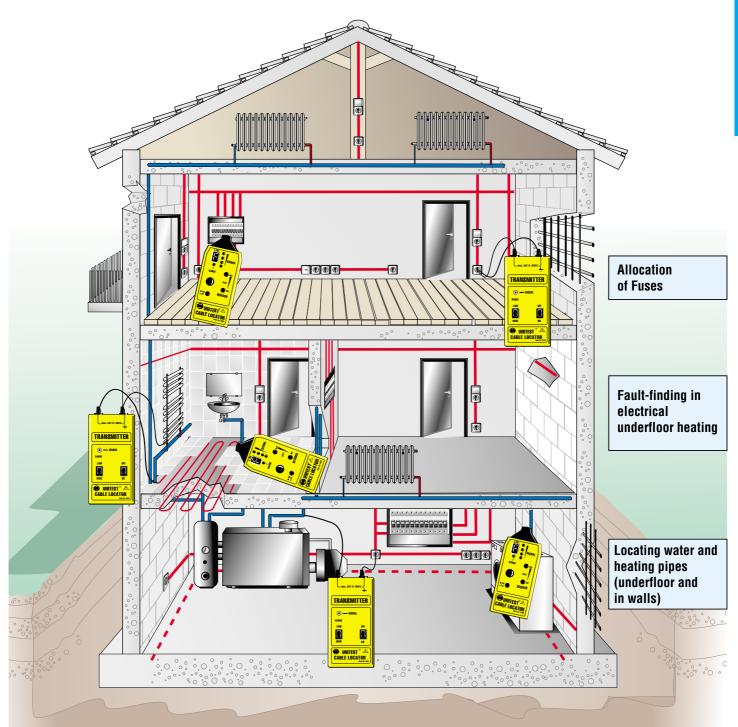
The transmitter is connected to a cable harness with 10 numbered clamps and the reference clamp (e.g. PE). On the other end of the cable harness, the number of the particular line connected is immediately indicated on the display of the receiver. In addition, the receiver indicates any short-circuit with another line or open lines or interruptions. If the cable harness is equipped with more than 10 lines, the first 10 lines must be labelled accordingly. The next 10 lines are assigned in the same way.

The UNITEST **Tel** test enables a standard testing of 12 lines. However, by using additional transmitters, the instrument is able to sort up to 160 lines! The instrument operates by using the newest digital technology enabling error analysis.

The Wire Sorter can be used for sorting lines up to approx. 34 km length (for lines with a cross section of 1.5 mm²). This results in a multitude of applications and time saving advantages for the installation of intercoms, alarms, lighting, telephones, sprinkler systems, fire alarms, etc.

UNITEST® Cable Locator





Practical Application in all House Installations

UNITEST Cable Locator





S418447

Patent 4103234

Scope of Supply:

- 1 pc UNITEST Cable Locator Receiver
- 1 pc UNITEST Cable Locator Transmitter Code "F"
- 4 pc Measuring Leads Red, Black, Yellow
- 3 pc Batteries 9V, IEC 6LR61
- 2 pc Crocodile Clamp Red/Black
- 1 pc Impact and shock proofed plastic Carrying Case
- 1 pc Instruction Manual

UNITEST Cable Locator Set in Carrying Case

Key Functions

- Tracing of cable in walls and locating interruptions and short circuits in cables.
- · Locating of fuses and assignment to circuits
- Locating of concealed sockets and distribution boxes

General Information

- Set comprising of a transmitter and a receiver in a shockproof carrying case
- Optic and acoustic indication of the transmitter signal
- Clear, easy-to-follow instruction manual with several application examples
- Additional transmitters are available with the codes 0...9 and A...E for extension or to distinguish between several signals

Special Features

- For all applications (live or dead cables) without additional instruments.
- Safe locating via display of a specified letter on the receiver

Accessories:

UNITEST Cable Locator Transmitter Code "C" Cat. No. 2031

Technical Data

Display LED row for intensity and

7 segment display for number and letter to display

Tracing Depth 0...40 cm
Max Voltage 250 V

Pollution degree 2
Overvoltage category Safety Complying with Power Supply 1 x 9 V, IEC 6LR61 Receiver 2 x 9 V, IEC 6LR61 Transmitter
Dimensions 2 CAT II / 250 V against ground IEC 61010-1, EN 61010-1
1 x 9 V, IEC 6LR61 Receiver 2 x 9 V, IEC 6LR61 Transmitter

Weight approx. 1.8 kg

Order Information:

Description Cat. No.

UNITEST Cable Locator Set 2032

UNITEST Cable Locator Transmitter Code "C"

2031

Theoretical Operation Principle

The UNITEST Cable Locator Set is comprised of a transmitter and a receiver. The signal generated by the transmitter consists of a modulated current, which generates an electromagnetic field around a conductor.

This electromagnetic field around the conductor induces a voltage in the coil of the receiver. The induced voltage is amplified and decoded by the receiver, transformed into the original signal and appears in the display.

The transmitter must always be connected in a way that ensures a closed circuit.

In Open Circuits:

(Single-Pole Application)

Finds line interruptions in walls or floors; finds and traces lines (cables/conductors), sockets, distribution boxes, switches etc., in house installations; finds bottlenecks or kinking and buckling blockages in installation pipes by means of metal rod.

Open circuits are suitable e.g. for finding sockets, switches etc. in voltage free systems. The PE must be connected properly.

A typical example would be the PE contact of an earthed socket.

In Closed Circuits:

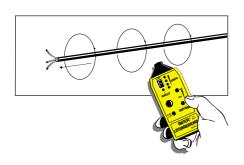
(Two-Pole Application)

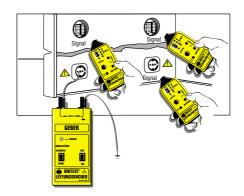
Finds short circuits and sorts wires in circuits with or without voltage. When working on voltage-free circuits the battery of the instrument supplies the power for the measurement. When working on live circuits the power needed by the transmitter for the measurement is taken from that circuit. The switching between internal and external power supply is automatic.

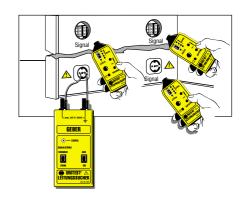
The transmitter is overvoltage protected up to 250 V AC/DC.

Example of use in a closed circuit:

Use in closed circuits is suitable e.g. for detecting sockets, switches, protections etc. in live house installations.







UNITEST[®]Wire Sorter





UNITEST Wire Sorter 5775 in Carrying Case

- **Key Functions** Sorting of up to 10 lines within one working process
- · Clear indication of short circuits, open circuits, or interruptions

General Information

- · Set comprising of a transmitter and a receiver in a handy carrying case
- Transmitter is supplied by receiver
- Automatic switch-off via switching system
- · Ideal for telecommunication and intercom systems

Special Features

 \bullet Time consuming «peeping» and «belling out» with the help of a second person is now a thing of the

Technical Data

Display Maximum Line Resistance Maximum Line Length **Power Supply Dimensions**

Weight

LED, 7-Segment-Display

approx. 800Ω

34 km (at 1.5 mm²), 2 x 9 V, IEC 6LR61 (Receiver) (Carrying Case) 380 x 305 x 90 mm approx. 1.5 kg (incl. Case)

Scope of Supply:

1 pc UNITEST Wire Sorter Transmitter 1 pc UNITEST Wire Sorter Receiver

2 pc Batteries 9 V, IEC 6LR61

1 pc Carrying Case

1 pc Instruction Manual

Patent 3701070

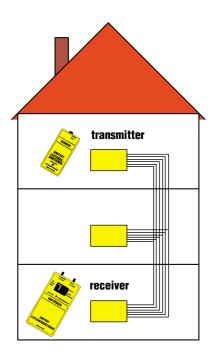
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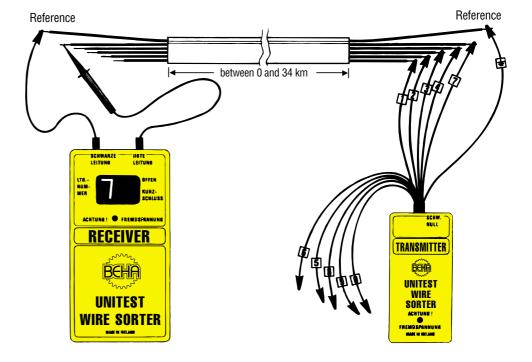
Description Cat. No.

UNITEST Wire Sorter in Carrying Case

5775/2

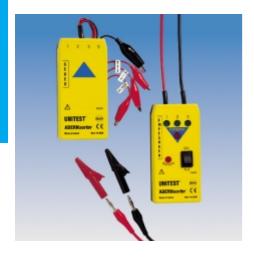
Application Example Wire Sorter:





UNITEST® Wire Sorter





UNITEST WIRE sorter Wire Sorter for 3 lines

Key Functions

- · Swift detection of up to 3 lines
- · Clear indication of short circuits
- · Integrated continuity tester

General Information

- Set comprises one transmitter and one receiver
- · Transmitter is supplied by receiver
- · Battery indication

D Patent 3701070

Technical Data

Display 3 LEDs

Maximum Line Resistance Maximum Line

approx. 350 Ω

Length Power Supply Dimensions 15 km (for 1.5 mm²) 1 x 9 V, IEC 6LR61 (Receiver) 62 x 125 x 28 mm

(Transmitter), 62 x 125 x 28 mm (Receiver)

Weight 120 g (Transmitter), 230 g (Receiver)

Scope of Supply:

- 1 pc WIREsorter Transmitter
- 1 pc WIREsorter Receiver
- 1 pc Battery 9V, IEC 6LR61
- 2 pc Crocodile Clamps
- 1 pc Instruction Manual



Accessories:

Carrying Case Cat. No. 1150

Order Information:

Description Cat. No.

UNITEST WIREsorter 9036 Carrying Case 1150



UNITEST WIRE*sorter Utility*

Key Functions

- Swift detection of up to 3 lines
- Clear indication of short circuits
- Integrated continuity tester

General Information

- Set comprises one transmitter and one receiver
- Transmitter is supplied by receiver
- · Battery indication

Special Features

• Incl. 4 mm saftey plugs according IEC61010

Technical Data

Display 3 LEDs Maximum Line

Resistance approx. 350 Ω Maximum

Line Length
Power Supply
Dimensions

15 km (for 1.5 mm²)
1 x 9 V, IEC 6LR61 (Receiver)
62 x 125 x 28 mm (Transmitter),
62 x 125 x 28 mm (Receiver)

Weight 120 g (Transmitter)
230 g (Receiver)

Patent 3701070

Scope of Supply:

- 1 pc UNITEST WIREsorter Utility Transmitter
- 1 pc UNITEST WIREsorter Utility Receiver
- 1 pc Battery 9V, IEC 6LR61
- 1 pc Instruction Manual



Accessories:

Carrying Case Cat. No. 1150

Order Information:

Description Cat. No.

UNITEST WIREsorter Utility 9055
Carrying Case 1150

SAFETY PLUG-IN TECHNOLOGY in compliance with IEC 61010/EN 61010

The UNITEST WIRE*sorter Utility* is equipped with 4 mm safety plugs. Thus, user-specific test probes and clamps may be used.

UNTEST[®]Wire Sorter/Wall Scanner





→ Patent 5627474

Patent 4417351235

UNITEST TELtest Wire Sorter for 12 lines

Key Functions

- · Wire Sorter Set for fast detection of up to 160 lines (possible with several signal transmitters)
- Standard signal transmitter identifies up to 12 lines
- · Clear indication of short circuits, open circuits, or interruptions
- · Integrated continuity tester

General Information

- Set comprising of a transmitter and a receiver in a handy carrying case
- Transmitter is supplied by receiver
- · Simultaneous indication of 2 lines
- · Indication of short circuits, interruptions, mixed wires, earth and ground connection
- Applicable up to 10 k Ω ...test circuit resistance and a line capacity of up to 1 μF

Special Features

- Time consuming «beeping» and «belling out» with the help of a second person is now a thing of the past
- · No reference line required

Accessories:

TELtest Additional Transmitter Code "2" Cat. No. 9021

TELtest Code "3" Additional Transmitter Cat. No. 9044

For additional transmitters (as from the 3rd transmitter) the nomination of a code is required (possible: 3...9 and A...F)

Technical Data

LED, 2x7-Segment-Display Display Maximum line

Resistance (Line Capacity) . Maximum

Line Length 10 km

(for telecommunication cable) **Power Supply** 1 x 9 V, IEC 6LR61(Receiver) Dimensions 59 x 79 x 15 mm (Transmitter), 64 x 132 x 35 mm (Receiver) Weight

 $10 \text{ k}\Omega \text{ (1}\mu\text{F)}$

85 g (Transmitter) 180 g (Receiver)

Scope of Supply:

1 pc UNITEST Transmitter (for 12 Lines) with Code "1"

1 pc Receiver

1 pc Battery 9V, IEC 6LR61 1 pc Carrying Case

12 pc Crocodile Clamps

1 pc Instruction Manual

Order Information:

Description Cat No.

UNITEST TELtest Wire Sorter Code "1" TELtest Additional

9016

Transmitter Code "2"

9021

TELtest Code "3" Additional

9044 Transmitter

UNITEST Wall Scanner For detection of Wood and Metal in Hollow Walls

Key Functions

- · Simple aid for all drilling and mounting work
- · Detects wood and metal in hollow walls

General Information

- Optic and acoustic indication
- Tracing depth up to approx. 5 cm
- Single handed operation
- Sensitivity adjustment via reference button

Technical Data

LCD-Bargraph Display Tracing Depth Application Tracing Depth

2...5 cm **Detection in Hollow Walls** Normal: 2 cm, Depth: 4 cm,

Metal: 5 cm

Voltage

Warning Signal

Power Supply Dimensions Weight

(Contactless-extensive) àpprox. 90 V...230 V ÁC 1 x 9 V IEC 6LR61 190 x 71 x 46 mm

250 g

Scope of Supply:

1 pc UNITEST Wall Scanner

1 pc Quick Help Card

1 pc Battery 9 V, IEC 6LR61

1 pc Instruction Manual

To detect electric cables, we recommend the Cable Locator, UNITEST 2032. please refer to page 5.3



Accessories:

Carrying Case Cat. No. 1150



Detects wood i.e. roof battens



of materials (e.g. joist, stud, etc.)



in wall

Order Information:

Description Cat. No.

UNITEST Wall Scanner

9038 Carrying Case 1150