



Bicotest

AN SPX BRAND

power and communications
T272

high resistance cable fault locator



- The T272 high resistance cable fault locator has been designed to meet the requirements of engineers in locating cable faults in the resistance range from zero to 200 megohms. Faults can be between two conductors, or between a conductor and its metallic sheath, concentric neutral or earth.
- Easy to operate, the T272 features solid state circuitry and utilises a conventional Wheatstone Bridge circuit in which the two sections of the faulty conductor, one on each side of the fault, together with a good conductor if necessary, comprise the two external arms of the bridge. The other two arms of the bridge are contained within the instrument.
- By employing a detection circuit of extremely high input resistance it is possible to locate high resistance faults without the loss of sensitivity associated with other types of low and high voltage bridges. A ten turn vernier balancing control is provided which indicates the fault position as a percentage of the total loop length. If both ends of the faulty conductor are not accessible at the test end then a good conductor of the same cross-sectional area is required. If the good conductor is of a different size then a conversion factor may be used to calculate an equivalent loop length. Alternatively, a pair of conductors from an auxiliary cable may be used or, if the cable length is not too great, an overland lead can be run out to enable the bridge test to be carried out.
- With this bridge arrangement, faults having resistances up to 200 megohms in dielectrics such as rubber and polyethylene can be located with an accuracy well within $\pm 0.5\%$ of the loop length and typically 0.1%, although this may be limited by the non-uniformity of the conductor.
- The T272 is contained within a fibreglass housing fitted with a carrying strap. All terminals, controls and null detector micro-ammeter are mounted on the top panel.
- Complementary to Bicotest TDRs for locating high insulation resistance faults.

AS CLOSE AS YOU CAN GET TO FAULTLESS CABLE PERFORMANCE

Specifications

T272

POWER SUPPLY FOR INSTRUMENT (INTERNAL) :	9 V battery, PP3 Alkaline
POWER SUPPLY FOR BRIDGE NETWORK (EXTERNAL) :	A DC source with output voltage to suit the cable under test must be provided, eg. 12 V lead acid battery for power cables, or a dry battery for smaller cable sizes and telephone cables.
WEIGHT (kg) :	1.4 kg
SIZE (mm) :	155 x 245 x 110 mm
DELIVERY INCLUDES :	Main unit with shoulder strap, 1 x PP3 9 V Battery, Operating Manual in zipped plastic wallet, Connecting leads.
WARRANTY:	One year



Key features

- High accuracy fault location for power and telecom cables
- Wide fault resistance detection up to 200 megohms
- Locates faults between conductors or conductor and metallic sheath, neutral or earth
- Gives high sensitivity to high resistance faults

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World leaders



Radiodetection is a proud member of the SPX group of companies, which provide technical products and service solutions worldwide.

Radiodetection and its associated companies specialize in the design and manufacture of products for the location and maintenance of underground pipes and cables. Our aim is to be viewed as the supplier of choice of 'high performance' quality equipment using advanced product technologies. We are also committed to both design innovation and customer support.

Technical support



Radiodetection equipment users have easy access to technical support. A call to your regional representative, or the Radiodetection head office, will put you in contact with our team of field-experienced technical experts.

Servicing and repair



Radiodetection has a team of factory-trained service technicians and dedicated service facilities. Turnaround is fast, and costs are very competitive.

Training



Product training for your operators and training personnel is available on your site, or at Radiodetection's headquarters. Training is with qualified instructors and each trainee receives a certificate to confirm they have received the training.

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