

# KINGSINE TDR90 Cable Fault Tester, Fault Pre-Locators



UTC20 Integrated cable detector

5 Features of the UTC20

Digital multifunctional cable detection of Comprehensive Machine

Solution to live cable routing problems cannot be solved at present

You can find the buried cable jacketing damage to ground short circuit and open - circuit fault

Can be recognition required cable in multi-charged cables

Configuration rechargeable batteries, may completed all the tests without electricity

Find the path of the live cable

You can easily solve the paths find problem in the live cable. Put the coupling clamp to the under test cable, Transmitter coupling signals by coupling clamp on target cable, Path along the cable can receive the signal applied from the transmitter. Such method can detect the cable length is not less than 3 km. The receiver can detect the 50Hz frequency signals from the live cable, this method to distinguish the live cable and the disconnected cables is very useful. In this way, does not need to use transmitter.

Blind testing of underground cables

In some cases, Operator cannot close to the cable to connect directly or using coupling clamp, you can use the built-in induction antenna of transmitter to send output signal, Signal will induction to the measured underground cables for locating exploration, This method to detect Cable Depth will not less than 2 meters.

Find Buried cable fault

UTC20 can be applied step voltage method to determine the buried cable fault of ground insulation less than  $2M\Omega$ . Signal strength method can also be used to determine open and short cable fault. UTC20 cable tester has changed the traditional concept of cable fault location, without high voltage test equipment, without the use of AC power, no analysis of waveforms, Connection of simple and straightforward, A look that will be used.

Identification of live cables

Coupling the emissions clamp of transmitter on the cable, couple the receiver clamp on the cable exposure of the other side, At this point the strength of the signal can be determine which one is the applied signal cable.(This method requires a special clamp for receiver.)

## Specifications

<b>Operating Modes</b>	Three-ply pulse method
	Impact high-voltage current sampling method
	Low-voltage pulse method (TDR)

<b>Type of fault can be measured</b>	Open, Short, Low resistance fault Flashover fault, High resistance fault Closed fault
<b>TDR Pulse Widths</b>	50, 100, 200, 500 ns 1, 2, 8 us
<b>Range of Usage</b>	All kind cables below 35KV
<b>Display</b>	10.4" TFT color screen
<b>Transmitting Pulse</b>	400V
<b>Surge Voltage</b>	<42KV
<b>Sampling Rate</b>	100MHz / 50MHz / 25MHz / 12.5MHz
<b>Resolution</b>	0.8m(2.6ft), depending on range and mode
<b>Length can be measured</b>	Up to 40 kilometers
<b>Operating Temperature</b>	-10 to 50°C (14 to 122°F)
<b>Storage Temperature</b>	-40 to 60°C (-40 to 140°F)
<b>Humidity</b>	<90 percent non-condensing
<b>Power Source</b>	Rechargeable NiMH battery pack (charge with standard accessories)
<b>Battery Life</b>	Approximately 4 hours for continuous use
<b>Weight</b>	TDR90 3Kg / TMCU90 5Kg
<b>Type of Protection</b>	IP54, Splash proof and dust protected

## FEATURES AND BENEFITS

- High and Low resistance fault of all cables below 35KV levels can be measured
- Using the most advanced "Three-ply multiple pulse method" test technology. As well as high flashover method and low pressure pulse method.
- Showed a simple low pressure pulse short circuit waveform characteristics of any high resistance fault. Easily interpreted, Compared with the secondary pulse method is more reliable and easier
- With user-friendly software and operation interface. Keypad definitions and simple. Measurement is easy and quick
- The success rate of fault detection, test accuracy and test convenience better than similar products.
- Samples with extremely high security protection. Test equipment will not freeze and damage in the impact of high pressure environment.
- No blind area of test.
- Built-in power supply, can be tested the open circuit and low resistance short-circuit fault without the AC power.
- Measurement data transfer to PC

## Standard Accessories

- Main Unit TDR90 and Central Control Unit TMCU90 with main cables
- Connection cable with tapping terminal
- Battery charger and power supply
- User manual