UNDERGROUND CABLE FAULT LOCATING EQUIPMENTS & SYSTEMS

CI 60S-D **Digital Cable Identification System**

Description

Digital Cable Identification System is an essential item in the kit for fault location of underground power cable network.

It consists of Identification Transmitter, Digital Identification Receiver and Identification Tongs. The system is use for identification of wanted cable from the bunch of cables in power cable network.

The precise identification of a particular cable from a bunch is a common problem faced by technicians and cable jointers in every day practice.

The wrong identification of a power cable can result in catastrophic or fatal results if the cable is cut. This requires the most reliable system having no chance for wrong identification. This incorporates all the safety features and gives 100% safe full identification of the wanted cable, and leaving no chance for an accident.

Application

Digital Cable Identification System can be effectively used to identify any power cable low, medium, high or extra high voltage single or multi core cable of any grade, size and insulation in any power distribution networks companies.

Features

- Non destructive, simple, and easy system to used and understand the operation.
- Identification of wanted cable from the bunch of cables in power network.
- Suitable for single and multi core armored or unarmored power cables.
- High Impulse current to offer reliable good result of identification.
- Cyclical pulse repetition for precise cable identification.
- Modulation control for better result..
- Operation on mains / internal battery supply.
- Manual selectable sensitivity control receiver from minimum to maximum.
- Rugged construction and easy to carry on site.
- Hand held, small, flexible receiver with Digital display 128x64
- High pulse DC current up to 60 Amp.
- Availability of special tongs as per customer's requirement.
- Complete system is offered in a robust molded carrying case.

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001:2015

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Working Principle

The saw toothed impulses sent on the wanted cable to the far end are given return path to the sending end through the sheaths armors of all the cables. Current flow direction is monitored on all the cables.

Direction of current flow in the wanted cable is in one direction whereas it is indifferent in all other cables. Thus the direction of the current flow identifies the wanted cable.

Function

The Cable Identification System consists of Cable identification transmitter, Digital Cable identification receiver and Cable identification Directional Tongs. The saw toothed impulses from the transmitter are fed into the cable which is to be identified. Identification directional Tongs applied on the cable receive them as DC impulse and are feed to the identification receiver unit. Direction of current of these impulses identifies the wanted cable, on wanted cable the digital graphical display deflect on right direction and on other unwanted cable its deflect on wrong direction.

Standard Accessories

- Mains supply cord
- Output connecting cables
- Earthing cable

Standard Warranty	**One Year**
Other models available	**Cable Identification System CI 60 (Mains Operated)**

Note: Special Tongs CT 150 available on request

Specifications

Cable Identification Transmitter PG 60S

Power Supply	230V AC ± 10%, 50 Hz, Single phase or from built in-Accumulator with internal charging supply
Impulse Voltage	36 V
Impulse Current	60 Amp
Impulse Sequence I	2.5s
Impulse Sequence II	2.5 and 1 s alternating
Indication	Analog moving coil meter for output current Charging Indication Power on indication Low battery Indication
Operating Time	6 Hrs. Continuous
Working Temp.	0 Deg C ~ 55 Deg C
Storage Temp.	-5 Deg C ~ 60 Deg C
Dimensions	242(L) x 134(W) x 245(D) mm
Weight	5.3 kg Approx.

Digital Cable Identification Receiver PR-6D

Sensitivity	6 stages manually selectable from minimum to maximum.
Display	Digital graphical display 128x64 with back-lit sensing
Indication	Digital Arrow with Right & Wrong indication
Power supply	9V battery (recommended Duracell)
Working Temp.	0 Deg C ~ 55 Deg C
Storage Temp.	-5 Deg C ~ 60 Deg C
Dimensions	235(L) x 130(W) x 50(D) mm
Weight	0.5 kg Approx.

Cable Identification Tongs CT120 (Optional CT150)

Internal Diameter	120 mm
Dimensions	268(L) x 160(W) x 35(D) mm
Weight	1.08 kg

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*Specification subject to change without notice
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