

Distance Locator for an Underground Cable Fault

Rohit Khandu Jarande¹, Juhi Liladhar Dawale², Jatin Shailesh Chaudhari³, Sarthak Anna Shende⁴,
Pooja Santosh Khandekar⁵, Keya Shailendra Gawai⁶

Third Year Engineering, Department of Electrical Engineering

Jawaharlal Darda Institute of Engineering and Technology Yavatmal, India¹²³⁴⁵⁶

Jaranderohit41@gmail.com¹, Juhi.dawale.@gmail.com², chaudharijatin79@gmail.com³,
Sarthakshende123@gmail.com⁴, poojakhandekar6266@gmil.com⁵, keyagawai9@gmail.com⁶

Abstract: In this paper, a way for sleuthing underground cable fault distance locator is done by using microcontroller. The target of this project is to work out the gap of underground cable fault through base station in kilometers. It uses the straight forward conception of ohm's law, voltage drop can vary counting on the length of fault in cable, since the current varies. A group of resistors are used to represent the length of cable in kilometers and a dc voltage is fed at one end and the fault is detected the change in voltage using analog to voltage converter. The fault occurring at what distance is shown on LCD which is interfaced with the microcontroller that is used to make the necessary calculations.

Keywords: Underground cable, fault location, fault detection, location method, microcontroller

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