I lung hop test for Mocating under grand Cable with the help of Merry loop test, we can easily locate fourt and short circuit fourt in the Under ground Cable. At first, We describe how does locate conthin underground Cable. The procedure of Earth tout testi-In this test, the Sound Cable is used to Connece in between test and for end of the tourby Conductor: Test End for end Registance Connection = Earth fault. Earth Path

or, 
$$x = \frac{Q}{P+Q} \times 2^{\gamma}$$

Let, total lengths of the Cable is I mater, So the resistance per meter will be: Mr, Therfore, We Can easily measure the fault point from the faulty point is

Note that the fault resistance Rt is not in the bridge circuit, So, the fault ballowing of the bridge.

$$\frac{P}{Q} = \frac{R}{\chi + S}$$

$$\frac{P+Q}{Q} = \frac{P+x+s,}{x+s,}$$

Can easily set the value of loop resistance. So, the loop resistance = R+x = P it the resistance of the Cable per Meter length is o, So, the loop resistance = R+X = PSI Where P, and P2 are Entacts and is the good of X- Seathan of the Condeator @ Annual Cost of energy wasted, this is on account of energy lost main tain the Conductor due do 12 R Annual Cost of energy wasted = P3/a

If Annual charge on capital outlay, This is on accomy of paterian of depreciation on the capital cost of complete installation of remainssion line in case of remains and system, it will be the annual marest and depreciation on the capital cost of conductors, supposed and insulators and the cost of their evaluant. Now, for an overhead on ansulator cost is constant the conductor cost is constant the conductor cost is constant the conductor cost is expected.