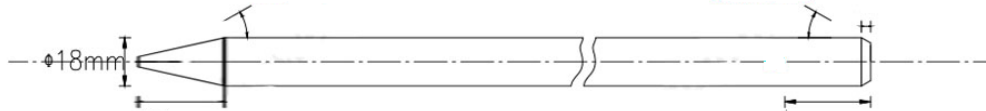


# COPPER EARTHING ROD

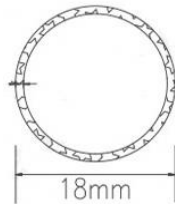
Model No. EPCR-181-5

Pure Copper Earthing Rod is an array of electrodes which is installed in the ground to provide a low resistance electrical path to ground or earth in electrical engineering, ground or earth is the reference point in an electrical circuit from which other voltages are being measured or it is common return path for electric current or a direct physical connection to the Earth.



## MEASUREMENT READING:

- Total Length: 1500mm
- Cone Angel 15°
- Cone length: 10mm
- Height: 18mm
- Chamfer length: 2mm



## FEATURES:

- Diameter 18mm, length 1500mm
- Best solution for terrain providing less earth response
- Capable to provide earthing with resistance less than 5 Ohm
- Long service life
- Offers greater resistance to corrosion
- Use for better conductivity

Electrical circuits may be connected to ground / earth for several reasons. In mains powered equipment, exposed metal parts are connected to ground or earth to prevent contact with a dangerous voltage if electrical insulation fails. Connections to ground, limit the build-up of static electricity when handling flammable products or electrostatic-sensitive devices.

For measurement purposes, the Earth serves as a reasonably constant potential reference against which other potentials can be measured. An electrical Earthing / earthing system should have an appropriate current-carrying capability to serve as an adequate zero-voltage reference level.

In electronic circuit theory, a "ground" is usually idealized as an infinite source or sinks for charge, which can absorb an unlimited amount of current without changing its potential. Where a real ground connection has a significant resistance, the approximation of zero potential is no longer valid. Stray voltages or earth / ground potential rise effects will occur, which may create noise in signals or if large enough will produce an electric shock hazard.



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