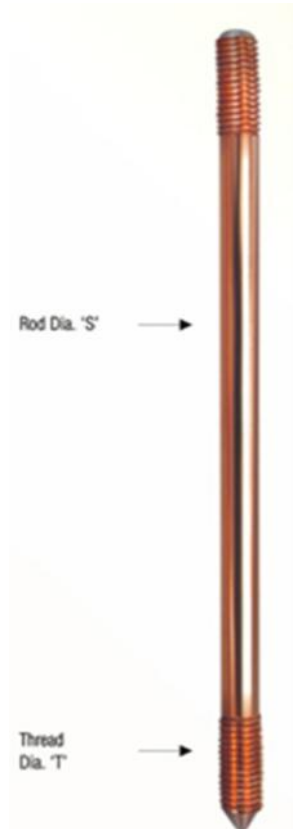


# Copper Bonded Ground Rod

[Amiable Impex](http://www.amiableimpex.com) manufactures Copper Bonded Ground Rod in India. Earth Rod is also known as Ground Rod

Copper Bonded Ground Rod is made from low carbon steel with a high tensile strength of at least 600 N/mm<sup>2</sup>. Low carbon steel core are molecularly tended with 99.9% pure electrolytic copper.

Dimension Rod Size (DIA x LENGTH)	Length in feet	Actual Rod Dia "S"	Thread Dia "T"	Product Code
9.5 x 1200 (UN - THREADED)	4	9.5	-	CBR - 012
9.5 x 1800 (UN - THREADED)	6	9.5	-	CBR - 018
14 x 1200	4	12	14	CBR - 1412
14 x 1500	5	12	14	CBR - 1415
14 x 1800	6	12	14	CBR - 1418
14 x 2000	6.66	12	14	CBR - 1420
14 x 2400	8	12	14	CBR - 1424
5/8" x 4' or 16mm x 1200	4	14.2	5/8"	CBR - 112
5/8" x 5' or 16mm x 1500	5	14.2	5/8"	CBR - 115
5/8" x 6' or 16mm x 1800	6	14.2	5/8"	CBR - 118
5/8" x 8' or 16mm x 2400	8	14.2	5/8"	CBR - 124
5/8" x 10' or 16mm x 3000	10	14.2	5/8"	CBR - 130
5/8" x 4' or 16mm x 1200	4	16	5/8"	CBR - 312
5/8" x 5' or 16mm x 1500	5	16	5/8"	CBR - 315
5/8" x 6' or 16mm x 1800	6	16	5/8"	CBR - 318
3/4" x 4' or 19mm x 1200	4	17.2	3/4"	CBR - 212
3/4" x 5' or 19mm x 1500	5	17.2	3/4"	CBR - 215
3/4" x 6' or 19mm x 1800	6	17.2	3/4"	CBR - 218
3/4" x 8' or 19mm x 2400	8	17.2	3/4"	CBR - 224
3/4" x 10' or 19mm x 3000	10	17.2	3/4"	CBR - 230



## Salient Features of Copper Bonded Ground Rod

- Perfectly bonded Copper Bonded Ground Rod will last longer, drive easier and will not crack.
- In Copper Copper Bonded Ground Rod Clad, Copper purity is 99.95%.
- The Copper Bonded Ground Rod is fully covered with copper cladding without any cracks, holes, cavities etc.
- Threads are rolled by roll threading process, which ensures that when copper covers is maintained, at the root of the thread, Roll thread gives greater strength than cut thread.
- Thread rolling process raises the surface of the rod so that Thread dia. (T) is greater than (S)
- Magnetic conducting rate is low. Thus reducing the lightning induction.
- Good tensile strength in Copper Bonded Ground Rod, over 600N/mm<sup>2</sup>.
- Resist corrosion better than galvanized rods allowing for a 30-year service life in most soils
- Corrosion resistance while providing the lowest resistance to ground.

- Preventing exposure of the steel core to soil and moisture. The Copper Bonded Ground Rod is suitably treated to prevent oxidation of copper bonding.
- The Copper Bonded Ground Rod is capable of being bent 90 degrees at a maximum radius of 100mm with no copper fracture and with no ill effect on the bond between the steel and the copper cladding.
- Copper layer is over 0.254mm (copper layer thickness can be on request, such as 0.10mm, 0.25mm, 0.100mm, 0.150mm, 0.200mm, 0.254mm etc. upto 0.850mm).

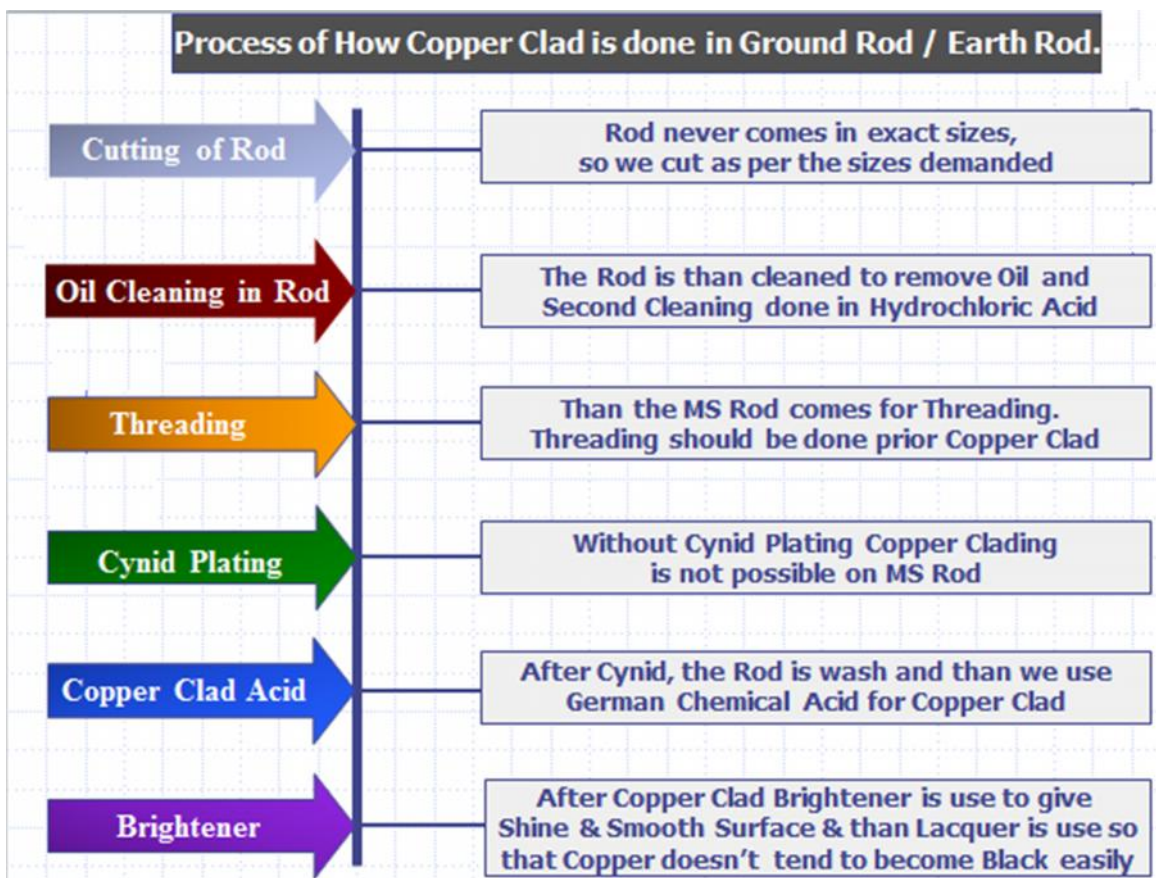
(Please note that 0.254mm is also known as 254 micron or 0.10mm as 100 micron but if our customer request for Standard Micron i.e 15-25 micron, than we also manufacture in standard micron)

We can supply Copper Bonded Ground Rod in all sizes and shapes, threaded and/ or tipped.

- 1) Copper Bonded Ground Rod can be made double heads thread, thread can be packed by plastic sheath
- 2) One end is pointed and the other end is threaded for extend
- 3) One end is pointed and the other end is flat.

\*Special sizes and copper thickness can be supplied on request

**Process** of how Copper Clad is done in Copper Bonded Ground Rod / Earth Rod.



**Packaging:** We maintain Export Sea worthy packing i.e. it firstly packed in Plastic Packing with Thread protection in PVC Cap and then into Hard PVC Plastic pack. We also pack in wooden Packing on request.



Even though many of our products are standard items and of Standard BS Grade, we also make special tailor made products made exactly to the requirements of our customers in terms of Material Grade and Size.

An [Earth rod / Ground 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.

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 grounding / 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.

We have all the expertise needed in developing & manufacturing special types of Copper Bonded Ground Rod as per customers design, size, specifications and different types of coating or microns as required. For more details please visit our website: [www.earth-rod.com](http://www.earth-rod.com) OR [www.amiableimpex.com](http://www.amiableimpex.com)

## Our Other products in Copper Bonded Earth Rod / Earth Rod

S. no.	INDEX
01	<a href="#">Copper Bonded Earth Rod or Grounding Rods</a>
02	<a href="#">Earth Rod or Earthing Rods</a>
03	<a href="#">Copper Bonded Earth Rod 15 to 25 microns</a>
04	<a href="#">100 microns Copper Bonded Earth Rod</a>
05	<a href="#">Copper Clad Earth Rod in150 microns</a>
06	<a href="#">Copper Clad Earth Rod of 250 microns</a>
07	<a href="#">Copper Clad Earth Rod 350 microns</a>
08	<a href="#">Solid Copper Bonded Earth Rod - Pure Copper Rod</a>
09	<a href="#">Stainless Steel Earth Rod</a>
10	<a href="#">Galvanized coated Earth Rod</a>
11	<a href="#">Threaded Earth Rod</a>
12	<a href="#">Earth Rod Clamp</a>
13	<a href="#">Earth Rod Clamps</a>
14	<a href="#">Earth Rod Coupler</a>

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