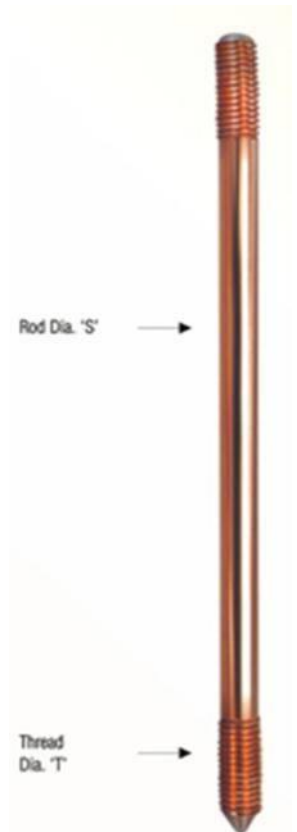


## Copper-Ground-Rod

**Amiable Impex** manufactures **Copper-Ground-Rod** in India. Earth Rod is also known as Ground Rod

**Copper-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<br>(DIA x LENGTH) | Length<br>in feet | Actual Rod<br>Dia "S" | Thread Dia<br>"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-Ground-Rod**

- Perfectly bonded **Copper-Ground-Rod** will last longer, drive easier and will not crack.
- In Copper **Copper-Ground-Rod** Clad, Copper purity is 99.95%.
- The **Copper-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-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-Ground-Rod is suitably treated to prevent oxidation of copper bonding.
- The **Copper-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).

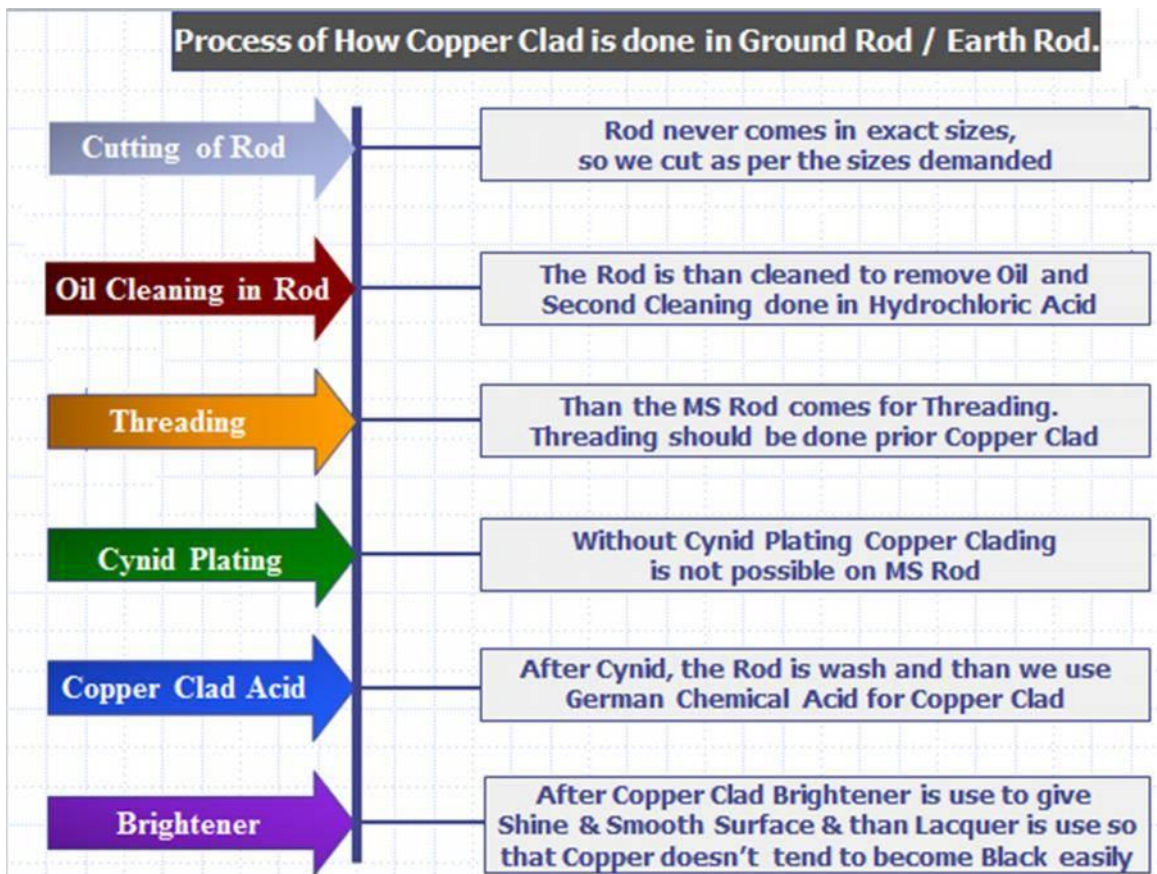
(Please note that 0.254mm is also known as 254 micron or 0.10mm as 100 micron but if our customer request for Standard Micron i.e 15-25 micron, than we also manufacture in standard micron)

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

- 1) **Copper-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-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 toe expertise needed in developing & manufacturing special types of **Copper-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)



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## Amiable Impex Sales are Worldwide

Amiable Impex sells in India at Ahmedabad, Pune, Delhi, Mumbai, Bangalore, Chennai, Kolkata, Surat, Lucknow, Kanpur, Nagpur, Indore, Bhopal, Vadodara(Baroda), Andhra Pradesh - Hyderabad, Arunachal Pradesh - Itanagar, Assam - Dispur, Bihar - Patna, Chhattisgarh - Raipur, Goa - Panaji, Gujarat - Ahmedabad, Haryana - Chandigarh, Himachal Pradesh - Shimla, Srinagar, Jharkhand - Ranchi, Karnataka, Kerala - Thiruvanthapuram, Madhya Pradesh - Bhopal, Maharashtra - Mumbai, Orissa - Bhubaneswar, Punjab - Chandigarh, Rajasthan - Jaipur, Sikkim, Tamil Nadu - Chennai, Uttar Pradesh - Lucknow, Uttaranchal - Dehradun, West Bengal - Kolkata.

We can also export to Countries like Afghanistan - Kabul, Albania - Tirane, Algeria - Algiers, Andorra - Andorra la Vella, Angola - Luanda, Antigua and Barbuda - Saint John's, Argentina - Buenos Aires, Armenia - Yerevan, Australia - Canberra, Austria - Vienna, Azerbaijan - Baku, The Bahamas - Nassau, Bahrain - Manama, Bangladesh - Dhaka, Barbados - Bridgetown, Belarus - Minsk, Belgium - Brussels, Belize - Belmopan, Benin - Porto-Novo, Bhutan - Thimphu, Bolivia - La Paz, Sucre, Bosnia and Herzegovina - Sarajevo, Botswana - Gaborone, Brazil - Brasilia, Brunei - Bandar Seri Begawan, Bulgaria - Sofia, Burkina Faso - Ouagadougou, Burundi - Bujumbura, Cambodia - Phnom Penh, Cameroon - Yaounde, Canada - Ottawa, Cape Verde - Praia, Central African Republic - Bangui, Chad - N'Djamena, Chile - Santiago, China - Beijing, Colombia - Bogota, Comoros - Moroni, Congo Republic of the - Brazzaville, Congo, Democratic Republic of the - Kinshasa, Costa Rica - San Jose, Cote d'Ivoire - Yamoussoukro, Abidjan (de facto), Croatia - Zagreb, Cuba - Havana, Cyprus - Nicosia, Czech Republic - Prague, Denmark - Copenhagen, Djibouti - Djibouti, Dominica - Roseau, Dominican Republic - Santo Domingo, East Timor (Timor-Leste) - Dili, Ecuador - Quito, Egypt - Cairo, El Salvador - San Salvador, Equatorial Guinea - Malabo, Eritrea - Asmara, Estonia - Tallinn, Ethiopia - Addis Ababa, Fiji - Suva, Finland - Helsinki, France - Paris, Gabon - Libreville, The Gambia - Banjul, Georgia - Tbilisi, Germany - Berlin, Ghana - Accra, Greece - Athens, Grenada - Saint George's, Guatemala - Guatemala City, Guinea - Conakry, Guinea-Bissau - Bissau, Guyana - Georgetown, Haiti - Port-au-Prince, Honduras - Tegucigalpa, Hungary - Budapest, Iceland - Reykjavik, India - Delhi, Indonesia - Jakarta, Iran - Tehran, Iraq - Baghdad, Ireland - Dublin, Israel - Jerusalem, Italy - Rome, Jamaica - Kingston, Japan - Tokyo, Jordan - Amman, Kazakhstan - Astana, Kenya - Nairobi, Kiribati - Tarawa Atoll, Korea, North - Pyongyang, Korea, South - Seoul, Kosovo - Pristina, Kuwait - Kuwait City, Kyrgyzstan - Bishkek, Laos - Vientiane, Latvia - Riga, Lebanon - Beirut, Lesotho - Maseru, Liberia - Monrovia, Libya - Tripoli, Liechtenstein - Vaduz, Lithuania - Vilnius, Luxembourg - Luxembourg, Macedonia - Skopje, Madagascar - Antananarivo, Malawi - Lilongwe, Malaysia - Kuala Lumpur, Maldives - Male, Mali - Bamako, Malta - Valletta, Marshall Islands - Majuro, Mauritania - Nouakchott, Mauritius - Port Louis, Mexico - Mexico City, Micronesia, Federated States of - Palikir, Moldova - Chisinau, Monaco - Monaco, Mongolia - Ulaanbaatar, Montenegro - Podgorica, Morocco - Rabat, Mozambique - Maputo, Myanmar (Burma) - Rangoon (Yangon); Naypyidaw or Nay Pyi Taw, Namibia - Windhoek, Nauru, Nepal - Kathmandu, Netherlands - Amsterdam; The Hague, New Zealand - Wellington, Nicaragua - Managua, Niger - Niamey, Nigeria - Abuja, Norway - Oslo, Oman - Muscat, Pakistan - Islamabad, Palau - Melekeok, Panama - Panama City, Papua New Guinea - Port Moresby, Paraguay - Asuncion, Peru - Lima, Philippines - Manila, Poland - Warsaw, Portugal - Lisbon, Qatar - Doha, Romania - Bucharest, Russia - Moscow, Rwanda - Kigali, Saint Kitts and Nevis - Basseterre, Saint Lucia - Castries, Saint Vincent and the Grenadines - Kingstown, Samoa - Apia, San Marino - San Marino, Sao Tome and Principe - Sao Tome, Saudi Arabia - Riyadh, Senegal - Dakar, Serbia - Belgrade, Seychelles - Victoria, Sierra Leone - Freetown, Singapore - Singapore, Slovakia - Bratislava, Slovenia - Ljubljana, Solomon Islands - Honiara, Somalia - Mogadishu, South Africa - Pretoria, Cape Town, Bloemfontein, South Sudan - Juba, Spain - Madrid, Sri Lanka - Colombo; Sri Jayewardenepura Kotte, Sudan - Khartoum, Suriname - Paramaribo, Swaziland - Mbabane, Sweden - Stockholm, Switzerland - Bern, Syria - Damascus, Taiwan - Taipei, Tajikistan - Dushanbe, Tanzania - Dar es Salaam; Dodoma, Thailand - Bangkok, Togo - Lome, Tonga - Nuku'alofa, Trinidad and Tobago - Port-of-Spain, Tunisia - Tunis, Turkey - Ankara, Turkmenistan - Ashgabat, Tuvalu - Vaiaku village, Funafuti province, Uganda - Kampala, Ukraine - Kyiv, United Arab Emirates - Abu Dhabi, United Kingdom - London, United States of America - Washington D.C., Uruguay - Montevideo, Uzbekistan - Tashkent, Vanuatu - Port-Vila, Vatican City Holy See) - Vatican City, Venezuela - Caracas, Vietnam - Hanoi, Yemen - Sanaa, Zambia - Lusaka, Zimbabwe - Harare