

COPPER BONDED EARTH ROD MANUFACTURER



Amiable

MANUFACTURE OF COPPER BONDED EARTH ROD



COPPER BONDED EARTH ROD

Copper bonded earth rods are made from low carbon Steel.

Earth Rods are molecularly bonded with 99.9% pure electrolytic copper.

Salient Features-

- * Perfectly Bonded rod will last longer, drive easier and will not crack.
- * Corrosion resistance while providing the lowest resistance to ground.
- * Threads are rolled by roll threading process, which ensures that an even copper covering is maintained, even at the roof 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 shank dia. (S).

As seen in figure-

Dimension Rod Size (DIA x LENGTH)	Actual Rod Dia. "S"	Thread Dia. "T"	Product Code Copper Bonded	Product Code Solid Bonded
9.5 x 1200 (UN - THREADED)	9.5	-	AI1-CBR - 012	AI1-SBR - 012
9.5 x 1800 (UN - THREADED)	9.5	-	AI1-CBR - 018	AI1-SBR - 018
14 x 1200	12	14	AI1-CBR - 412	AI1-SBR - 1412
14 x 1500	12	14	AI1-CBR - 1415	AI1-SBR - 415
14 x 1800	12	14	AI1-CBR - 418	AI1-SBR - 418
14 x 2000	12	14	AI1-CBR - 420	AI1-SBR - 1420
14 x 2400	12	14	AI1-CBR - 1424	AI1-SBR - 1424
5/8" x 4" or 16mm x 1200	14.2	5/8"	AI1-CBR - 112	AI1-SBR - 112
5/8" x 5" or 16mm x 1500	14.2	5/8"	AI1-CBR - 115	AI1-SBR - 115
5/8" x 6" or 16mm x 1800	14.2	5/8"	AI1-CBR - 118	AI1-SBR - 118
5/8" x 8" or 16mm x 2400	14.2	5/8"	AI1-CBR - 124	AI1-SBR - 124
5/8" x 10" or 16mm x 3000	14.2	5/8"	AI1-CBR - 130	AI1-SBR - 130
5/8" x 4" or 16mm x 1200	16	5/8"	AI1-CBR - 312	AI1-SBR - 312
5/8" x 5" or 16mm x 1500	16	5/8"	AI1-CBR - 315	AI1-SBR - 315
5/8" x 6" or 16mm x 1800	16	5/8"	AI1-CBR - 318	AI1-SBR - 318
3/4" x 4" or 19mm x 1200	17.2	3/4"	AI1-CBR - 212	AI1-SBR - 212
3/4" x 5" or 19mm x 1500	17.2	3/4"	AI1-CBR - 215	AI1-SBR - 215
3/4" x 6" or 19mm x 1800	17.2	3/4"	AI1-CBR - 218	AI1-SBR - 218
3/4" x 8" or 19mm x 2400	17.2	3/4"	AI1-CBR - 224	AI1-SBR - 224
3/4" x 10" or 19mm x 3000	17.2	3/4"	AI1-CBR - 230	AI1-SBR - 230
25mm x 2400 (UN - THREADED)	25	-	AI1-CBR - 424	AI1-SBR - 424
25mm x 3000 (UN - THREADED)	25	-	AI1-CBR - 430	AI1-SBR - 430



ROD Dia
"S"

Thread Dia
"T"



UL Listed Copper Bonded Earthing Rod are Minium 1/2" Dia and 2400 mm Length

Above Rod can also be made as per customer specification. We manufacture Earth Rod from 10 microns to 350 microns. Our Speciality id Copper Bonded Rod in 250 microns

COUPLER

Material – Copper Alloy

Coupler are made from copper alloy & counter bored to completely enclose threads, protecting them from damage & corrosion.

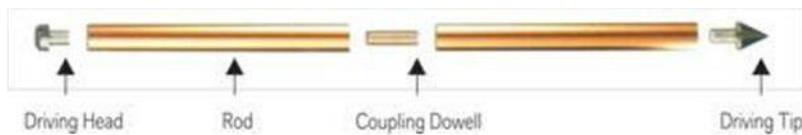
Size	Product Code	Product Code AL. BRONZE
14mm	AI15-COB -14	AI15-COAB -14
5/8" or 16mm	AI15-COB -16	AI15-COAB -16
3/4" or 19mm	AI15-COB -19	AI15-COAB -19



SOLID COPPER EARTH ROD

Solid copper earth rods are made from 99.9% pure electrolytic copper. Solid Copper rods offer greater resistance to corrosion. They are ideally used in applications where soil conditions are very Aggressive. For Eg. Soil with high salt content

INTERNALLY THREADED



Rod DIA. mm	Length	Thread DIA	Product Code
12	1200	M8	AI16-SCR - 1212
12.5	1200	M8	AI16-SCR - 12512
14	1200	M10	AI16-SCR - 1412
14	1500	M10	AI16-SCR - 1415
15	1200	M10	AI16-SCR - 1512
15	1500	M10	AI16-SCR - 1515
16	1200	M10	AI16-SCR - 1612
16	1500	M10	AI16-SCR - 1615
20	1200	M12	AI16-SCR - 2012
20	1500	M12	AI16-SCR - 2015

ACCESSORIES FITTINGS FOR SOLID COPPER ROD



Size	Driving Head	Coupling Dowell	Driving Tip
M 8	AI17-DH - 8	AI17-CD - 8	AI17-DT - 8 M
10	AI17-DH - 10	AI17-CD - 10	AI17-DT - 10
M 12	AI17-DH - 12	AI17-CD - 12	AI17-DT - 12

ADH - 10

MACHANICALLY COPPER BONDED EARTH ROD

Mechanically copper claded grounding rod is made when electrolytic grade 99.9% copper tube with wall thickness of 0.25 (250 microns) is claded to a low carbon steel rod. Even if the rod is bent by 45°, the copper tube should not peel out of the steel rod.



Rod Size "S"	Length	Product Code
12	1200	AI17-CCGR -1412
12	1800	AI17-CCGR -1418
12	2400	AI17-CCGR -1424
14	1200	AI17-CCGR -112
14	1800	AI17-CCGR -118
14	2400	AI17-CCGR -124
16	1200	AI17-CCGR -312
16	1800	AI17-CCGR -318
16	2400	AI17-CCGR -324
16	3000	
19	1200	AI17-CCGR -412
19	1800	AI17-CCGR -418
19	2400	AI7-CCGR -424
19	3000	AI17-CCGR -430

GALVANISED STEEL EARTH ROD

Galvanised Steel Earth Rods are made up of high Strength low carbon steel and hot dip galvanized. This design of the rod is actually cost effective option for earthing.



*Above rod can also be supplied as per customer specification.

Rod Size "S"	Length	Product Code
1/2" / 12.5 mm	1500 (5 ft)	AI18-GSER -1215
1/2" / 12.5 mm	1800 (6 ft)	AI18-GSER -1218
1/2" / 12.5 mm	2400 (8 ft)	AI18-GSER -1224
5/8" / 14.2 mm	1800 (6 ft)	AI18-GSER -1418
5/8" / 14.2 mm	2400 (8 ft)	AI18-GSER -1424
5/8" / 14.2 mm	3000 (10 ft)	AI18-GSER -1430
3/4" / 17.2 mm	2400 (8 ft)	AI18-GSER -1724
3/4" / 17.2 mm	3000 (10 ft)	AI18-GSER -1730
1" / 23.1 mm	3000 (10 ft)	AI18-GSER -2330

FITTINGS

Copper alloy clamps are made from Bronze / Gunmetal / High Strength Copper Alloy body which give strong resistance to corrosion.

Following are the range of clamps we offer- Fasteners are made from high strength Copper Alloy / Steel / Stainless Steel.

Earth Rod Clamp - (A Clamp Small)

Suitable For Rod Dia. 12 mm

Product Code - AI4-ERC - 1

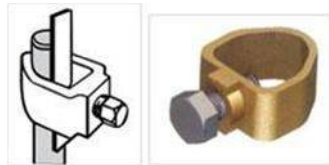


"O" Clamp



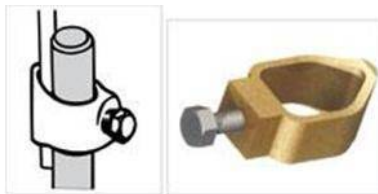
Size	Max Cond. Size	Product Code
5/8"/16	35	AI4-OC - 1
5/8"/16	70	AI4-OC - 2
3/4"/20	95	AI4-OC - 3

Rod To Tape Clamp - A Type



Size	Max Cond. Size	Product Code
5/8"	26 x 12	AI4-RTC - 1
5/8"	40 x 12	AI4-RTC - 2
5/8"	51 x 12	AI4-RTC - 3

Rod To Cable Clamp - G Type



Size	Max Cond. Size	Product Code
3/8"/ 9.5	35	AI4-RCC - 1
1/2"/ 12	50	AI4-RCC - 2
5/8"/ 16	35	AI4-RCC - 3A
5/8"/ 16	70	AI4-RCC - 3B
5/8"/ 16	95	AI4-RCC - 3C
3/4"/ 20	95	AI4-RCC - 4 1"/
25	120	AI4-RCC - 5

Rod To Cable Lug Clamp - B Type



Rod Dia.	Product Code
3/8" / 9/5	AI4-RCL - 1
5/8" / 16	AI4-RCL - 2
3/4" / 20	AI4-RCL - 3

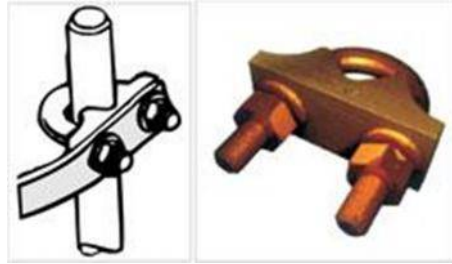
U -BOLT Clamps

Material -

Plate - Gunmetal / Brass

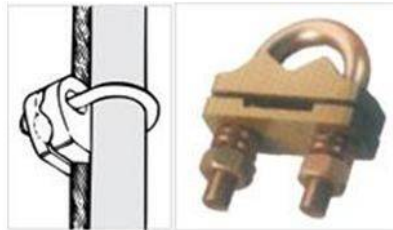
U Bolt - Copper / Copper Alloy / Stainless Steel

U Bolt - Rod Clamp



Nominal Rod Dia.	Hole Centres mm	Product Code
5/8"	37	AI5-URC - 16
3/4"	37	AI5-URC - 20
1"	37	AI5-URC - 25
1.1/4"	43	AI5-URC - 32
1.1/2"	54	AI5-URC - 40
2"	64	AI5-URC - 50

U Bolt - Rod To Tape Clamp



Nominal Rod Dia.	Tape Size mm	Product Code
5/8" / 16	25	AI5-URTC -16
3/4" / 20	50	AI5-URTC -20
1" / 25	50	AI5-URTC -25

U Bolt - Rod To Cable Clamp- „GUV"

These are used for Connecting Rod to Cable.
Available with different Rod & Cable size.



Nominal Rod Dia.	Conductor Range - mm2	Product Code
5/8" / 16	16 - 95	AI5-URCCG -1
3/4" / 20	16 - 70	AI5-URCCG -2
5/8" / 16	70 - 185	AI5-URCCG -3
5/8" / 20	70 - 150	AI5-URCCG -4

U Bolt - Rod To Cable Clamp - „SCE"

These are used for Connecting Rod to Cable.
Available with different Rod & Cable size.



Nominal Rod Dia.	Conductor Range - mm2	Product Code
9.5	6 - 35	AI5-URCCS -1
14	16 - 95	AI5-URCCS -2
5/8"/16mm	16 - 95	AI5-URCCS -3
3/4"/20mm	70 - 300	AI5-URCCS -4
1"/25mm	70 - 185	AI5-URCCS -5

U Bolt For Rigid Pipe & Cables- „PUB"

These U Bolts are used for universal parallel or 90 degree cable connection to rod or pipe



Nominal Rod Dia.	Product Code
3/8"	AI5-URP -38
1/2"	AI5-URP -12
3/4"	AI5-URP -34
1 - 1/2"	AI5-URP -112
2"	AI5-URP -2

STAINLESS STEEL UNTHREADED ROD

Stainless steel ground rods are used to overcome many of the problems caused by galvanic corrosion which can take place between dissimilar metals buried in close proximity. Other advantage of stainless steel rod is that they are highly resistant to corrosion and much more anodic than copper.



*Stainless Steel Rod can also be supplied in Internally Threaded.
*UL listed Rods are minimum 1/2" Dia. & 2400 mm in length.

Diameter		Length		Packing	Product Code
Inches	MM	Feet	M		
5/8"	14.2	5"	1.5	10	AI19-SSR - 145
5/8"	14.2	8"	2.44	10	AI19-SSR - 148
5/8"	14.2	10"	3.05	10	AI19-SSR - 1410
3/4"	17.2	5"	1.5	5	AI19-SSR - 175
3/4"	17.2	10"	3.05	5	AI19-SSR - 1710
1.0"	23.1	10"	3.05	1	AI19-SSR - 2410

CROSS EARTH ROD - WITH FLAG / WITHOUT FLAG

Cross Earth Rod, Hot Galvanised Steel with Holes of 11 mm or 13 mm.



Sizes	Length	Product Code	
		With Flag	Without Flag 50 x
50 x 3	1000	AI20-CERF - 10	AI20-CERWF - 10
50 x 50 x 3	1500	AI20-CERF - 15	AI20-CERWF - 15
50 x 50 x 3	2000	AI20-CERF - 20	AI20-CERWF - 20
50 x 50 x 3	2500	AI20-CERF - 25	AI20-CERWF - 25
50 x 50 x 3	3000	AI20-CERF - 30	AI20-CERWF - 30

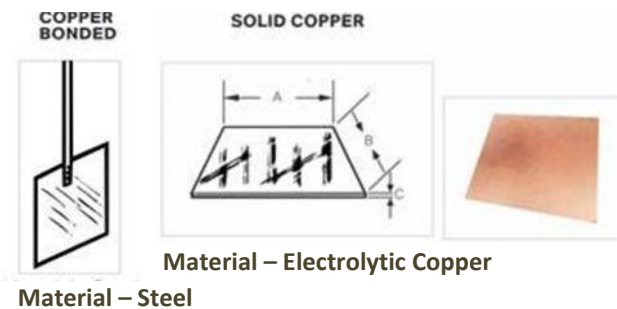
"T" EARTH ROD

"T" Earth Rod with 2 holes of 13 mm.



Sizes	Length	Product Code
50 x 50 x 7	1550	AI20-TER - 155 - 155
Sets of Hot Galvanised Bolts (2 Bolts M12 x 53mm, 2 Washers & 2 Nuts)		

EARTH PLATES



COPPER BONDED

Size (A x B x C)	Product Code
600 x 600 x 1.5	AI2-CBP - 615
500 x 500 x 1.5	AI2-CBP - 515
600 x 600 x 3	AI2-CBP - 63
900 x 900 x 3	AI2-CBP - 93
500 x 500 x 3	AI2-CBP - 53

SOLID COPPER BONDED

Size (A x B x C)	Product Code
600 x 600 x 1.5	AI2-SCP - 615
600 x 600 x 3	AI2-SCP - 63
600 x 600 x 5	AI2-SCP - 65
500 x 500 x 3	AI2-SCP - 53
500 x 500 x 5	AI2-SCP - 55
900 x 900 x 3	AI2-SCP - 93
900 x 900 x 5	AI2-SCP - 95
1000 x 1000 x 3	AI2-SCP - 103
1000 x 1000 x 5	AI2-SCP - 105

EARTH PLATE - LATTICE COPPER



Size (A x B x C)	Product Code
600 x 600 x 3	AI3-LCP - 63
900 x 900 x 3	AI3-LCP - 93
500 x 500 x 3	AI3-LCP - 53



Amiable

AMIABLE IMPEX

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