



UL Listed Product Catalog 2014





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ENTERPRISES

COPPER BONDED EARTH RODS / GROUND RODS





"Crystal" Copper Bonded Earth Rods / Ground Rods are manufactured in the companies Vasai plant dedicated to the manufacturing of earthing rods. The plant is equipped with facilities to produce in house up to 1800 metric tons annually all type of earthing rods. The steel core used for the manufacturing of the Copper Bonded Earth Rods is high tensile strength. The rods are electroplated with indigenously developed baths to produce a very strong bonding between the steel and copper. Also the innovative plating methods allow us to maintain copper plating of minimum 254 microns at any point of the rod. The extra edge of the quality of our Copper Bonded Earth Rods is also proved by the fact that all our threaded rods are threaded by thread rolling after the copper plating process hence providing the accurate threading size. All our rods are checked according to the stringent UL 467 norms. And majority of our Rods are UL Listed.

TRADE NAME		SIZE D	PART NO.	LISTING		
	THREAD SIZE	SHANK DIA	LENGTH	Cu THICKNESS AT ANY POINT	PART NO.	LISTING
1/2" x 4 feet	9/16"	12.7mm	4 Feet	254µM Min.	C-1204BT	
1/2" x 4 feet	Unthreaded	12.7mm	4 Feet	254µM Min.	C-1204BU	
1/2" x 5 feet	9/16"	12.7mm	5 Feet	254µM Min.	C-1205BT	
1/2" x 5 feet	Unthreaded	12.7mm	5 Feet	254μM Min.	C-1205BU	
1/2" x 6 feet	9/16"	12.7mm	6 Feet	254µM Min.	C-1206BT	
1/2" x 6 feet	Unthreaded	12.7mm	6 Feet	254µM Min.	C-1206BU	
1/2" x 7 feet	9/16"	12.7mm	7 Feet	254µM Min.	C-1207BT	
1/2" x 7 feet	Unthreaded	12.7mm	7 Feet	254µM Min.	C-1207BU	
1/2" x 8 feet	9/16"	12.7mm	8 Feet	254µM Min.	C-1208BT	UL US LISTED
1/2" x 8 feet	Unthreaded	12.7mm	8 Feet	254µM Min.	C-1208BU	UL US LISTED
1/2" x 10 feet	9/16"	12.7mm	10 Feet	254µM Min.	C-1210BT	C UL US LISTED
1/2" x 10 feet	Unthreaded	12.7mm	10 Feet	254µM Min.	C-1210BU	CUL US LISTED
1/2" x 12 feet	9/16"	12.7mm	12 Feet	254µM Min.	C-1212BT	c UL us USTED
1/2" x 12 feet	Unthreaded	12.7mm	12 Feet	254µM Min.	C-1212BU	c UL us LISTED
5/8" x 4 Feet	5/8"	14.2mm	4 Feet	254µM Min.	C-5804BT	
5/8" x 4 Feet	Unthreaded	14.2mm	4 Feet	254µM Min.	C-5804BU	
5/8" x 5 Feet	5/8"	14.2mm	5 Feet	254µM Min.	C-5805BT	
5/8" x 5 Feet	Unthreaded	14.2mm	5 Feet	254µM Min.	C-5805BU	
5/8" x 6 Feet	5/8"	14.2mm	6 Feet	254µM Min.	C-5806BT	
5/8" x 6 Feet	Unthreaded	14.2mm	6 Feet	254µM Min.	C-5806BU	
5/8" x 7 Feet	5/8"	14.2mm	7 Feet	254µM Min.	C-5807BT	
5/8" x 7 Feet	Unthreaded	14.2mm	7 Feet	254µM Min.	C-5807BU	
5/8" x 8 Feet	5/8"	14.2mm	8 Feet	254µM Min.	C-5808BT	ŲL LĮSTED
5/8" x 8 Feet	5/8"	14.2mm	8 Feet	330µM Min.	C-5808BTR	UL US LISTED



COPPER BONDED EARTH RODS / GROUND RODS



TD455 NAME		SIZE D		LICTING		
TRADE NAME	THREAD SIZE (A)	SHANK DIA (B)	LENGTH (C)	Cu THICKNESS AT ANY POINT	PART NO.	LISTING
5/8" x 8 Feet	Unthreaded	14.2mm	8 Feet	254µM Min.	C-5808BU	UL) US LISTED
5/8" x 8 Feet	Unthreaded	14.2mm	8 Feet	330µM Min.	C-5808BUR	UL US LISTED
5/8" x 10 Feet	5/8"	14.2mm	10 Feet	254µM Min.	C-5810BT	C UL US
5/8" x 10 Feet	5/8"	14.2mm	10 Feet	330µM Min.	C-5810BTR	C UL US
5/8" x 10 Feet	Unthreaded	14.2mm	10 Feet	254µM Min.	C-5810BU	C UL US
5/8" x 10 Feet	Unthreaded	14.2mm	10 Feet	330µM Min.	C-5810BUR	C UL US
5/8" x 12 Feet	5/8"	14.2mm	12 Feet	254µM Min.	C-5812BT	C UL US
5/8" x 12 Feet	Unthreaded	14.2mm	12 Feet	254µM Min.	C-5812BU	C UL US
3/4" x 4 Feet	3/4"	17.2mm	4 Feet	254µM Min.	C-3404BT	
3/4" x 4 Feet	Unthreaded	17.2mm	4 Feet	254µM Min.	C-3404BU	
3/4" x 5 Feet	3/4"	17.2mm	5 Feet	254µM Min.	C-3405BT	
3/4" x 5 Feet	Unthreaded	17.2mm	5 Feet	254µM Min.	C-3405BU	
3/4" x 6 Feet	3/4"	17.2mm	6 Feet	254µM Min.	C-3406BT	
3/4" x 6 Feet	Unthreaded	17.2mm	6 Feet	254µM Min.	C-3406BU	
3/4" x 8 Feet	3/4"	17.2mm	8 Feet	254µM Min.	C-3408BT	UL) US
3/4" x 8 Feet	Unthreaded	17.2mm	8 Feet	254µM Min.	C-3408BU	UL) US
3/4" x 10 Feet	3/4"	17.2mm	10 Feet	254µM Min.	C-3410BT	C UL US
3/4" x 10 Feet	Unthreaded	17.2mm	10 Feet	254µM Min.	C-3410BU	C UL US
3/4" x 12 Feet	3/4"	17.2mm	12 Feet	254µM Min.	C-3412BT	C UL US
3/4" x 12 Feet	Unthreaded	17.2mm	12 Feet	254µM Min.	C-3412BU	C UL US
1" x 8 Feet	1"	23mm	8 Feet	254µM Min.	C-0108BT	UL US
1" x 8 Feet	Unthreaded	23mm	8 Feet	254µM Min.	C-0108BU	UL US
1" x 10 Feet	1"	23mm	10 Feet	254µM Min.	C-0110BT	C UL US
1" x 10 Feet	Unthreaded	23mm	10 Feet	254µM Min.	C-0110BU	C UL US

^{*} Rods with special diameters, different lengths are available on request.



^{*} Threading mentioned above are UNC Threads. BSW or Metric Threads are also available on request.

^{*} Copper Plating Thickness for the above or special sizes can be maintained in the range of 50μM and up to 500μM for special applications on request.

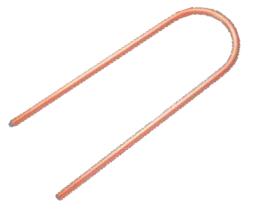
COPPER BONDED EARTH ROD / GROUND ROD QUALITY CHECKS IN-HOUSE

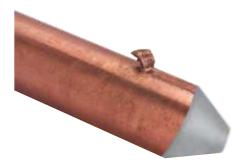




Copper Coating Thickness: All 100% rods (full production) are subjected to the coating thickness test. Every rod at several points is checked by an electronic thickness tester to measure the copper thickness on the steel core. The reading in case of UL listed rods is not less than 254µM and for other rods as specified by the end user.

Bend Test: The bend test is carried out by a rod bending machine to provide an equal force at all points. The rod is subjected to bent up to 180 Degrees. The copper sheath should not crack or tear at any point of the rod.





Adhesion Test: An 18-inch length of the rod with one end cut to a 45 degree point shall be driven between two steel clamping plates or the jaws of a vise, set 0.04 inch less than the diameter of the rod, so as to shear off sufficient metal to expose the bond between the jacket and rod. Peeling of the jacket by the steel plates or the jaws of the vise is acceptable, but there shall be no other evidence of separation of the jacket from the steel core.