



> EARTH ELECTRODES, GROUND ENHANCING PRODUCTS AND EARTH PITS

> 254 µm COPPERBOND EARTH RODS

Aplicaciones Tecnológicas, S.A. uses copperbond earth rods of a high quality which comply with even the most demanding regulations in order to achieve long-lasting earthing. All these earth rods are electrolytically coated with copper which is 254 µm thick and 99.9% pure, with a proven resistance to corrosion. This type of electrolytic coating prevents cracks or fissures, which may be caused in the outer layer of the earth rods with mechanical coating.

Numerous regulations specify that the copper coating on the copperbond earth electrodes should be at least 250 µm:

- > BS 7430: Implementation guide for earthing systems (Great Britain)
- > UL 467: Grounding and bonding equipment (United States)
- > Section 250 of National Electrical Code (NEC) (United States)
- > Technical Guide for implementing no. 18 of the Spanish Low Voltage Electrotechnical Regulations
- > IEC 62305-3 (international lightning protection standard)
- > EN 50164 (IEC 62561-2 (international standard on components of lightning protection systems))

Using the appropriate accessories, threaded copperbond earth rods enable the electrode to extend in order to obtain better earth resistances.

Reference	Dimensions (mm)	Ø minimum (mm)	Shape	Weight (kg)
AT-076H	Ø16 x 1200	14.23	Two 5/8" threads	1.50
AT-077H	Ø16 x 1500	14.23	Two 5/8" threads	1.90
AT-078H	Ø16 x 1800	14.23	Two 5/8" threads	2.28
AT-041H	Ø16 x 2000	14.23	Two 5/8" threads	2.53
AT-016H	Ø16 x 2400	14.23	Two 5/8" threads	3.00
AT-098H	Ø16 x 3000	14.23	Two 5/8" threads	3.80
AT-069H	Ø14,23 x 1200	14.23	No thread	1.50
AT-071H	Ø14,23 x 1500	14.23	No thread	1.90
AT-053H	Ø14,23 x 1800	14.23	No thread	2.28
AT-072H	Ø14,23 x 2000	14.23	No thread	2.53
AT-026H	Ø14,23 x 2400	14.23	No thread	3.00
AT-043H	Ø14,23 x 3000	14.23	No thread	3.80
AT-086H	Ø19 x 1200	17.28	Two 3/4" threads	2.15
AT-087H	Ø19 x 1500	17.28	Two 3/4" threads	2.75
AT-017H	Ø19 x 1800	17.28	Two 3/4" threads	3.27
AT-042H	Ø19 x 2000	17.28	Two 3/4" threads	3.62
AT-018H	Ø19 x 2400	17.28	Two 3/4" threads	4.35
AT-019H	Ø19 x 3000	17.28	Two 3/4" threads	5.44
AT-079H	Ø17,28 x 1200	17.28	No thread	2.15
AT-081H	Ø17,28 x 1500	17.28	No thread	2.75
AT-027H	Ø17,28 x 1800	17.28	No thread	3.27
AT-082H	Ø17,28 x 2000	17.28	No thread	3.62
AT-028H	Ø17,28 x 2400	17.28	No thread	4.35
AT-029H	Ø17,28 x 3000	17.28	No thread	5.44

Complies with BS 7430, UL 467, IEC 62305, EN 50164 (IEC 62561), NFPA 780, UNE 21186, NF C 17-102

Other copper thickness also available. Please contact us.

> ACCESSORIES FOR COPPERBOND EARTH RODS

Reference	Denomination	Dim. (mm)	Material	Weight(g)
AT-002K	5/8" threaded coupling (Ø16 mm)	Ø19 x 70	Gunmetal	124
AT-003K	5/8" threaded driving stud (Ø16 mm)	54 x 22	Stainless steel	60
AT-004K	Threaded clamp 3/4" (Ø19 mm)	Ø24 x 70	Gunmetal	192
AT-005K	Threaded driving stud 3/4" (Ø19 mm)	54 x 25	Stainless steel	130

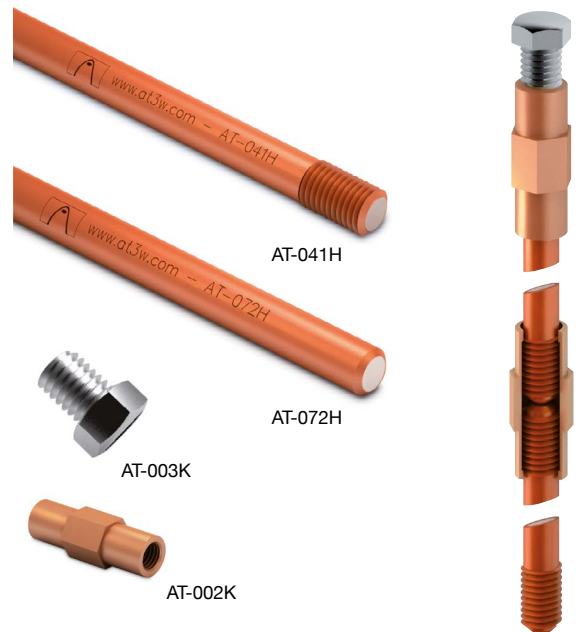
Complies with EN 50164 (IEC 62562), BS EN 1982

INSTALLATION

The electrodes should be placed at a depth of at least 50 cm.

It is preferable to use several conductors conveniently spread out rather than one very long conductor. In the case of an earthing system made up of various interconnected electrodes, it is recommended that:

- > The buried earth rods must be placed in a triangle or line and spaced out at a distance of at least that of their buried depth.
- > The buried earth rods are connected by an identical or compatible conductor to the one used for the down-conductor.
- > The conductor joining the earth rod should be buried at a depth of at least 50 cm.
- > Apply the ground enhancing product CONDUCTIVER PLUS (AT-010L) to the buried electrodes in order to obtain a lower earth resistance.



APPLICATION AT-041H

