

EARTH ELECTRODES, GROUND ENHANCING PRODUCTS AND EARTH PITS

SOLID COPPER EARTH RODS

Solid copper and stainless steel rods allow a long lasting earth in grounds with high corrosion level. Threaded electrodes with the correct accessories allow the length to be increased, thus achieving a better resistance.



AT-031H

Reference	Nominal size (mm)	Shape	Weight (kg)
AT-031H	1200 x Ø15	Internal 5/8" thread	1,63
AT-036H	1200 x Ø20	Internal 3/4" thread	3,35
Meets BS 7430, UL 467, IEC 62305, EN 50164, NFPA 780, UNE 21186, NFC 17102			



AT-031H application

STAINLESS STEEL EARTH RODS



AT-080H



AT-038H

Reference	Nominal size (mm)	Shape	Weight (kg)
AT-000H	1500 x Ø10	No thread	1,5
AT-099H	1000 x Ø16	No thread	1,6
AT-100H	1500 x Ø16	No thread	2,2
AT-080H	2000 x Ø16	No thread	3,33
AT-038H	1500 x Ø20	Extensible type AZ	3,75
AT-037H	1200 x Ø16	Internal 5/8" threads	1,65
Meets BS 7430, UL 467, IEC 62305, EN 50164, NFPA 780, UNE 21186, NFC 17102			



AT-038H application

Couplings of solid copper and stainless steel earth rods

Reference	Denomination	Nominal size (mm)	Material	Weight (kg)
AT-006K	15/16mm Driving stud	39 x Ø14	Stainless steel	40
AT-007K	15/16mm Spike	42 x Ø14	Stainless steel	40
AT-008K	Coupling dowel	40 x Ø10	Stainless steel	20
AT-009K	20mm Driving stud	42 x Ø19	Stainless steel	60
AT-042K	20mm Spike	55 x Ø19	Stainless steel	80
Meets EN 50164				



AT-006K



AT-007K



AT-008K

EARTH ELECTRODES, GROUND ENHANCING PRODUCTS AND EARTH PITS

GALVANIZED STEEL EARTH RODS

Galvanized steel rods are a good option to obtain low resistances in unaggressive grounds. There are extendable models to reach longer lengths and achieve better earth resistances.

Reference	Nominal size (mm)	Shape	Weight (kg)
AT-039H	1000 x Ø16	No thread	1,65
AT-044H	1500 x Ø16	No thread	2,53
AT-045H	2000 x Ø16	No thread	3,42
AT-046H	1500 x Ø20	Extensible type Z	3,71
AT-003H	1500 x Ø20	Extensible type S	3,71
AT-047H	1500 x Ø25	Extensible type Z	5,62
AT-049H	1500 x Ø25	Extensible type S	5,62
AT-093H	1000 x 50 x 50 x 5	X-shaped profile	3,9
AT-094H	1500 x 50 x 50 x 5	X-shaped profile	5,85
AT-095H	2000 x 50 x 50 x 5	X-shaped profile	7,81
AT-096H	2500 x 50 x 50 x 5	X-shaped profile	9,75
AT-097H	3000 x 50 x 50 x 5	X-shaped profile	11,75

Meets DIN 48-452



AT-045H



AT-046H



AT-095H application



AT-095H



AT-003H application



AT-003H

Couplings of galvanized steel earth rods

Reference	Denomination	Nominal size (mm)	Material	Weight (kg)
AT-037K	Impact tip for earth rods Ø20mm	40 x Ø20	Galvanized steel	50
AT-038K	Impact tip for earth rods Ø25mm	45 x Ø25	Galvanized steel	70

Meets EN 50164



AT-037K

GOOSE FOOT

The duck foot is a configuration that the regulation of Lightning Protection UNE 21186 and NFC 17102 recommends in order to obtain low earth inductances. It is formed with tin-plated copper tape of 30x2mm.

Installation:

- Make ditches of at least half a meter depth.
- Extend the tape and cut the corresponding lengths.
- Unscrew the clamp and introduce the stretches of tape as indicated in the drawing with an angle of 45°.
- Firmly fix the screws of the clamp.

Reference	Nominal size	Material	Weight (kg)
AT-000K	30 x 2 mm (4 m + 3 x 7m)	Tin-plated Copper Tape	13
AT-001K	30 x 2 mm (1 m + 3 x 3m)	Tin-plated Copper Tape	5

Meets UNE 21186, NFC 17102



AT-000K

EARTH ELECTRODES, GROUND ENHANCING PRODUCTS AND EARTH PITS

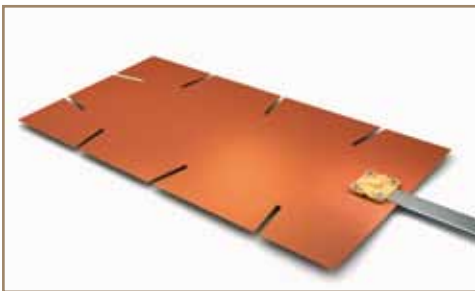
EARTH PLATES

The use of earth plates as electrodes reduces the resistance of earthing in stony grounds, as it increases the area of contact between the electrode and the ground.

The references AT-116H and AT-122H comply with the minimum dimensions recommended in the nº18 Technical Application Guide "Earthing installations" of the 2002 Low Voltage Spanish Electrotechnical Regulation.

Reference	Nominal size (mm)	Included	Material	Weight (kg)
AT-050J	500 x 500 x 2	AT-020F	Copper	4
AT-116H	1000 x 500 x 2	AT-020F	Copper	8
AT-117H	600 x 600 x 1,5	-	Copper	5
AT-118H	600 x 600 x 3	-	Copper	10
AT-119H	900 x 900 x 1,5	-	Copper	11
AT-120H	900 x 900 x 3	-	Copper	22
AT-121H	500 x 500 x 3	-	Galvanized steel	4
AT-122H	1000 x 500 x 3	-	Galvanized steel	8

Meets IEC 62305, EN 50164, EN 13601, BS 2874, UNE 21186, NFC 17102, NFPA 780



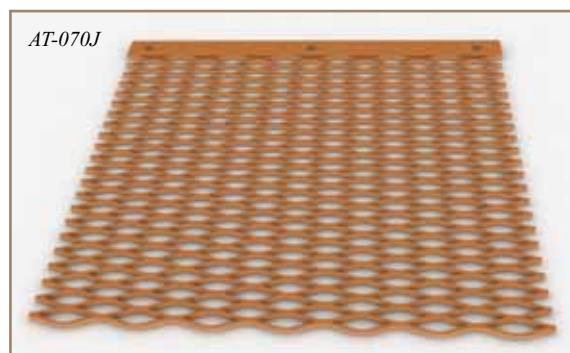
■ AT-116H (Cu)
■ AT-122H (GS)

COPPER LATTICES AND GRIDS

Mesh earths are a more economical option than earth plates and still work well in stony ground, reducing the contact voltages that may occur. AT-070J is recommended to avoid step voltages in public buildings with low resistivity soil.

Reference	Nominal size (mm)	Grids	Weight (kg)
AT-128H	1000 x 1000 x 2	115 x 55 mm	3
AT-123H	2000 x 1000 x 2	115 x 55 mm	4
AT-070J	3000 x 1000 x 2	115 x 55 mm	5
AT-126H	600 x 600 x 3	120 x 120 mm	4
AT-125H	900 x 900 x 3	190 x 190 mm	7,3

Meets IEC 62305, EN 50164, EN 13601



EARTH ELECTRODES, GROUND ENHANCING PRODUCTS AND EARTH PITS

GROUND ENHANCING PRODUCTS

CONDUCTIVER PLUS is a non corrosive ground enhancing gel with low solubility but is very hygroscopic. It is made of an electrolyte base, which contributes to the conductivity of the mixture.

The conductivity of the ground is almost exclusively of an electrolytic nature due to the salts dispersed in the water which impregnate it and which concentrate on the surface due to an adhesive phenomenon of the sand grains and clay in the ground.

Therefore, it is possible to increase the conductivity of the ground, improving its absorption power, retention of water and increasing its richness in soluble salts. It would be very easy to achieve this effect using a simple method, impregnating it with any electrolyte, such as common salt (NaCl) or sodium carbonate (Na₂CO₃), but the high solubility of these salts, as well as their low absorption in the ground mean that they are very quickly swept away by the infiltration waters, making their action very short term. Another inconvenience of common salt is its corrosive effects on the earthing electrodes.

The components of the CONDUCTIVER PLUS® gel have been selected according to their solubility, in order to obtain from the soluble components, a low soluble product, which will provide us with a long lasting conductor product deposit. The main advantage of this product is that **a conductor gel is formed below the soil near the electrode.**

In summary, the CONDUCTIVER PLUS® gel is characterised by:

- Having the capacity to create partially ionized electrolytes, with a high charge and a high capacity to retain water and to form gels.
- Remaining in the ground for a long time, thanks to the formation of links with the particles.
- Increasing conductivity (approximately 200%) of the ground during one year and rainfall of 700 litres/m².
- Not causing corrosion of the earth electrodes.
- Being totally ecological.

METHOD OF APPLICATION

1. The ground can be dry, no previous preparation is necessary.
2. Prepare a mixture of the YELLOW product in 5 litres of water using the measuring recipient.
3. Empty the first solution to the ground and add another 5 litres of water.
4. Leave the product to disappear into the ground.
5. Clean the recipient before continuing with the next product.
6. Prepare a second solution with the WHITE product and 5 litres of water. Empty this mixture evenly on the ground. Add another 5 litres of water. Leave to filter until complete absorption.
7. Once the second product has filtered, you can then take the earth resistance measurement.

Reference	Denomination	Description	Weight (kg)
AT-010L	CONDUCTIVER PLUS®	Non-corrosive and ecological gel that improves soil conductivity	4,5
AT-020L	Graphite powder	Backfill specific for earth termination systems	25
AT-030L	Thin clay-like powder	Backfill specific for earth termination systems	25
AT-031L	APLIFILL®	Compound that reduces soil resistivity by retaining moisture	1
AT-032L	APLIFILL®	Compound that reduces soil resistivity by retaining moisture	25

Meets EN 50164, UNE 21186, NFC 17102



EARTH ELECTRODES, GROUND ENHANCING PRODUCTS AND EARTH PITS

JOINT PROTECTION



Strips to protect buried joints from corrosion.

Reference	Nominal size	Material	Weight (kg)
AT-000J	20 mm x 10 m roll	Self-vulcanising strip	180
AT-010J	50 mm x 10 m roll	Denso tape (Bituminous strip)	610



EARTH PITS



Aplicaciones Tecnológicas earth pits cover all industrial and commercial applications as they are available in 3 materials: polypropylene, concrete and cast iron. **AT-010H** can withstand loads of **5.000 kg**. The principle advantages of these earth pits are the following:

- Easily storage.
- Good resistance to chemical substances.
- Resistant to UV rays.

Reference	Nominal size (mm)	Material	Weight (kg)
AT-010H	250 x 250 x 250	Polypropylene	1,5
AT-010K	410 x 410 x 300	Concrete	60
AT-012K	245 x 245 x 115	Iron cast	31

Meets EN 50164, UNE 21186, NFC 17102



EQUIPOTENTIAL BONDING

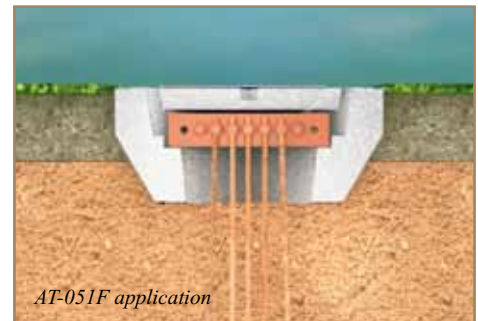
BONDING BARS FOR EARTH PITS

AT-020H and AT-021J allow to disconnect the down-conductor of a lightning protection system from the earth electrode, to be able to measure the earth resistance adequately. They are ready to be fixed to the earth pit AT-010H. You can fix up to 4 copper cables or rounds and 3 tapes.

AT-051F allows joints up to 7 copper cables or round conductors. This bar can be fixed to the earth pit AT-011K. The fixation holes at the end of the bar are separated by 264mm and have a diameter of 16mm.

Reference	Nominal size (mm)	Conductor range		Material	Weight (kg)
		Round	Tape		
AT-020H	235 x 40 x 25	4 x (Ø 8 - 10 mm) (50 - 70 mm ²)	3 x (30 x 2 mm - 30 x 3,5 mm)	Naval brass	0,5
AT-021J	235 x 40 x 25	4 x (Ø 8 - 10 mm) (50 - 70 mm ²)	3 x (30 x 2 mm - 30 x 3,5 mm)	Stainless steel	0,5
AT-051F	325 x 70 x 6	7 x (Ø 8 - 10 mm) (50 - 70 mm ²)	-	Copper	1,5

Meets EN 50164, UNE 21186, NFC 17102



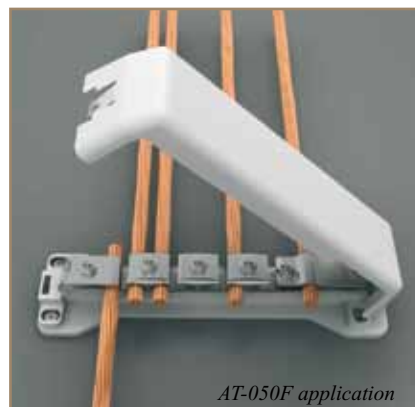
■ AT-020H (NB)
■ AT-021J (SS)

EQUIPOTENTIAL BONDING BAR

Equipotential bar which allows the jointing of various conductors (cable, tape, round). The fixation holes at the end of the bar are separated 164 x 35mm and have a diameter of 8,5mm.

Reference	Nominal size (mm)	Conductor range		Material	Weight (kg)
		Round	Tape		
AT-050F	190 x 52 x 42	7 x (2,5 - 25 mm ²) / 1 x (Ø 6 - 11 mm) (25 - 70 mm ²)	30 x 2 mm - 30 x 3,5 mm	Tin-plated copper (contact bar)	200

Meets BS 2874



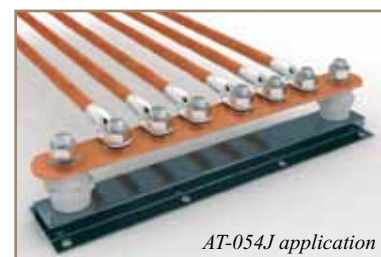
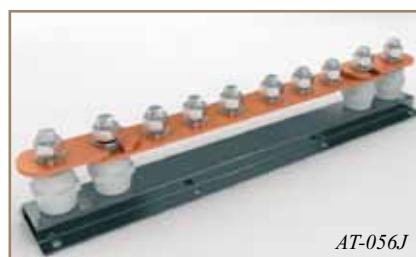
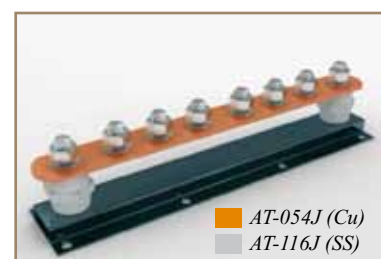
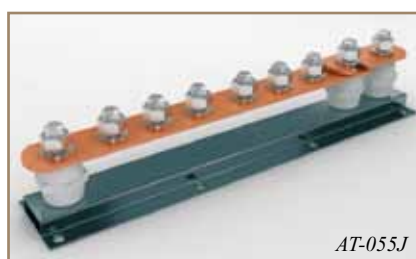
EQUIPOTENTIAL BONDING

EARTH BARS

Equipotential bars which allow the jointing of various copper cables or round conductors with tin plated copper compression terminals (for instance AT-021K).

Reference	Denomination	Nominal size (mm)	Conductor range		Material	Weight (kg)
			Round	Tape		
AT-053J	Insulator	51 x Ø36	M10 bolt	-	Polyester	0,12
AT-054J	Earth bar 6 way	400 x 90 x 90	M10 bolt	-	Copper	1,8
AT-116J	Earth bar 6 way	400 x 90 x 90	M10 bolt	-	Stainless steel	1
AT-055J	Earth bar 6 way with single disconnecting link	475 x 90 x 96	M10 bolt	-	Copper	2,3
AT-056J	Earth bar 6 way with twin disconnecting links	550 x 90 x 96	M10 bolt	-	Copper	2,8
AT-057J	Disconnecting link	125 x 90 x 90	M10 bolt	-	Copper	0,6
AT-058J	Earth bar 8 way	500 x 90 x 90	M10 bolt	-	Copper	2,2
AT-117J	Earth bar 8 way	500 x 90 x 90	M10 bolt	-	Stainless steel	1,2
AT-020J	Earth bar 8 way with single disconnecting link	575 x 90 x 96	M10 bolt	-	Copper	2,7
AT-079J	Earth bar 8 way with twin disconnecting links	650 x 90 x 96	M10 bolt	-	Copper	3,2
AT-090J	Earth bar 10 way	650 x 90 x 90	M10 bolt	-	Copper	2,8
AT-118J	Earth bar 10 way	650 x 90 x 90	M10 bolt	-	Stainless steel	1,4
AT-062J	Earth bar 10 way with single disconnecting link	725 x 90 x 96	M10 bolt	-	Copper	3,3
AT-063J	Earth bar 10 way with twin disconnecting links	800 x 90 x 96	M10 bolt	-	Copper	3,8
AT-064J	Earth bar 12 way	750 x 90 x 90	M10 bolt	-	Copper	3,2
AT-119J	Earth bar 12 way	750 x 90 x 90	M10 bolt	-	Stainless steel	1,6
AT-065J	Earth bar 12 way with single disconnecting link	825 x 90 x 96	M10 bolt	-	Copper	3,7
AT-066J	Earth bar 12 way with twin disconnecting links	900 x 90 x 96	M10 bolt	-	Copper	4,2
AT-067J	Earth bar 14 way	850 x 90 x 90	M10 bolt	-	Copper	3,6
AT-068J	Earth bar 14 way with single disconnecting link	925 x 90 x 96	M10 bolt	-	Copper	4,1
AT-069J	Earth bar 14 way with twin disconnecting links	1000 x 90 x 96	M10 bolt	-	Copper	4,6
AT-059J	Earth bar 16 way	950 x 90 x 90	M10 bolt	-	Copper	4
AT-071J	Earth bar 16 way with single disconnecting link	1025 x 90 x 96	M10 bolt	-	Copper	4,5
AT-072J	Earth bar 16 way with twin disconnecting links	1100 x 90 x 96	M10 bolt	-	Copper	5
AT-073J	Earth bar 18 way	1050 x 90 x 90	M10 bolt	-	Copper	4,4
AT-074J	Earth bar 18 way with single disconnecting link	1125 x 90 x 96	M10 bolt	-	Copper	4,9
AT-075J	Earth bar 18 way with twin disconnecting links	1200 x 90 x 96	M10 bolt	-	Copper	5,4
AT-076J	Earth bar 20 way	1200 x 90 x 90	M10 bolt	-	Copper	5
AT-077J	Earth bar 20 way with single disconnecting link	1275 x 90 x 96	M10 bolt	-	Copper	5,5
AT-078J	Earth bar 20 way with twin disconnecting links	1350 x 90 x 96	M10 bolt	-	Copper	6

Meets BS 2874



EQUIPOTENTIAL BONDING

EARTH POINTS

Equipotential earth points which are fixed to the structure to provide joints to earthing conductors.

Reference	Denomination	Nominal size (mm)	Material	Weight (gr)
AT-096J	1 hole (M8 x 15 mm)	80 x Ø33	Gunmetal	140
AT-097J	2 holes (M8 x 12 mm)	80 x 63 x 63	Gunmetal	280
AT-098J	4 holes (M8 x 14 mm)	80 x 63 x 63	Gunmetal	410
AT-099J	1 hole (M8 x 15 mm) with 500mm tail of 70 mm ²	80 x Ø33	Gunmetal / PVC covered copper	560
AT-100J	2 holes (M8 x 12 mm) with 500mm tail of 70 mm ²	80 x 63 x 63	Gunmetal / PVC covered copper	840
AT-101J	4 holes (M8 x 14 mm) with 500mm tail of 70 mm ²	80 x 63 x 63	Gunmetal / PVC covered copper	1140

Meets EN 50164



EARTH BOSS

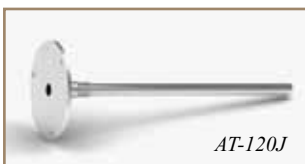


Earth point to weld to a metallic structure.

Reference	Nominal size	Material	Weight (gr)
AT-102J	M10 x 50 x 50 mm	Mild steel	800

FIXED EARTHING TERMINAL

Terminal which is fixed to the structure to provide accessible earth point.



Reference	Nominal size	Material	Weight (gr)
AT-120J	M10 x Ø80 x 200 mm	Stainless steel	300

DISTANCE HOLDER

Allows the use of galvanized steel tape as a ground conductor at foundation level.



Reference	Nominal size (mm)	Conductor range		Material	Weight (gr)
		Round	Tape		
AT-036K	280 x 35 x 8	Ø 8 - 10 mm / 50 - 70 mm ²	30 x 2 mm - 40 x 3,5 mm	Galvanized steel	80

AT-036K

EQUIPOTENTIAL BONDING

SUPPORT FOR TAPE CONDUCTORS

Allows the formation of an equipotential ring using tape conductor.

Reference	Nominal size (mm)	Round	Conductor range		Material	Weight (gr)
				Tape		
AT-033K	60 x 36 x 27	-		30 x 2 mm - 50 x 6 mm	Copper	120
AT-034K	60 x 36 x 27	-		30 x 2 mm - 50 x 6 mm	Galvanized steel	120
AT-035K	60 x 36 x 27	-		30 x 2 mm - 50 x 6 mm	Stainless steel	120
AT-039K	70 x 40 x 27	-		30 x 2 mm - 50 x 11 mm	Copper	120
AT-040K	70 x 40 x 27	-		30 x 2 mm - 50 x 11 mm	Galvanized steel	120
AT-041K	70 x 40 x 27	-		30 x 2 mm - 50 x 11 mm	Stainless steel	120



■ AT-040K (GS)
■ AT-039K (Cu)
■ AT-041K (SS)

SPARK GAP FOR EARTH BONDING

In the lightning protection regulations it is recommended to join all earths, including both electrical and lightning protection. In this way we avoid serious problems of resistive earth couplings.

However, on some occasions this connection can not be made, for example, because it would cause corrosion problems. In these cases the AT-050K is the most appropriate means of making the earthing connections.

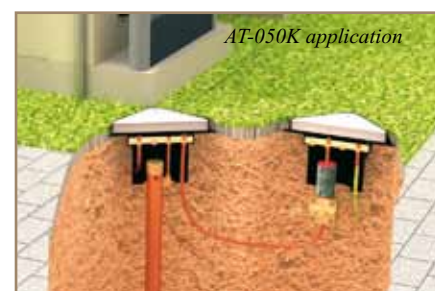
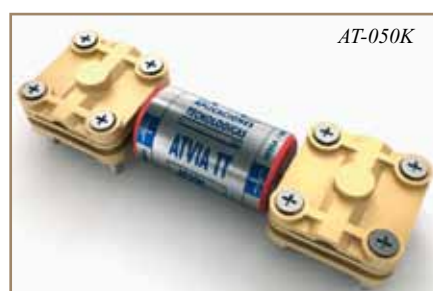
In normal conditions, this protector keeps the earths isolated, thus avoiding corrosion problems. When a discharge occurs and the voltage increases in

the earths, the spark gap will activate, directly joining the earths and thus preventing the passage of current from one to another through equipment and internal installations.

INSTALLATION

For its installation, the protector has two joints AT-020F. It is recommended to make the installation in a specific earth pit.

Reference	Nominal size (mm)	Round	Conductor range		Material	Weight (kg)
				Tape		
AT-050K	216 x 57 x 38	Ø 8 - 10 mm (50 - 70 mm ²)		3 x (30 x 2 mm - 30 x 3,5 mm)	Naval brass (contact)	1



EARTH CLAMPING

MULTIPURPOSE CLAMP

Earth clamp for connection between copper cable, round or tape conductors to copper or copperbond earth rod.

Reference	Nominal size (mm)	Earth Rod	Range		Material	Weight (gr)
			Round / Tape			
AT-090H	52 x 41 x 30	Ø 14 - 19 mm	Ø 8 - 10 mm (50 - 70 mm ²) / 30 x 2 mm - 30 x 3,5 mm		Naval brass	240

Meets EN 50164, UNE 21186, NFC 17102



AT-090H
(application with cable)



AT-090H
(application with tape)

ROD TO TAPE A CLAMP

Earth clamp for connection between copper tape and copper or copperbond earth rod.



AT-080J



AT-080J application

Reference	Nominal size (mm)	Earth Rod	Range		Material	Weight (gr)
			Tape			
AT-080J	51 x 36 x 18	Ø 12 - 20 mm	25 x 3 mm - 26 x 12 mm		Gunmetal	150
AT-081J	44 x 51 x 22	Ø 16 - 20 mm	30 x 2 mm - 40 x 12 mm		Gunmetal	240
AT-082J	47 x 69 x 21	Ø 16 - 20 mm	50 x 6 mm - 51 x 12 mm		Gunmetal	300

Meets EN 50164, BS 1400

ROD TO CABLE G CLAMP

Earth clamp for connection between cable or round conductor and copper or copperbond earth rod.



AT-083J (Gu)
AT-112J (GS)



AT-083J application

Reference	Nominal size (mm)	Earth Rod	Range		Material	Weight (gr)
			Round			
AT-083J	41 x 21 x 18	Ø 16 mm	16 - 50 mm ²		Gunmetal	60
AT-112J	41 x 21 x 18	Ø 16 mm	16 - 70 mm ²		Galvanized steel	60
AT-086J	48 x 30 x 19	Ø 20 mm	35 - 95 mm ²		Gunmetal	60

Meets EN 50164, BS 2874, BS 1400

EARTH CLAMPING

U-BOLT ROD E CLAMP

Earth clamp for connection between copper tape and earth rod or metal reinforcing bar.

Reference	Range		Material	Weight (gr)
	Earth Rod	Tape		
AT-087J	Ø 16 mm	25 x 3 mm	Gunmetal	260
AT-088J	Ø 20 mm	25 x 3 mm	Gunmetal	260
Meets EN 50164, BS 1400				



ROD TO CABLE CGUV CLAMP

Earth clamp for connection between copper cable or round conductor and earth rod or metal reinforced bar.

Reference	Range		Material	Weight (gr)
	Earth Rod	Round		
AT-089J	Ø 14 – 20 mm	2 x (50 - 120 mm ²)	Naval brass	250
AT-094J	Ø 16 – 20 mm	35 - 70 mm ²	Gunmetal	390
AT-091J	Ø 16 – 20 mm	70 - 185 mm ²	Gunmetal	390
AT-092J	Ø 16 – 20 mm	150 - 300 mm ²	Gunmetal	620
Meets EN 50164, UNE 21186, NFC 17102, BS 1400				



ROD TO CABLE LUG B CLAMP

Earth clamp for connection between copper cable with copper compression terminal (for instance AT-021K) and copper or copperbond earth rod.

Reference	Nominal size (mm)	Range		Material	Weight (gr)
		Earth Rod	Round		
AT-093J	52 x 26 x 25	Ø 16 mm	Tornillo M10	Gunmetal	300
AT-095J	50 x 29 x 28	Ø 20 mm	Tornillo M10	Gunmetal	300
Meets EN 50164, BS 2874, BS 1400					



EARTH CLAMPING

DISCONNECTING SLEEVE



Lineal earth clamp for connection between galvanized steel round conductor and galvanized steel earth rod.

Reference	Nominal size (mm)	Earth Rod	Range		Material	Weight (gr)
				Round		
AT-135J	43 x 41 x 30	Ø 16 mm		Ø 7 - 10 mm (35 - 70 mm ²)	Galvanized steel	120

UNI DISCONNECTING CLAMP FOR CABLE

Earth clamp for connection between cable or round conductor and galvanized steel or stainless steel earth rod.



Reference	Nominal size (mm)	Earth Rod	Range		Material	Weight (gr)
				Round		
AT-113J	58 x 30 x 20	Ø 16 mm (Galvanized steel)		Ø 8 - 10 mm (50 - 70 mm ²) (Copper)	Bimetallic	150
AT-114J	58 x 30 x 20	Ø 16 mm		Ø 8 - 10 mm (50 - 70 mm ²)	Galvanized steel	150
AT-115J	58 x 30 x 20	Ø 16 mm		Ø 8 - 10 mm (50 - 70 mm ²)	Stainless steel	100

- AT-114J (GS)
- AT-115J (SS)
- AT-113J (GS/Cu)



AT-114J application

UNIVERSAL CLAMP

L-shape earth clamp for connection between cable or round conductor to earth rod.



Reference	Nominal size (mm)	Earth Rod	Range		Material	Weight (gr)
				Round		
AT-025F	48 x 44 x 20	Ø 16 mm		Ø 8 - 10 mm (50 - 70 mm ²)	Stainless steel	130
AT-126J	48 x 44 x 20	Ø 15 - 25 mm		Ø 8 - 10 mm (50 - 70 mm ²)	Galvanized steel	460
AT-127J	48 x 44 x 20	Ø 16 mm		Ø 8 - 10 mm (50 - 70 mm ²)	Copper	130
AT-128J	48 x 44 x 20	Ø 16 mm		Ø 8 - 10 mm (50 - 70 mm ²)	Galvanized steel	130

- AT-025F (SS)
- AT-127J (Cu)
- AT-128J (GS)



AT-025F application

EARTH CLAMPING T, L CLAMP

Cross-shape earth clamp for connection between cable or round conductor to earth rod.

Reference	Nominal size (mm)	Earth Rod	Range		Material	Weight (gr)
				Round		
AT-136J	60 x 60 x 22	Ø 16 mm		Ø 8 - 10 mm (50 - 70 mm ²)	Galvanized steel	330
AT-137J	60 x 60 x 22	Ø 16 mm		Ø 8 - 10 mm (50 - 70 mm ²)	Stainless steel	330
AT-138J	60 x 60 x 22	Ø 16 mm		Ø 8 - 10 mm (50 - 70 mm ²)	Copper	330

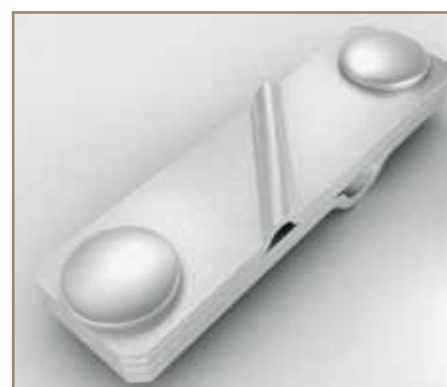


■ AT-136J (GS)
■ AT-137J (SS)
■ AT-138J (Cu)

CONNECTING CLAMP

Cross-shaped earth clamp for connection between cable, tape or round conductor to earth rod.

Reference	Nominal size (mm)	Earth Rod	Range		Material	Weight (gr)
				Round / Tape		
AT-129J	108 x 30 x 22	Ø 20 mm		Ø 8 - 10 mm (50 - 70 mm ²) / 30 x 2 mm - 30 x 3,5 mm	Galvanized steel	370
AT-130J	108 x 30 x 18	Ø 16 mm		Ø 8 - 10 mm (50 - 70 mm ²) / 30 x 2 mm - 30 x 3,5 mm	Galvanized steel	370
AT-131J	108 x 30 x 27	Ø 25 mm		Ø 8 - 10 mm (50 - 70 mm ²) / 30 x 2 mm - 30 x 3,5 mm	Galvanized steel	370
AT-132J	108 x 30 x 22	Ø 20 mm		Ø 8 - 10 mm (50 - 70 mm ²) / 30 x 2 mm - 30 x 3,5 mm	Stainless steel	370
AT-133J	108 x 30 x 18	Ø 16 mm		Ø 8 - 10 mm (50 - 70 mm ²) / 30 x 2 mm - 30 x 3,5 mm	Stainless steel	370
AT-134J	108 x 30 x 27	Ø 25 mm		Ø 8 - 10 mm (50 - 70 mm ²) / 30 x 2 mm - 30 x 3,5 mm	Stainless steel	370



AT-130J application

■ AT-130J (GS)
■ AT-133J (SS)