

GROUNDING SYSTEMS AND ACCESSORIES



GROUND RODS



Copper-plated coupling ground rod

copper-plated steel rod; friction coupling ensured excellent electric contacts even when driven deeply in grounding; installation requires hardened steel pointed rod (for inserting in socket of first ground rod) and 1 hardened steel strike head every 10 ground rods.

article	Ø mm	length mm	copper thickness µm	point art.	head art.	weight kg	qty pack
I127	18	1.500	50	P137	TR137	2,880	50
I127/100	18	1.500	100	P137	TR137	2,890	50
I127/250	18	1.500	250	P137	TR137	3,060	50
I127/500	18	1.500	500	P137	TR137	3,230	50
I137	20	1.500	50	P137	TR137	3,705	50
I137/100	20	1.500	100	P137	TR137	3,720	50
I137/250	20	1.500	250	P137	TR137	3,895	50
I137/500	20	1.500	500	P137	TR137	4,060	50
I147	25	1.500	50	P167	TR167	5,540	50
I147/100	25	1.500	100	P167	TR167	5,560	50
I147/250	25	1.500	250	P167	TR167	5,735	50
I147/500	25	1.500	500	P167	TR167	5,905	50
I187/100	30	1.500	100	P187	TR167	7,600	25
I187/250	30	1.500	250	P187	TR167	7,780	25
I187/500	30	1.500	500	P187	TR167	7,950	25

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Ground rod

hot galvanized steel rod; friction coupling ensures excellent electric contact even when driven deeply in ground; installation requires hardened steel pointed rod (for inserting in socket of first ground rod) and 1 hardened steel strike head every 10 ground rods.

article	Ø mm	length mm	secondo norme CEI	point art.	head art.	weight kg	qty pack
I137/Z	20	1.500	11-1, 64-8, 81-1	P137-1	TR167	3,705	50
I167	25	1.500	11-1, 64-8, 81-1	P167	TR167	5,600	25
I187	30	1.500	11-1, 64-8, 81-1	P187	TR167	8,600	10

GROUND RODS

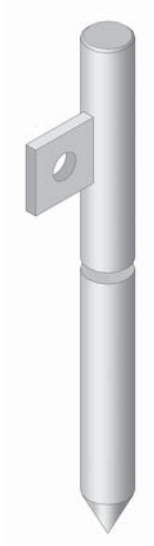


Ground rod

copper-plated steel rod.

article	Ø mm	thread	length. mm	copper thickness µm	joint art.	head art.	weight kg	qty pack
112/250	14,2	5/8 UNC	1.500	250	M116/B	T116	1,950	50
112/250/2	14,2	5/8 UNC	2.000	250	M116/B	T116	2,055	50
117	16	16 MA	1.500	50	M116	T116	2,360	50
117/100	16	16 MA	1.500	100	M116	T116	2,370	50
117/250	16	16 MA	1.500	250	M116	T116	2,540	50
122	16	18 MA	1.500	50	M126	T126	2,360	50
122/100	16	18 MA	1.500	100	M126	T126	2,370	50
125/250	17,2	3/4 UNC	1.500	250	M126/B	T136	2,950	50
125/250/2	17,2	3/4 UNC	2.000	250	M126/B	T136	3,600	50
127	18	18 MA	1.500	50	M126	T126	2,960	50
127/100	18	18 MA	1.500	100	M126	T126	2,975	50
127/100SF	18	18 MA	1.500	100	M126	T126	2,975	50
127/100SS	18	/	1.500	100	/	T126	2,975	50
127/250	18	18 MA	1.500	250	M126	T126	3,150	50
127/500	18	18 MA	1.500	500	M126	T126	3,825	50
137	20	20 MA	1.500	50	M136	T136	3,670	50
137/100	20	20 MA	1.500	100	M136	T136	3,680	50
137/250	20	20 MA	1.500	250	M136	T136	3,850	50
137/500	20	20 MA	1.500	500	M136	T136	4,025	50

**AVIABLE ON REQUEST GROUND RODS WITH 500 MICRON
COPPER PLATING OR WITH CARATERISTICS
DIFFERENT FROM STANDARD**

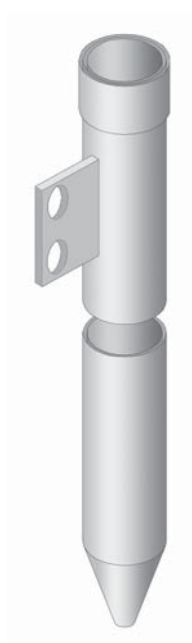


Ground rod

hot galvanized steel rod; bar with 14 mm. diameter hole for connecting ground rod.

article	Ø mm	length mm	weight kg	qty pack
802	20	1.500	3,900	50
*803	20	2.000	5,200	50

* by request item



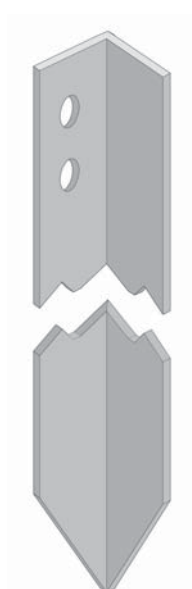
Ground rod

hot galvanized uniform structure steel tube, bar with plated with two 13 mm diameter holes for connecting ground wire.

article	Ø mm	length mm	weight kg	qty pack
706	60	3.000	8,800	10

By request can be made ground plates extensible

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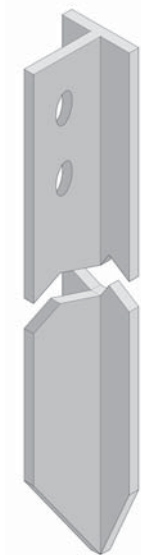
GROUND ROD

hot galvanized uniform-structure steel "T" bar with two 13 mm. diameter holse for connecting ground wire.

article	section mm	length mm	weight kg	qty pack
*601	50 x 50 x 5	1.000	3,580	50
*602	50 x 50 x 5	1.500	5,370	50
*603	50 x 50 x 5	2.000	7,160	50
*604	50 x 50 x 5	2.500	8,950	25
*605	50 x 50 x 5	3.000	10,740	25

* by request item

GROUND RODS



GROUND ROD

hot galvanized uniform-structure steel "T" bar with two 13 mm. diameter holse for connecting ground wire.

article	section mm	length mm	weighth kg	qty pack
401	50 x 50 x 7	1.000	5,057	50
402	50 x 50 x 7	1.500	7,670	50
*403	50 x 50 x 7	2.000	10,290	50
*404	50 x 50 x 7	2.500	12,890	25
*405	50 x 50 x 7	3.000	15,500	25

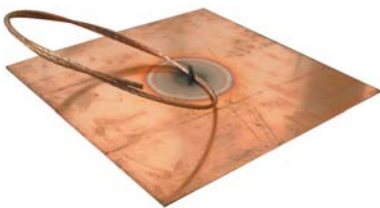
* by request item

GROUND ROD

hot galvanized uniform-structure steel "T" bar with two bolts and washers are included holes for connecting ground wire.

article	section mm	length mm	weighth kg	qty pack
402/E	50 x 50 x 7	1.600	7,700	50

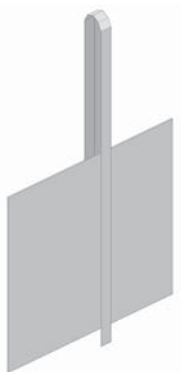
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GROUND PLATE

copper, complete with welded copper plate 2 meters long.

article	dimension mm	cable section mm ²	weight kg	qty pack
0330/R3	500 x 500 x 3	35	7,000	1

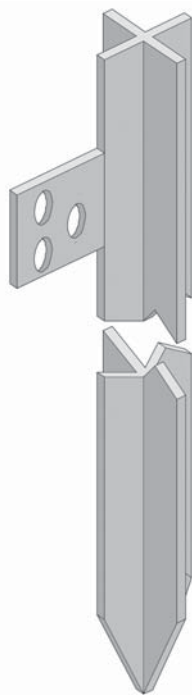


GROUND PLATE

steel, complete with 30 x 3 mm. plate 1,5 meters long.

article	dimension mm	material	weight kg	qty pack
0327/F/2	500 x 500 x 3	hot galvanized steel	8,400	5
0327/R	500 x 500 x 3	copper	8,200	5
0328/F/2	500 x 1.000 x 3	hot galvanized steel	15,500	5
0329/F/2	1.000 x 1.000 x 3	hot galvanized steel	27,400	5

GROUND RODS



GROUND ROD

hot galvanized uniform-structure steel "X" bar with plate with three 11 mm. diameter holes for connecting ground wire.

article	section mm	length mm	weight kg	qty pack
501	50 x 50 x 5	1.000	3,702	50
511	50 x 50 x 3	1.000	2,628	50
502	50 x 50 x 5	1.500	5,623	50
512	50 x 50 x 3	1.500	3,910	50
503	50 x 50 x 5	2.000	7,545	50
513	50 x 50 x 3	2.000	5,260	50
504	50 x 50 x 5	2.500	9,466	25
514	50 x 50 x 3	2.500	6,575	25
505	50 x 50 x 5	3.000	11,388	25
515	50 x 50 x 3	3.000	9,890	25

GROUND ROD

hot galvanized uniform-structure steel "X" bar with plate with three 11 mm. diameter holes for connecting ground wire.

article	section mm	length mm	weight kg	qty pack
501/A	50x50x5	1.000	3,602	50
511/A	50x50x3	1.000	2,520	50
502/A	50x50x5	1.500	5,523	50
512/A	50x50x3	1.500	3,810	50
503/A	50x50x5	2.000	7,445	50
513/A	50x50x3	2.000	5,040	50

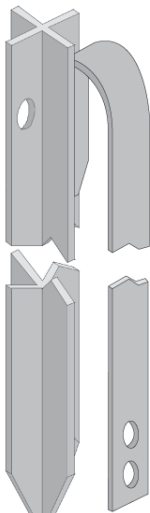
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SPACER

hot galvanized for earth connections.

article	palte max mm	rod Ø mm.	length mm	weight kg	qty pack
510	30x3,5	8-10	250	3,602	50



GROUND ROD

hot galvanized uniform-structure steel "X" bar with 11 mm. diameter hole for connecting ground wire.

article	section mm	length mm	weight kg	qty pack
501/E	50 x 50 x 5	1.000	3,602	50
511/E	50 x 50 x 3	1.000	2,520	50
502/E	50 x 50 x 5	1.500	5,523	50
512/E	50 x 50 x 3	1.500	3,810	50
503/E	50 x 50 x 5	2.000	7,445	50
513/E	50 x 50 x 3	2.000	5,040	50
504/E	50 x 50 x 5	2.500	9,366	25
514/E	50 x 50 x 3	2.500	6,300	25
505/E	50 x 50 x 5	3.000	11,288	25
515/E	50 x 50 x 3	3.000	7,560	25

GROUND ROD

hot galvanized uniform-structure steel "X" bar welded plate 30 x 3 mm. bar with 11 mm. diameter holes; 2 mt. long.

article	section mm	length mm	weight kg	qty pack
501/B	50 x 50 x 5	1.000	4,910	10
511/B	50 x 50 x 3	1.000	3,828	10
502/B	50 x 50 x 5	1.500	6,820	10
512/B	50 x 50 x 3	1.500	5,380	10
503/B	50 x 50 x 5	2.000	9,080	10
513/B	50 x 50 x 3	2.000	6,730	10

GROUND ROD

hot galvanized uniform-structure steel "X" bar welded rod 10 mm. diameter; 2 mt. long.

article	section mm	length mm	weight kg	qty pack
501/R	50 x 50 x 5	1.000	5,010	10
511/R	50 x 50 x 3	1.000	3,928	10
502/R	50 x 50 x 5	1.500	6,900	10
512/R	50 x 50 x 3	1.500	5,300	10
503/R	50 x 50 x 5	2.000	8,910	10
513/R	50 x 50 x 3	2.000	6,500	10

ACCESSORIES FOR GROUND RODS



STIKE HEAD

hardened steel; for use as protection for driving ground rods in soil.

article	designed for following ground rods article numbers	weight kg	qty pack
T116	114/250 - 114/250/2 - 117 - 117/100 - 117/250	0,098	50
T126	122/100 - 127/100 - 127/100SF - 127/100SS - 127/250 - 127/500	0,100	50
T136	125/250 - 125/250/2 - 137/100 - 137/250 - 137/500	0,175	50
TR137	I127/100 - I127/250 - I127/500 - I137/100 - I137/250 - I137/500	0,182	20
TR167	I147/100 - /250 - /500 - I137/Z - I167 - I187 - I187/100 - /250 - /500	0,144	10



POINTED ROD FOR COUPLING POLES

hardened steel; for use in driving ground rods in soil.

article	designed for following ground rods article numbers	weight kg	qty pack
P137	I127/100 - I127/250 - I127/500 - I137/100 - I137/250 - I137/500	0,070	50
P137-1	I137/Z	0,070	50
P167	I147/100 - I147/250 - I147/500 - I167	0,078	20
P187	I187 - I187/100 - I187/250 - I187/500	0,100	10



COUPLING FOR THREADED GROUND RODS

brass, hex section for jointing ground rods.

article	designed for following ground rods article numbers	weight kg	qty pack
M116	117 - 117/100 - 117/250	0,076	50
M126	122 - 122/100 - 127 - 127/100 - 127/100SF - 127/250 - 127/500	0,085	50
M136	137 - 137/100 - 137/250 - 137/500	0,098	50



COUPLING FOR THREADED GROUND RODS

brass, hex section for jointing ground rods.

article	designed for following ground rods article numbers	weight kg	qty pack
M116/B	114/250 - 114/250/2	0,115	50
M126/B	125/250 - 125/250/2	0,140	50



CLAMPS FOR GROUND RODS

copper wire; bronze plates; M8 brass bolts, used with copper-plated ground rods for connecting through and aned wire.

article	for ground rods Ø mm	weight kg	qty pack
M1216	15-16	0,220	25
M1619	18-20	0,250	25

ACCESSORIES FOR GROUND RODS



CLAMP FOR GROUND RODS

Zn+Al+Cu Alloy; M10x25 mm. bolt; for connecting ground rods with ground wire.

article	material	for ground rods Ø mm	weight kg	qty pack
S116	copper plating, bolt copper plating	16	0,083	50
SX116	copper plating, stainless bolt	16	0,085	50
S126	copper plating, bolt copper plating	18	0,084	50
SX126	copper plating, stainless bolt	18	0,093	50
S136	copper plating, bolt copper plating	20	0,099	50
SX136	copper plating, stainless bolt	20	0,097	50

CLAMP FOR GROUND RODS

brass; M10 x 25 mm. bolt; for connecting ground rods with ground wire.

article	material	for ground rods Ø mm	weight kg	qty pack
MS126	brass, galvanized bolt	16-18	0,107	50
MSX126	brass, stainless bolt	16-18	0,105	50
MS136	nickel plated brass, galvanized bolt	20-25	0,170	50

CLAMP FOR GROUND RODS

brass; M10 x 25 mm. bolt; for connecting ground rods with ground wire.

article	material	for ground rods Ø mm	weight kg	qty pack
S146	brass, copper plated bolt	14-16	0,000	50
SX146	brass, stainless bolt	14-16	0,000	50
S156	brass, copper plated bolt	18-20	0,000	50
SX156	brass, stainless bolt	18-20	0,000	50

SINGLE END CLAMP

M10 bolt with drilled head for 10 mm. diameter wires; for connecting ground wire to drilled galvanized poles.

article	type	weight kg	qty pack
M1/N	Zn+Al+Cu alloy base; nickel plated bolts and base	0,072	100
M1/R	Zn+Al+Cu alloy base; copper plated bolts and base	0,074	100
M1/Z	Zn+Al+Cu alloy base; electrolytically galvanized bolts	0,074	100

DOUBLE END CLAMP

M10 bolt with drilled head for 10 mm. diameter wires; for connecting ground wires to galvanized poles with holes 25 mm. apart.

article	type	weight kg	qty pack
M2/N	Zn+Al+Cu alloy base; nickel plated bolts and base	0,147	50
M2/R	Zn+Al+Cu alloy base; copper plated bolts and base	0,150	50
M2/Z	Zn+Al+Cu alloy base; electrolytically galvanized bolts	0,150	50

ACCESSORIES FOR GROUND RODS



CLAMP FOR GROUND RODS

40 x 3 mm. steel section; M10 x 25 mm. bolts; for connecting ground rods with ground wire.

artide	material	for ground rods Ø mm	weight kg	qty pack
MRP137	copper-palated steel plates and bolts	18-20	0,322	25
MRP137X	copper-plated steel, stainless bolts	18-20	0,344	25
MRP157	copper-palated steel plates and bolts	25	0,306	25
MRP157X	copper-plated steel, stainless bolts	25	0,335	25
MRP187	copper-palated steel plates and bolts	30	0,445	10
MR127/Z	hot galvanized plates and bolts	20	0,350	25
MR137/Z	hot galvanized plates and bolts	25	0,350	25
MR187/Z	hot galvanized plates and bolts	30	0,415	15



CLAMP FOR GROUND RODS

40 x 3 mm. steel section; M10 x 25 mm. bolts; for connecting ground rods with ground wire.

artide	material	for ground rods Ø mm	weight kg	qty pack
MRQ137	copper-palated steel plates and bolts	18-20	0,380	25
MRQ137X	copper-plated steel, stainless bolts	18-20	0,413	25
MRQ157	copper-palated steel plates and bolts	25	0,374	25
MRQ157X	copper-plated steel, stainless bolts	25	0,419	25
MRQ127/Z	hot galvanized plates and bolts	20	0,429	25
MRQ137/Z	hot galvanized plates and bolts	25	0,437	25

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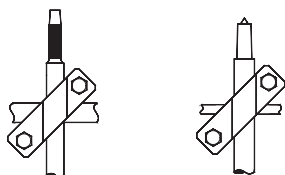


CLAMP FOR GROUND RODS

40 x 3 mm. steel section; M10 x 25 mm. bolts; for connecting ground rods with ground wire.

artide	material	for ground rods Ø mm	weight kg	qty pack
MRP137/M	copper-palated steel plates and bolts + M1/N	18-20	0,394	25
MRP157/M	copper-palated steel plates and bolts + M1/N	25	0,388	25
MRP187/M	copper-palated steel plates and bolts + M1/N	30	0,527	10
MR127/ZM	hot galvanized plates and bolts + M1/N	20	0,422	25
MR157/ZM	hot galvanized plates and bolts + M1/N	25	0,422	25
MR187/ZM	hot galvanized plates and bolts + M1/N	30	0,497	10

ACCESSORIES FOR GROUND RODS



CLAMP FOR GROUND RODS

30 x 3 mm. steel section; M10 x 25 mm. bolts; for connecting ground rods with ground rods with through ground wire.

article	material	for ground rods Ø mm	weight kg	qty pack
0405/20	hot galvanized steel	20	0,288	20
0405/20R	copper plated steel	20	0,288	20
0405/25	hot galvanized steel	25	0,296	20
0405/25R	copper plated steel	25	0,296	20

CLAMP FOR GROUND RODS

hot galvanized steel, 70x4 mm. section; M12 x 35 mm. bolts with washers; for use with copper-cald or lined poles for connecting through and end wires.

article	for ground rods Ø mm	weight kg	qty pack
MR167/Z	25	0,699	20

TERMINAL

tinned copper for connections with grounding devices; 40 mm. distance between holes.

article	wire mm ² section	holes Ø mm	dimension mm	weight kg	qty pack
870	35	13	70 x 100	0,104	25

TERMINAL

tinned copper, for connecting with grounding devices.

article	wire mm ² section	hole Ø mm	dimension mm	weight kg	qty pack
872	35	17	30 x 80	0,056	50

EARTHING-SALT

special salts to improve grounding resistors.

article	size kg	weight kg	qty pack
7016/P	3,5	3,500	1

CORROSION PROTECTION

to protect underground lines from corrosion.

article	height mm	length mt	weight kg	qty pack
0377/50	50	10	0,695	1

PIT FRAMES CAPS IN PLASTIC



PIT

in plastic.

article	dimension esterne mm	internal utile mm	cap article	weight kg	qty pack
*5525	200 x 200 x 200	155 x 155	5521	0,692	1
*5535	300 x 300 x 300	250 x 250	5531	1,942	1
5545	400 x 400 x 400	350 x 350	5541	3,540	1
5555	550 x 550 x 550	495 x 495	5551	5,540	1

* WITH REMOVABLE BOTTOM

PIT WITHOUT BOTTOM

in plastic.

article	dimensions external mm	internal utile mm	cap article	weight kg	qty pack
5540	400 x 400 x 400	350 x 350	5541	3,540	1
5550	550 x 550 x 550	495 x 495	5551	5,540	1

PEDESTRIAN CAP

in plastic.

article	dimensions mm	pit article	frame article	carico di rottura	weight kg	qty pack
5521	200 x 200	5525	5523	1.000 kg ca	0,540	1
5531	300 x 300	5535	5533	1.000 kg ca	1,654	1
5541	400 x 400	5540 - 5545	5543	1.300 kg ca	3,365	1
5551	550 x 550	5550 - 5555	5553	900 kg ca	8,000	1

FRAME

in plastic.

article	dimensions external mm	internal utile mm	cap article	weight kg	qty pack
5523	200 x 200 x 40	155 x 155	5521	0,692	1
5533	300 x 300 x 40	250 x 250	5531	1,942	1
5543	400 x 400 x 45	350 x 350	5541	3,540	1
5553	550 x 550 x 50	495 x 495	5551	5,540	1

PIT WITH BOTTOM AND CAP

in plastic, with gasket and screws.

articolo	dimensioni esterne mm	interno utile mm	guarnizione mm	peso kg	conf. pz.
5525/S	280 x 280 x 240	230 x 230	360 x 17 x 2	2,320	6

