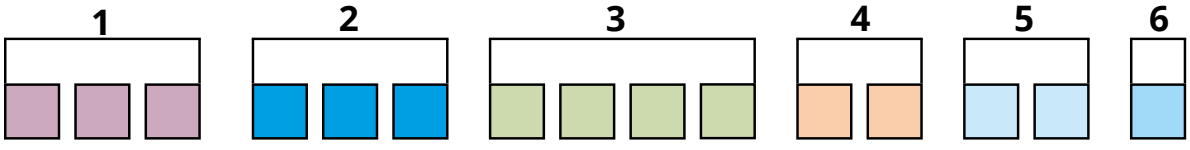
EARTHING

SMART CODING

Please use the following letter and number Codes to determine the combination of the metal desired product , the coat-ing and the type of bolt-nut group



1. Product Group Code
2 Product Class Codes
3. Your Choice Of Size
4. Your Choice Of First Product Raw Material And Coating
5 Second Product Raw Material And Coating Preference
6. your choice of bolts and nuts

RAW MATERIAL, COATING AND BOLT SELECTION TABLE

RAW MATERIAL	
Code	**Explication**
D	Iron And Steel
B	Copper
N	Stainless
A	Aluminum
S	Brass
F	Bronze
G	Cast Iron
P	Plastic
C	Concrete

COATING	
Code	**Explication**
1	Electro Galvanized
2	Hot Galvanized
3	Electro Copper
4	Electro Tin
5	Nickel
6	Black isolations
7	Yellow-green isolation

BOLT	
Code	**Explication**
DC	Galvanized
NC	Stainless
SC	Brass

Sample Encodings

10 µm. Bakır Kaplama/ Coating thickness

Code	Material/Coating	Dia.	Lenght
TES.16.1000	D1-D3-B-N-D2	16 mm	1000 mm
TES.16.1200	D1-D3-B-N-D2	16 mm	1200 mm

T	E	S		1	6	1	2	0	0	B					
										D	3				

ROD SOIL ELECTRODE | ROD DIAMETER 16 mm | ROD SIZE 1200 mm | ROD MATERIAL DESCRIPTION

Screw Type Conductor Clips

Kod *Code*	Casing Material/Kaplama *Material/Coating*	Civata *Bolt*	İletken Kesit *Cross Section*
IK.113.04	(D1+A)-(D1+B)-(D1+D1)-(D2+A)(D2+B)(D2+D2)-(N+A)-(N+B)-(N+N)	DC-NC	1x50mm²
IK.113.05	(D1+A)-(D1+B)-(D1+D1)-(D2+A)(D2+B)(D2+D2)-(N+A)-(N+B)-(N+N)	DC-NC	1x70mm²
IK.113.06	(D1+A)-(D1+B)-(D1+D1)-(D2+A)(D2+B)(D2+D2)-(N+A)-(N+B)-(N+N)	DC-NC	1x95mm²

	I	K	1	1	3			0	4	D	2		B	DC
											N	B	4	NC

CONDUCTIVE HOOK | HOOK WITH SCREW | CONDUCTIVE SECTION 50 mm² | PEDESTAL MATERIAL | RETAINER MATERIAL | BOLT

IK.113.04.D2.B.DC SCREW CONDUCTOR CROWN, FOR 50mm² CONDUCTOR, HOT DIP GALVANIZED COATED PEDAL, COPPER HOLDER, GALVANIZED
IK.113.06.N.B4.NC SCREWED CONDUCTOR CROWN, FOR 95mm² CONDUCTOR, STAINLESS STEEL PAPER, TIN COATED COPPER HOLDER, STAINLESS BOLT

CONDUCTOR SPECS

Grounding products must be certified according to TS EN 62561.

The selection of casing material and cross-section for grounding conductors must be made according to various standards.

Annex A of the Regulation on Grounding Elements in Electrical Installations				
	Copper	**Hot Dip Galvanized Steel**	**Copper-Plated Steel**	**Electrolytic Copper-Plated Steel**
Round Conductor	25 mm²	10 mm		
Braided Conductive	25 mm² Each wire must have a diameter of at least 1.8 mm.			
Strip Conductor	50mm²	30x3mm		
Electrode pipe	20 mm t=2mm.	25 mm t=2mm.		
Electrode (rod)		16 mm	15mm. t=2mm.	14,2mm.
Coating Thickness	-	at least 50 µm.		at least 90 µm.

Depending on the application and grounding requirements, special cross-sections and casing materials may be specified.

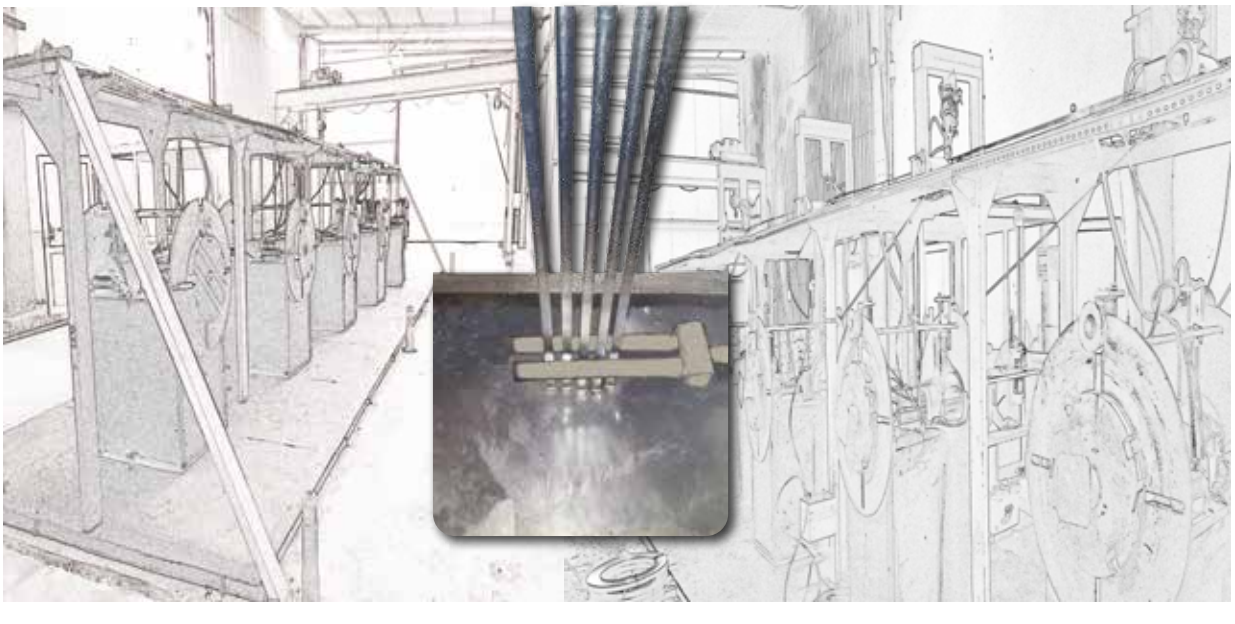
• TS EN 62305 Table 7 LIGHTNING PROTECTION SECTION 3: PHYSICAL DAMAGE TO BUILDINGS AND LIFE-THREATENING HAZARDS • TS EN 62561 LIGHTNING PROTECTION COMPONENTS CHAPTER 2: RULES FOR CONDUCTORS AND GROUND ELECTRODES • NFC 17-102:2011				
	Copper	**"Hot-Dipped Galvanized Steel"**	**Copper-Plated Steel**	**Stainless**
Round Conductor	50 mm²	10 mm		10 mm
Braided Conductor	50 mm² The diameter of each wire is at least 1.7mm.	70 mm² The diameter of each wire is at least 1.7mm.		
Strip Conductor	50mm²	30x3mm		50x2mm.
Electrode (Copper Earth Grid)	500x500x2 mm.	500x500x3 mm.		
Electrode (Copper plate)	600x600x2mm 25mm. Eye gap	600x600x3mm. 30mm. Eye gap		
Electrode (pipe)	20 mm t=2mm.	25 mm t=2mm.		
Electrode (rod)	15 mm.	16 mm	14mm.	15 mm. 16mm
Electrode (gusset)		50x50x3		
Coating Thickness	-	at least 50-70 µm.	at least 250 µm.	

CONDUCTORS

HOT DIP GALVANİZED STEEL CONDUCTORS

Earthing Strips

- Our products are certified according to **TS EN 62561-2 (62561-2).**
- High-quality coating is applied using a continuous production line.
- Coating thickness is continuously measured and controlled.
- Coating is applied using high-quality zinc.
- Soft steel is used, allowing for easy installation.



CONDUCTORS

HOT DIP GALVANİZED STEEL CONDUCTORS

Earthing Strips

Hot-dip galvanized conductors, electrodes and additional components can be used in grounding applications as clearly stated in the standards.
Products produced using the hot dip galvanizing coating method are technically as useful as other metal products and have a very long economic life.

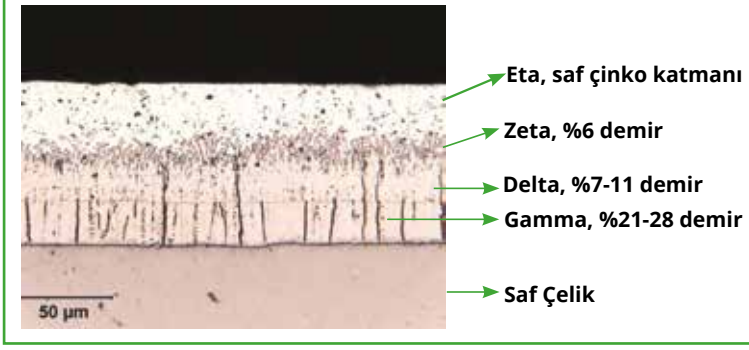

!...Pregalvaniz Kullanmayın...!

High resistance to corrosion:

Zinc coated by the hot dipping method protects steel against corrosion in 2 ways:

1. It wraps the steel and cuts off its contact with the soil.

2. Since zinc is a metal that acts as an anode compared to steel, it protects the steel cathodically around the points where the coating is damaged.



Causes of Corrosion:

1. Acidic nature of the soil: Geological structure of the soil or acidic vegetation such as pine tree needles.

2. Dissolved salts in the soil: potassium, sodium, calcium, magnesium. It is usually effective in areas with a lot of precipitation.

3. High bacteria concentration: Anaerobic bacteria damage steel in acidic soil.

4. Low resistance soils

Zinc Corrosion

The Corrosion Rate of Zinc According to pH		
TOPRAK ph	AVERAGE ZINC LOSS / YEAR	
	Dry Soil	Humidityli Soil
<4	<4	>6,5
4-4,9	4 - 4,9	2,6 - 5,2
5-7,9	5 - 7,9	2,2 - 4,3
8-9	8 - 9	3,3 - 6,5
>9	>9	>8,6

ZINC CORROSION RATE ACCORDING TO SOIL SPECIFIC RESISTANCE	
Soil Specific Resistance – ohm.cm	AVERAGE ZINC LOSS / YEAR
<500	>3,5
500 - 1000	1,5 - 3,5
1000 - 2000	1,3 - 1,5
2000 - 5000	0,9 - 1,5
>5000	<0,9

The tables are taken from the standard AS/NZS 2041:1998. / Zinc corrosion values are in microns.

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COATINGS
1=Electrogalvanizing, 2=Hot Dip Galvanizing, 3=Electrodeposited Copper, 4=Electrodeposited Tin, 5=Electrodeposited Chromium-Nickel, 6=Black Insulation, 7=Yellow-Green Insulation

SCREW NUT
DC=Galvanizing, NC=Stainless, SC=Brass

CONDUCTORS

HOT DIP GALVANİZED STEEL CONDUCTORS

Earthing Strips

Product Code	Dimension (mm)	Length (m)	Weight
	A x T	H	Kg / m
CG.101.04	25x4	50	0,80
CG.101.33	30x3	50	0,75
CG.101.35	30x3,5	50	0,85
CG.101.13	40x4	40	1,30
CG.101.14	40x5	40	1,60
CG.101.16	50x5	40	2,00

Steel Grade : S235JR

Quality : TS EN 62561-2 Certified (TSE logo)
It is produced by continuous coating method.
Flux, impurities such as ash have been removed.

Packaging : On a wooden pallet, tied with metal / plastic hoop, covered with stretch film,

Branding : Radsan markası ve mekanik kazıma ve lazer markalama özellikli 50164-2 yazısı.

Tolerans : There is a tolerance of ±10% in thickness, ±5% in width, and ±3% in weight.

Köşebent için bakınız. Sayfa 200

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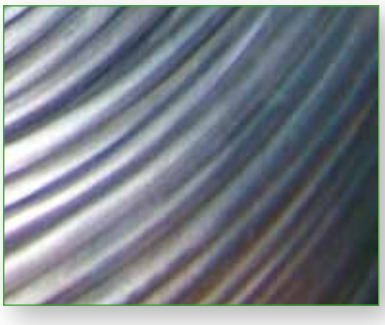
HOT DIP GALVANİZED STEEL CONDUCTORS

Earthing Strip Holder

Code	Material Coating	Cross Section	Lenght
TE.500.01	D1-D2+N	up to 40x3 tape,70mm round conductor	310 mm

Single Conductor



Code	Material	Cross Section	Dia.	Meter Weight
GD-101.08	D2	50 mm^2	8 mm	0,420 kg
GD -101.09	D2	70 mm^2	10 mm	0,600 kg

Stranded Conductor

Code	Material Coating	Conductor Size	Cross Section	Wire No x Wire Diameter n (Ea.) x Ø(mm)	Weight (Kg/m)
MH-08.06	D2	8 mm	35 mm^2	19 x 1,67	0,280
MH-08.08	D2	9,15 mm	50 mm^2	19 x 1,83	0,400
MH-08.09	D2	11,05 mm	70 mm^2	19 x 2,21	0,560
MH-08.10	D2	12,6 mm	96 mm^2	19 x 2,54	0,760

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SCREW NUT
DC=Galvanizing, NC=Stainless, SC=Brass

COPPER CONDUCTORS

Single Conductor

Code	*Material*	*Cross Section*	*Dia.*	*Meter weight*
CS-101.00	B	1,5 mm^2	1,36 mm	0,013 kg
CS-101.01	B	2,5 mm^2	1,76 mm	0,022 kg
CS-101.02	B	4 mm^2	2,2 mm	0,036 kg
CS-101.03	B	6 mm^2	2,8 mm	0,054 kg
CS-101.04	B	10 mm^2	4 mm	0,090 kg
CS-101.05	B	16 mm^2	5 mm	0,144 kg
CS-101.06	B	25 mm^2	6 mm	0,225 kg
CS-101.07	B	35 mm^2	7 mm	0,315 kg
CS-101.08	B	50 mm^2	8 mm	0,450 kg
CS-101.09	B	70 mm^2	10 mm	0,630 kg
CS-101.10	B	95 mm^2	12 mm	0,855 kg

Stranded Copper

Code	Meterial	Cross Section	Dia.	Meter weight
CO-101.04	B	10 mm^2	4,1 mm	0,090 kg
CO-101.05	B	16 mm^2	5,1 mm	0,144 kg
CO-101.06	B	25 mm^2	6,4 mm	0,225 kg
CO-101.07	B	35 mm^2	7,6 mm	0,315 kg
CO-101.08	B	50 mm^2	9 mm	0,450 kg
CO-101.09	B	70 mm^2	10,7 mm	0,630 kg
CO-101.10	B	95 mm^2	12,5 mm	0,855 kg
CO-101.11	B	120 mm^2	14,2 mm	1,080 kg
CO-101.12	B	150 mm^2	15,9 mm	1,350 kg
CO-101.13	B	185 mm^2	17,7 mm	1,665 kg
CO-101.14	B	240 mm^2	19,8 mm	2,160 kg

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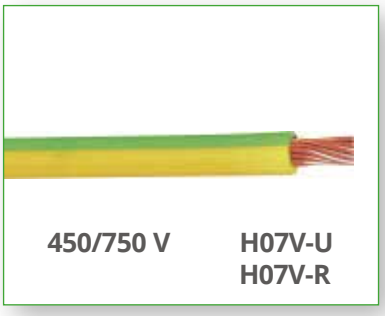
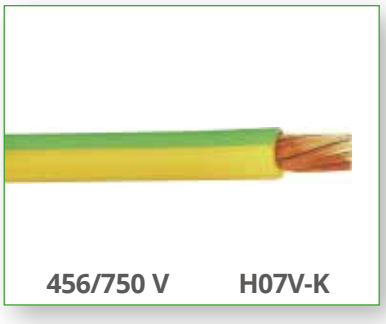
COPPER CONDUCTORS

NYA Earthing Cables



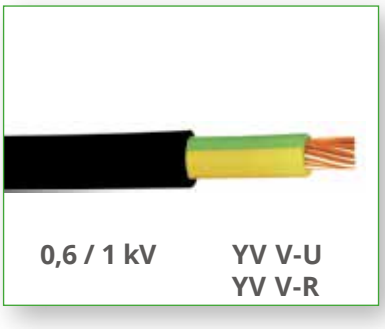
Code	Material	Cross Section	Meter weight
NYA-101.00	B7	1,5 mm²	13 gr
NYA-101.01	B7	2,5 mm²	23 gr
NYA-101.02	B7	4 mm²	36 gr
NYA-101.03	B7	6 mm²	0,060 gr
NYA-101.04	B7	10 mm²	0,090 gr
NYA-101.05	B7	16 mm²	0,144 gr
NYA-101.06	B7	25 mm²	0,225 gr
NYA-101.07	B7	35 mm²	0,315 gr gr
NYA-101.08	B7	50 mm²	0,450 gr gr
NYA-101.09	B7	70 mm²	0,630 gr gr
NYA-101.10	B7	95 mm²	0,855 gr gr
NYA-101.11	B7	120 mm²	1,080 gr gr
NYA-101.12	B7	150 mm²	1,35 gr gr
NYA-101.13	B7	185 mm²	1,665 gr gr
NYA-101.14	B7	240 mm²	2,160 gr gr

NYAF Flexible Earthing Cables



Code	Material	Cross Section	Meter weight
NYAF-101.03	B7	6 mm²	0,070 kg
NYAF-101.04	B7	10 mm²	0,115 kg
NYAF-101.05	B7	16 mm²	0,175 kg
NYAF-101.06	B7	25 mm²	0,270 kg
NYAF-101.07	B7	35 mm²	0,370 kg
NYAF-101.08	B7	50 mm²	0,525 kg
NYAF-101.09	B7	70 mm²	0,700 kg
NYAF-101.10	B7	95 mm²	0,970 kg
NYAF-101.11	B7	120 mm²	1,200 kg
NYAF-101.12	B7	150 mm²	1,500 kg
NYAF-101.13	B7	185 mm²	1,860 kg
NYAF-101.14	B7	240 mm²	2,400 kg

NYY Earthing Cables



Code	Material	Cross Section	Meter weight
NYY-101.02	B+ 6/7	4 mm²	0,085 kg
NYY-101.03	B+ 6/7	6 mm²	0,105 kg
NYY-101.04	B+ 6/7	10 mm²	0,160 kg
NYY-101.05	B+ 6/7	16 mm²	0,215 kg
NYY-101.06	B+ 6/7	25 mm²	0,320 kg
NYY-101.07	B+ 6/7	35 mm²	0,420 kg
NYY-101.08	B+ 6/7	50 mm²	0,570 kg
NYY-101.09	B+ 6/7	70 mm²	0,780 kg
NYY-101.10	B+ 6/7	95 mm²	1,500 kg
NYY-101.11	B+ 6/7	120 mm²	1,300 kg
NYY-101.12	B+ 6/7	150 mm²	1,600 kg
NYY-101.13	B+ 6/7	185 mm²	1,950 kg
NYY-101.14	B+ 6/7	240 mm²	2,550 kg

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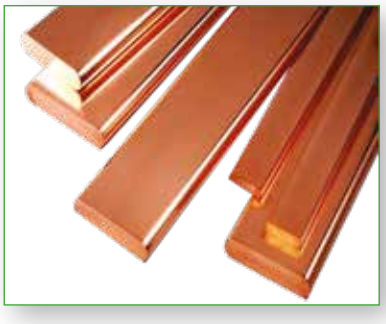
SCREW NUT
DC=Galvanizing, NC=Stainless, SC=Brass

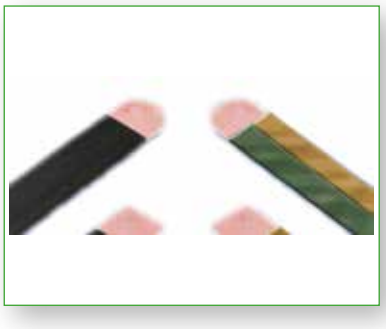
COPPER CONDUCTORS

Copper Strips

Code	Material	Cross Section	Meter weight
CBR-100.02	B - B4 - B6 - B7	20x3 mm	0,540 kg
CBR-100.08	B - B4 - B6 - B7	30x2 mm	0,540 kg
CBR-100.09	B - B4 - B6 - B7	30x3 mm	0,810 kg

Copper Bars





Code	Material Coating	Cross Section	Meter weight
CB-101.01	B - B4 -B6 - B7	20x2 mm	0,360 kg
CB-101.02	B - B4 -B6 - B7	20x3 mm	0,540 kg
CB-101.03	B - B4 -B6 - B7	20x5 mm	0,900 kg
CB-101.04	B - B4 -B6 - B7	20x10 mm	1,800 kg
CB-101.05	B - B4 -B6 - B7	25x3 mm	0,675 kg
CB-101.06	B - B4 -B6 - B7	25x5 mm	1,125 kg
CB-101.07	B - B4 -B6 - B7	25x10 mm	2,250 kg
CB-101.08	B - B4 -B6 - B7	30x2 mm	0,540 kg
CB-101.09	B - B4 -B6 - B7	30x3 mm	0,810 kg
CB-101.10	B - B4 -B6 - B7	30x4 mm	1,080 kg
CB-101.11	B - B4 -B6 - B7	30x5 mm	1,350 kg
CB-101.12	B - B4 -B6 - B7	30x10 mm	2,700 kg
CB-101.13	B - B4 -B6 - B7	40x4 mm	1,440 kg
CB-101.14	B - B4 -B6 - B7	40x5 mm	1,800 kg
CB-101.15	B - B4 -B6 - B7	40x10 mm	3,600 kg
CB-101.16	B - B4 -B6 - B7	50x3 mm	1,350 kg
CB-101.17	B - B4 -B6 - B7	50x4 mm	1,800 kg
CB-101.18	B - B4 -B6 - B7	50x5 mm	2,250 kg
CB-101.19	B - B4 -B6 - B7	50x6 mm	2,700 kg
CB-101.20	B - B4 -B6 - B7	50x10 mm	4,500 kg
CB-101.21	B - B4 -B6 - B7	60x5 mm	2,700 kg
CB-101.22	B - B4 -B6 - B7	60x10 mm	5,400 kg
CB-101.23	B - B4 -B6 - B7	80x5 mm	3,600 kg
CB-101.24	B - B4 -B6 - B7	80x10 mm	7,200 kg
CB-101.25	B - B4 -B6 - B7	100x5 mm	4,500 kg
CB-101.26	B - B4 -B6 - B7	100x10 mm	9,000 kg

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SCREW NUT
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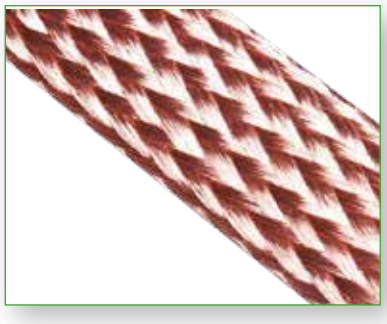
COPPER CONDUCTORS

Flexible Copper Braid, Round

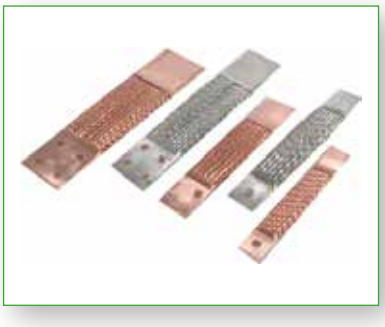
Code	Material Coating	Cross Section	Dia	Meter weight
CFY-101.02	B-B4	4 mm²	3,1	0.041 kg
CFY-101.03	B-B4	6 mm²	4	0.056 kg
CFY-101.04	B-B4	10 mm²	4,5	0.072 kg
CFY-101.05	B-B4	16 mm²	5,7	0.122 kg
CFY-101.06	B-B4	25 mm²	7,5	0.240 kg
CFY-101.07	B-B4	35 mm²	9	0.346 kg
CFY-101.08	B-B4	50 mm²	11	0.476 kg
CFY-101.09	B-B4	70 mm²	13	0.663 kg
CFY-101.10	B-B4	95 mm²	15	0.890 kg
CFY-101.11	B-B4	120 mm²	17	1.080 kg
CFY-101.12	B-B4	150 mm²	19	1.350 kg
CFY-101.13	B-B4	185 mm²	21	1.665 kg
CFY-101.14	B-B4	240 mm²	23	2.160 kg

Flexible Copper Braid, Strip



Code	Material Coating	Cross Section	a x b		Current DC	Meter weight
CFK-101.00	B-B4	1.5 mm	4x1	mm	21 A	0,017 kg
CFK-101.01	B-B4	2.5 mm	5.8x1	mm	30 A	0,027 kg
CFK-101.02	B-B4	4 mm	8,2x1	mm	34 A	0,043 kg
CFK-101.03	B-B4	6 mm	6.5x2	mm	44 A	0,060 kg
CFK-101.04	B-B4	10 mm	8x2	mm	60 A	0,100 kg
CFK-101.05	B-B4	16 mm	15x2	mm	82 A	0,160 kg
CFK-101.06	B-B4	25 mm	25x2,5	mm	110 A	0,250 kg
CFK-101.07	B-B4	35 mm	30x2,5	mm	135 A	0,350 kg
CFK-101.08	B-B4	50 mm	40x2,5	mm	168 A	0,500 kg
CFK-101.09	B-B4	70 mm	2(30x2,5)	mm	260 A	0,700 kg

Flexible Copper Braid with Terminals



Code	Material	axb	Size	Cross Section	Weight
GE.300.00	B-B4	8x2	300 mm	10 mm²	0,030 kg
GE.300.01	B-B4	15x2	300 mm	16 mm²	0,048 kg
GE.300.02	B-B4	2(8x2)	300 mm	20 mm²	0,060 kg
GE.300.03	B-B4	25x2,5	300 mm	25 mm²	0,075 kg
GE.300.04	B-B4	30x2,5	300 mm	35 mm²	0,105 kg
GE.300.05	B-B4	40x2,5	300 mm	50 mm²	0,150 kg
GE.300.06	B-B4	2(30x2,5)	300 mm	70 mm²	0,210 kg
GE.300.07	B-B4	2(40x2,5)	300 mm	95 mm²	0,285 kg
GE.300.08	B-B4	3(30x2,5)	300 mm	120 mm²	0,360 kg
GE.300.09	B-B4	3(40x2,5)	300 mm	150 mm²	0,450 kg
GE.300.10	B-B4	5(30x2,5)	300 mm	185 mm²	0,555 kg
GE.300.11	B-B4	4(40x2,5)	300 mm	200 mm²	0,600 kg

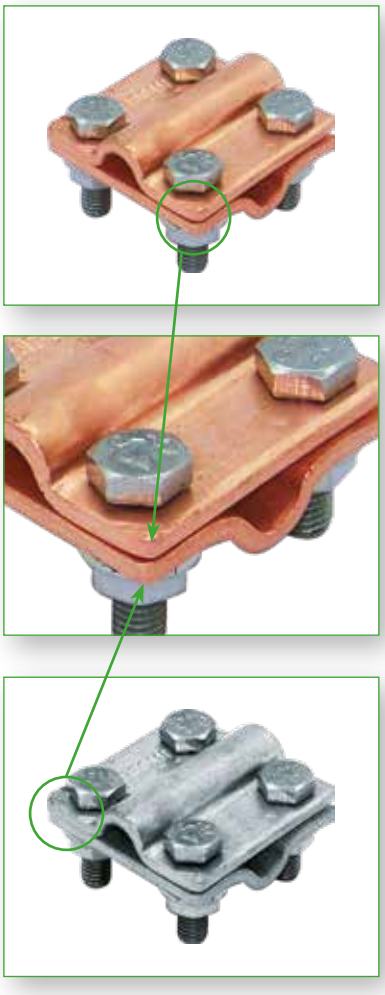
MAIN MATERIAL
A=Aluminium, B=Copper, D=Iron–Steel, F=Bronze, G=Gray Cast Iron, N=Stainless, P=Plastic, S=Brass

COATINGS
1=Electrogalvanizing, 2=Hot Dip Galvanizing, 3=Electrodeposited Copper, 4=Electrodeposited Tin, 5=Electrodeposited Chromium-Nickel, 6=Black Insulation, 7=Yellow-Green Insulation

SCREW NUT
DC=Galvanizing, NC=Stainless, SC=Brass

EARTHING CLAMPS

For Round Conductors, 2 Pieces



Code	Material Coating	Bolt	A Cross Sec.	B Cross Sec.
TDK 102.01	B-D1-D2-N	DC-NC	16 mm²	16 mm²
TDK 102.02	B-D1-D2-N	DC-NC	16 mm²	25 mm²
TDK 102.03	B-D1-D2-N	DC-NC	16 mm²	35 mm²
TDK 102.04	B-D1-D2-N	DC-NC	16 mm²	50 mm²
TDK 102.05	B-D1-D2-N	DC-NC	25 mm²	25 mm²
TDK 102.06	B-D1-D2-N	DC-NC	25 mm²	35 mm²
TDK 102.07	B-D1-D2-N	DC-NC	25 mm²	50 mm²
TDK 102.08	B-D1-D2-N	DC-NC	25 mm²	70 mm²
TDK 102.09	B-D1-D2-N	DC-NC	35 mm²	35 mm²
TDK 102.10	B-D1-D2-N	DC-NC	35 mm²	50 mm²
TDK 102.11	B-D1-D2-N	DC-NC	35 mm²	70 mm²
TDK 102.12	B-D1-D2-N	DC-NC	35 mm²	95 mm²
TDK 102.13	B-D1-D2-N	DC-NC	50 mm²	50 mm²
TDK 102.14	B-D1-D2-N	DC-NC	50 mm²	70 mm²
TDK 102.15	B-D1-D2-N	DC-NC	50 mm²	95 mm²
TDK 102.16	B-D1-D2-N	DC-NC	50 mm²	120 mm²
TDK 102.17	B-D1-D2-N	DC-NC	70 mm²	70 mm²
TDK 102.18	B-D1-D2-N	DC-NC	70 mm²	95 mm²
TDK 102.19	B-D1-D2-N	DC-NC	70 mm²	120 mm²
TDK 102.20	B-D1-D2-N	DC-NC	70 mm²	150 mm²
TDK 102.21	B-D1-D2-N	DC-NC	95 mm²	95 mm²
TDK 102.22	B-D1-D2-N	DC-NC	95 mm²	120 mm²
TDK 102.23	B-D1-D2-N	DC-NC	95 mm²	150 mm²
TDK 102.24	B-D1-D2-N	DC-NC	95 mm²	185 mm²
TDK 102.25	B-D1-D2-N	DC-NC	120 mm²	120 mm²
TDK 102.26	B-D1-D2-N	DC-NC	120 mm²	150 mm²
TDK 102.27	B-D1-D2-N	DC-NC	120 mm²	185 mm²
TDK 102.28	B-D1-D2-N	DC-NC	120 mm²	240 mm²
TDK 102.29	B-D1-D2-N	DC-NC	150 mm²	150 mm²
TDK 102.30	B-D1-D2-N	DC-NC	150 mm²	185 mm²
TDK 102.31	B-D1-D2-N	DC-NC	150 mm²	240 mm²
TDK 102.32	B-D1-D2-N	DC-NC	150 mm²	300 mm²

MAIN MATERIAL
A=Aluminium, B=Copper, D=Iron–Steel, F=Bronze, G=Gray Cast Iron, N=Stainless, P=Plastic, S=Brass

COATINGS
1=Electrogalvanizing, 2=Hot Dip Galvanizing, 3=Electrodeposited Copper, 4=Electrodeposited Tin, 5=Electrodeposited Chromium-Nickel, 6=Black Insulation, 7=Yellow-Green Insulation

SCREW NUT
DC=Galvanizing, NC=Stainless, SC=Brass

EARTHING CLAMPS

For Round Conductors, 3 Pieces

Code	Material Coating	Bolt	A Cross Sec.	B Cross Sec.
TDK 103.01	B-D1-D2-N	DC-NC	16 mm²	16 mm²
TDK 103.02	B-D1-D2-N	DC-NC	16 mm²	25 mm²
TDK 103.03	B-D1-D2-N	DC-NC	16 mm²	35 mm²
TDK 103.04	B-D1-D2-N	DC-NC	16 mm²	50 mm²
TDK 103.05	B-D1-D2-N	DC-NC	25 mm²	25 mm²
TDK 103.06	B-D1-D2-N	DC-NC	25 mm²	35 mm²
TDK 103.07	B-D1-D2-N	DC-NC	25 mm²	50 mm²
TDK 103.08	B-D1-D2-N	DC-NC	25 mm²	70 mm²
TDK 103.09	B-D1-D2-N	DC-NC	35 mm²	35 mm²
TDK 103.10	B-D1-D2-N	DC-NC	35 mm²	50 mm²
TDK 103.11	B-D1-D2-N	DC-NC	35 mm²	70 mm²
TDK 103.12	B-D1-D2-N	DC-NC	35 mm²	95 mm²
TDK 103.13	B-D1-D2-N	DC-NC	50 mm²	50 mm²
TDK 103.14	B-D1-D2-N	DC-NC	50 mm²	70 mm²
TDK 103.15	B-D1-D2-N	DC-NC	50 mm²	95 mm²
TDK 103.16	B-D1-D2-N	DC-NC	50 mm²	120 mm²
TDK 103.17	B-D1-D2-N	DC-NC	70 mm²	70 mm²
TDK 103.18	B-D1-D2-N	DC-NC	70 mm²	95 mm²
TDK 103.19	B-D1-D2-N	DC-NC	70 mm²	120 mm²
TDK 103.20	B-D1-D2-N	DC-NC	70 mm²	150 mm²
TDK 103.21	B-D1-D2-N	DC-NC	95 mm²	95 mm²
TDK 103.22	B-D1-D2-N	DC-NC	95 mm²	120 mm²
TDK 103.23	B-D1-D2-N	DC-NC	95 mm²	150 mm²
TDK 103.24	B-D1-D2-N	DC-NC	95 mm²	185 mm²
TDK 103.25	B-D1-D2-N	DC-NC	120 mm²	120 mm²
TDK 103.26	B-D1-D2-N	DC-NC	120 mm²	150 mm²
TDK 103.27	B-D1-D2-N	DC-NC	120 mm²	185 mm²
TDK 103.28	B-D1-D2-N	DC-NC	120 mm²	240 mm²
TDK 103.29	B-D1-D2-N	DC-NC	150 mm²	150 mm²
TDK 103.30	B-D1-D2-N	DC-NC	150 mm²	185 mm²
TDK 103.31	B-D1-D2-N	DC-NC	150 mm²	240 mm²
TDK 103.32	B-D1-D2-N	DC-NC	150 mm²	300 mm²

MAIN MATERIAL
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COATINGS
1=Electrogalvanizing, 2=Hot Dip Galvanizing, 3=Electrodeposited Copper, 4=Electrodeposited Tin, 5=Electrodeposited Chromium-Nickel, 6=Black Insulation, 7=Yellow-Green Insulation

SCREW NUT
DC=Galvanizing, NC=Stainless, SC=Brass

EARTHING CLAMPS

For Strips, 2 parts

Code	Material Coating	Bolt	A Cross Sec.	B Cross Sec.
TDK.302.09	B-D1-D2-N	DC-NC	30X3 mm	30X3 mm
TDK.302.12	B-D1-D2-N	DC-NC	30X3,5 mm	30X3,5 mm
TDK.302.14	B-D1-D2-N	DC-NC	40X3-40X5 mm	40X3-40X5 mm
TDK.302.16	B-D1-D2-N	DC-NC	40X3-40X5 mm	50X3-50X5 mm
TDK.302.17	B-D1-D2-N	DC-NC	30X3-30X5 mm	40X3-40X5 mm
TDK.302.18	B-D1-D2-N	DC-NC	50X3-50X5 mm	50X3-50X5 mm

For Strips, 3 parts

Code	Material Coating	Bolt	A Cross Sec.	B Cross Sec.
TDK.303.01	B-D1-D2-N	DC-NC	30X3 mm	30X3 mm
TDK.303.02	B-D1-D2-N	DC-NC	30X3-30X5 mm	30X3-30X5 mm
TDK.303.03	B-D1-D2-N	DC-NC	40X3-40X5 mm	40X3-40X5 mm
TDK.303.04	B-D1-D2-N	DC-NC	40X3-40X5 mm	50X3-50X5 mm
TDK.303.05	B-D1-D2-N	DC-NC	30X3-30X5 mm	40X3-40X5 mm
TDK.303.06	B-D1-D2-N	DC-NC	50X3-50X5 mm	50X3-50X5 mm

MAIN MATERIAL
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COATINGS
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SCREW NUT
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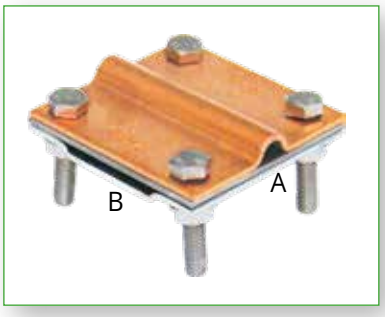
EARTHING CLAMPS

Round Section Conductive Strip Lamination Terminal



Code	Material Coating	Bolt	A Cross Sec.	B Cross Sec.
TDK.203.01	A-D1-D2-B-B4-N	DC-NC	10 - 120 mm²	30x3 30x3,5 30x5 40x5

Round Conductor, Parallel Joint

Code	Material Coating	Bolt	Cross Sec.
TDK.108.01	A-D1-D2-B-B4-N	DC-NC	2x10 mm²
TDK.108.02	A-D1-D2-B-B4-N	DC-NC	2x16 mm²
TDK.108.03	A-D1-D2-B-B4-N	DC-NC	2x25 mm²
TDK.108.45	A-D1-D2-B-B4-N	DC-NC	35/50 mm²
TDK.108.06	A-D1-D2-B-B4-N	DC-NC	2x70 mm²
TDK.108.07	A-D1-D2-B-B4-N	DC-NC	2x95 mm²

Round Conductor, T and X Joint

Code	Material Coating	Bolt	Cross Sec.
TDK.109.01	A-B-B4-D1-D2-N	DC-NC	50/70 mm²
TDK.109.02	A-B-B4-D1-D2-N	DC-NC	95 mm²

MAIN MATERIAL
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COATINGS
1=Electrogalvanizing, 2=Hot Dip Galvanizing, 3=Electrodeposited Copper, 4=Electrodeposited Tin, 5=Electrodeposited Chromium-Nickel, 6=Black Insulation, 7=Yellow-Green Insulation

SCREW NUT
DC=Galvanizing, NC=Stainless, SC=Brass

EARTHING CLAMPS

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Code	Material Coating	Bolt	A Cross Sec.	B Cross Sec.
TDK.112.03	D1-D2-N	DC-NC	20x3 mm - 30x5 mm	ø12-ø20 mm
TDK.112.04	D1-D2-N	DC-NC	40x3 mm - 40x5 mm	ø20-ø26 mm

Code	Material Coating	Bolt	A Cross Sec.	B Cross Sec. Rebar Diameter
TDK.204.01	D1-D2-N	DC-NC	30x3 mm	14 mm
TDK.204.02	D1-D2-N	DC-NC	30x3 mm	16 mm
TDK.204.03	D1-D2-N	DC-NC	30x3 mm	18 mm
TDK.204.04	D1-D2-N	DC-NC	30x3 mm	20 mm
TDK.204.05	D1-D2-N	DC-NC	30x3 mm	22 mm
TDK.204.06	D1-D2-N	DC-NC	30x3 mm	24 mm
TDK.204.07	D1-D2-N	DC-NC	30x3 mm	26 mm
TDK.204.08	D1-D2-N	DC-NC	30x5 mm	14 mm
TDK.204.09	D1-D2-N	DC-NC	30x5 mm	16 mm
TDK.204.10	D1-D2-N	DC-NC	30x5 mm	18 mm
TDK.204.11	D1-D2-N	DC-NC	30x5 mm	20 mm
TDK.204.12	D1-D2-N	DC-NC	30x5 mm	22 mm
TDK.204.13	D1-D2-N	DC-NC	30x5 mm	24 mm
TDK.204.14	D1-D2-N	DC-NC	30x5 mm	26 mm
TDK.204.15	D1-D2-N	DC-NC	40x5 mm	14 mm
TDK.204.16	D1-D2-N	DC-NC	40x5 mm	16 mm
TDK.204.17	D1-D2-N	DC-NC	40x5 mm	18 mm
TDK.204.18	D1-D2-N	DC-NC	40x5 mm	20 mm
TDK.204.19	D1-D2-N	DC-NC	40x5 mm	22 mm
TDK.204.20	D1-D2-N	DC-NC	40x5 mm	24 mm
TDK.204.21	D1-D2-N	DC-NC	40x5 mm	26 mm

MAIN MATERIAL
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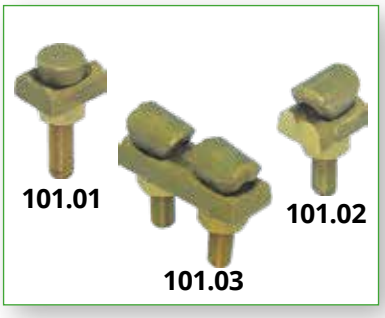
SCREW NUT
DC=Galvanizing, NC=Stainless, SC=Brass

EARTHING CLAMPS

MC Connectors



Code	Material Coating	Cross Section
MC.101.01	S	35 mm² den 70 mm²
MC.101.02	S	35 mm² den 70 mm²
MC.101.03	S	2x(35 den 70) mm²

Parallel PMC Connectors

Code	Material Coating	A Cross Section	B Cross Section
PMC.101.01	B-S-F	50 - 95 mm²	50 - 95 mm²

Code	Material Coating	A Cross Section	B Cross Section
PMC.102.01	B-S-F	2 x 50 - 95 mm²	2 x 50 - 95 mm²

Code	Material Coating	A Cross Section	B Cross Section
PMC.103.01	B-S-F	25 - 95 mm²	25 - 95 mm²

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COATINGS
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SCREW NUT
DC=Galvanizing, NC=Stainless, SC=Brass

EARTHING CLAMPS

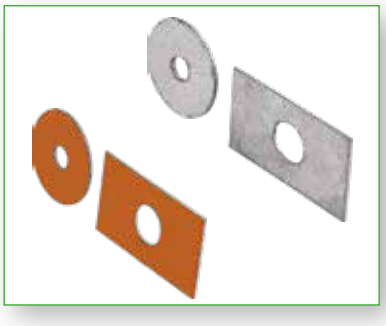
Parallel PMC Connectors

Code	Material Coating	A Cross Section	B Cross Section
PMC.104.01	B-S-F	25 - 95 mm^2	25 - 95 mm^2

M10 x 60 mm

Code	Material Coating	A Cross Section	B Cross Section
PMC.105.01	B-S-F	95 - 95 mm^2	40 x 10 mm^2
PMC.105.02	B-S-F	120 - 120 mm^2	40 x 10 mm^2

Bimetalic Washer



Code	Material Coating	Size	Bolt Hole	Description
PMC.108.01	(A+B)	ø30x1,5mm	ø8,5mm	Yuvarlak
PMC.108.02	(A+B)	55x36x1,5mm	ø14,5mm	Dikdörtgen

MAIN MATERIAL
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SCREW NUT
DC=Galvanizing, NC=Stainless, SC=Brass

EARTHING CLAMPS

Ground Connectors, Clamps

Code	Material Coating	Bolt	Cross Section	Cross Section
TDK.501.01	F - S	DC+NC	16 mm²	16 mm²
TDK.501.02	F - S	DC+NC	25 mm²	16 mm²
TDK.501.03	F - S	DC+NC	25 mm²	25 mm²
TDK.501.04	F - S	DC+NC	35 mm²	16 mm²
TDK.501.05	F - S	DC+NC	35 mm²	25 mm²
TDK.501.06	F - S	DC+NC	35 mm²	35 mm²
TDK.501.07	F - S	DC+NC	50 mm²	16 mm²
TDK.501.08	F - S	DC+NC	50 mm²	25 mm²
TDK.501.09	F - S	DC+NC	50 mm²	35 mm²
TDK.501.10	F - S	DC+NC	50 mm²	50 mm²
TDK.501.11	F - S	DC+NC	70 mm²	16 mm²
TDK.501.12	F - S	DC+NC	70 mm²	25 mm²
TDK.501.13	F - S	DC+NC	70 mm²	35 mm²
TDK.501.14	F - S	DC+NC	70 mm²	50 mm²
TDK.501.15	F - S	DC+NC	70 mm²	70 mm²
TDK.501.16	F - S	DC+NC	95 mm²	16 mm²
TDK.501.17	F - S	DC+NC	95 mm²	25 mm²
TDK.501.18	F - S	DC+NC	95 mm²	35 mm²
TDK.501.19	F - S	DC+NC	95 mm²	50 mm²
TDK.501.20	F - S	DC+NC	95 mm²	70 mm²
TDK.501.21	F - S	DC+NC	95 mm²	95 mm²
TDK.501.22	F - S	DC+NC	120 mm²	16 mm²
TDK.501.23	F - S	DC+NC	120 mm²	25 mm²
TDK.501.24	F - S	DC+NC	120 mm²	35 mm²
TDK.501.25	F - S	DC+NC	120 mm²	50 mm²
TDK.501.26	F - S	DC+NC	120 mm²	70 mm²
TDK.501.27	F - S	DC+NC	120 mm²	95 mm²
TDK.501.28	F - S	DC+NC	120 mm²	120 mm²
TDK.501.29	F - S	DC+NC	150 mm²	16 mm²
TDK.501.30	F - S	DC+NC	150 mm²	25 mm²
TDK.501.31	F - S	DC+NC	150 mm²	35 mm²
TDK.501.32	F - S	DC+NC	150 mm²	50 mm²
TDK.501.33	F - S	DC+NC	150 mm²	70 mm²
TDK.501.34	F - S	DC+NC	150 mm²	95 mm²
TDK.501.35	F - S	DC+NC	150 mm²	120 mm²
TDK.501.36	F - S	DC+NC	150 mm²	150 mm²
TDK.501.37	F - S	DC+NC	185 mm²	50 mm²
TDK.501.38	F - S	DC+NC	185 mm²	70 mm²
TDK.501.39	F - S	DC+NC	185 mm²	95 mm²
TDK.501.40	F - S	DC+NC	185 mm²	120 mm²
TDK.501.41	F - S	DC+NC	185 mm²	150 mm²
TDK.501.42	F - S	DC+NC	185 mm²	185 mm²
TDK.501.43	F - S	DC+NC	240 mm²	50 mm²
TDK.501.44	F - S	DC+NC	240 mm²	70 mm²
TDK.501.45	F - S	DC+NC	240 mm²	95 mm²
TDK.501.46	F - S	DC+NC	240 mm²	120 mm²
TDK.501.47	F - S	DC+NC	240 mm²	150 mm²
TDK.501.48	F - S	DC+NC	240 mm²	185 mm²
TDK.501.49	F - S	DC+NC	240 mm²	240 mm²

MAIN MATERIAL
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COATINGS
1=Electrogalvanizing, 2=Hot Dip Galvanizing, 3=Electrodeposited Copper, 4=Electrodeposited Tin, 5=Electrodeposited Chromium-Nickel, 6=Black Insulation, 7=Yellow-Green Insulation

SCREW NUT
DC=Galvanizing, NC=Stainless, SC=Brass

EARTHING CLAMPS

Ground Connectors, Clamps

Code	Material Coating	Bolt	Cross Section	Cross Section
TDK.502.01	F - S	DC+NC	10 mm²	25 mm²
TDK.502.02	F - S	DC+NC	25 mm²	70 mm²
TDK.502.03	F - S	DC+NC	70 mm²	120 mm²
TDK.502.04	F - S	DC+NC	150 mm²	240 mm²
TDK.502.05	F - S	DC+NC	240 mm²	400 mm²
TDK.502.06	F - S	DC+NC	400 mm²	500 mm²

Code	Material Coating	Bolt	Cross Section	Cross Section
BES.113.01	F - S	DC-NC	16 / 20 mm²	2x50 mm²
BES.113.02	F - S	DC-NC	16 / 20 mm²	2x70 mm²
BES.113.03	F - S	DC-NC	16 / 20 mm²	2x95 mm²

Code	Material Coating	Bolt	Dia	Cross Section
BEB.114.01	F - S	DC-NC	½"	2x50 mm²
BEB.114.02	F - S	DC-NC	¾	2x50 mm²
BEB.114.03	F - S	DC-NC	1"	2x50 mm²
BEB.114.04	F - S	DC-NC	1"¼	2x50 mm²
BEB.114.05	F - S	DC-NC	1"½	2x50 mm²
BEB.114.06	F - S	DC-NC	2"	2x50 mm²
BEB.114.07	F - S	DC-NC	2'½	2x50 mm²
BEB.114.08	F - S	DC-NC	3"	2x50 mm²
BEB.115.01	F - S	DC-NC	½"	2x70 mm²
BEB.115.02	F - S	DC-NC	¾	2x70 mm²
BEB.115.03	F - S	DC-NC	1"	2x70 mm²
BEB.115.04	F - S	DC-NC	1"¼	2x70 mm²
BEB.115.05	F - S	DC-NC	1"½	2x70 mm²
BEB.115.06	F - S	DC-NC	2"	2x70 mm²
BEB.115.07	F - S	DC-NC	2'½	2x70 mm²
BEB.115.08	F - S	DC-NC	3"	2x70 mm²
BEB.116.01	F - S	DC-NC	½"	2x95 mm²
BEB.116.02	F - S	DC-NC	¾	2x95 mm²
BEB.116.03	F - S	DC-NC	1"	2x95 mm²
BEB.116.04	F - S	DC-NC	1"¼	2x95 mm²
BEB.116.05	F - S	DC-NC	1"½	2x95 mm²
BEB.116.06	F - S	DC-NC	2"	2x95 mm²
BEB.116.07	F - S	DC-NC	2'½	2x95 mm²
BEB.116.08	F - S	DC-NC	3"	2x95 mm²

MAIN MATERIAL
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COATINGS
1=Electrogalvanizing, 2=Hot Dip Galvanizing, 3=Electrodeposited Copper, 4=Electrodeposited Tin, 5=Electrodeposited Chromium-Nickel, 6=Black Insulation, 7=Yellow-Green Insulation

SCREW NUT
DC=Galvanizing, NC=Stainless, SC=Brass

EARTHING CLAMPS

Ground Connectors, Clamps

Code	Material / Coating
LCR.101	From 25 to 120 mm^2 screw hole diamension is from ø10 to ø15

Connection Clamps “Claw Type”

Code	Material Coating	Cross Section	Bolt
RTK.101.01	S	16 mm^2	DC / NC / SC
RTK.101.02	S	25 mm^2	DC / NC / SC
RTK.101.03	S	35 mm^2	DC / NC / SC
RTK.101.04	S	50 mm^2	DC / NC / SC
RTK.101.05	S	70 mm^2	DC / NC / SC
RTK.101.07	S	95 - 120 mm^2	DC / NC / SC

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EARTHING CLAMPS

C Type Compression Clamps

Code	Material Coating	Cross Sec.	Cross Section
SKC.101.02	B-B4	35 mm^2	50 mm^2
SKC.101.03	B-B4	50 mm^2	50 mm^2
SKC.101.04	B-B4	70 mm^2	70 mm^2
SKC.101.06	B-B4	95 mm^2	120 mm^2
SKC.101.09	B-B4	120 mm^2	120 mm^2

H Type Compression Clamps

Code	Material Coating	Cross Sec. (mm^2)	Cross Section
SKH.102.01	B-B4	50 mm^2	50 mm^2
SKH.102.02	B-B4	50 mm^2	70 mm^2
SKH.102.03	B-B4	50 mm^2	95 mm^2
SKH.102.04	B-B4	50 mm^2	120 mm^2
SKH.102.05	B-B4	95 mm^2	120 mm^2
SKH.102.06	B-B4	70 mm^2	70 mm^2
SKH.102.07	B-B4	70 mm^2	120 mm^2
SKH.102.08	B-B4	95 mm^2	120 mm^2
SKH.102.09	B-B4	120 mm^2	120 mm^2
SKH.102.10	B-B4	240 mm^2	240 mm^2

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EARTHING CLAMPS

(SS) Connectors

Code	Material/Coating	Cross Section	A Bolt Size
SS.101.04	S-S4	1x25 mm²	M6x10 mm
SS.101.05	S-S4	1x35 mm²	M6x10 mm
SS.101.06	S-S4	1x50 mm²	M6x10 mm
SS.101.07	S-S4	1x70 mm²	M6x15 mm
SS.101.08	S-S4	1x95 mm²	M8x15 mm
SS.101.09	S-S4	1x120 mm²	M8x15 mm
SS.101.10	S-S4	1x150 mm²	M10x20 mm
SS.101.11	S-S4	1x185 mm²	M10x20 mm

Code	Material/Coating	Cross Section	A Bolt Size
SS.102.04	S-S4	2 x 25 mm²	M6x10 mm
SS.102.05	S-S4	2 x 35 mm²	M6x10 mm
SS.102.06	S-S4	2 x 50 mm²	M6x10 mm
SS.102.07	S-S4	2 x 70 mm²	M6x15 mm
SS.102.08	S-S4	2 x 95 mm²	M8x15 mm
SS.102.09	S-S4	2 x 120 mm²	M8x15 mm
SS.102.10	S-S4	2 x 150 mm²	M10x20 mm
SS.102.11	S-S4	2 x 185 mm²	M10x20 mm

Code	Material/Coating	Cross Section	A Bolt Size
SS.103.04	S-S4	1x25 mm²	M6x10 mm
SS.103.05	S-S4	1x35 mm²	M6x10 mm
SS.103.06	S-S4	1x50 mm²	M6x10 mm
SS.103.07	S-S4	1x70 mm²	M6x15 mm
SS.103.08	S-S4	1x95 mm²	M8x15 mm
SS.103.09	S-S4	1x120 mm²	M8x15 mm
SS.103.10	S-S4	1x150 mm²	M10x20 mm
SS.103.11	S-S4	1x185 mm²	M10x20 mm

Code	Material/Coating	Cross Section	A Bolt Size
SS.104.04	S-S4-F	2 x 25 mm²	M6x10 mm
SS.104.05	S-S4-F	2 x 35 mm²	M6x10 mm
SS.104.06	S-S4-F	2 x 50 mm²	M6x10 mm
SS.104.07	S-S4-F	2 x 70 mm²	M6x15 mm
SS.104.08	S-S4-F	2 x 95 mm²	M8x15 mm
SS.104.09	S-S4-F	2 x 120 mm²	M8x15 mm
SS.104.10	S-S4-F	2 x 150 mm²	M10x20 mm
SS.104.11	S-S4-F	2 x 185 mm²	M10x20 mm

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SCREW NUT
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EARTHING CLAMPS

(SS) Connectors

Code	Material / Coating	Cross Section	Cross Section
SS.105.04	S-S4	1x25 mm²	2x25 mm²
SS.105.05	S-S4	1x35 mm²	2x35 mm²
SS.105.06	S-S4	1x50 mm²	2x50 mm²
SS.105.07	S-S4	1x70 mm²	2x70 mm²
SS.105.08	S-S4	1x95 mm²	2x95 mm²
SS.105.09	S-S4	1x120 mm²	2x120 mm²
SS.105.10	S-S4	1x150 mm²	2x150 mm²
SS.105.11	S-S4	1x185 mm²	2x185 mm²

Code	Material/Coating	Cross Section
SS.106.01	S-S4	25 mm² - 35 mm²
SS.106.02	S-S4	50 mm² - 70 mm²
SS.106.03	S-S4	95 mm² - 120 mm²

U Clamp

Code	Material/Coating	Cross Section
UK.104.01	S	6
UK.104.02	S	10
UK.104.03	S	16
UK.104.04	S	25
UK.104.05	S	35
UK.104.06	S	50
UK.104.07	S	70
UK.104.08	S	95
UK.104.09	S	120
UK.105.100	*U Clamp Cover Plastic*	

U Bolt

Code	Material/Coating	Cross Section
UB.120	N - D1	M6
UB.120	N - D1	M8

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ELECTRODES
GALVANIZED ELECTRODES

L Profile Earthing Rod

TE.404

TE.405

Code	Material Coating	Cross Section	Lenght	Weight
TE.403.01	D1-D2-N	40x40x4	1000mm	2,420 kg
TE.403.02	D1-D2-N	40x40x4	1500mm	3,630 kg
TE.403.03	D1-D2-N	40x40x4	2000mm	4,840 kg
TE.403.04	D1-D2-N	50x50x5	1000mm	3,770 kg
TE.403.05	D1-D2-N	50x50x5	1500mm	5,655 kg
TE.403.06	D1-D2-N	50x50x5	2000mm	7,540 kg
TE.403.07	D1-D2-N	60x60x4	1000mm	3,700 kg
TE.403.08	D1-D2-N	60x60x4	1500mm	5,550 kg
TE.403.09	D1-D2-N	60x60x4	2000mm	7,400 kg
TE.403.10	D1-D2-N	60x60x5	1000mm	4,570 kg
TE.403.11	D1-D2-N	60x60x5	1500mm	4,855 kg
TE.403.12	D1-D2-N	60x60x5	2000mm	9,140 kg
TE.403.13	D1-D2-N	60x60x6	1000mm	5,420 kg
TE.403.14	D1-D2-N	60x60x6	1500mm	8,130 kg
TE.403.15	D1-D2-N	60x60x6	2000mm	10,840 kg
TE.403.16	D1-D2-N	65x65x5	1000mm	4,970 kg
TE.403.17	D1-D2-N	65x65x5	1500mm	7,455 kg
TE.403.18	D1-D2-N	65x65x5	2000mm	9,940 kg
TE.403.19	D1-D2-N	65x65x6	1000mm	5,910 kg
TE.403.20	D1-D2-N	65x65x6	1500mm	8,865 kg
TE.403.21	D1-D2-N	65x65x6	2000mm	11,820 kg
TE.403.22	D1-D2-N	65x65x7	1000mm	6,830 kg
TE.403.23	D1-D2-N	65x65x7	1500mm	10,245 kg
TE.403.24	D1-D2-N	65x65x7	2000mm	13,660 kg

For strip or round conductor welded profiles, the above table is valid excluding weight.

Round Electrode

Code	Material Coating	Dia.	Lenght	Weight
TES.16.1000	D2 - N	Ø16	1000mm	1,600 kg
TES.18.1500		Ø18	1500mm	3,000 kg
TES.20.1000		Ø20	3000mm	7,500 kg

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SCREW NUT
DC=Galvanizing, NC=Stainless, SC=Brass

COPPER ELECTRODES

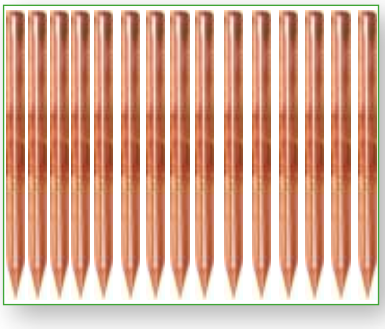
Round copper Single

Code	Dia.	Lenght	Unit Weight
TES.16.1000.B	Ø16	1 mt	1,800 kg
TES.16.1500.B	Ø16	1.5 mt	2,700 kg
TES.16.3000.B	Ø16	3 mt	5,400 kg
TES.18.1000.B	Ø18	1 mt	2,300 kg
TES.18.1500.B	Ø18	1.5 mt	3,450 kg
TES.18.3000.B	Ø18	3 mt	6,900 kg
TES.20.1000.B	Ø20	1 mt	2,700 kg
TES.20.1500.B	Ø20	1.5 mt	4,000 kg
TES.20.3000.B	Ø20	3 mt	8,000 kg

Round copper Threaded

Code	Dia.	Lenght	Unit Weight
TED.16.1000.B	Ø16	1 mt	1,800 kg
TED.16.1500.B	Ø16	1.5 mt	2,700 kg
TED.16.3000.B	Ø16	3 mt	5,400 kg
TED.18.1000.B	Ø18	1 mt	2,300 kg
TED.18.1500.B	Ø18	1.5 mt	3,450 kg
TED.18.3000.B	Ø18	3 mt	6,900 kg
TED.20.1000.B	Ø20	1 mt	2,700 kg
TED.20.1500.B	Ø20	1.5 mt	4,000 kg
TED.20.3000.B	Ø20	3 mt	8,000 kg

Coating thickness Single



Code	*Dia.*	*Lenght*	*Unit Weight*
TES.16.1000.D3	Ø16	1 mt	1,6 kg
TES.16.1500.D3	Ø16	1.5 mt	2,4 kg
TES.16.3000.D3	Ø16	3 mt	4,8 kg
TES.18.1000.D3	Ø18	1 mt	2 kg
TES.18.1500.D3	Ø18	1.5 mt	3 kg
TES.18.3000.D3	Ø18	3 mt	6 kg
TES.20.1000.D3	Ø20	1 mt	2,5 kg
TES.20.1500.D3	Ø20	1.5 mt	3,75 kg
TES.20.3000.D3	Ø20	3 mt	7,5 kg

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SCREW NUT
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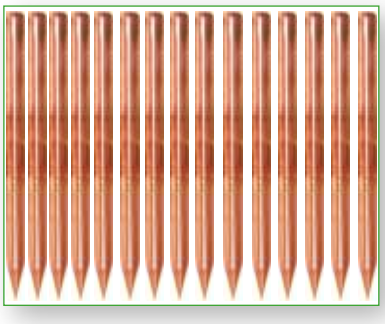
COPPER ELECTRODES

Coating thickness Threaded

Code	Dia.	Lenght	Unit Weight
TED.16.1000.D3	Ø16	1 mt	1,60 kg
TED.16.1500.D3	Ø16	1.5 mt	2,40 kg
TED.16.3000.D3	Ø16	3 mt	4,80 kg
TED.18.1000.D3	Ø18	1 mt	2,00 kg
TED.18.1500.D3	Ø18	1.5 mt	3,00 kg
TED.18.3000.D3	Ø18	3 mt	6,00 kg
TED.20.1000.D3	Ø20	1 mt	2,50 kg
TED.20.1500.D3	Ø20	1.5 mt	3,75 kg
TED.20.3000.D3	Ø20	3 mt	7,50 kg

Coating thickness Single



Code	*Dia.*	*Lenght*	*Unit Weight*
TES.16.1000.D+B	Ø16	1 mt	1,630 kg
TES.16.1500.D+B	Ø16	1.5 mt	2,450 kg
TES.16.3000.D+B	Ø16	3 mt	4.900 kg
TES.18.1000.D+B	Ø18	1 mt	2.055 kg
TES.18.1500.D+B	Ø18	1.5 mt	3,085 kg
TES.18.3000.D+B	Ø18	3 mt	6,165 kg
TES.20.1000.D+B	Ø20	1 mt	2,530 kg
TES.20.1500.D+B	Ø20	1.5 mt	3,800 kg
TES.20.2000D+B	Ø20	2 mt	7,600 kg
TES 22.2500.3.D+B	Ø22	2500mm	8,000 kg

Coating thickness Single

Code	Dia.	Lenght	Unit Weight
TED.16.1000.D+B	Ø16	1 mt	1,630 kg
TED.16.1500.D+B	Ø16	1.5 mt	2,450 kg
TED.16.3000.D+B	Ø16	3 mt	4.900 kg
TED.18.1000.D+B	Ø18	1 mt	2.055 kg
TED.18.1500.D+B	Ø18	1.5 mt	3,085 kg
TED.18.3000.D+B	Ø18	3 mt	6,165 kg
TED.20.1000.D+B	Ø20	1 mt	2,530 kg
TED.20.1500.D+B	Ø20	1.5 mt	3,800 kg
TED.20.2000.D+B	Ø20	3 mt	7,600 kg
TED 22D+B.2500.3.D+B	Ø22	2500 mm	8,000 kg

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SCREW NUT
DC=Galvanizing, NC=Stainless, SC=Brass

Coupler

Code	Explanation	
YTE.102.02	GALVANİZLİ ÇELİK	M12
YTE.102.02	PASLANMAZ	M12

Driving Stud

Code	Explanation	
YTS.103.02	GALVANİZLİ ÇELİK	M12
YTS.103.02	PASLANMAZ	M12

Spike

Code	Explanation	
YTS.104.02	GALVANİZLİ ÇELİK	M12
YTS.104.02	PASLANMAZ	M12

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SCREW NUT
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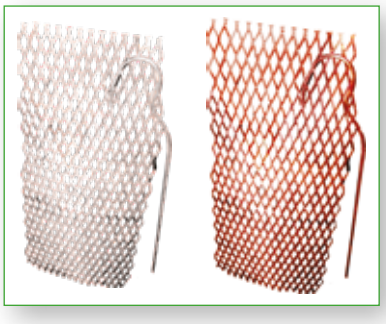
EARTHING PLATES

Earthing Plate, Steel or Copper

Code	Explanation
ELT-101.10	70x70cm - 1mm Bakır
ELT-101.15	70x70cm - 1.5mm Bakır
ELT-101.20	70x70cm - 2mm Bakır
ELT-101.30	70x70cm - 3mm Bakır
ELT-102.20	100x50cm - 2mm Sıcak Galvaniz Kaplı
ELT-102.30	100x50cm - 3mm Sıcak Galvaniz Kaplı

Earthing Grid



Code	Material/Coating	Lenght	Thickness
ELT-103.01	B-D2	1000 x 500 mm	2 mm
ELT-103.02	B-D2	1000 x 1000 mm	2 mm
ELT-103.03	B-D2	1000 x 2000 mm	2 mm
ELT-103.04	B-D2	1000 x 4000 mm	2 mm

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EARTHING ROD CONNECTORS

Code	Material Coating	Rod Dia.	Cross Section
CEB.101.01	B-D1-N-S	ø16 - 22 mm	16-70 mm²
CEB.101.03	B-D1-N-S	ø18 - 22 mm	95-240 mm²
CEB.101.04	S	ø16 - 20 mm	1x50-2x50mm² 30x5

Code	Material Coating	Rod Dia.	Cross Section
CEB.105.01	B-F-S	ø16 mm	2 x 50 mm²
CEB.105.02	B-F-S	ø18 mm	2 x 50 mm²
CEB.105.03	B-F-S	ø20 mm	2 x 50 mm²

Code	Material Coating	Bolt	Rod Dia.	Cross Section
CEB.109.16.21	B-D1-D2-N	DC-NC	ø16 mm	2 x 50 mm²
CEB.109.16.22	B-D1-D2-N	DC-NC	ø16 mm	2 x 70 mm²
CEB.109.16.23	B-D1-D2-N	DC-NC	ø16 mm	2 x 95 mm²
CEB.109.18.21	B-D1-D2-N	DC-NC	ø18 mm	2 x 50 mm²
CEB.109.18.22	B-D1-D2-N	DC-NC	ø18 mm	2 x 70 mm²
CEB.109.18.23	B-D1-D2-N	DC-NC	ø18 mm	2 x 95 mm²
CEB.109.20.21	B-D1-D2-N	DC-NC	ø20 mm	2 x 50 mm²
CEB.109.20.22	B-D1-D2-N	DC-NC	ø20 mm	2 x 70 mm²
CEB.109.20.23	B-D1-D2-N	DC-NC	ø20 mm	2 x 95 mm²

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ELEKTROD BAŞLIKLARI
EARTHING ROD CONNECTORS

Code	Material Coating	Bolt	Rod Dia.	Cross Section
CEB 110.12.08	B-B4-D1-D2-N	DC-NC	ø12 mm	1x16 mm²
CEB 110.12.09	B-B4-D1-D2-N	DC-NC	ø12 mm	1x25 mm²
CEB 110.12.10	B-B4-D1-D2-N	DC-NC	ø12 mm	1x35 mm²
CEB 110.12.11	B-B4-D1-D2-N	DC-NC	ø12 mm	1x50 mm²
CEB 110.12.12	B-B4-D1-D2-N	DC-NC	ø12 mm	1x70 mm²
CEB.110.14.08	B-B4-D1-D2-N	DC-NC	ø14 mm	1x16 mm²
CEB.110.14.09	B-B4-D1-D2-N	DC-NC	ø14 mm	1x25 mm²
CEB.110.14.10	B-B4-D1-D2-N	DC-NC	ø14 mm	1x35 mm²
CEB.110.14.11	B-B4-D1-D2-N	DC-NC	ø14 mm	1x50 mm²
CEB.110.14.12	B-B4-D1-D2-N	DC-NC	ø14 mm	1x70 mm²
CEB.110.16.09	B-B4-D1-D2-N	DC-NC	ø16 mm	1x25 mm²
CEB.110.16.10	B-B4-D1-D2-N	DC-NC	ø16 mm	1x35 mm²
CEB.110.16.11	B-B4-D1-D2-N	DC-NC	ø16 mm	1x50 mm²
CEB.110.16.12	B-B4-D1-D2-N	DC-NC	ø16 mm	1x70 mm²
CEB.110.16.13	B-B4-D1-D2-N	DC-NC	ø16 mm	1x95 mm²
CEB.110.18.10	B-B4-D1-D2-N	DC-NC	ø18 mm	1x35 mm²
CEB.110.18.11	B-B4-D1-D2-N	DC-NC	ø18 mm	1x50 mm²
CEB.110.18.12	B-B4-D1-D2-N	DC-NC	ø18 mm	1x70 mm²
CEB.110.18.13	B-B4-D1-D2-N	DC-NC	ø18 mm	1x95 mm²
CEB.110.18.14	B-B4-D1-D2-N	DC-NC	ø18 mm	1x120 mm²
CEB.110.20.10	B-B4-D1-D2-N	DC-NC	ø20 mm	1x35 mm²
CEB.110.20.11	B-B4-D1-D2-N	DC-NC	ø20 mm	1x50 mm²
CEB.110.20.12	B-B4-D1-D2-N	DC-NC	ø20 mm	1x70 mm²
CEB.110.20.13	B-B4-D1-D2-N	DC-NC	ø20 mm	1x95 mm²
CEB.110.20.14	B-B4-D1-D2-N	DC-NC	ø20 mm	1x120 mm²

Code	Material Coating	Bolt	Rod Dia.	Cross Section
CEB.112.12.08	B-B4-D1-D2-N	DC-NC	ø12 mm	1x16 mm²
CEB.112.12.09	B-B4-D1-D2-N	DC-NC	ø12 mm	1x25 mm²
CEB.112.12.10	B-B4-D1-D2-N	DC-NC	ø12 mm	1x35 mm²
CEB.112.12.11	B-B4-D1-D2-N	DC-NC	ø12 mm	1x50 mm²
CEB.112.12.12	B-B4-D1-D2-N	DC-NC	ø12 mm	1x70 mm²
CEB.112.14.08	B-B4-D1-D2-N	DC-NC	ø14 mm	1x16 mm²
CEB.112.14.09	B-B4-D1-D2-N	DC-NC	ø14 mm	1x25 mm²
CEB.112.14.10	B-B4-D1-D2-N	DC-NC	ø14 mm	1x35 mm²
CEB.112.14.11	B-B4-D1-D2-N	DC-NC	ø14 mm	1x50 mm²
CEB.112.14.12	B-B4-D1-D2-N	DC-NC	ø14 mm	1x70 mm²
CEB.112.16.09	B-B4-D1-D2-N	DC-NC	ø16 mm	1x25 mm²
CEB.112.16.10	B-B4-D1-D2-N	DC-NC	ø16 mm	1x35 mm²
CEB.112.16.11	B-B4-D1-D2-N	DC-NC	ø16 mm	1x50 mm²
CEB.112.16.12	B-B4-D1-D2-N	DC-NC	ø16 mm	1x70 mm²
CEB.112.16.13	B-B4-D1-D2-N	DC-NC	ø16 mm	1x95 mm²
CEB.112.18.10	B-B4-D1-D2-N	DC-NC	ø18 mm	1x35 mm²
CEB.112.18.11	B-B4-D1-D2-N	DC-NC	ø18 mm	1x50 mm²
CEB.112.18.12	B-B4-D1-D2-N	DC-NC	ø18 mm	1x70 mm²
CEB.112.18.13	B-B4-D1-D2-N	DC-NC	ø18 mm	1x95 mm²
CEB.112.18.14	B-B4-D1-D2-N	DC-NC	ø18 mm	1x120 mm²
CEB.112.20.10	B-B4-D1-D2-N	DC-NC	ø20 mm	1x35 mm²
CEB.112.20.11	B-B4-D1-D2-N	DC-NC	ø20 mm	1x50 mm²
CEB.112.20.12	B-B4-D1-D2-N	DC-NC	ø20 mm	1x70 mm²
CEB.112.20.13	B-B4-D1-D2-N	DC-NC	ø20 mm	1x95 mm²
CEB.112.20.14	B-B4-D1-D2-N	DC-NC	ø20 mm	1x120 mm²

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1=Electrogalvanizing, 2=Hot Dip Galvanizing, 3=Electrodeposited Copper, 4=Electrodeposited Tin, 5=Electrodeposited Chromium-Nickel, 6=Black Insulation, 7=Yellow-Green Insulation

SCREW NUT
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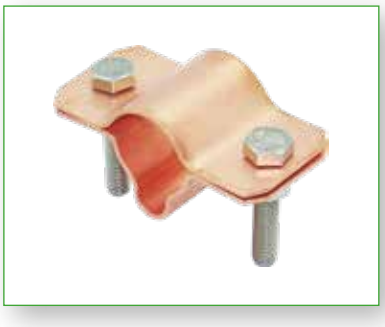
EARTHING ROD CONNECTORS

Code	Material Coating	Bolt	Rod Dia.	Cross Section
CEB.113.01	B-F-S	DC-NC	ø16 - 20 mm	16 - 95 mm^2



Code	Material Coating	Bolt	Rod Dia.	Cross Section
CEB.114.01	B-N	DC-NC	ø16 mm	1x50 mm^2
CEB.114.02	B-N	DC-NC	ø18 mm	1x50 mm^2
CEB.114.03	B-N	DC-NC	ø20 mm	1x50 mm^2

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EARTHING ROD CONNECTORS

Code	Material Coating	Bolt	Çapı Rod Dia.	Cross Section
CEB.116.10	B-B4-D1-D2-N	DC-NC	ø16 mm	1x35 mm²
CEB.116.11	B-B4-D1-D2-N	DC-NC	ø16 mm	1x50 mm²
CEB.116.12	B-B4-D1-D2-N	DC-NC	ø16 mm	1x70 mm²
CEB.116.13	B-B4-D1-D2-N	DC-NC	ø16 mm	1x95 mm²
CEB.116.14	B-B4-D1-D2-N	DC-NC	ø16 mm	1x120 mm²
CEB.118.10	B-B4-D1-D2-N	DC-NC	ø18 mm	1x35 mm²
CEB.118.11	B-B4-D1-D2-N	DC-NC	ø18 mm	1x50 mm²
CEB.118.12	B-B4-D1-D2-N	DC-NC	ø18 mm	1x70 mm²
CEB.118.13	B-B4-D1-D2-N	DC-NC	ø18 mm	1x95 mm²
CEB.118.14	B-B4-D1-D2-N	DC-NC	ø18 mm	1x120 mm²
CEB.120.10	B-B4-D1-D2-N	DC-NC	ø20 mm	1x35 mm²
CEB.120.11	B-B4-D1-D2-N	DC-NC	ø20 mm	1x50 mm²
CEB.120.12	B-B4-D1-D2-N	DC-NC	ø20 mm	1x70 mm²
CEB.120.13	B-B4-D1-D2-N	DC-NC	ø20 mm	1x95 mm²
CEB.120.14	B-B4-D1-D2-N	DC-NC	ø20 mm	1x120 mm²

Code	Material Coating	Bolt	Çapı Rod Dia.	Cross Section
CEB.116.20	B-B4-D1-D2-N	DC-NC	ø16 mm	2x35 mm²
CEB.116.21	B-B4-D1-D2-N	DC-NC	ø16 mm	2x50 mm²
CEB.116.22	B-B4-D1-D2-N	DC-NC	ø16 mm	2x70 mm²
CEB.116.23	B-B4-D1-D2-N	DC-NC	ø16 mm	2x95 mm²
CEB.116.24	B-B4-D1-D2-N	DC-NC	ø16 mm	2x120 mm²
CEB.118.20	B-B4-D1-D2-N	DC-NC	ø18 mm	2x35 mm²
CEB.118.21	B-B4-D1-D2-N	DC-NC	ø18 mm	2x50 mm²
CEB.118.22	B-B4-D1-D2-N	DC-NC	ø18 mm	2x70 mm²
CEB.118.23	B-B4-D1-D2-N	DC-NC	ø18 mm	2x95 mm²
CEB.118.24	B-B4-D1-D2-N	DC-NC	ø18 mm	2x120 mm²
CEB.120.20	B-B4-D1-D2-N	DC-NC	ø20 mm	2x35 mm²
CEB.120.21	B-B4-D1-D2-N	DC-NC	ø20 mm	2x50 mm²
CEB.120.22	B-B4-D1-D2-N	DC-NC	ø20 mm	2x70 mm²
CEB.120.23	B-B4-D1-D2-N	DC-NC	ø20 mm	2x95 mm²
CEB.120.24	B-B4-D1-D2-N	DC-NC	ø20 mm	2x120 mm²

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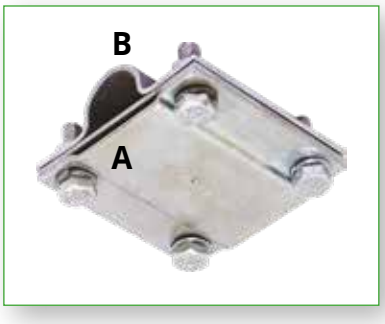
EARTHING ROD CONNECTORS

Code	Material Coating	Bolt	Rod Dia.	Size
CEB.201.16.01	B-D1-D2-N	DC-NC	ø16 mm	25x3 mm
CEB.201.16.02	B-D1-D2-N	DC-NC	ø16 mm	30x3 mm
CEB.201.16.03	B-D1-D2-N	DC-NC	ø16 mm	40x3 mm
CEB.201.18.01	B-D1-D2-N	DC-NC	ø18 mm	25x3 mm
CEB.201.18.02	B-D1-D2-N	DC-NC	ø18 mm	30x3 mm
CEB.201.18.03	B-D1-D2-N	DC-NC	ø18 mm	40x3 mm
CEB.201.20.01	B-D1-D2-N	DC-NC	ø20 mm	25x3 mm
CEB.201.20.02	B-D1-D2-N	DC-NC	ø20 mm	30x3 mm
CEB.201.20.03	B-D1-D2-N	DC-NC	ø20 mm	40x3 mm



Code	Material Coating	Bolt	Rod Dia.	A- Size
CEB.202.16.01	B-D1-D2-N	DC-NC	ø16 mm	25x3 mm
CEB.202.16.02	B-D1-D2-N	DC-NC	ø16 mm	30x3 mm
CEB.202.16.03	B-D1-D2-N	DC-NC	ø16 mm	40x3 mm
CEB.202.18.01	B-D1-D2-N	DC-NC	ø18 mm	25x3 mm
CEB.202.18.02	B-D1-D2-N	DC-NC	ø18 mm	30x3 mm
CEB.202.18.03	B-D1-D2-N	DC-NC	ø18 mm	40x3 mm
CEB.202.20.01	B-D1-D2-N	DC-NC	ø20 mm	25x3 mm
CEB.202.20.02	B-D1-D2-N	DC-NC	ø20 mm	30x3 mm
CEB.202.20.03	B-D1-D2-N	DC-NC	ø20 mm	40x3 mm

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EARTHING IMPROVEMENT COMPOUND - REM

REM was developed in 2003.
It is a highly conductive casing material that solves your most difficult grounding problems.
REM increases soil conductivity in all soil types.
It is ideal for soils with poor conductivity, such as rocky areas, mountain peaks, and sandy soil.
REM is the solution for situations where grounding rods cannot be used.
It also eliminates the problems associated with limited space.
No other material can reduce soil resistance as effectively as REM and maintain it at a consistently low resistance.
No other system can maintain the lifespan of a grounding system with high conductivity as long as REM.
REM's performance has been proven through rigorous testing using state-of-the-art technology and reinforced by the trust it commands in its field.

Effect of REM

• It reduces the soil's resistance.
• Once installed, it maintains the resistance constant for the life of the system.
• It works in all soil types.
• REM is a very effective casing material.
• It does not dissolve or deteriorate over time.
• It increases frost resistance by 10%.
• There is no need for periodic inspections or renewals.
• There is no need for maintenance.
• It does not matter whether the environment is dry or humid.

REM is easy to use

• It's easy to transport in 10 kg bags.
• One person is sufficient for installation.
• It doesn't matter whether the soil is wet or dry.
• When used dry, there's no need to mix.
Simply open and pour.
• When used dry, it immediately absorbs humidity from the soil.
• It reduces the area to be grounded.
• It reduces the use of grounding electrodes.
• It reduces grounding costs.

REM is environmentally friendly

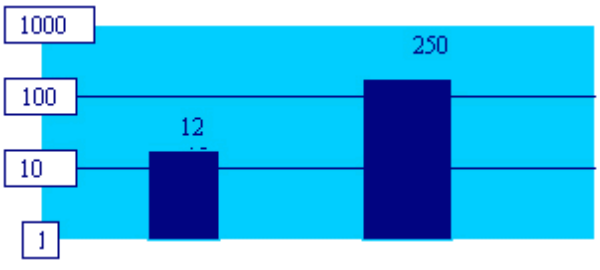
• It has no effect on the soil.
• It does not pollute groundwater.

Resistance Characters - Resistance (OHM-CM)

EARTHING IMPROVEMENT COMPOUND - REM

REM Bentonite Clay

As the graph shows, REM's resistance is 20 times lower than the other.
RADSAN's experienced technical staff is ready to assist you and answer your questions.
Do your next job with REM
And take advantage of REM's long-lasting benefits of lower resistance and higher conductivity.
REM is absolutely reliable and the best.

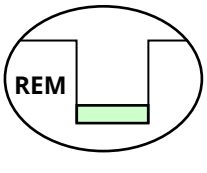


Explanations

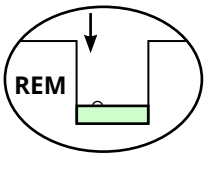
• REM is a continuous and maintenance-free system.
• It does not lose its effectiveness over time.
• REM can be used on both dry soil and wet ground.
• It does not lose any conductivity when in constant contact with water.
• The soil resistivity where REM is used does not exceed 20 ohm-cm.
• REM does not cause galvanic corrosion with electrodes such as coal added to the soil to reduce grounding resistance.
• REM does not cause acidic reactions with electrodes such as salt added to the soil to reduce grounding resistance.

Implementation of REM

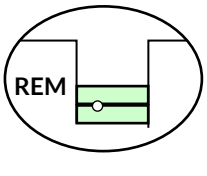
GROUNDING CHANNEL APPLICATION WITH HORIZONTAL GROUNDING CONDUCTOR



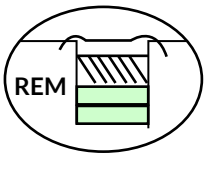
1. Dig a channel 10.2 cm wide and 76.2 cm deep (4 x 30 inches) or down to the frost line (usually deeper than DIMENSIONS). Fill the bottom with 2.5 cm (1 inch) of REM.



2. Place the conductor on top of the REM.



3. Pour the same amount of REM onto the conductor (make sure the conductor is completely covered).



4. Fill it with 10.2 cm (4 inches) of soil.

EARTHING IMPROVEMENT COMPOUND

The table below shows the values for different types of channels.

APPROXIMATE LENGTH OF GROUNDING CONDUCTOR THAT 1 BAG OF REM WILL COVER IN THE CHANNEL				
WIDTH OF THE CHANNEL			**TOTAL THICKNESS OF REM**	
	1"	**2"**	**3"**	**4"**
	(2,5 cm)	**(5,1 cm)**	**(7,6 cm)**	**(10,2 cm)**
4" (10,2cm)	14,0'(4.3m)	7,0'(2.1m)	4,7'(1.4m)	3,5'(1.1m)
6" (15,2cm)	9,3'(2.8m)	4,7'(1.4m)	3,1'(0.9m)	2,3'(0.7m)
8" (20,3cm)	7,0'(2.1m)	3,5'(1.1m)	2,3'(0.7m)	1,8'(0.5m)
10" (25,4cm)	5,6'(1.7m)	2,8'(0.9m)	1,9'(0.6m)	1,4'(0.4m)
12" (30,5cm)	4,7'(1.4m)	2,3'(0.7m)	1,6'(0.5m)	1,2'(0.4m)
Half of this thickness should be applied under the conductor and half on it.				

APPLICATION MOUNTING WITH GROUNDING ROD

• 7.6 cm. (3 inç) or more widely (6 inç) and ground rod length 15,2 cm. a hole of less depth is drilled.

• Çubuğu deliğe yerleştirin 1 foot kadar (30 cm) dike çakın. (Eğer mümkünse çubuğun tepesi deliğin V ucundan 15.2 cm. (6 inç) daha aşağıda olması gerekir.) Sonra çubuğu cadweld ürünlerini kullanarak istediğiniz bütün For mounting onları yapabilirsiniz.

• Gerekli miktardaki REM' ı (tablo 2) deliğe dökün.REM' in çubuğun çevresinin iyice dolduğundan emin olun.

• Geri kalan boşluğu toprakla doldurun.

NOT: Delikte biriken su işlemden önce boşaltılmalıdır. REM, Humidityli olarak kullanılmak istenirse standart, çimento karıştırıcı gibi alışılmış aletleri kullanabilirsiniz. 1 torba REM için 5.7-7.6 litre (3/2, 2 galon) su kullanınız. (tablo 2)

1 TORBA REM'in DOLDURACAĞI TAHMİNİ DERİNLİK (Yoğunluk 1442 kg/m³)							
ÇUKURUN ÇAPI	**ÇUKUR DERİNLİĞİ**						
	6'(1,8m)	**7'(2,1m)**	**8'(2,4m)**	**9'(2,7m)**	**17'(5,2)m**	**18'(5,8m)**	**20'(6,1m)**
3"(7,6cm)	2	2	2	2	4	4	4
4"(10,2cm)	2	3	3	3	6	7	7
5"(10,2cm)	3	4	4	5	9	10	10
6"(15,2cm)	5	5	6	7	13	14	15
7"(17,8cm)	6	7	8	9	17	19	20
8"(20,3cm)	8	9	11	12	22	25	26
9"(22,9cm)	10	12	13	15	28	31	32
10"(25,4cm)	12	14	16	18	34	38	40

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TOPRAKLAMA PRİZLERİ
EARTHING POINTS

Kod *Code*	Material/Coating	Çap *Dia*	A Diş *A Thread*
ELT-101.10	B-D1-D2-N-F	20 mm	M12
ELT-101.11	B-D1-D2-N-F	40 mm	M12

Kod *Code*	Material/Coating	Boyut *Size*
B.165.01	S-F	65x85 mm

Kod *Code*	Material/Coating	Boyut *Size*
B.165.02	S-F	98x159 mm

Kod *Code*	Material/Coating	Boyut *Size*
B168.01	S-F	121x185 mm

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EARTHING POINTS

Code	Material/Coating	Thread
DB.8	S	M8
DB.10	S	M10
DB.12	S	M12
DB.16	S	M14

Code	Material/Coating	Thread
B.162.12	S	2 x M12
B.164.12	S	4 x M12

Code	Material/Coating	Connection Type
GPS.01	D1-N-B-S	Çap 20 mm
GPS.02	D1-N-B-S	Çap 8 mm
GPS.03	D1-N-B-S	Çap ≤12 mm

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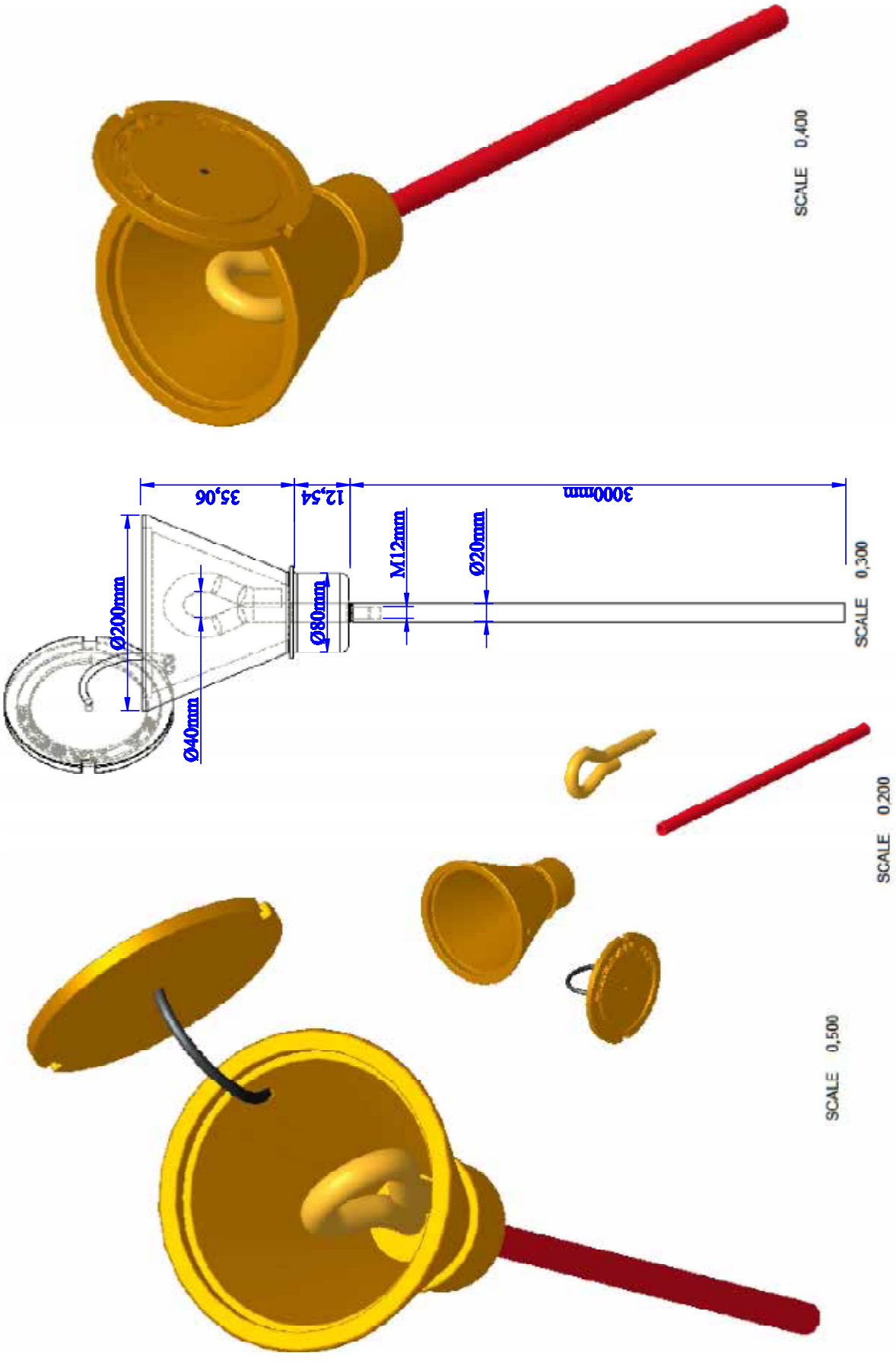
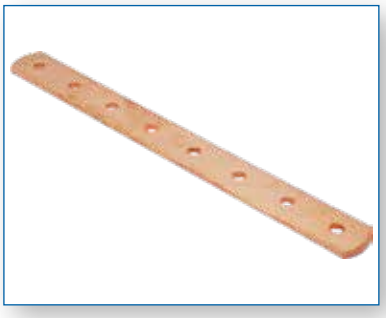
HELICOPTER GROUNDING DETAIL

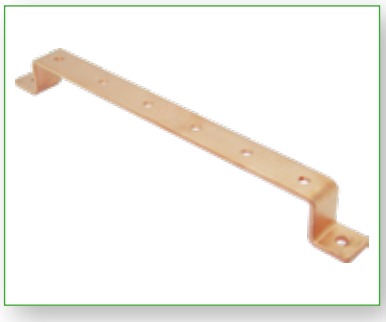


BARS

Main Bars



Code	Material Coating	Size		Hole Dia.
EB.101	A-B-B4-D1-D2	25x3 mm	30 cm.	M8
	A-B-B4-D1-D2	25x3 mm	40 cm.	M8
	A-B-B4-D1-D2	25x3 mm	50 cm.	M8
	A-B-B4-D1-D2	30x3 mm	30 cm.	M8
	A-B-B4-D1-D2	30x3 mm	40 cm.	M8
	A-B-B4-D1-D2	30x3 mm	50 cm.	M8
	A-B-B4-D1-D2	30x5 mm	30 cm.	M8
	A-B-B4-D1-D2	30x5 mm	40 cm.	M8
	A-B-B4-D1-D2	30x5 mm	50 cm.	M8
	A-B-B4-D1-D2	40x5 mm	30 cm.	M8
	A-B-B4-D1-D2	40x5 mm	40 cm.	M8
	A-B-B4-D1-D2	40x5 mm	50 cm.	M8



Code	Material Coating	Size		Hole Dia.
EBA.101	A-B-B4-D1-D2	25x3 mm	30 cm.	M8
	A-B-B4-D1-D2	25x3 mm	40 cm.	M8
	A-B-B4-D1-D2	25x3 mm	50 cm.	M8
	A-B-B4-D1-D2	30x3 mm	30 cm.	M8
	A-B-B4-D1-D2	30x3 mm	40 cm.	M8
	A-B-B4-D1-D2	30x3 mm	50 cm.	M8
	A-B-B4-D1-D2	30x5 mm	30 cm.	M8
	A-B-B4-D1-D2	30x5 mm	40 cm.	M8
	A-B-B4-D1-D2	30x5 mm	50 cm.	M8
	A-B-B4-D1-D2	40x5 mm	30 cm.	M8
	A-B-B4-D1-D2	40x5 mm	40 cm.	M8
	A-B-B4-D1-D2	40x5 mm	50 cm.	M8

Code	Material Coating	Size		Hole Dia.
EB.102	A-B-B4-D1-D2	40x5 mm	30 cm.	M8
	A-B-B4-D1-D2	40x5 mm	40 cm.	M8
	A-B-B4-D1-D2	40x5 mm	50 cm.	M8
	A-B-B4-D1-D2	50x5 mm	30 cm.	M8
	A-B-B4-D1-D2	50x5 mm	40 cm.	M8
	A-B-B4-D1-D2	50x5 mm	50 cm.	M8
	A-B-B4-D1-D2	60x5 mm	30 cm.	M8
	A-B-B4-D1-D2	60x5 mm	40 cm.	M8
	A-B-B4-D1-D2	60x5 mm	50 cm.	M8

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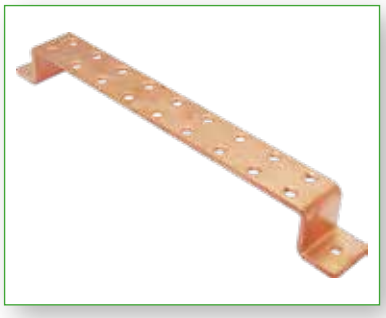
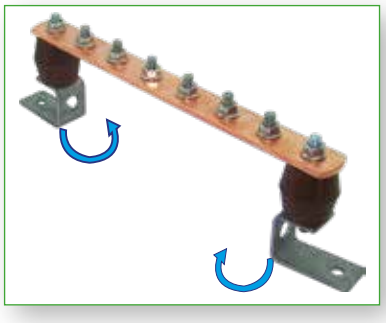
SCREW NUT
DC=Galvanizing, NC=Stainless, SC=Brass

BARS

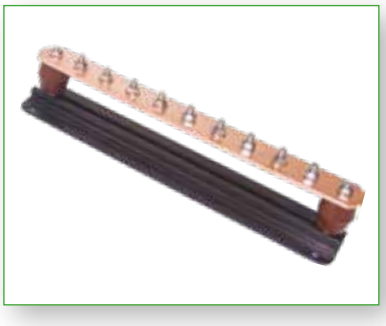


Code	Material Coating	Size		Hole Dia.
EBA.102	A-B-B4-D1-D2	40x5 mm	30 cm.	M8
	A-B-B4-D1-D2	40x5 mm	40 cm.	M8
	A-B-B4-D1-D2	40x5 mm	50 cm.	M8
	A-B-B4-D1-D2	50x5 mm	30 cm.	M8
	A-B-B4-D1-D2	50x5 mm	40 cm.	M8
	A-B-B4-D1-D2	50x5 mm	50 cm.	M8
	A-B-B4-D1-D2	60x5 mm	30 cm.	M8
	A-B-B4-D1-D2	60x5 mm	40 cm.	M8
	A-B-B4-D1-D2	60x5 mm	50 cm.	M8

Earhting Bars with Insulators



Code	Material Coating	Size	
EB.200	A-B-B4-D1-D2	25x3 mm	30 cm
	A-B-B4-D1-D2	25x3 mm	40 cm
	A-B-B4-D1-D2	25x3 mm	50 cm
	A-B-B4-D1-D2	30x3 mm	30 cm
	A-B-B4-D1-D2	30x3 mm	40 cm
	A-B-B4-D1-D2	30x3 mm	50 cm
	A-B-B4-D1-D2	30x5 mm	30 cm
	A-B-B4-D1-D2	30x5 mm	40 cm
	A-B-B4-D1-D2	30x5 mm	50 cm
	A-B-B4-D1-D2	40x5 mm	30 cm
	A-B-B4-D1-D2	40x5 mm	40 cm
	A-B-B4-D1-D2	40x5 mm	50 cm
	A-B-B4-D1-D2	50x5 mm	30 cm
	A-B-B4-D1-D2	50x5 mm	40 cm
	A-B-B4-D1-D2	50x5 mm	50 cm



Code	Material Coating	Size	
EBK.200	A-B-B4-D1-D2	25x3 mm	30 cm
	A-B-B4-D1-D2	25x3 mm	40 cm
	A-B-B4-D1-D2	25x3 mm	50 cm
	A-B-B4-D1-D2	30x3 mm	30 cm
	A-B-B4-D1-D2	30x3 mm	40 cm
	A-B-B4-D1-D2	30x3 mm	50 cm
	A-B-B4-D1-D2	30x5 mm	30 cm
	A-B-B4-D1-D2	30x5 mm	40 cm
	A-B-B4-D1-D2	30x5 mm	50 cm
	A-B-B4-D1-D2	40x5 mm	30 cm
	A-B-B4-D1-D2	40x5 mm	40 cm
	A-B-B4-D1-D2	40x5 mm	50 cm
	A-B-B4-D1-D2	50x5 mm	30 cm
	A-B-B4-D1-D2	50x5 mm	40 cm
	A-B-B4-D1-D2	50x5 mm	50 cm

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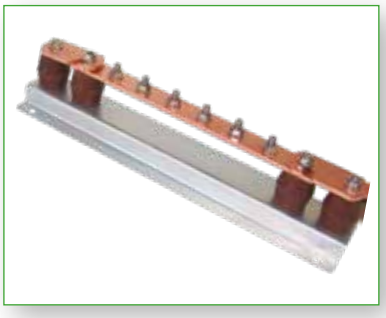
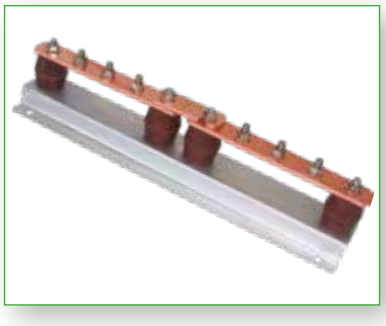
SCREW NUT
DC=Galvanizing, NC=Stainless, SC=Brass

BARS

Disconnection Links



Code	Material/Coating	Size	
EB.202	A-B-B4-D1-D2	30x5 mm	40 cm
	A-B-B4-D1-D2	30x5 mm	50 cm
	A-B-B4-D1-D2	30x5 mm	60 cm
	A-B-B4-D1-D2	30x5 mm	80 cm
	A-B-B4-D1-D2	30x5 mm	100 cm
	A-B-B4-D1-D2	40x5 mm	40 cm
	A-B-B4-D1-D2	40x5 mm	50 cm
	A-B-B4-D1-D2	40x5 mm	60 cm
	A-B-B4-D1-D2	40x5 mm	80 cm
	A-B-B4-D1-D2	40x5 mm	100 cm
	A-B-B4-D1-D2	50x5 mm	40 cm
	A-B-B4-D1-D2	50x5 mm	50 cm
	A-B-B4-D1-D2	50x5 mm	60 cm
	A-B-B4-D1-D2	50x5 mm	80 cm
	A-B-B4-D1-D2	50x5 mm	100 cm
	A-B-B4-D1-D2	60x5 mm	40 cm
	A-B-B4-D1-D2	60x5 mm	50 cm
	A-B-B4-D1-D2	60x5 mm	60 cm
	A-B-B4-D1-D2	60x5 mm	80 cm
	A-B-B4-D1-D2	60x5 mm	100 cm



Code	Material/Coating	Size	
EBT.201	A-B-B4-D1-D2	30x5 mm	40 cm
	A-B-B4-D1-D2	30x5 mm	50 cm
	A-B-B4-D1-D2	30x5 mm	60 cm
	A-B-B4-D1-D2	30x5 mm	80 cm
	A-B-B4-D1-D2	30x5 mm	100 cm
	A-B-B4-D1-D2	40x5 mm	40 cm
	A-B-B4-D1-D2	40x5 mm	50 cm
	A-B-B4-D1-D2	40x5 mm	60 cm
	A-B-B4-D1-D2	40x5 mm	80 cm
	A-B-B4-D1-D2	40x5 mm	100 cm
	A-B-B4-D1-D2	50x5 mm	40 cm
	A-B-B4-D1-D2	50x5 mm	50 cm
	A-B-B4-D1-D2	50x5 mm	60 cm
	A-B-B4-D1-D2	50x5 mm	80 cm
	A-B-B4-D1-D2	50x5 mm	100 cm
	A-B-B4-D1-D2	60x5 mm	40 cm
	A-B-B4-D1-D2	60x5 mm	50 cm
	A-B-B4-D1-D2	60x5 mm	60 cm
	A-B-B4-D1-D2	60x5 mm	80 cm
	A-B-B4-D1-D2	60x5 mm	100 cm

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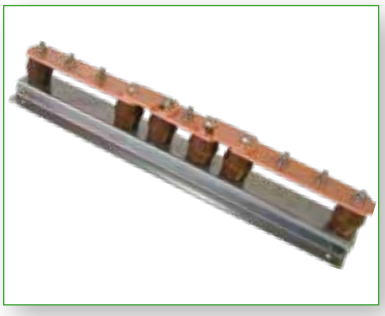
BARS

Disconnection Links



Code	Material/Coating	Size	
EBT.202	B-B4-D1-D2	30x5 mm	40 cm
	B-B4-D1-D2	30x5 mm	50 cm
	B-B4-D1-D2	30x5 mm	60 cm
	B-B4-D1-D2	30x5 mm	80 cm
	B-B4-D1-D2	30x5 mm	100 cm
	B-B4-D1-D2	40x5 mm	40 cm
	B-B4-D1-D2	40x5 mm	50 cm
	B-B4-D1-D2	40x5 mm	60 cm
	B-B4-D1-D2	40x5 mm	80 cm
	B-B4-D1-D2	40x5 mm	100 cm
	B-B4-D1-D2	50x5 mm	40 cm
	B-B4-D1-D2	50x5 mm	50 cm
	B-B4-D1-D2	50x5 mm	60 cm
	B-B4-D1-D2	50x5 mm	80 cm
	B-B4-D1-D2	50x5 mm	100 cm
	B-B4-D1-D2	60x5 mm	40 cm
	B-B4-D1-D2	60x5 mm	50 cm
	B-B4-D1-D2	60x5 mm	60 cm
	B-B4-D1-D2	60x5 mm	80 cm
	B-B4-D1-D2	60x5 mm	100 cm

Code	Description	Size		Bolt
TSIC -101	*SINGLE ROW HOLE BAR, WITH INSULATORS, COVERED*	30x3 mm	300 mm	NC
		30x3 mm	500 mm	NC
		30x3 mm	1000 mm	NC
		50x5 mm	300 mm	NC
		50x5 mm	500 mm	NC
		50x5 mm	1000 mm	NC
		100x10 mm	300 mm	NC
		100x10 mm	500 mm	NC
		100x10 mm	1000 mm	NC

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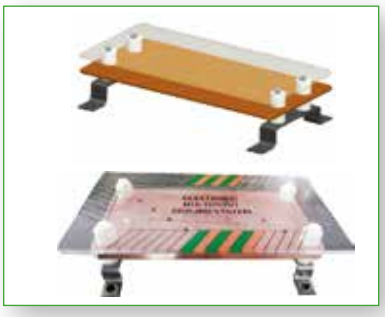
BARS



Code	Description	Size		Bolt
DSIC 201	DOUBLE ROW HOLE BAR , WITH INSULATORS, COVERED	50x5 mm	300 mm	NC
		50x5 mm	500 mm	NC
		50x5 mm	1000 mm	NC
		100x10 mm	200 mm	NC
		100x10 mm	300 mm	NC
		100x10 mm	400 mm	NC
		100x10 mm	500 mm	NC
		100x10 mm	1000 mm	NC
		160x10 mm	300 mm	NC
		160x10 mm	500 mm	NC
		160x10 mm	1000 mm	NC

Signal Bars

Code	Material/Coating	Bolt	Size
EBH-101.02	D1-D2-S-S4-N	DC-NC	20x15x175 mm

Code	Material/Coating	Bolt	Size
EBH-101.03	D1-D2-S-S4-N	DC-NC	20x15x175 mm

Insulators

Code	Description		Thread
B.2.01	1 KV	2 Screw-in	M8
B.2.02		1 Screw-in	
B.2.03		Screwless	

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EARTHING DRUMS

Code	Material	Description	Size
ESD-101.01	D-B-N	Tambur (Küçük)	20 m
ESD-101.02	D-B-N	Tambur (Büyük)	20 m

Earthing Panels

Code	Material	Description
ESDP-102.01	N,painted steel	Grounding panel with small rotating drum and concrete base
ESDP-102.02	N,painted steel	Grounding panel with small rotating drum without concrete base
ESDP-102.03	N,painted steel	Grounding panel with big rotating drum and concrete base
ESDP-102.04	N,painted steel	Grounding panel with big rotating drum without concrete base

ESD Earthing Kit

Code	Material	Rod Height
ESD.100.01	D1-D2-B-B4-N	1 m

Earthing Cable with Metalic Clip

Code	Description	Lenght
RST.01.01	16 mm² NYAF kablo	5 m
RST.01.02	16 mm² NYAF kablo	10 m
RST.01.03	16 mm² NYAF kablo	20 m
RST.01.04	25 mm² NYAF kablo	5 m
RST.01.05	25 mm² NYAF kablo	10 m
RST.01.06	25 mm² NYAF kablo	20 m
RST.01.07	35 mm² NYAF kablo	5 m
RST.01.08	35 mm² NYAF kablo	10 m
RST.01.09	35 mm² NYAF kablo	20 m

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STATIC EARTHING PLATES

Code	Material/Coating	Size
ESDL-200.01	B4-B-N	250 x 250 x 2 mm
ESDL-200.02	B4-B-N	400 x 400 x 2 mm

Code	Material/Coating	Size
ESDL-202.01	B-B4-N	400 x 400 mm
ESDL-202.02	B-B4-N	250 x 250 mm

ESD Empedans / *ESD Impedance*

Code	Description	Material Coating	up to Cond. Dia
ELTR-100.01	1MΩ Empedanslı Impedance	S	8 mm

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Concrete Earthing Pit

Code	Weight	Size	Thickness Size
RIP.101.01.01	55 kg (Kapaksız)	40x40xh25 cm	5 cm
RIP.101.01.16	60 kg (Kapaksız)	40x40xh40 cm	5 cm
RIP.101.01.07	230 kg (Kapaksız)	50x60xh60 cm	5 cm

Covers: You can request options such as concrete, cast iron, hot-dip galvanized, or iron.

Code	Weight	Size	Thickness Size
RIP.101.06.03	210 kg (Kapaksız)	60x60xh40 cm	10 cm

Covers: You can request options such as concrete, cast iron, hot-dip galvanized, or iron.

Plastic Earthing Pit

Code	Size
RIP.101.06.02	30x30x30 cm
RIP.101.06.01	40x40x40 cm
RIP.101.05.01	55x55x50 cm

Hot Dip Galvanized or Electro Galvanized Earthing Pit

Code	Weight	Size
RIP.101.02	13 kg / 20 kg	40x40x40 / 50x50x50

Casting Earthing Pit

Kod *Code*	Ağırlık *Weight*	Ölçü *Size*	Kalınlık *Thickness Size*
RIP.101.03	13 kg	22.8x13.8xh20 cm	33 cm

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EARTHING MEASUREMENT DEVICES

ERT-S

Features

1- Grounding Resistance Test.
2- Soil Specific Resistance Test.
3- Optional grounding resistance test without stakes using a measuring probe.
4- Transferring measurement values to a computer.
5- Factory calibration certificate.

Metrel Euro Test

Features

1- Grounding resistance test (with stakes).
2- Grounding resistance test (without stakes).
3- Soil Specific Resistance Test.
4- Insulation, RCD (Residual Current Device), Phase Sequence, Varistor, PE Grounding Line Continuity, Loop and Line Impedance Test.
5- Power-Harmonic, Phase Angle-Frequency-Contact Voltage, Illuminance, K Leakage Current, Current, Voltage, KW, VA, Var, CosQ Measurements.
6- Transferring measurement values to a computer.

DT-5300B

Features

1- Grounding Resistance Test.
2- Soil Specific Resistance Test.
3- Factory calibration certificate.