



Earting & lightning protection system



products catalog



Earthing

6-19

- Earth rod
- Side accessories of earth rods
- Clamps
- Earth resistance reducing powder
- Conductor
- Busbars
- Connections



Lightning protection system

6-22

- Lightning arresters
- Surge arrester holders
- Masts



Combustion Welding

23-28

- Exothermic Welding Toolkit
- Boiling powder
- Cad welds





Company summary

Azanir Engineering Trading Company, relying on technical knowledge, executive records, equipment capacity and benefiting from domestic experts and international consultants, provides consulting services, design, implementation, production and supply of equipment for grounding systems and Lightning & Surge Protection in related industries:

- Providing quality goods approved and standardized in the electricity industry,
- Keeping up with the updated science and technology,
- Providing after-sales services and paying attention to the needs of customers based on extensive experience,
- Benefiting from experienced specialists,
- The satisfaction of many major customers in the governmental and private sectors has always given the company hope for a better and more professional services.
- Also, our company has always been one of the active members and the sponsor of the National Electricity Industry Syndicate in specialized conferences and events in iran, and has registered membership in vendor list of iranian oil, gaz ,petrochemical and telecommunications authorized entities in its professional record.



Mission:

- Leading provider of comprehensive solutions for earthing systems, lightning protection and surge
- Register a valuable brand with high performance and sustainable growth
- Pioneering and excelling in your field
- Knowledge-based innovation

vision:

- Reaching the position of the top five companies in the field of electrical engineering
- Becoming a company trusted by customers
- Increase technical-economic capacity by identifying the needs of the industry
- Strive to create value for the customer in the field of products and services of earthing systems, lightning protection and surge
- Provide knowledge to the engineering community about the safety and quality of electricity
- Research and development of products and services to achieve the highest global quality
- Develop a quality management system towards operational excellence to contribute to sustainable growth

Commitment to work with customers:

Improve productivity in providing excellent customer service. Azanir Company is committed to its customers and is constantly working in this direction. Azanir forces are ready to respond quickly, help and advise their customers from the beginning of the project and at any time.

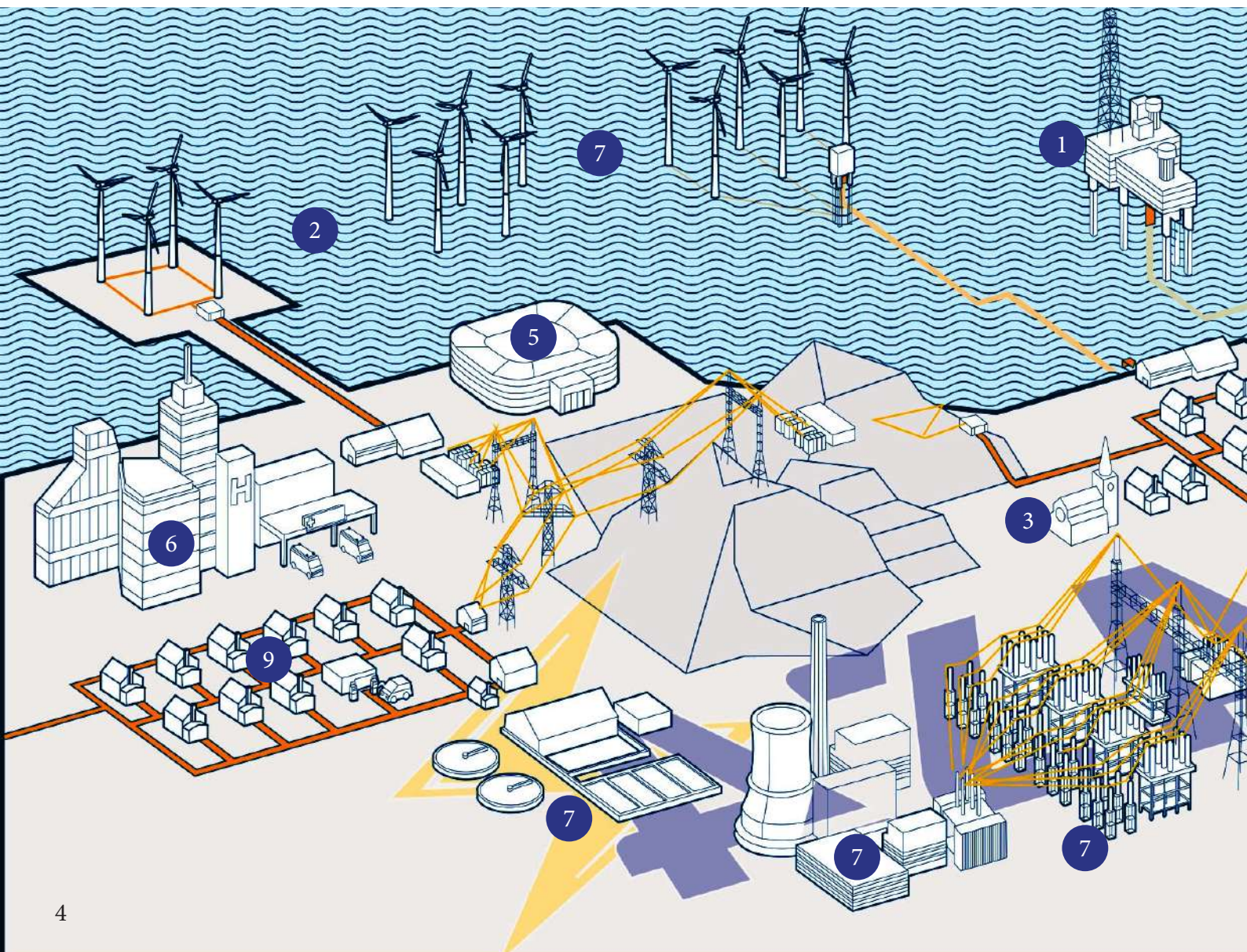
► Structural lightning protection

From Furse air termination systems including air rods and strike plates to capture lightning strikes, through to our comprehensive range of down conductors and lightning protection components which channel lightning energysafely to a Furse earth termination network.

Including:

- Air termination systems
- Lightning protection conductors
- Conductor clips, clamps & holdfasts
- Bimetallic connection components

1. Oil & gas / petrochemical
2. Renewable energies
3. Cultural & heritage
4. High tech & industrial
5. Sports & recreation



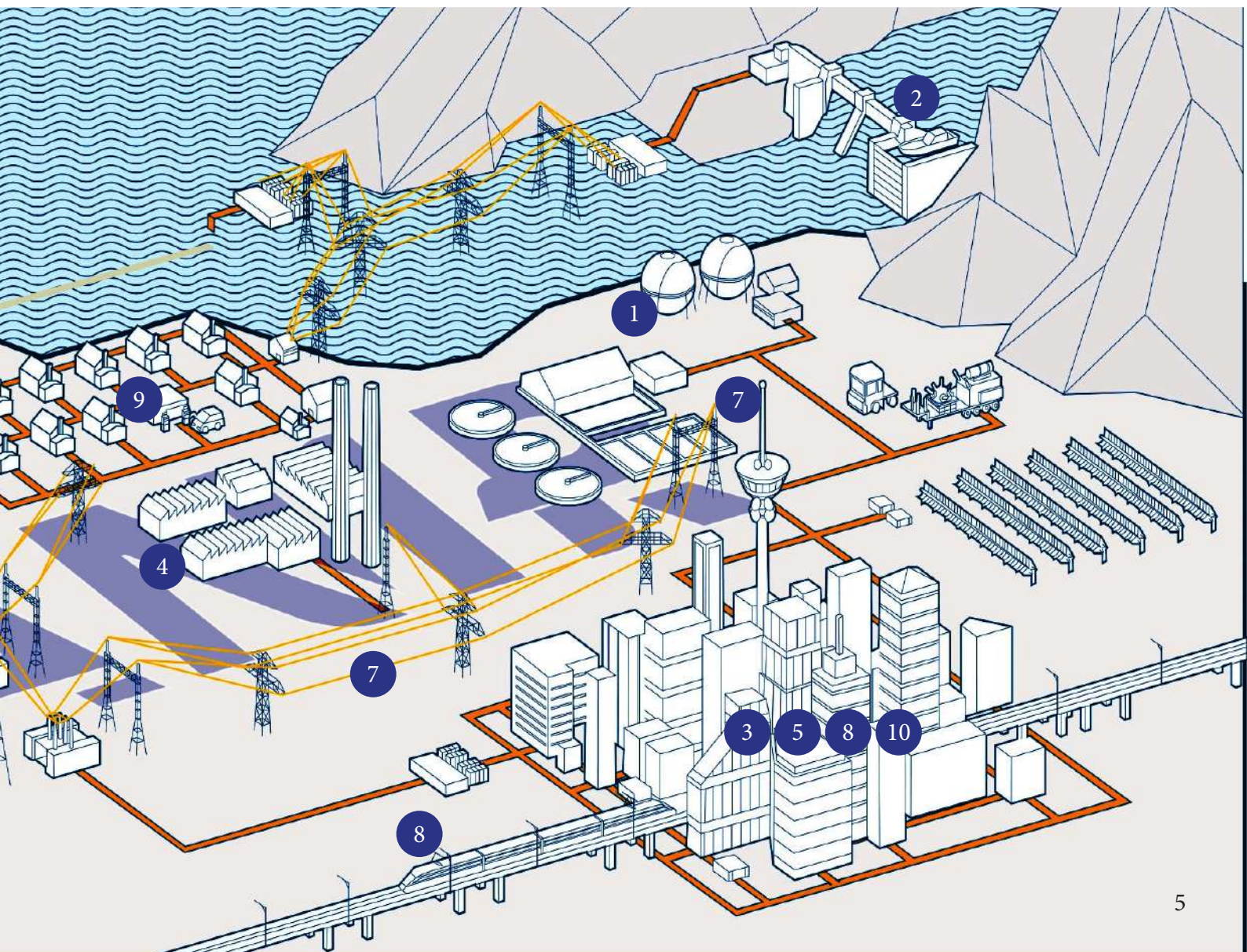
► Earthing

The combination of Furse earth electrodes, clamps, conductors and equipotential bonding bars which provide lightning and transient overvoltage energy with an effective, low resistance route from lightning protection system to earth.

Including:

- Earth rods & conductor systems
- Mechanical earth clamps & bonds
- FurseWELD exothermic welding
- Earth bars & equipotential bonding

6. Government & public sector
7. Utilities
8. Rail & infrastructure
9. Residential
10. Commercial construction



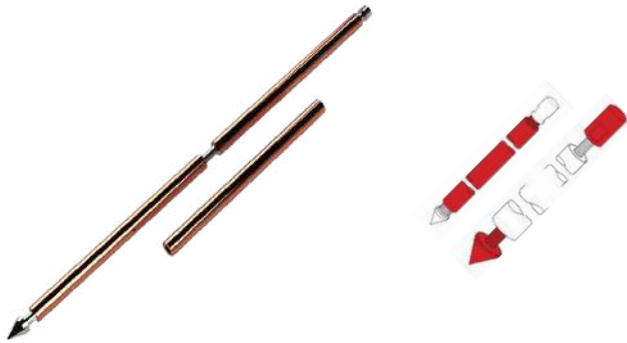
in order to protect the health of people, equipment and devices against the risk of short circuit or lightning To hieve this, all devices, equipment and metal structures of suitable metal conductors must be connected to the earth network, which consists of copper wires, earth rods, clamps and connections, etc. so that when the connection occurs. Short or lightning currents are transmitted to the ground and neutralized in this way.

Hard copper earth rod

Code: AGR-CU

Standard: BS EN 50164 , IEC 62561

These rods are made of pure tensile copper with grade C102 and C102 according to the BS EN 12163 standard. These rods are used in parts that need corrosion resistance and long life and soils PH that are below 3 or above 8.



PART NUMBER	LENGTH _(mm)	DIAMETER _(mm)	THEARD SIZE _(mm)	MATERIAL
AGR-CU 16/1200	1200	16	M10	COPPER
AGR-CU 16/1500	1500	16	M10	
AGR-CU 16/2000	2000	16	M10	
AGR-CU 20/1200	1200	20	M14	
AGR-CU 20/1500	1500	20	M14	
AGR-CU 20/2000	2000	20	M14	

Stainless steel earth rod

Code: AGR-SS

Standard: BS EN 50164 , IEC 62561

These rods are made of stainless steel with grades 304 and 316 according to the standard BS EN 50164. These rods have a long life and show good corrosion resistance in soils PH that are less than 3 or higher than 8.



PART NUMBER	LENGTH _(mm)	DIAMETER _(mm)	THEARD SIZE _(mm)	MATERIAL
AGR-SS 16/1200	1200	16	M10	STEEL
AGR-SS 16/1500	1500	16	M10	
AGR-SS 16/2000	2000	16	M10	
AGR-SS 20/1200	1200	20	M14	
AGR-SS 20/1500	1500	20	M14	
AGR-SS 20/2000	2000	20	M14	

Copperband earth rod

Code: AGR-SCU

Standard: UL 467 , IEC 62561

In this method, first the steel core is acid washed, deoxidized and degreased, then pure copper with a high purity of 99.9% is shown with very high adhesion on the steel core.



PART NUMBER	LENGTH _(mm)	DIAMETER _(mm)	BODY DIAMETER _(mm)	MATERIAL
AGR-SCU 16/1200	1200	16	14.2	COPPER
AGR-SCU 16/1500	1500	16	14.2	
AGR-SCU 16/2000	2000	16	14.2	
AGR-SCU 20/1200	1200	20	17.2	
AGR-SCU 20/1500	1500	20	17.2	
AGR-SCU 20/2000	2000	20	17.2	

Side accessories of earth rods

Dowel

Code: ADO

Standard: BS 970



This product is produced in full thread and is used to obtain more lengths and to connect several hard copper earth rods or stainless steel earth rods to each other.

PART NUMBER	THEARD SIZE _(mm)	ROD DIAMETER _(mm)
ADO 16	M10	16
ADO 20	M14	20

Coupler

Code: ACP

Standard: IEC 62561



These fasteners are made of copper alloy with high corrosion resistance and strength and also prevent the threads from being damaged when hammering the earth rod.

PART NUMBER	THEARD SIZE _(inch)	ROD DIAMETER _(mm)
ACP 16	5/8	16
ACP 20	3/4	20

Driving Studs

Code: ASP

Standard: BS 970



Allen shock absorber, which is produced from high-strength steel, is used for easy hammering and to prevent damage to the threads of hard copper earth rod and stainless steel earth rod.

PART NUMBER	THEARD SIZE _(mm)	ROD DIAMETER _(mm)
ASP 16	M10	16
ASP 20	M14	20

Driving Studs

Code: ASC

Standard: BS 970



In order to easily crush and prevent damage to the threads of hard copper earth rod and stainless steel earth rod, a cup shock absorber made of high-strength heat-treated steel is used.

PART NUMBER	ROD DIAMETER _(mm)
ASC 16	16
ASC 20	20

Driving Spikes

Code: AST1

Standard: BS 970



Made of high strength heat-treated steel, which is used for easy crushing and to prevent damage to the earth rod threads.

PART NUMBER	THEARD SIZE _(inch)	ROD DIAMETER _(mm)
AST1-16	5/8	16
AST1-20	3/4	20

Driving Spikes

Code: AST2

Standard: BS 970



High strength heat treated steel is used to facilitate the conduction of hard copper earth rods and stainless steel earth rods into the ground.

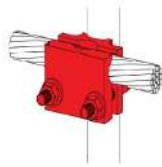
PART NUMBER	THEARD SIZE _(mm)	ROD DIAMETER _(mm)
AST2-16	M10	16
AST2-20	M14	20

Rod to Strand Clamp

Code: **ACG1**

Standard: BS EN 50164 , UL 467

The Rod To Strand Clamp when wire for earthing is used connects Earth Rods to stranded conductor.



PART NUMBER	WIRE SIZE(mm ²)	ROD DIAMETER(mm)	MATERIAL
ACG1	50-240	16-20	Brass

Rod to Strand Clamp

Code: **ACG2**

Standard: BS EN 50164 , UL 467

Rod To Tape Type Clamps (U Bolt Double Plate Type) join conductor tape to the earth electrode/rebar without the need to drill the tape.



PART NUMBER	WIRE SIZE(mm ²)	BELT SIZE(mm ²)	ROD DIAMETER(mm)	MATERIAL
ACG2	16 & 70	20*3	16 & 20	Brass
		25*3		
		30*3		

Rod to Strand Clamp

Code: **ACG3**

Standard: BS EN 50164 , UL 467

Rod To Cable Clamps are used to join various sizes of cable to the earth electrode.



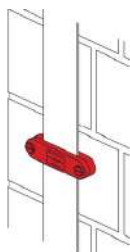
PART NUMBER	WIRE SIZE(mm ²)	ROD DIAMETER(mm)	MATERIAL
ACG3-16/70	16-70	16	Brass
ACG3-20/120	50-120	20	
ACG3-20/185	70-185	20	

Belt connection clamp

Code: ACB1

Standard: BS EN 50164

Metallic Clips are designed for securing lightning conductors to flat surfaces. They are suitable for use in Lightning Protection Systems.



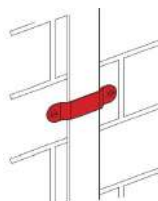
PART NUMBER	BELT SIZE(mm ²)	MATERIAL
ACB1-20*3	20*3	Brass
ACB1-25*3	25*3	Brass

Straps Clamp

Code: ACB2

Standard: BS EN 50164

Metal Tape Clips hold the lightning protection tape flush to the surface and are fixed using two screws. They are only suitable for use with bare tape.



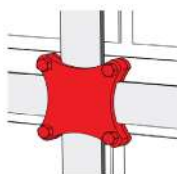
PART NUMBER	BELT SIZE(mm ²)	MATERIAL
ACB2-25*3	20*3 & 25*3	Copper & Steel
ACB2-30*3	30*3	
ACB2-50*5	50*5	

Square Clamps

Code: ACDB

Standard: BS EN 50164

Square Clamps are designed for a four-way connection and are suitable for crossing over tapes, straight through joints, or 'T' connections to form a continuous network of tapes. Countersunk hole in the base for fixing the clamp in place.



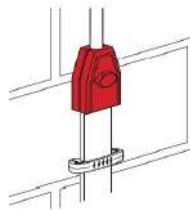
PART NUMBER	WIRE SIZE(mm ²)	MATERIAL
ACDB 20*3	20*3	Brass
ACDB 25*3	25*3	Brass
ACDB 30*3	30*3	Brass

Test Clamps

Code: ACWB1

Standard: BS EN 50164

Test Clamps form a disconnecting joint between either 8mm diameter and 8mm diameter lightning protection conductor or 8mm diameter and 25 x 3mm lightning protection conductor.



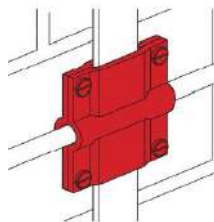
PART NUMBER	WIRE SIZE(mm ²)	BELT SIZE(mm ²)	MATERIAL
ACWB1-50/25*3	50	20*3 25*3	Brass
ACWB1-70/25*3	70		
ACWB1-95/25*3	95		
ACWB1-50/30*3	50	30*3	
ACWB1-70/30*3	70		
ACWB1-95/30*3	95		

Square Clamps (Flat to Circular Conductor)

Code: ACWB2

Standard: BS EN 50164

Square Clamps provide a four way connection and are suitable for crossing over tapes and cables in straight-through joints or 'T' connections to form a continuous cable network for the earthing or lightning protection system.



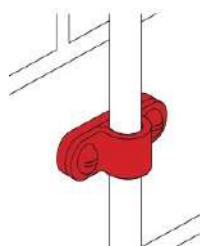
PART NUMBER	WIRE SIZE(mm ²)	BELT SIZE(mm ²)	MATERIAL
ACWB2 35/25*3	35	20*3 & 25*3	Brass
ACWB2 50/25*3	50	20*3 & 25*3	
ACWB2 70/25*3	70	20*3 & 25*3	
ACWB2 95/25*3	95	20*3 & 25*3	
ACWB2 120/25*3	120	20*3 & 25*3	

Heavy Duty Metallic Cable Sad

Code: ACW1

Standard: BS EN 50164

Heavy Duty Metallic Cable Saddles are suitable for use in both Lightning Protection and Earthing Systems.



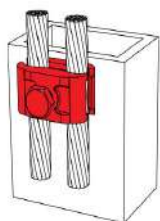
PART NUMBER	WIRE SIZE(mm ²)	MATERIAL
ACW1-35	35	Brass
ACW1-50	50	Brass
ACW1-70	70	Brass
ACW1-95	95	Brass
ACW1-120	120	Brass

Clamp connecting two wires in parallel

Code: ACW2

Standard: UL 467

Designed to provide low resistance parallel joints in solid circular conductor networks. Manufactured from high quality alloys of either copper or aluminium for excellent corrosion resistance



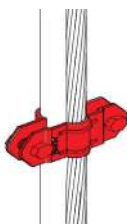
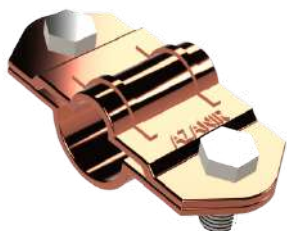
PART NUMBER	WIRE SIZE(mm ²)	TWIST SIZE(mm)	MATERIAL
ACW2-185	35-185	M10	Brass
ACW2-300	120-300	M12	Brass

Rod to wire clamp

Code: ACW3

Standard: BS EN 50164

Cross connector for round conductors and round conductor rod 8-10.



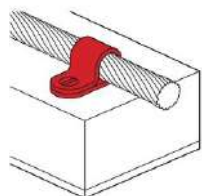
PART NUMBER	BELT SIZE(mm ²)	ROD DIAMETER(mm)	MATERIAL
ACW3	30*16	8	Copper
	30*16	10	

Cable Clips (Solid Circular Conductor)

Code: ACW4

Standard: BS EN 50164

Cable Clips are a simple solution for solid circular conductors to flat surfaces.



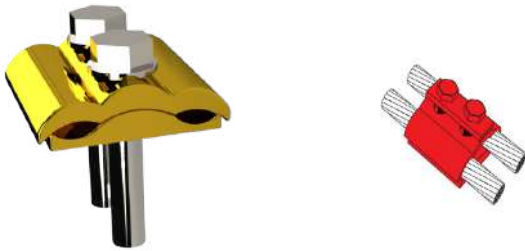
PART NUMBER	WIRE SIZE(mm ²)	MATERIAL
ACW4-16	16	Copper
ACW4-25	25	
ACW4-35	35	
ACW4-50	50	
ACW4-70	70	
ACW4-95	95	
ACW4-120	120	
ACW4-185	185	
ACW4-240	240	

Clamp connecting two wires in parallel

Code: ACPW1

Standard: UL 467

Designed to provide resistance parallel joints in solid circular conductor networks. Manufactured from high quality alloys of either copper or aluminium for excellent corrosion resistance.



PART NUMBER	WIRE SIZE(mm ²)	TWIST SIZE(mm)	MATERIAL
ACPW1-35/70	35-70	M6	Brass
ACPW1-95/185	95-185	M8	

Split Bolt Connectors

Code: ACPW2

Standard: UL 467

The SBC connecting clamp used to connect two parallel wires of different sections to each other. This clamp is produced from extruded ingots by machining method. In the production of all components of this product, a special copper alloy has been used.



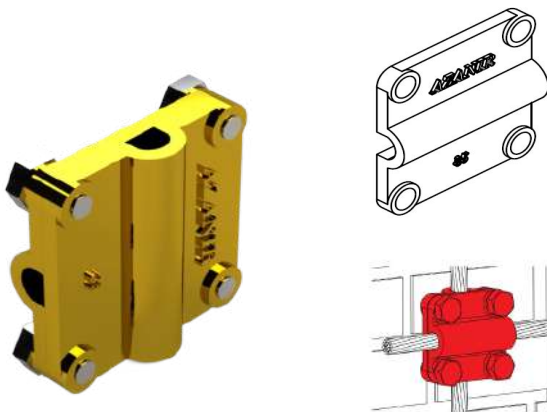
PART NUMBER	WIRE SIZE(mm ²)	MATERIAL
ACPW2-35	16-35	Brass
ACPW2-70	50-70	
ACPW2-120	95-120	
ACPW2-185	150-185	

Square Clamps (Circular Conductor)

Code: ACDW

Standard: UL 467

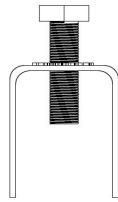
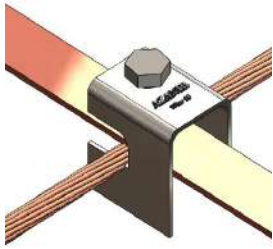
Square Clamps provide a four way connection and are suitable for crossing over lightning protection cables in straight through joints or 'T' connections to form a continuous cable network. Countersunk hole in the base for fixing the clamp in place.



PART NUMBER	WIRE SIZE(mm ²)	BELT SIZE(mm ²)	MATERIAL
ACDW 35&35	35	35	Brass
ACDW 35&50	35	50	
ACDW 35&70	35	70	
ACDW 35&95	35	95	
ACDW 35&120	35	120	
ACDW 50&50	50	50	
ACDW 50&70	50	70	
ACDW 50&95	50	95	
ACDW 50&120	50	120	
ACDW 70&70	70	70	
ACDW 70&95	70	95	
ACDW 70&120	70	120	
ACDW 95&95	95	95	
ACDW 95&120	95	120	
ACDW 120&120	120	120	

Connection terminal
Code: ACS1
Standard: BS EN 50164

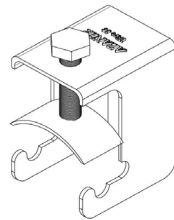
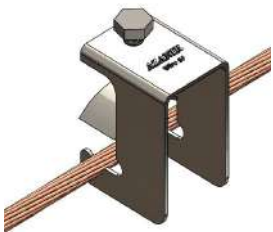
Connection terminal for reinforced steels with diameters 8-14 mm and flat 30x5.



PART NUMBER	WIRE SIZE(mm ²)	BELT SIZE(mm ²)	MATERIAL
ACS1	8-14	30*5	Steel

Connection terminal
Code: ACS2
Standard: BS EN 50164

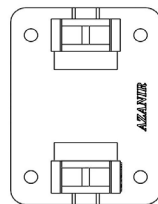
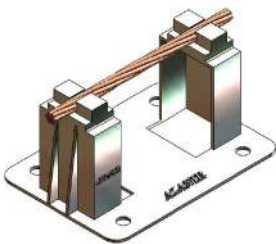
Connection terminal for larg reinforced steels with diameters 16-37 mm and round conductors and flat conductors.



PART NUMBER	WIRE SIZE(mm ²)	BELT SIZE(mm ²)	MATERIAL
ACS2	10	30*3-4	Steel

Roof conductor holder
Code: ACS3
Standard: BS EN 50164

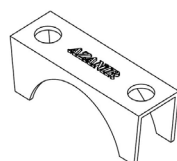
roof conductor holder for plastic film roofs. for flat roofs and round conductor rod 8 to 10.



PART NUMBER	WIRE SIZE(mm ²)	MATERIAL
ACS3	8-10	Steel

arrester base to the mast clamp
Code: ACS4
Standard: BS EN 50164

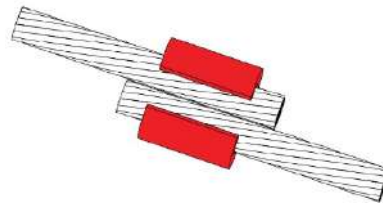
Connection terminal for reinforced steels with diameters 8-14 mm and flat 30x5.



PART NUMBER	ROD DIAMETER(in)	MATERIAL
ACS4	1-5	Steel

PART NUMBER	A (mm ²)	B (mm ²)
ACCP 11	6	6
ACCP 20	10	10
ACCP 26	16	10
ACCP 44		16
ACCP 44	25	10
		16
		25
ACCP 44	35	10
		16
		25
ACCP 60	35	25
ACCP 76		35
ACCP 76	50	10
		16
		25
		35
ACCP 98	70	50
ACCP 76		10
		16
		25
ACCP 98		35
	50	
	70	
ACCP 122	95	10
ACCP 98		16
		25
		35
ACCP 122		50
ACCP 154		70
ACCP 190	95	
ACCP 122	120	16
		25
		35
		50
		70
ACCP 240	150	95
		120
		16
ACCP 154	150	25
		35
		50
ACCP 190	150	70
ACCP 240		95
ACCP 288		120
		150
ACCP 154	185	16
		25
		35
		50
		70
ACCP 190	185	70
ACCP 240		95
ACCP 288		120
ACCP 365	185	150
		185
		16

Designed to provide resistance parallel joints in solid circular conductor networks. Manufactured from high quality alloys of either copper or aluminium for excellent corrosion resistance.



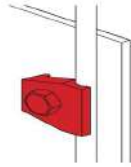
PART NUMBER	A (mm ²)	B (mm ²)
ACCP 240	240	16
		25
		35
		50
ACCP 288	240	70
		95
		120
ACCP 365	240	150
		185
ACCP 450	240	240
ACCP 365	300	6
		10
		16
		25
		35
ACCP 450	300	50
		70
		95
ACCP 560	300	120
		150
		185
ACCP 700	300	300

Tower Earth Clamps

Code: ASK

Standard: UL 467

Tower Earth Clamps are designed to bond either copper or aluminium conductor to flat metal surfaces.



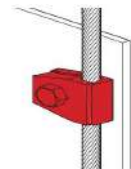
PART NUMBER	WIRE SIZE(mm ²)	TWIST SIZE(mm)	MATERIAL
ASK 70	35-70	M8*35	Brass
ASK 185	95-185	M10*40	Brass

Tower Earth Clamps

Code: ADSK

Standard: UL 467

Connection terminal for larg reinforced steels with diameters 16-37 mm and round conductors and flat conductors.



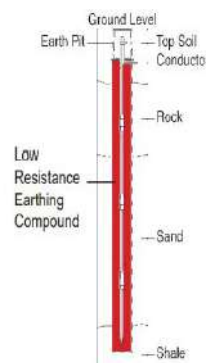
PART NUMBER	WIRE SIZE(mm ²)	TWIST SIZE(mm)	MATERIAL
ADSK 70	35-70	M8*40	Brass
ADSK 185	95-185	M10*50	Brass

Earth resistance reducing

Code: IGR

The use of this powder in reducing the electrical resistance of the ground, preventing corrosion of copper plate and earthing joints, which has a very high ability to transmit current and increases the discharge efficiency of the entire earth system. This reducing powder is free of any organic acids and anaerobic bacteria. Earth resistance reducing powder is an exclusive formulation that has been improved as a result of years of research and experience of the R&D team of technical and executive engineers and is offered to the market in the most difficult conditions to provide the best necessary conditions:

- Mountainous areas
- To rocky lands
- Rocky lands
- Dry desert sandy soils
- Wet sandy beaches
- Sandy lands





Compression Tube Lugs are manufactured from high conductive electrolytic copper and are tin plated for excellent corrosion resistance. We also supply Compression Tube Earth Lugs complete with two stud holes.

PART NUMBER	WIRE SIZE(mm ²)	HOLE SIZE(mm)
ACL 6/6	6	6
ACL 6/8		8
ACL 10/6	10	6
ACL 10/8		8
ACL 16/8	16	8
ACL 16/10		10
ACL 25/8	25	8
ACL 25/10		10
ACL 35/8	35	8
ACL 35/10		10
ACL 50/8	50	8
ACL 50/10		10
ACL 70/10	70	10
ACL 70/12		12
ACL 95/10	95	10
ACL 95/12		12
ACL 120/10	120	10
ACL 120/12		12
ACL 150/12	150	12
ACL 150/14		14
ACL 185/12	185	12
ACL 185/14		14
ACL 240/14	240	14
ACL 240/16		16

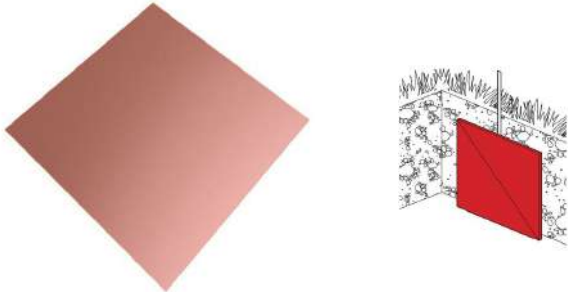
PART NUMBER	WIRE SIZE(mm ²)	CENTER TO CENTER(mm)	HOLE SIZE(mm)
ACLD 50/8-25	50	25	8
ACLD 50/8-40		40	8
ACLD 50/10-25		25	10
ACLD 50/10-40		40	10
ACLD 70/10-25	70	25	10
ACLD 70/10-40		40	10
ACLD 70/12-25		25	12
ACLD 70/12-40		40	12
ACLD 95/10-25	95	25	10
ACLD 95/10-40		40	10
ACLD 95/10-25		25	12
ACLD 95/10-40		40	12
ACLD 120/10-25	120	25	10
ACLD 120/10-40		40	10
ACLD 120/12-25		25	12
ACLD 120/12-40		40	12
ACLD 150/10-25	150	25	12
ACLD 150/10-40		40	12
ACLD 150/12-25		25	14
ACLD 150/12-40		40	14
ACLD 185/12-25	185	25	12
ACLD 185/12-40		40	12
ACLD 185/14-25		25	14
ACLD 185/14-40		40	14
ACLD 240/14-25	240	25	14
ACLD 240/14-40		40	14
ACLD 240/16-25		25	16
ACLD 240/16-40		40	16

Copper plate

Code: ACEP

Standard: BS EN 12163

Solid Copper Earth Plates are used as protective earth part of an earthing network. They provide a long lasting solution where it is not possible to use deep driven Earth Rods.



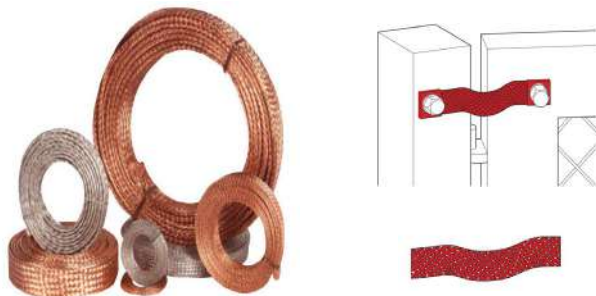
PART NUMBER	SIZE (mm ³)	MATERIAL
ACEP 503	500*500*3	Copper
ACEP 505	500*500*5	
ACEP 603	600*600*3	
ACEP 605	600*600*5	
ACEP 663	660*660*3	
ACEP 665	660*660*5	
ACEP 1063	1000*660*3	
ACEP 1065	1000*660*5	

Copper Tape

Code: ABE

Standard: BS EN 13602

Flexible copper bars is produced from annealed copper wire strands with a purity of over 99.9%.



PART NUMBER	BELT SIZE (mm ²)	LENGTH(mm)	MATERIAL
ABE 2022	20*2	200	Copper
ABE 2024		400	
ABE 2032	20*3	200	
ABE 2034		400	
ABE 2522	25*2	200	
ABE 2524		400	
ABE 2532	25*3	200	
ABE 2434		400	
ABE 3032	30*3	200	
ABE 3034		400	

Copper Tape

Code: ACOB

Standard: BS EN 13601

Copper Tape is embossed for identification and is manufactured from high conductivity annealed copper.



PART NUMBER	BELT SIZE (mm ²)	MATERIAL
ACOB 20*3	20*3	Copper
ACOB 25*3	25*3	
ACOB 30*3	30*3	
ACOB 50*5	50*5	
ACOB 60*5	60*5	

Copper earth wires

Code: ACC

Standard: BS EN 13602

Copper Cable (Bare stranded) is suitable for earthing applications.



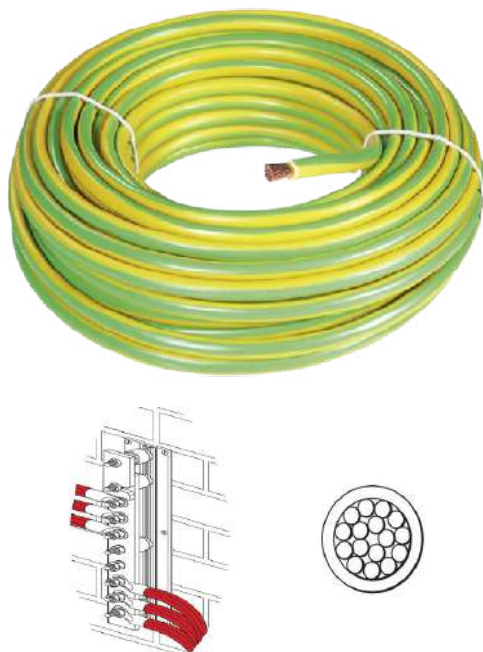
PART NUMBER	WIRE SIZE (mm ²)	MATERIAL
ACC 006	6	Copper
ACC 010	10	
ACC 016	16	
ACC 025	25	
ACC 035	35	
ACC 050	50	
ACC 070	70	
ACC 095	95	
ACC 120	120	
ACC 150	150	
ACC 185	185	
ACC 240	240	
ACC 300	300	

Copper earth cable

Code: AYGC

Standard: BS EN 60228

Stranded Copper Cable is used as earth continuity conductors, equipment tails etc. as part of an earthing system.



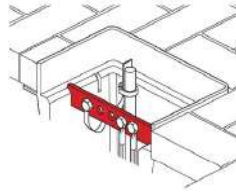
PART NUMBER	WIRE SIZE (mm ²)	MATERIAL
AYGC 006	6	Copper
AYGC 010	10	
AYGC 016	16	
AYGC 025	25	
AYGC 035	35	
AYGC 050	50	
AYGC 070	70	
AYGC 095	95	
AYGC 120	120	
AYGC 150	150	
AYGC 185	185	
AYGC 240	240	

Earth busbars

Code: ABET

Standard: BS EN 13601

Inspection Pit Earth Bars are used to facilitate testing of the earth electrode or earthing system.



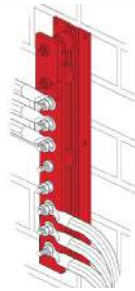
PART NUMBER	NUMBER OF HOLE(mm)	BELT SIZE(mm ³)	MATERIAL
ABET 2	4	160*30*3	Copper
ABET 3	5	200*30*3	
ABET 4	6	240*50*5	
ABET 5	7	280*50*5	
ABET 6	8	320*50*5	
ABET 8	10	400*50*5	
ABET 10	12	480*50*5	
ABET 12	14	560*50*5	

Earth terminals

Code: AET1

Standard: BS EN 13601

Earth Bars with a Single Disconnecting Link are supplied with a powder coated base and M10 connections as standard.



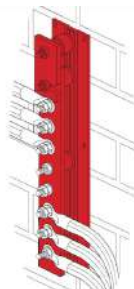
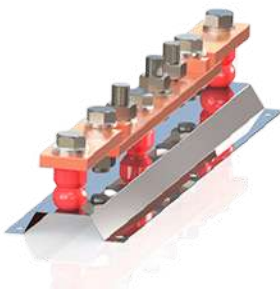
PART NUMBER	NUMBER OF HOLE(mm)	BELT SIZE(mm)	MATERIAL
AET1-2	2	160*30*3	Copper
AET1-3	3	200*30*3	
AET1-4	4	240*50*5	
AET1-5	5	280*50*5	
AET1-6	6	320*50*5	
AET1-8	8	440*50*5	
AET1-10	10	520*50*5	
AET1-12	12	600*50*5	

Earth terminals

Code: AET2

Standard: BS EN 13601

Earth Bars with Twin Disconnecting Links are supplied with a powder-coated base and M10 connections as standard.



PART NUMBER	NUMBER OF HOLE(mm)	BELT SIZE(mm)	MATERIAL
AET2-3/2	3	350*50*5	Copper
AET2-4/2	4	390*50*5	
AET2-5/2	5	430*50*5	
AET2-6/2	6	470*50*5	
AET2-8/2	8	590*50*5	
AET2-10/2	10	670*50*5	
AET2-12/2	12	750*50*5	

Lightning is one of the most mysterious phenomena of creation, which, while beautiful, is very destructive and has caused many financial and human losses throughout the history of human life. Lightning is caused by electrostatic discharge between the cloud and the ground.

In general, the lightning protection system is divided into two parts: external protection and internal protection:

External protection: a set of measures to prevent direct impact and reduce the damage caused by it (lightning protection system)

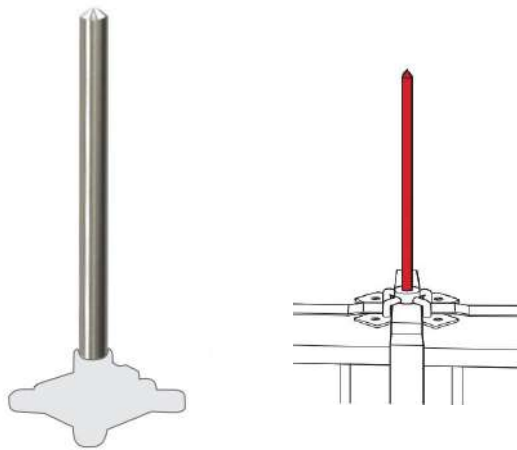
Internal protection: a set of measures to prevent the effects of discharge and transmission of lightning current (bonding and arresting)

Elevation Rods

Code: ALR

Standard: BS EN 50164 , UL 96

Elevation Rods are designed to be used with either the standard Air Terminal Base, Multi Purpose Base or the Side Mounted Brackets and the Multi-Point Air Terminal.



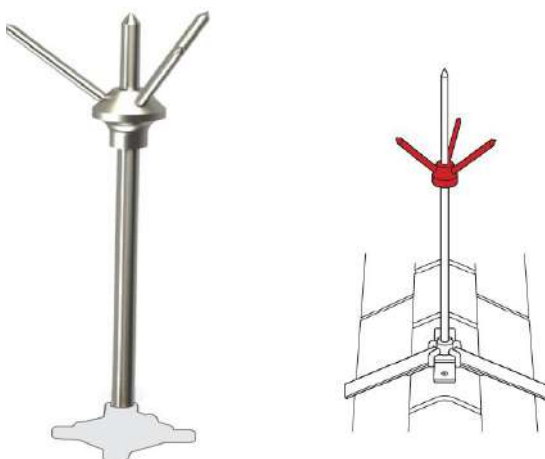
PART NUMBER	ROD LENGTH(mm)	ROD DIAMETER(mm)	MATERIAL
ALR 16/500	500	16	Steel
ALR 16/1000	1000	16	
ALR 16/1200	1200	16	
ALR 16/1500	1500	16	
ALR 16/2000	2000	16	
ALR 20/500	500	20	
ALR 20/1000	1000	20	
ALR 20/1200	1200	20	
ALR 20/1500	1500	20	
ALR 20/2000	2000	20	

Elevation Rods

Code: AMLR

Standard: BS EN 50164 , UL 96

Multi Points are designed to be used with the Elevation Rod and provide a traditional aesthetic appearance.



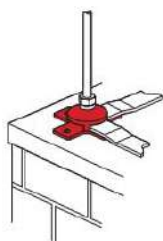
PART NUMBER	ROD LENGTH(mm)	ROD DIAMETER(mm)	MATERIAL
AMLR 16/500	500	16	Steel
AMLR 16/1000	1000	16	
AMLR 16/1200	1200	16	
AMLR 16/1500	1500	16	
AMLR 16/2000	2000	16	
AMLR 20/500	500	20	
AMLR 20/1000	1000	20	
AMLR 20/1200	1200	20	
AMLR 20/1500	1500	20	
AMLR 20/2000	2000	20	

Surge arrester holders

Code: ACSH

Standard: BS EN 50164

Terminal Bases are designed to be used with Azanir Air Terminals and Elevation Rods as part of a traditional lightning protection system.



PART NUMBER	BELT SIZE(mm ²)	THREAD SIZE(mm)	ROD DIAMETER(mm)	WIRE SIZE(mm ²)
ACSH16/25*3	20*3	M16	16	35
ACSH 16/25*3	25*3	M16		
ACSH 16/30*3	30*3	M16		
ACSH20/25*3	20*3	M20	20	
ACSH 20/25*3	25*3	M20		
ACSH 20/30*3	30*3	M20		

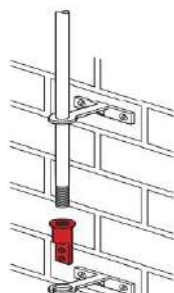
Surge arrester holders

Code: ASSH

Standard: BS EN 50164

Side Mounted Rod Brackets are designed to be installed to the side of the building where it is not possible to fit a conventional Air Terminal Base.

Rod To Tape Couplers is used in conjunction with Side Mounted Brackets.



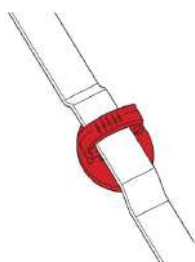
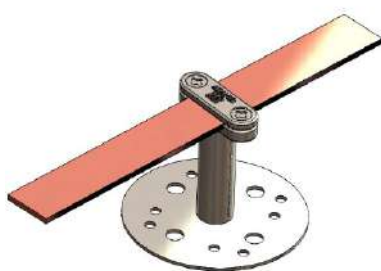
PART NUMBER	HOLDER SIZE(mm)	ROD DIAMETER(mm)	MATERIAL
ASSH 16	16	16	Steel
ASSH 20	20	20	

Back Plate Holdfasts

Code: ARCH

Standard: BS EN 50164

Back Plate Holdfasts maintain a set distance of 75mm between the lightning protection conductor and the surface of the structure being protected (when required).

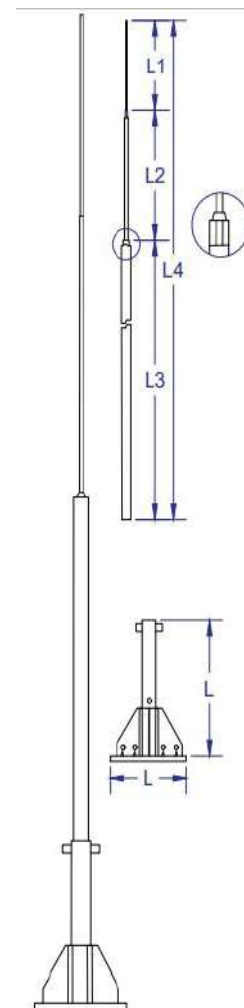
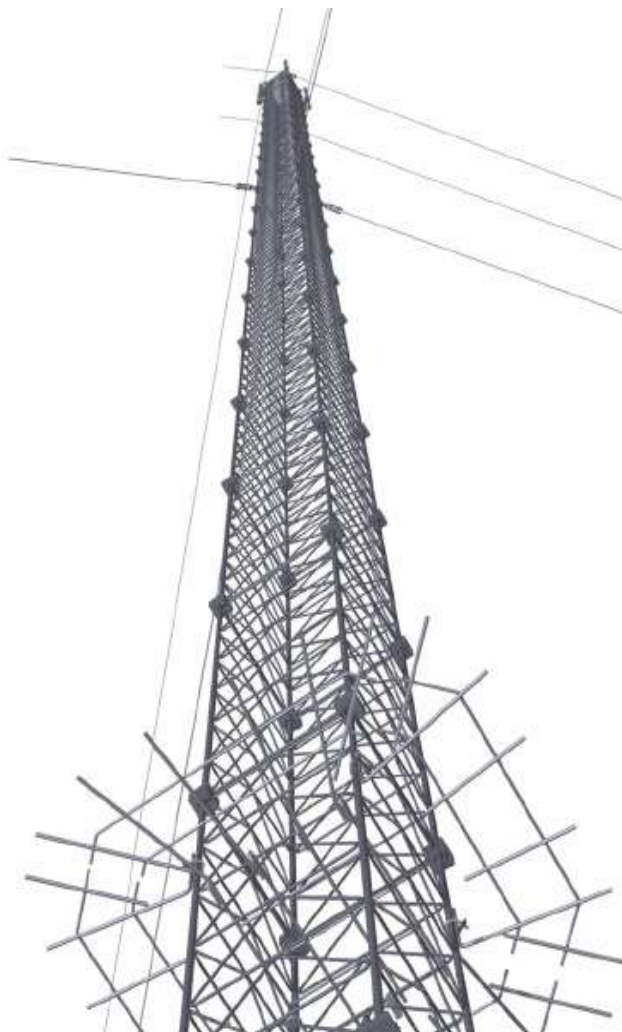


PART NUMBER	INSTALLATION HEIGHT(mm)	ROD DIAMETER(mm)	MATERIAL
ARCH 60	60	8-10	Steel
ARCH 100	100	8-10	

These masts are made of steel pipes and are heated according to the ASTM A123 standard galvanized.



PART NUMBER	MODEL	HEGHT _(mm)	TYPE OF STRUCTURE	TYPE
STT	Telescopic	2-8	Pipe	
ST3L	Tripod	6-60	Pipe and corner	Self static
ST4L	Stool	24-160	corner	
MTT	Telescopic	12-36	Plate	Monopol
MMDT	Multi dimensional	12-36	Plate	
GT3	Three faced	3-140	Rebar pipe	Inhibition
GT4	Tetrahedron	3-140	Rebar pipe	



Combustion welding is a type of welding that is used in building earthing systems. This welding model is applicable for connecting copper wire in different sizes to different types of copper rods, earth plate, structure, reinforcement and pipe to each other and its equipment is easily portable.



Back Plate Holdfasts

Code: ARCH

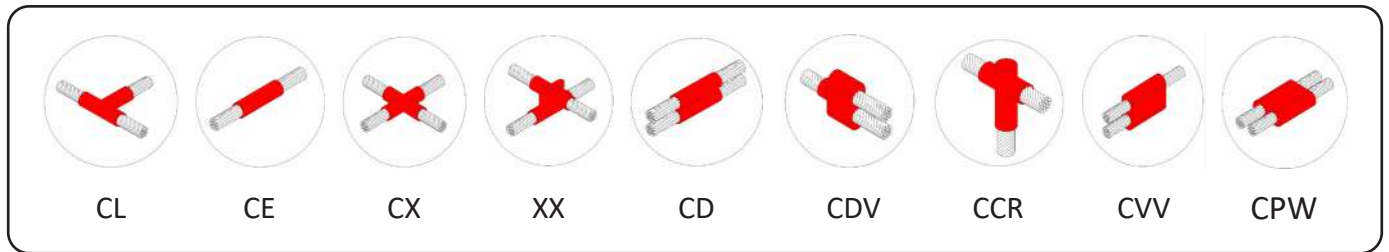
Standard: BS EN 50164

Welding powder or cod powder is a mixture of aluminum powder and copper oxide that is packaged in different weights and the weight of the welding powder depends on the size of the cod mold.

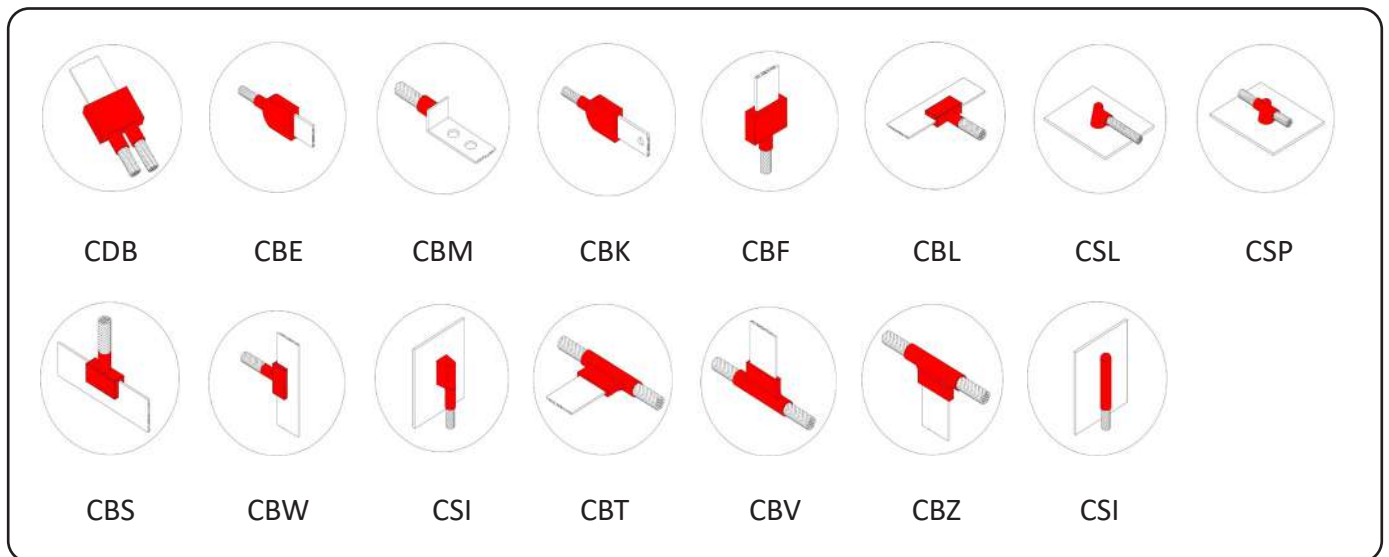


PART NUMBER	Number in the box	Weight of powder (gr)
AP-32	12	32
AP-45	12	45
AP-65	12	65
AP-90	12	90
AP-115	12	115
AP-150	12	150
AP-200	12	200
AP-250	12	250
AP-10000	1	10000

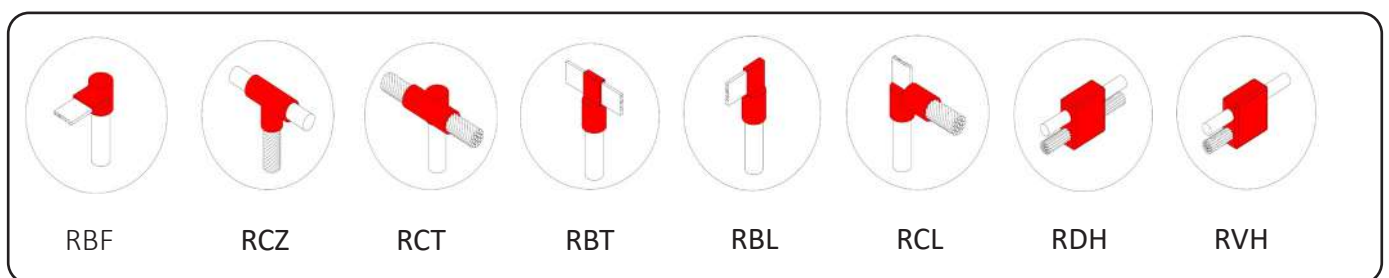
Weld wire to wire



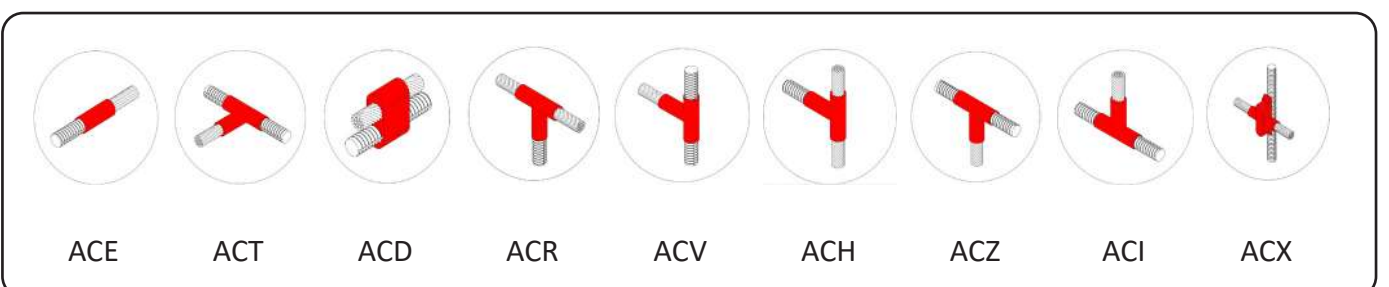
Weld the wire to the strap and plate



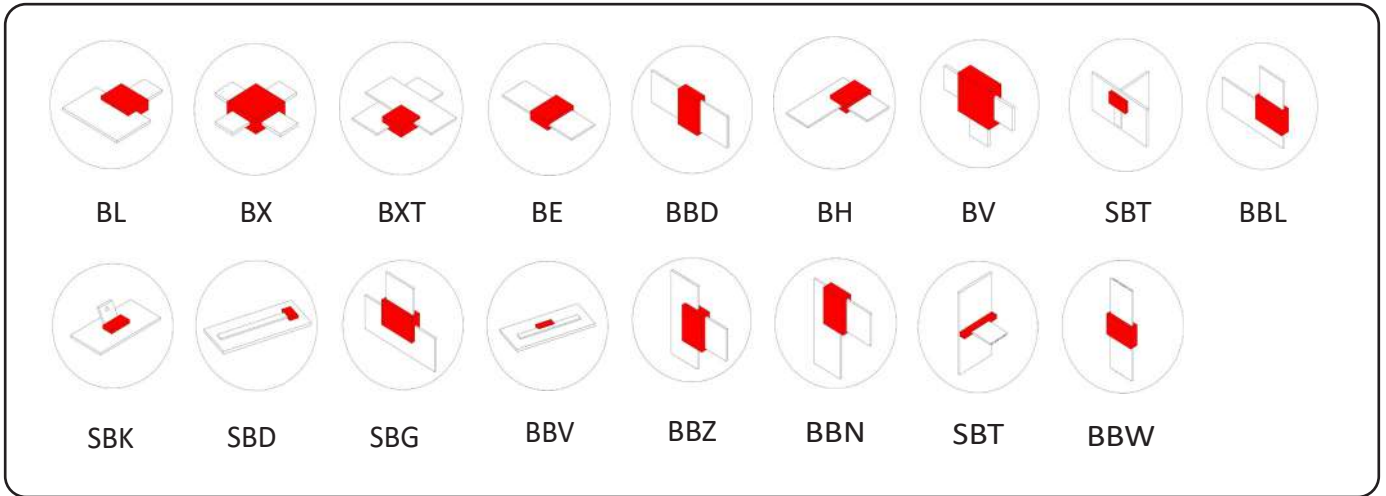
Weld the wire and strap to the ground rod



Weld the wire to the armature



Weld the straps to the straps and plate

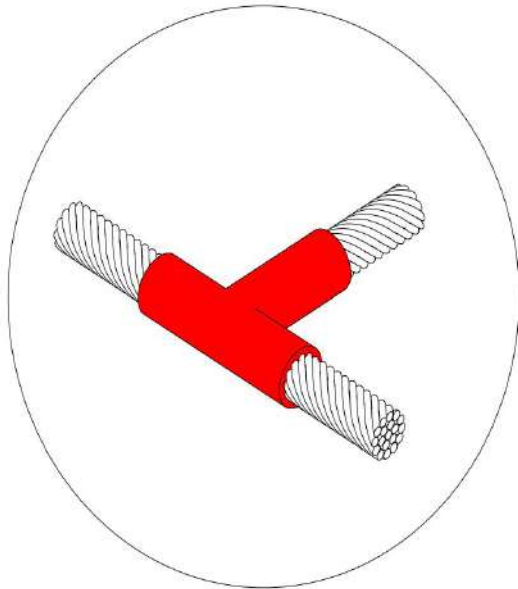


Weld the wire to the pipe



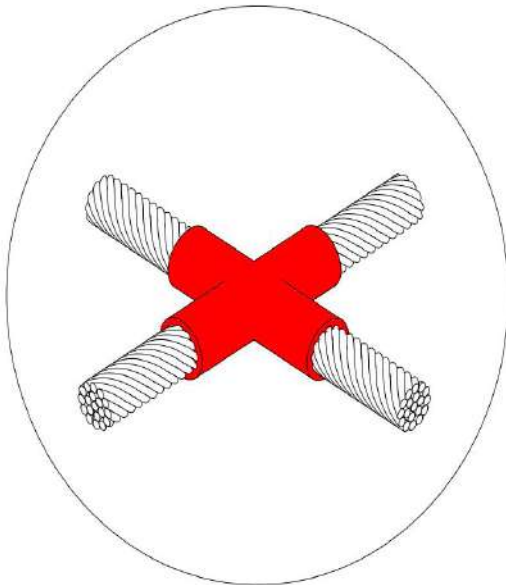
Table for determining the amount of powder, knobs and molds

CSI				BE				
PART NUMBER	Weight of powder _(gr)	A _(mm²)	Knob code	PART NUMBER	Weight of powder _(gr)	A _(mm)	B _(mm)	Knob code
CSI 25	65	25	HC 60	BE 20*3/20*3	65	20*3	20*3	HC 80
CSI 35	65	35		BE 25*3/25*3	65	25*3	25*3	
CSI 50	90	50		BE 25*5/25*5	90	25*5	25*5	
CSI 70	90	70		BE 30*3/30*3	90	30*3	30*3	
CSI 95	115	95	HC 80	BE 30*5/30*5	115	30*5	30*5	
CSI 120	115	120		BE 40*3/40*3	90	40*3	40*3	
CSI 150	150	150		BE 40*5/40*5	150	40*5	40*5	
CSI 185	200	185		BE 40*10/40*10	2*150	40*10	40*10	
CSI 240	250	240						



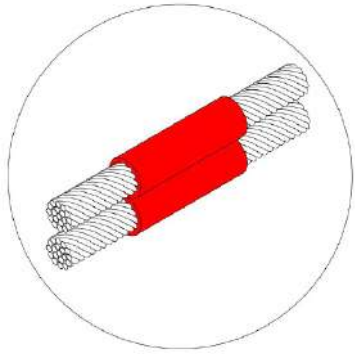
CL

PART NUMBER	Weight of powder _(gr)	A(mm ²)	B(mm ²)	Knob code
CL 16/16	45	16	16	HC 60
CL 25/16	45	25	16	HC 60
CL 25/25	45		25	
CL 35/16	45		16	
CL 35/25	45	35	25	HC 60
CL 35/35	65		35	
CL 50/16	65		16	
CL 50/25	65	50	25	HC 60
CL 50/35	65		35	
CL 50/50	90		50	
CL 70/25	65		25	
CL 70/35	65		35	
CL 70/50	90	70	50	HC 60
CL 70/70	90		70	
CL 70/95	90		95	
CL 95/25	90		25	
CL 95/35	90		35	
CL 95/50	90	95	50	HC 60
CL 95/70	90		70	
CL 95/95	115		95	
CL 95/120	150		120	HC 80
CL 120/25	90		25	
CL 120/35	90		35	HC 60
CL 120/50	90	120	50	
CL 120/70	90		70	
CL 120/95	115		95	HC 80
CL 120/120	150		120	
CL 150/35	115		35	
CL 150/50	115		50	
CL 150/70	115		70	
CL 150/95	150	150	95	HC 80
CL 150/120	150		120	
CL 150/150	200		150	
CL 150/185	200		185	
CL 185/35	115		35	
CL 185/50	115		50	
CL 185/70	150		70	
CL 185/95	150	185	90	HC 80
CL 185/120	200		120	
CL 185/150	200		150	
CL 185/185	200		185	
CL 240/35	150		35	
CL 240/50	150		50	
CL 240/70	150		70	
CL 240/95	150	240	95	HC 80
CL 240/120	200		120	
CL 240/150	200		150	
CL 240/185	250		185	
CL 240/240	2*150+45		240	

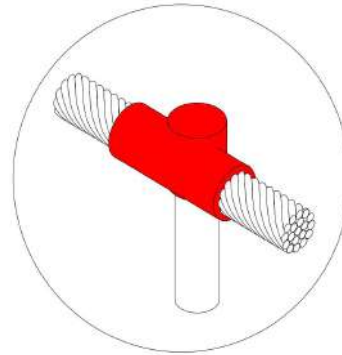


CX

PART NUMBER	Weight of powder _(gr)	A _(mm²)	B _(mm²)	Knob code
CX 16/16	45	16	16	HC 60
CX 25/16	45	25	16	HC 60
CX 25/25	45		25	
CX 35/16	65		16	
CX 35/25	65	35	25	HC 60
CX 35/35	65		35	
CX 50/16	90		16	
CX 50/25	90	50	25	HC 60
CX 50/35	90		35	
CX 50/50	90		50	
CX 70/25	115		25	
CX 70/35	115		35	
CX 70/50	115	70	50	HC 60
CX 70/70	115		70	
CX 70/95	150		95	
CX 95/25	115		25	
CX 95/35	115		35	
CX 95/50	115	95	50	HC 60
CX 95/70	150		70	
CX 95/95	150		95	
CX 95/120	200		120	HC 80
CX 120/25	115		25	
CX 120/35	115		35	
CX 120/50	150	120	50	HC 80
CX 120/70	150		70	
CX 120/95	200		95	
CX 120/120	200		120	
CX 150/35	150		35	
CX 150/50	150		50	
CX 150/70	150		70	
CX 150/95	200	150	95	HC 80
CX 150/120	250		120	
CX 150/150	250		150	
CX 150/185	250		185	
CX 185/35	115		35	
CX 185/50	200		50	
CX 185/70	200		70	
CX 185/95	200	185	90	HC 80
CX 185/120	250		120	
CX 185/150	250		150	
CX 185/185	150+115		185	
CX 240/35	200		35	
CX 240/50	250		50	
CX 240/70	250		70	
CX 240/95	250	240	95	HC 80
CX 240/120	150+115		120	
CX 240/150	2*150		150	
CX 240/185	2*150		185	
CX 240/240	2*150		240	



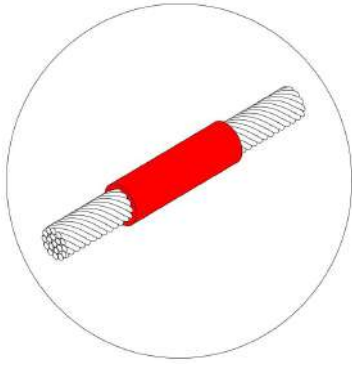
CD



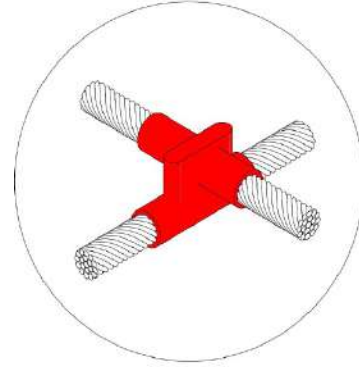
RCT

PART NUMBER	Weight of powder _(gr)	A _(mm²)	B _(mm²)	Knob code
CD 16/16	65	16	16	HC 60
CD 25/16	65	25	16	HC 60
CD 25/25	65	25	25	HC 60
CD 35/16	65	35	16	HC 60
CD 35/25	65	35	25	HC 60
CD 35/35	65	35	35	HC 60
CD 50/16	65	50	16	HC 60
CD 50/25	65	50	25	HC 60
CD 50/35	95	50	35	HC 80
CD 50/50	115	50	50	HC 80
CD 70/25	90	70	25	HC 80
CD 70/35	90	70	35	HC 80
CD 70/50	115	70	50	HC 80
CD 70/70	115	70	70	HC 80
CD 95/25	115	95	25	HC 80
CD 95/35	115	95	35	HC 80
CD 95/50	115	95	50	HC 80
CD 95/70	150	95	70	HC 80
CD 95/95	150	95	95	HC 80
CD 120/25	150	120	25	HC 80
CD 120/35	150	120	35	HC 80
CD 120/50	150	120	50	HC 80
CD 120/70	150	120	70	HC 80
CD 120/95	200	120	95	HC 80
CD 120/120	250	120	120	HC 80
CD 150/70	150	150	70	HC 80
CD 150/95	200	150	95	HC 80
CD 150/120	200	150	120	HC 80
CD 150/150	250	150	150	HC 80
CD 185/50	150	185	50	HC 80
CD 185/70	150	185	70	HC 80
CD 185/95	200	185	90	HC 80
CD 185/120	200	185	120	HC 80
CD 185/150	250	185	150	HC 80
CD 185/185	250	185	185	HC 80
CD 240/70	200	240	70	HC 80
CD 240/95	250	240	95	HC 80
CD 240/120	250	240	120	HC 80
CD 240/150	2*150	240	150	HC 80
CD 240/185	2*150	240	185	HC 80
CD 240/240	2*150	240	240	HC 80

PART NUMBER	Weight of powder _(gr)	A _(mm²)	B _(mm²)	Knob code
RCT 14.5/16	115	14.5	16	HC 80
RCT 14.5/35	115	14.5	35	HC 80
RCT 14.5/50	115	14.5	50	HC 80
RCT 14.5/70	115	14.5	70	HC 80
RCT 14.5/95	115	14.5	95	HC 80
RCT 14.5/120	150	14.5	120	HC 80
RCT 14.5/150	200	14.5	150	HC 80
RCT 14.5/185	200	14.5	185	HC 80
RCT 14.5/240	200	14.5	240	HC 80
RCT 16/16	115	16	16	HC 80
RCT 16/35	115	16	35	HC 80
RCT 16/50	115	16	50	HC 80
RCT 16/70	115	16	70	HC 80
RCT 16/95	115	16	95	HC 80
RCT 16/120	150	16	120	HC 80
RCT 16/150	200	16	150	HC 80
RCT 16/185	200	16	185	HC 80
RCT 16/240	200	16	240	HC 80
RCT 17.5/16	115	17.5	16	HC 80
RCT 17.5/35	115	17.5	35	HC 80
RCT 17.5/50	115	17.5	50	HC 80
RCT 17.5/70	115	17.5	70	HC 80
RCT 17.5/95	115	17.5	95	HC 80
RCT 17.5/120	150	17.5	120	HC 80
RCT 17.5/150	200	17.5	150	HC 80
RCT 17.5/185	200	17.5	185	HC 80
RCT 17.5/240	250	17.5	240	HC 80
RCT 20/16	115	20	16	HC 80
RCT 20/35	115	20	35	HC 80
RCT 20/50	115	20	50	HC 80
RCT 20/70	115	20	70	HC 80
RCT 20/95	115	20	95	HC 80
RCT 20/120	150	20	120	HC 80
RCT 20/150	200	20	150	HC 80
RCT 20/185	200	20	185	HC 80
RCT 20/240	250	20	240	HC 80



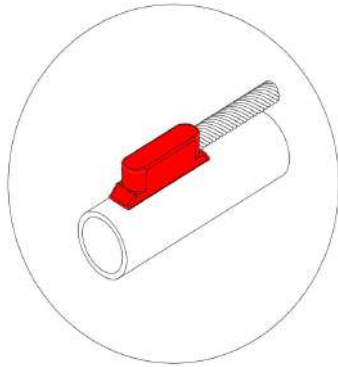
CE



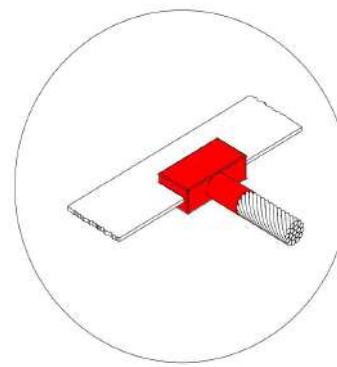
XX

PART NUMBER	Weight of powder(gr)	A(mm ²)	B(mm ²)	Knob code
CE 16/16	32	16	16	HC 60
CE 25/16	32	25	16	HC 60
CE 25/25	32		25	
CE 35/16	45	35	16	HC 60
CE 35/25	45		25	
CE 35/35	45		35	
CE 50/16	45	50	16	HC 60
CE 50/25	45		25	
CE 50/35	45		35	
CE 50/50	45		50	
CE 70/25	65		70	
CE 70/35	65	35		
CE 70/50	65	50		
CE 70/70	65	70		
CE 95/25	65	95		25
CE 95/35	65		35	
CE 95/50	65		50	
CE 95/70	90		70	
CE 95/95	90		95	
CE 120/25	90		120	25
CE 120/35	90	35		
CE 120/50	90	50		
CE 120/70	115	70		
CE 120/95	115	95		
CE 120/120	115	120		
CE 150/70	115	150		70
CE 150/95	115		95	
CE 150/120	115		120	
CE 150/150	115		150	
CE 185/50	115	185	50	HC 80
CE 185/70	115		70	
CE 185/95	115		95	
CE 185/120	150		120	
CE 185/150	150		150	
CE 185/185	150		185	
CE 240/70	150		240	
CE 240/90	150	90		
CE 240/120	200	120		
CE 240/150	200	150		
CE 240/185	200	185		
CE 240/240	200	240		

PART NUMBER	Weight of powder(gr)	A(mm ²)	B(mm ²)	Knob code
XX 16/16	115	16	16	HC 80
XX 25/16	115	25	16	HC 80
XX 25/25	115		25	
XX 35/16	115	35	16	HC 80
XX 35/25	115		25	
XX 35/35	115		35	
XX 50/16	115	50	16	HC 80
XX 50/25	115		25	
XX 50/35	115		35	
XX 50/50	150		50	
XX 70/25	115		70	
XX 70/35	150	35		
XX 70/50	150	50		
XX 70/70	150	70		
XX 95/25	200	95		25
XX 95/35	200		35	
XX 95/50	200		50	
XX 95/70	200		70	
XX 95/95	200		95	
XX 120/25	250		120	25
XX 120/35	250	35		
XX 120/50	250	50		
XX 120/70	250	70		
XX 120/95	250	95		
XX 120/120	250	120		
XX 150/70	250	150		70
XX 150/95	300		95	
XX 150/120	300		120	
XX 150/150	300		150	
XX 185/50	250	185	50	HC 80
XX 185/70	250		70	
XX 185/95	300		95	
XX 185/120	300		120	
XX 185/150	300		150	
XX 185/185	2*150+32		185	
XX 240/70			240	
XX 240/90		90		
XX 240/120		120		
XX 240/150		150		
XX 240/185		185		
XX 240/240		240		



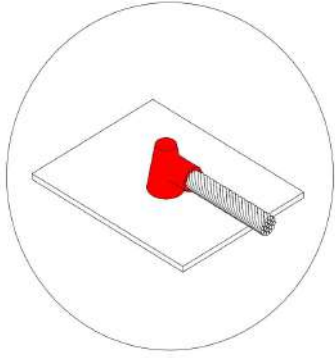
PC



CBL

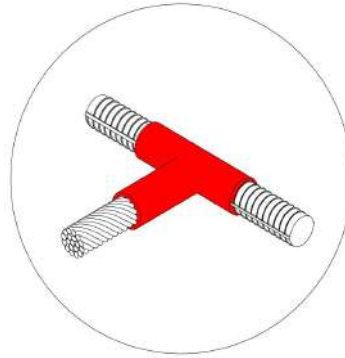
PART NUMBER	Weight of powder _(gr)	A _(mm²)	B _(mm)	Knob code
Pc 16/002	32	16	2	Included
Pc 16/004	32		4	
Pc 16/006	32		6	
Pc 16/008	32		8	
Pc 16/010	32		10	
Pc 16/012	32		12	
Pc 16/018	32		18	
Pc 16/020	32		20	
Pc 16/024	32		24	
Pc 16/034	32		34	
Pc 16/040	32		40	
Pc 25/002	32		25	
Pc 25/004	32	4		
Pc 25/006	32	6		
Pc 25/008	32	8		
Pc 25/010	32	10		
Pc 25/012	32	12		
Pc 25/018	32	18		
Pc 25/020	32	20		
Pc 25/024	32	24		
Pc 25/034	32	34		
Pc 25/040	32	40		
Pc 35/002	32	35		2
Pc 35/004	32		4	
Pc 35/006	32		6	
Pc 35/008	32		8	
Pc 35/010	32		10	
Pc 35/012	32		12	
Pc 35/018	32		18	
Pc 35/020	32		20	
Pc 35/024	32		24	
Pc 35/034	32		34	
Pc 35/040	32		40	
Pc 50/002	32		50	2
Pc 50/004	32	4		
Pc 50/006	32	6		
Pc 50/008	32	8		
Pc 50/010	32	10		
Pc 50/012	32	12		
Pc 50/018	32	18		
Pc 50/020	32	20		
Pc 50/024	32	24		
Pc 50/034	32	34		
Pc 50/040	32	40		

PART NUMBER	Weight of powder _(gr)	A _(mm²)	B _(mm)	Knob code
CBL 16/20*3	90	16	20*3	HC 80
CBL 16/25*3	90		25*3	
CBL 25/20*3	90	25	20*3	HC 80
CBL 25/20*5	90		20*5	
CBL 25/25*3	90	25*3		
CBL 35/20*3	90	35	20*3	HC 80
CBL 35/20*5	90		20*5	
CBL 35/25*3	90	25*3		
CBL 50/20*3	90	50	20*3	HC 80
CBL 50/20*5	90		20*5	
CBL 50/25*3	90		25*3	
CBL 50/30*3	90		30*3	
CBL 50/40*3	90		40*3	
CBL 50/40*5	90		40*5	
CBL 70/20*3	90	70	20*3	HC 80
CBL 70/20*5	90		20*5	
CBL 70/25*3	90		25*3	
CBL 70/30*3	90		30*3	
CBL 70/40*3	90		40*3	
CBL 70/40*5	90		40*5	
CBL 95/20*3	90	95	20*3	HC 80
CBL 95/25*3	90		25*3	
CBL 95/30*3	90		30*3	
CBL 95/40*5	90		40*5	
CBL 95/50*5	90		50*5	
CBL 120/25*5	90	120	25*5	HC 80
CBL 120/30*5	90		30*5	
CBL 120/50*5	90		50*5	
CBL 120/25*10	90		25*10	
CBL 120/30*10	90		30*10	
CBL 120/40*10	90		40*10	



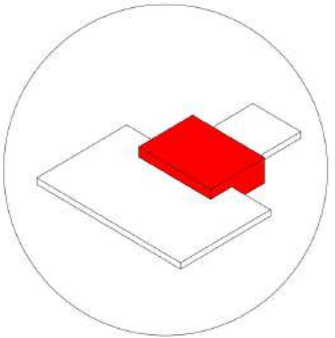
CSL

PART NUMBER	Weight of powder _(gr)	A _(mm²)	Knob code
CSL 25	65	16	Included
CSL 35	65	25	
CSL 50	90	35	
CSL 70	115	50	
CSL 95	115	70	
CSL 120	115	95	



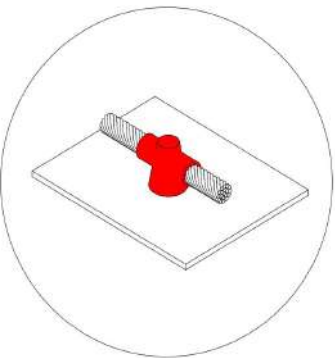
ACT

PART NUMBER	Weight of powder _(gr)	A _(mm²)	B _(mm²)	Knob code
ACT 10/16	90	Ø10	16	HC 80
ACT 10/25	90		25	
ACT 10/35	90		35	
ACT 10/50	115		50	
ACT 10/70	115		70	
ACT 10/95	115		95	
ACT 16/16	115	Ø16	16	HC 80
ACT 16/25	115		25	
ACT 16/35	150		35	
ACT 16/50	150		50	
ACT 16/70	150		70	
ACT 16/95	200		95	
ACT 20/16	150	Ø20	16	HC 80
ACT 20/25	150		25	
ACT 20/35	150		35	
ACT 20/50	200		50	
ACT 20/70	200		70	
ACT 20/95	200		95	
ACT 20/120	250	120		
ACT 22/16	150	Ø22	16	HC 80
ACT 22/25	150		25	
ACT 22/35	200		35	
ACT 22/50	250		50	
ACT 22/70	300		70	
ACT 22/95	350		95	
ACT 22/120	350	120		



BL

PART NUMBER	Weight of powder _(gr)	A _(mm)	B _(mm)	Knob code
BL 20*3/20*3	90	20*3	20*3	HC 80
BL 25*3/25*3	90	25*3	25*3	
BL 25*5/25*5	115	25*5	25*5	
BL 30*3/30*3	115	30*3	30*3	
BL 30*5/30*5	150	30*5	30*5	
BL 40*5/40*5	150	40*5	40*5	



CSP

PART NUMBER	Weight of powder _(gr)	A _(mm²)	Knob code
CSP 25	115	25	Included
CSP 35	115	35	
CSP 50	150	50	
CSP 70	150	70	
CSP 95	150	95	
CSP 120	200	120	
CSP 185	250	185	



- ▶ **Consultant**
- ▶ **Designer**
- ▶ **Executor**
- ▶ **Supplier and Manufacturer of Equipment of Earthing**
- ▶ **Lightning & Surge Protection Systems**

✉ info@azanir.com

🌐 www.azanir.com

☎ **021-86035069**

021-66476072

📍 **unit 9, 4th floor No 82, Nazari st, Fakhre Razi St, Enghelab Ave, Tehran, Iran.**

📷 **azanirco**