



Industrial Cable
Management
Systems Co.

“Speciality Is  Our Strength”

Earthing & Lightning Protection (Product Catalogue)

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Who We Are?

In an electrically powered world, the proper functioning of electrical systems is more than a convenience, it is a matter of safety. To maintain electrical safety, lightning protection and grounding systems are essential. ICMS has been a trusted leader in the industry of cable management products for over 17 years. Our commitment to quality, safety, and innovation sets us apart in the field of Earthing and Lightning Protection Systems. We offer the most cost-effective earthing and lightning products, designed to dissipate high-magnitude fault currents by using short, direct, and low-resistive paths.

ICMS provides a wide range of copper earthing materials, including air termination systems, earth rods, copper tapes, earth bars, exothermic welding, and others, all specifically designed for various applications. Our goal is to empower industries, businesses, and homes with robust systems capable of withstanding electrical uncertainty. With advanced manufacturing facilities and highly qualified professionals, we ensure that we provide superior-quality products that exceed expectations.

Our team at ICMS can assist in calculating the risk of lightning strikes within tolerable limits based on the international standards. Due to our expertise, we are capable of offering customers the most cost-effective solution in combination with other lightning protection management strategies.

ICMS- 'Ensure Safety in an Electrifying World'.



2 Lightning Protection

- 2.1 Direct lightning protection
- 2.2 Down conductors
- 2.3 Conductor clamps
- 2.4 Free standing air terminal

Lightning is one of the natural phenomena on earth formed by electrostatic discharges through the atmosphere between opposite charges of the thunderstorm cloud or between opposite charges in the cloud and on the ground. The air's insulating capacity breaks down when enough opposite charges build up, causing a rapid discharge of electricity. Lightning protection systems intercept lightning strikes, provide a conductive path for the harmful electrical discharge to follow, and disperse the energy safely into the ground.

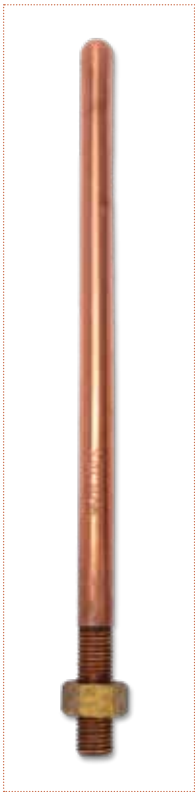
- BS EN 62561 Part 1: Requirements for connection components
- BS EN 62561 Part 2: Requirements for conductors and earth electrodes
- BS EN 62561 Part 3: Requirements for isolating spark gaps / BS
- EN 62561 Part 4: Requirements for conductor fasteners /
- BS EN 62561 Part 5: Requirements for earth electrode inspection / housing and earth electrode seals
- BS EN 62561 Part 6: Requirements for lightning strike counters
- BS EN 62561 Part 7: Requirements for earthing enhancing compounds
- BS EN 50164 Part 2: Requirements for conductors and earth electrodes
- IEC 62305 Part 2: Risk Management
- IEC 62305 Part 3: Physical damage to structures and life hazard / QCS2014

2.1 Direct Lightning Protection

2.1.1 Air terminal rod

Air terminal rod are designed to capture the lightning strike to a preferred point, so as to ensure that the discharge current can be safely directed via the down conductors to the dedicated earthing system. Air rods are externally threaded with knurling to fix multiple point. Air rods are manufactured from high conductivity EC grade Copper (99.9 % purity) & Aluminium.

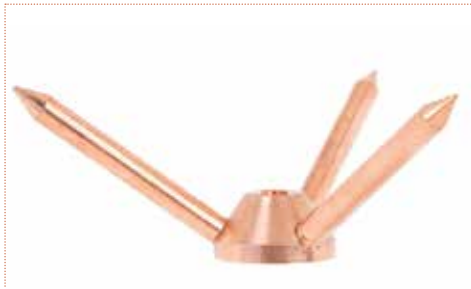
Part Number	Rod Length	Thread Size	Material
AR005	500mm	M16	Copper
AR010	1000mm	M16	Copper
AR015	1500mm	M16	Copper
AR020	2000mm	M16	Copper
AR030	3000mm	M16	Copper
AR005-ALU	500mm	M16	Aluminium
AR010-ALU	1000mm	M16	Aluminium
AR015-ALU	1500mm	M16	Aluminium
AR020-ALU	2000mm	M16	Aluminium
AR030-ALU	3000mm	M16	Aluminium
AR020-ALU	2000mm	M16	Aluminium



2.1.2 Air termination-multiple point

It is designed to provide multiple points of air terminals that help in distributing the lightning strike over a larger area, reducing the chances of damage to the structure.

Part Number	Air Rod Diameter	Material
ARM001	Ø 16mm	Copper
ARM002	Ø 16mm	Aluminium



2.1.3 Air terminal Base

It is used for supporting air rod and to accommodate conductor tape on a flat surface for lightning protection. Manufactured from high quality copper alloys and it is mechanically strong.

Part Number	Rod Length	Maximum conductor width	Material
ARB001	Ø 16mm	25mm	Copper Alloy
ARB001-ALU	Ø 16mm	25mm	Aluminium Alloy



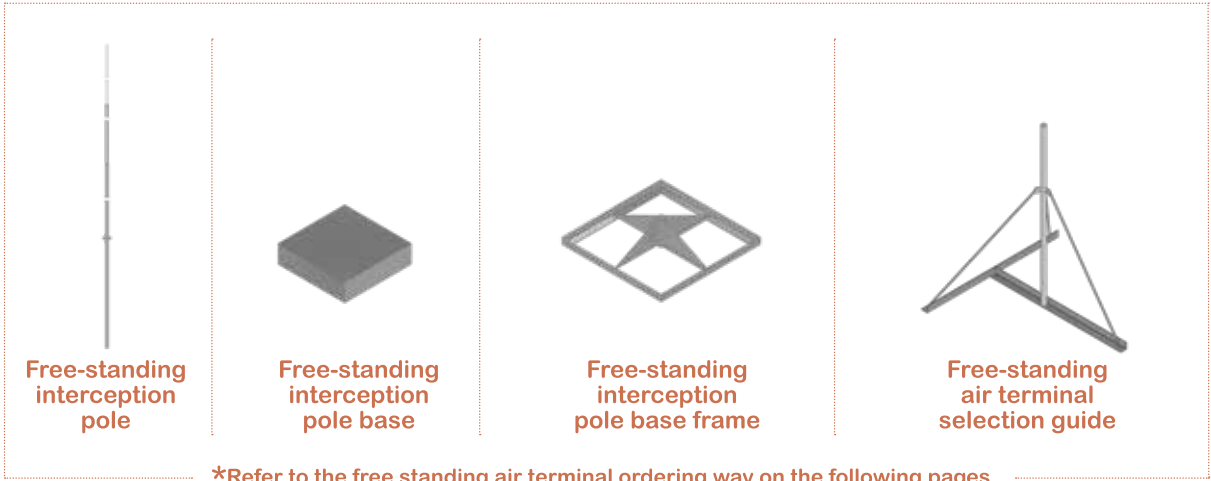
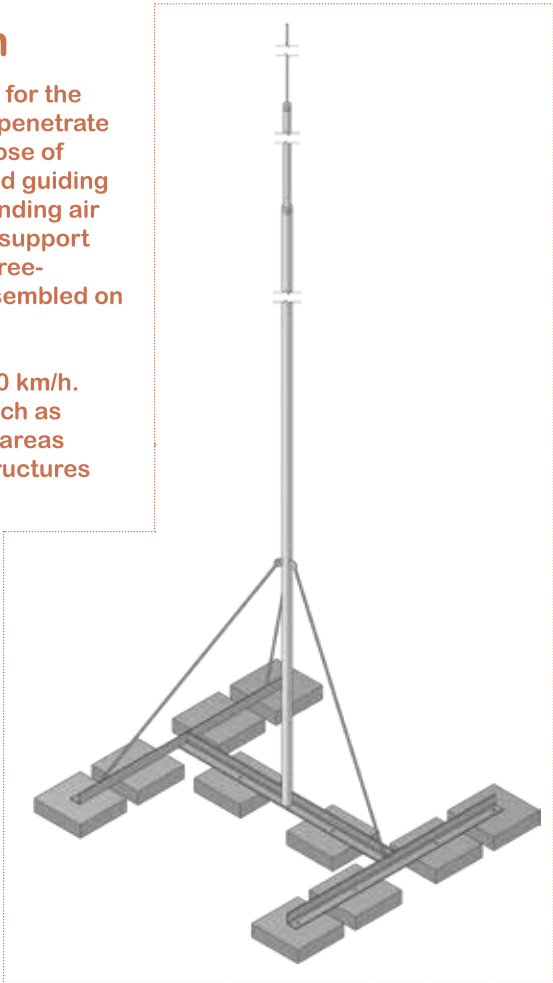
2.1.4 Free-standing air termination

Free-standing air termination air rods are designed for the protection of roof-mounted equipment that cannot penetrate the roof structure for anchoring. It serves the purpose of attracting lightning strikes away from structures and guiding the electrical current safely to the ground. Free standing air termination consisting of air rod/interception pole, support frame and concrete base. The construction of the free-standing air termination is simple, and it can be assembled on site easily.

It is designed to withstand wind speeds of up to 150 km/h. These terminals are commonly used in locations such as open fields, airports, industrial facilities, and other areas where there is a need to protect large spaces or structures from lightning strikes.

Material:
Stainless steel with aluminum tip

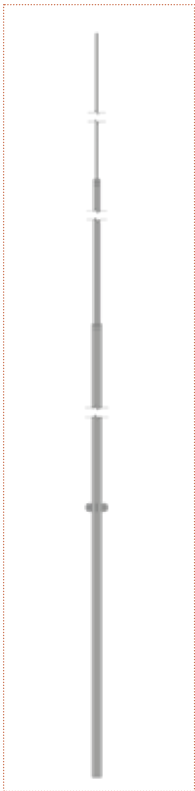
- Benefits
- Lightweight construction
 - Corrosion resistant
 - Quick and easy to assemble



*Refer to the free standing air terminal ordering way on the following pages

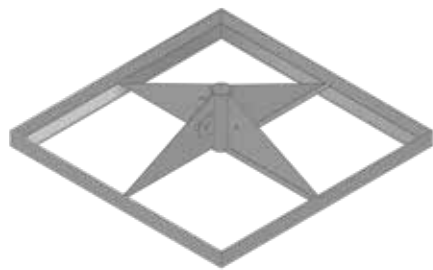
Free-standing interception pole

Part Number	Pole height (m)	Pole Diameter (mm)	Pole Construction
FSP001	3.0	Ø 10-42	2 pieces: 1.5 + 1.5
FSP002	3.5	Ø 10-42	2 pieces: 2.0 + 1.5
FSP003	4.0	Ø 10-42	2 pieces: 2.5 + 1.5
FSP004	4.5	Ø 10-42	2 pieces: 3.5 + 1.0
FSP005	5.0	Ø 10-42	2 pieces: 3.5 + 1.5
FSP006	5.5	Ø 10-42	2 pieces: 4.0 + 1.5
FSP007	6.0	Ø 10-60	3 Pieces: 2.0 + 2.0 + 2.0
FSP008	6.5	Ø 10-60	3 Pieces: 2.5 + 2.0 + 2.0
FSP009	7.0	Ø 10-60	3 Pieces: 3.0 + 2.0 + 2.0
FSP010	7.5	Ø 10-60	3 Pieces: 3.5 + 2.0 + 2.0
FSP011	8.0	Ø 10-60	3 Pieces: 4.0 + 2.0 + 2.0
FSP012	9.0	Ø 10-60	3 Pieces: 4.0 + 2.5 + 2.5
FSP013	10.0	Ø 10-60	3 Pieces: 5.0 + 2.5 + 2.5



Free-standing interception pole base frame

Part Number	Description
FSPF01	Square base 650 x 650mm
FSPF02	Square base 650 x 650mm
FSPF03	Tripod base 1850 x 1850mm
FSPF04	H shaped base 1850 x 1850mm



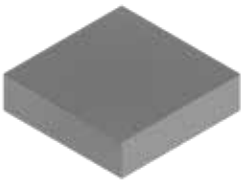
Free-standing interception pole

Part Number	Pole height (m)	Support Frame Part Number	Concrete Base Part Number
FSP001	3.0	FSPF01	4 x FSPB01
FSP002	3.5	FSPF01	4 x FSPB01
FSP003	4.0	FSPF01	4 x FSPB02
FSP004	4.5	FSPF02	3 x FSPB05
FSP005	5.0	FSPF02	3 x FSPB05
FSP006	5.5	FSPF02	3 x FSPB06
FSP007	6.0	FSPF03	6 x FSPB03
FSP008	6.5	FSPF03	6 x FSPB03
FSP009	7.0	FSPF03	6 x FSPB04
FSP010	7.5	FSPF03	6 x FSPB05
FSP011	8.0	FSPF03	6 x FSPB06
FSP012	9.0	FSPF04	10 x FSPB06
FSP013	10.0	FSPF04	10 x FSPB06



Air termination-multiple point

Part Number	Description
FSPB01	Square Concrete base 300x300x60mm,12.0Kg
FSPB02	Square Concrete base 300x300x80mm,16.0Kg
FSPB03	Square concrete base with M16 Insert,12.0Kg
FSPB04	Square concrete base with M16 Insert,16.0Kg
FSPB05	Square concrete base with M16 Insert,20.0Kg
FSPB06	Square concrete base with M16 Insert,25.0Kg

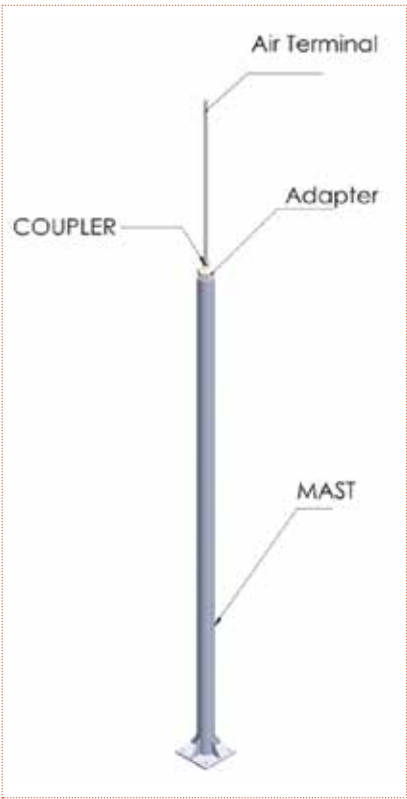


2.1.5 Air terminal mast

Air Terminal Mast designed to provide lightning protection by creating a preferred lightning strike point above the structure. Suitable for installation on rooftops, open areas, industrial facilities, substations, and commercial buildings.

Manufactured to withstand outdoor environmental conditions and provide long-term corrosion resistance.

SL No	Part Number	Length (L) MM	Diameter (D) MM	Hole Size (H)(MM)	Anchor Size (H)(MM)
1	MAST-2.0-M/F	2000	60.3	18.0	M16x135
2	MAST-3.0-M/F	3000	60.3	18.0	M16x135
3	MAST-4.0-M/F	4000	60.3	18.0	M16x135
4	MAST-5.0-M/F	5000	73.0	18.0	M16x135
5	MAST-6.0-M/F	6000	73.0	22.0	M20x170



* Material Available in :
(HDG) Hot Dip Galvanized - BS EN 1461
(SS) Stainless Steel



"Consistent smart work leads to success"

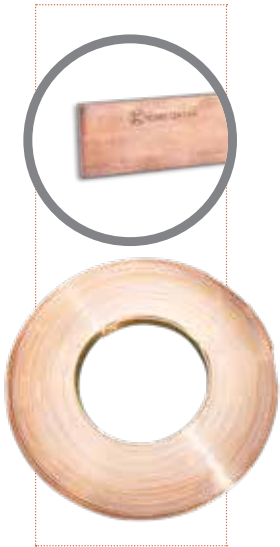
2.2 Down Conductors

Down conductors are an essential component of a lightning protection system. It is used to provide the low impedance path from the air termination system to the earth system, where it can dissipate harmlessly.

2.2.1 Bare copper tape

Bare copper tape is used as a grounding conductor in electrical systems. Copper tapes are soft drawn from %99.99 pure copper to ensure higher conductivity. Bare copper tapes are manufactured as per BS EN 13601 & BS EN -62561 2 standard.

Part Number	Conductor Size	Coil Size	Material
CT253	25x3mm	50Mtr	Copper
CT256	25x6mm	40Mtr	Copper
CT303	30x3mm	50Mtr	Copper
CT305	30x5mm	40Mtr	Copper
CT403	40x3mm	40Mtr	Copper
CT405	40x5mm	25Mtr	Copper
CT506	50x6mm	20Mtr	Copper



2.2.2 Tinned copper tape

Tinned copper tape is manufactured from high conductivity annealed copper with an additional layer of tin for improving the corrosion, enhanced conductivity and appearance. It is suitable for grounding and lightning protection application.

Part Number	Conductor Size	Coil Size	Material
CTT253	25x3mm	50Mtr	Copper
CTT256	25x6mm	40Mtr	Copper
CTT303	30x3mm	50Mtr	Copper
CTT305	30x5mm	40Mtr	Copper
CTT403	40x3mm	40Mtr	Copper
CTT405	40x5mm	25Mtr	Copper
CTT506	50x6mm	20Mtr	Copper



2.2.3 Bare aluminum tape

Tinned copper tape is manufactured from high conductivity annealed copper with an additional layer of tin for improving the corrosion, enhanced conductivity and appearance. It is suitable for grounding and lightning protection application.

Part Number	Conductor Size	Coil Size	Material
AT253	25x3mm		Aluminum

*Note: Special sizes are available in upon request

2.2.4 Hard drawn copper bar

Hard drawn copper bar has a high conductivity and mechanical strength. It is suitable for use in high voltage distribution, busbar, switchgear, transformers and control panels.

Part Number	Conductor Size	Coil Size	Material
HD253	25x3mm	3Mtr	Copper
HD256	25x6mm	4Mtr	Copper
HD506	50x6mm	3Mtr	Copper



2.2.5 PVC covered conductor

PVC covered conductor suitable for down conductor in lightning protection application. PVC covering ensure the protection against shock while carrying fault current of bare conductor. It offers UV Stability, anti-corrosiveness and aesthetics of the building.

Standards: BS EN 13601 for copper, BS 5252 for PVC color and BS 6746C for Green

Part Number	Conductor Size	Coil Size	color
CTP2533	25x3mm	50Mtr	Black
CTP2534	25x3mm	50Mtr	Green
CTP2532	25x3mm	50Mtr	Grey
CTP2536	25x3mm	50Mtr	Stone
CTP2531	25x3mm	50Mtr	Brown
CTP2535	25x3mm	50Mtr	White
CTP2564	25x6mm	40Mtr	Green
CTP2538	25x3mm	50Mtr	Yellow-Green



2.2.6 Lead covered conductor

Lead covered conductor is mainly used for power plants, substations, and other applications such as low grounding resistance, highly contaminated environments, and high alkali/acid corrosion resistance areas.

Part Number	Conductor Size	Coil Size	Material
CTL253	25x3mm	25Mtr	Copper



*Note: Special sizes are available in upon request

2.3 Conductor clamps

2.3.1 DC tape clip

DC tape clip used to support and secure down conductor tape to the building. The tape fit into the DC clip and is secured by two screws. The clip has a hole in the base for fixing to the building. DC clip manufactured from copper alloy, therefore, help to withstand the mechanical and lightning stresses.

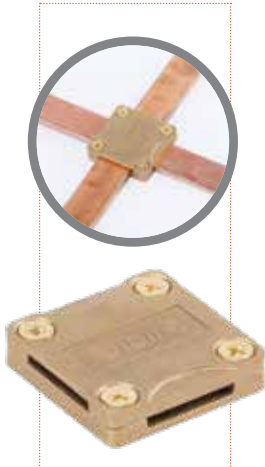
Part Number	Conductor Size	Application	Material
DC030	25x3mm	Use with bare copper	Copper alloy
DC031	25x3mm	Use with PVC covered copper	Copper alloy
DC034	30x52mm	Use with bare copper	Copper alloy
DC035	50x6mm	Use with bare copper	Copper alloy
DC030-ALU	25x3mm	Use with bare aluminium	Aluminium alloy



2.3.2 Square tape clamp

Square tape clamp suitable for cross joints of the tape conductor, making straight joint or T connections of tapes. The base has a countersunk hole in the middle for securing the clamp in place and the lid is secured by four screws.

Part Number	Conductor Size	Material
STC253	25x3mm	Copper Alloy
STC305	30x5mm	Copper Alloy
STC506	50x6mm	Copper Alloy
STC253-ALU	25x3mm	Aluminium alloy



2.2.3 Cable to tape square clamp

Square Clamp are used to cross joints between the tape to solid conductor.

Part Number	Conductor Size	Application	Material
CTSC253-70	25x3mm	70mm	Stainless Steel SS316
CTSC253-95	25x3mm	95mm	Stainless Steel SS316
CTSC305-70	30x5mm	70mm	Stainless Steel SS316
CTSC305-95	30x5mm	95mm	Stainless Steel SS316
CTSC506-70	50x6mm	70mm	Stainless Steel SS316
CTSC506-95	50x6mm	95mm	Stainless Steel SS316



2.3.4 Tape clip

It is used to hold and secure the tape conductors to the flat surface of a structure.

Part Number	Conductor Size	Application	Material
TC010	25x3mm	Use with bare copper	Copper
TC011	25x3mm	Use with PVC covered copper	Copper
TC012	30x5mm	Use with bare copper	Copper
TC013	50x6mm	Use with bare copper	Copper



2.3.5 Heavy duty cast cable saddle

It is used to support and secure the standard or solid round copper conductors. It manufactured from high quality alloys of copper alloy therefore, excellent corrosion resistance and high pull off loads.

Part Number	Conductor Size	Application	Material
HDCS50	50mm2	For use with stranded conductor	Copper alloy
HDCS70	70mm2	For use with stranded conductor	Copper alloy
HDCS95	95mm2	For use with stranded conductor	Copper alloy



2.3.6 One-hole cable clip

Cable clip used for fixing the conductor to the flat surface of a structure.

Part Number	Conductor Size	Application	Material
CC013	50mm2	For use with stranded conductor	Copper
CC014	70mm2	For use with stranded conductor	Copper
CC015	95mm2	For use with stranded conductor	Copper



2.3.7 Multi-purpose grounding clamp

It is used for grounding round conductors, flat conductors, ground rods and rebar.

Part Number	Conductor Size	Tape Size	Ground Rod Diameter, Nominal	Rebar Size, Metric	Material
MPGC-001	35mm2 to 70mm2 stranded	40 x 4 mm Max	5/8"- 3/4"	16-20 mm	Stainless steel 316L



2.3 Conductor clamps

2.3.8 B bond

B-Bond is used for bonding tape to steel structures.

Part Number	Description	Material
BB001	Maxi Tape width 26mm, M10 Bolt	Copper Alloy



2.3.9 Bimetallic connector

It is used for interconnecting copper and aluminum tapes to avoid bi-metallic corrosion and also provide an efficient joint without the need for tinning, riveting or wrapping the joint.

Part Number	Description
BC010	Conductor Size - 25x3mm aluminium tape to 25x3mm copper. tape



2.3.10 Bonding braids

It is used for supporting air rod and to accommodate conductor tape on a flat surface for lightning protection. Manufactured from high quality copper alloys and it is mechanically strong.



Part Number	Conductor Size	Application	Length	Material
FBF500	25x3mm	35	200	Copper
FBF500-T	25x3mm	35	200	Tinned Copper
FBF500-SS	25x3mm	35	200	Stainless Steel

2.3.11 Strike Pad

Strike pads manufactured from high quality alloys of copper and used where it is not possible to install conductor on the roof or side of a building.

Part Number	Description	Material
SP001	Strike pad with stem rod	Copper Alloy



2.3.12 Standing seam roof fixings

It is used for secure copper or aluminium conductors along with conductor clamp.

Part Number	Conductor Size	Application	Material
SSR010	25x3mm	Use with DC tape Clip / Square tape Clamp	Stainless Steel



2.3.13 Glue down non-metallic adhesive base

Mostly used for holding the DC clip. Quick and easy application with instant adhesion.

Part Number	Application
GDC010	Glue down non-metallic conductor base used for conductor clamp



3 Earthing System

- 3.1 Earth Rod
- 3.2 Earth Bond and clamps
- 3.3 Inspection pit and accessories
- 3.4 Earth Bar

Earthing is a crucial aspect of electrical systems that involves connecting electrical equipment and structures to the Earth's conductive surface. The primary purpose of earthing is to provide a safe pathway for electric currents to flow into the ground in the event of a fault or electrical surge. This helps prevent electrical shock, minimize damage to equipment, and reduce the risk of fires.

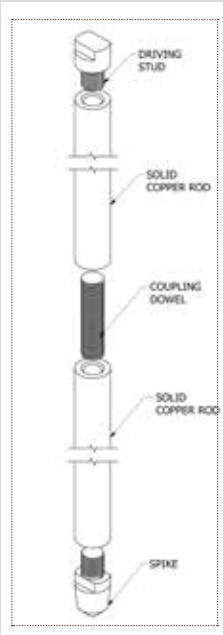
ICMS Earthing Systems provides a complete solution that includes design, technical support and component selection based on application needs.



3.1 Earth Rods

3.1.1 Solid copper earth rod and fittings

ICMS Solid copper earth rods are made from high conductivity hard drawn copper with 99.9 % copper purity. It has an excellent corrosion resistance and long life. It is used wherever the higher conductivity and corrosion resistance are required. Solid copper earth rods are internally threaded for joining multiple earth rod with aid of coupling dowel. ICMS earth rods are tested and complies as per IEC 2-62561.



Solid copper earth rod

Part Number	Diameter (mm)	Length (mm)	Material
SCR100	15	1200	Copper
SCR105	15	1500	Copper
SCR110	15	3000	Copper
SCR115	16	1200	Copper
SCR120	16	1500	Copper
SCR125	16	3000	Copper
SCR130	20	1200	Copper
SCR135	20	1500	Copper
SCR140	20	3000	Copper



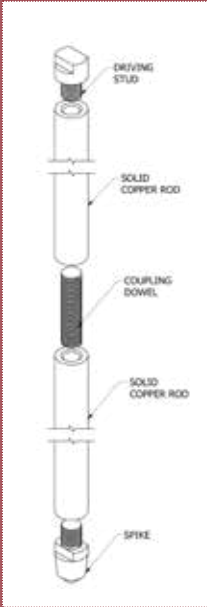
Fittings

Part Number	Description	Material
SCC015	Coupling dowel for 15mm, 16mm & 20mm copper rod	Copper
DS010	Driving stud for 15mm & 16mm earth rod	Steel
SP010	Spike for 15mm & 16mm earth rod	Steel
DS015	Driving Stud for 20mm earth rod	Steel
SP015	Spike for 20mm earth rod	Steel



3.1.2 Solid stainless steel earth rod and fittings

Solid stainless steel earth rods are manufactured using SS316 grade stainless steel and are highly resistant to corrosion. Stainless steel rods are best used for earthing installations where the problem of galvanic corrosion may take place between dissimilar metals buried in close proximity to each other.



Solid stainless steel earth rod

Part Number	Diameter (mm)	Length (mm)	Material
SSR100	16	1200	Stainless Steel SS316
SSR105	16	1500	Stainless Steel SS316
SSR110	16	3000	Stainless Steel SS316
SSR115	20	1200	Stainless Steel SS316
SSR120	20	1500	Stainless Steel SS316
SSR125	20	3000	Stainless Steel SS316



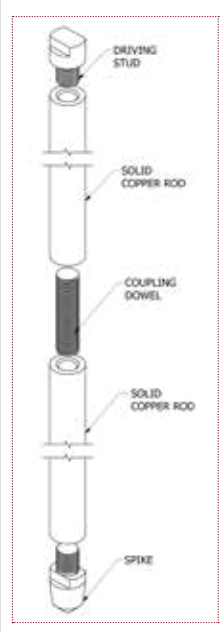
Fittings

Part Number	Description	Material
SCC010	Coupling dowel for 16mm & 20mm stainless steel rod	Stainless Steel SS316
DS010	Driving Stud for 16mm earth rod	Steel
SP010	Spike for 16mm earth rod	Steel
DS015	Driving Stud for 20mm earth rod	Steel
SP015	Spike for 20mm earth rod	Steel



3.1.3 SMO Earth rod and fittings

Solid earth rods made from 254 SMO grade (%6 molybdenum) are suitable for highly corrosive environments such as seawater, chlorides, etc. The SMO earth rods having higher strength and are extremely resistant to corrosion. ICMS offer a variety of SMO earth rods 20&16mm diameter with different lengths from 1200mm to 3000mm.



Solid SMO earth rod

Part Number	Diameter (mm)	Length (mm)	Material
SER-16-1.2	16	1200	254 SMO Grade
SER-16-1.5	16	1500	254 SMO Grade
SER-16-3.0	16	3000	254 SMO Grade
SER-20-1.2	20	1200	254 SMO Grade
SER-20-1.5	20	1500	254 SMO Grade
SER-20-3.0	20	3000	254 SMO Grade
SER-25-1.2	25	1200	254 SMO Grade
SER-25-1.5	25	1500	254 SMO Grade
SER-25-3.0	25	3000	254 SMO Grade



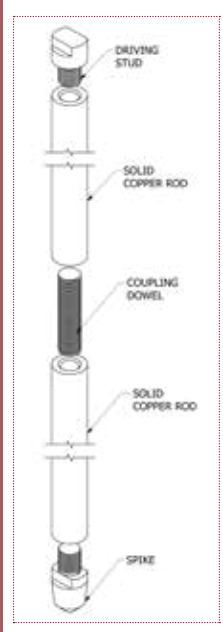
Fittings

Part Number	Description	Material
CRC010	Coupling dowel for 16mm &20mm earth rod	254 SMO Grade
CRC012	Coupling dowel for 25mm earth rod	254 SMO Grade
ST-16	Driving Stud for 16mm earth rod	254 SMO Grade
SP-16	Spike for 16mm earth rod	254 SMO Grade
ST-20	Driving Stud for 20mm earth rod	254 SMO Grade
SP-20	Spike for 20mm earth rod	254 SMO Grade
ST-25	Driving Stud for 25mm earth rod	254 SMO Grade
SP-25	Spike for 25mm earth rod	254 SMO Grade



3.1.4 Threaded copperbond earth rod

ICMS Copper bonded earth rod are manufactured from high tensile low carbon steel by molecularly bonding 99.9 % pure electrolytic copper with minimum copper coating thickness is 254 microns. Copperbonded earth rods are most economical method of achieving a low earth-resistance. The earth rods can be deep driven manually or by using a power hammer, they are ideal for deep driving. The threads are manufactured by roll threading process which ensure high strength. And also, ICMS offer compatible 5/8" & 3/4" threaded couplers and driving heads.



Threaded copper bond earth rod

Part Number	Nominal Dia (inch)	Shank (mm)	Length (mm)	Material
CBR100	5/8	14.2	1200	Low Carbon Steel
CBR105	5/8	14.2	1500	Low Carbon Steel
CBR125	5/8	14.2	3000	Low Carbon Steel
CBR200	3/4	17.2	1200	Low Carbon Steel
CBR205	3/4	17.2	1500	Low Carbon Steel
CBR230	3/4	17.2	3000	Low Carbon Steel



Fittings

Part Number	Description	Material
CBC100	Threaded coupler used for 14.2 earth rod	Copper Alloy
DS100	Driving stud used for 14.2 earth rod	Copper Steel
CBC200	Threaded coupler used for 17.2 earth rod	Copper Alloy
DS200	Driving stud used for 17.2 earth rod	Carbon Steel

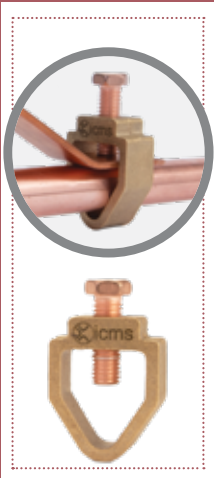


3.1 Earth bonds and clamps

3.2.1 Rod to tape clamp (Type A)

These clamp used for providing a secure connection between the flat type conductor to an earth rod. Clamps have a high resistance to corrosion and are mechanically strong.

Part Number	Rod Diameter (mm)	Max. conductor width (mm)	Material
RTC001-A	Ø14.2mm / Ø16mm / Ø17.2mm / Ø20mm	25mm	Copper Alloy



3.2.2 Rod to cable clamp (Type G)

Type G clamps used for providing a secure connection between the Solid/ Stranded conductor to an earth rod.

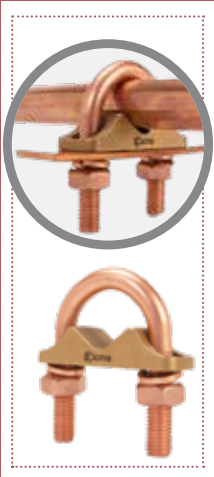
Part Number	Rod Diameter (mm)	Max. conductor width (mm)	Material
RCC003-G	Ø14.2mm / Ø16mm	16-50mm ²	Copper Alloy
RCC004-G	Ø17.2mm / Ø20mm	35-95mm ²	Copper Alloy



3.2.3 U-bolt rod clamp (Type E)

U-bolt clamp used for providing a secure connection between the flat tape or stranded conductor to an earth rod.

Part Number	Rod Diameter (mm)	Max. conductor width (mm)	Material
UBC001	Ø16mm/ Ø20mm/ Ø25mm	37.0	Copper Alloy

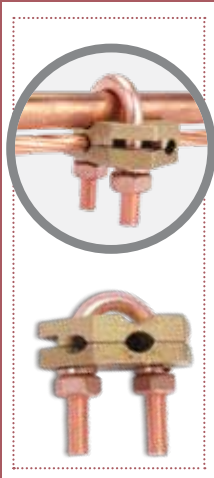


3.2.4 U-bolt rod clamp (Type GU)

U-bolt rod clamp is used for providing a secure connection between the down conductor vertical stranded cable and the earth rod. ICMS GUV clamps are tested and complies as per IEC 62561-1.

Part Number	Nominal rod diameter (mm)	Conductor Range (mm ²)	Material
UBC100	Ø14.2mm / Ø16mm / Ø17.2mm / Ø20mm	50-150	Copper Alloy
UBC101	Ø14.2mm / Ø16mm / Ø17.2mm / Ø20mm / Ø25mm	70-300	Copper Alloy

Note: Stainless steel U-Bolt available in upon request



3.2.5 Tower earth clamp

It is used for bonding copper conductor to steel structures. The clamp is fixed by drilling a hole in the steel structure and securing with the bolt provided.

Part Number	Channel thickness (mm)	Conductor Range (mm ²)	Material
TEC001	10.0	16-70	Copper Alloy
TEC003	10.0	70-120	Copper Alloy



3.2.6 RWP bond

The RWP bond can be used on circular object, such as rainwater pipes and handrails, where the tape can be wrapped around it.

Part Number	Description	Material
RWB001	RWP bond, maximum tape width - 26mm, bolt size - M10.	Copper Alloy



3.2.7 Pipe clamp

These clamps are used for bonding stranded cable to pipe.

Part Number	Pipe diameter (mm)	Conductor Range (mm ²)	Material
PC001	Ø 13-25	25-95	Copper alloy clamp with zinc plate

3.1.8 Rebar to rebar connecting clip

Rebar clamps are used to connect between rebar to rebar. These clamps are made from stainless steel for excellent corrosion resistance. The clamps provide a strong mechanical connection and very simple to install.

Part Number	Description	Material
RRC1616	Rebar to rebar connecting clip, Maxi dia (A) -16mm, Maxi rebar dia (B) - 16mm	Stainless steel
RRC2121	Rebar to rebar connecting clip, Maxi dia (A) -20mm, Maxi rebar dia (B) - 20mm	Stainless steel
RRC2626	Rebar to rebar connecting clip, Maxi dia (A) -25mm, Maxi rebar dia (B) - 25mm	Stainless steel
RRC3232	Rebar to rebar connecting clip, Maxi dia (A) -32mm, Maxi rebar dia (B) - 31mm	Stainless steel



3.2.9 Rebar to conductor connecting clip

These clamps are used to connect between rebar to conductor/tape. These clamps are made from stainless steel for excellent corrosion resistance. The clamps provide a strong mechanical connection and very simple to install.

Part Number	Description	Material
RRC16-08	Rebar to conductor connecting clip (Rebar to stranded/solid circular conductor) Rebar diameter - 16 mm, Conductor size - 8 mm dia., 50-70-95mm ² .	Stainless steel



3.1.8 Earth Boss

Earth boss is to allow a steady earthing connection point on a steel structure. The earth boss is welded into steel structures.

Part Number	Diameter (mm)	Length (mm)	Stud	Material / Finish
EBS000	25	25	M8	Mild steel
EBS211	30	40	M10	Mild steel
EBS001	50	50	M10	Mild steel
EBS001-SS	50	50	M10	Stainless steel
EBS001-HDG	50	50	M10	Mild steel / hot dip galvanized



3.3. Inspection Pits

The inspection pit protects the earth rod connection and makes it accessible for regular inspection.

3.3.1 Concrete Inspection Pit

ICMS Concrete earth pit is suitable for load rating to 3000 kgs. And can accommodate an internal earth bar diagonally across in slots provided for multiple connections. The lid provided with Stainless steel hook which ensure less corrosion.

Part Number	Description	Material
CIP	320x320x150 mm Inspection Pit Concrete	Concrete



3.3.2 Light Weight Inspection Pit

ICMS lightweight pit is manufactured from high-grade polypropylene for high strength & Stress levels to absorb a maximum load of 5000kg. Stabilized against degradation by non-brittle and by sunlight to prevent external damage.

Part Number	Description	Material
LPIT	Lightweight inspection pit with grey polymer lid	Polymer



3.3.3 Earth Rod Seal

Earth Seal is fitted when the earth rod connection is below the water level and where there is a possibility of water entering the inspection housing from below ground.

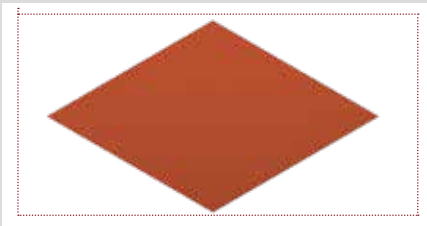
Part Number	Description	Application
ES100	Earth rod seal and membrane seal with 2mtr PVC tube	Earth rod seal assembly
ES 100-20	Seal pack for Ø 20mm solid copper rod	Earth rod seal pack
ES 100-34	Seal pack for 3/4” (Ø 17.2mm) Copper bond rod	Earth rod seal pack
ES 100-16	Seal pack for Ø 16mm solid copper rod	Earth rod seal pack
ES 100-58	Seal pack for 5/8” (Ø 14.2mm) Copper bond rod	Earth rod seal pack



3.1.4 Earth Plate - (Solid type)

Copper earth plates are used when deep driving of earth rods are not practical to install due to hard rocks or high resistance soils.

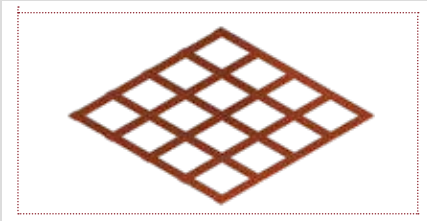
Part Number	Size (mm)	Material
EPS100	600x600x1.5mm Thick	Copper
EPS105	600x600x3.0mm Thick	Copper



3.1.5 Earth Mat / Lattice

Copper earth lattice are manufactured from high conductivity copper tapes and it is commonly used in high fault current situations. Lattice earth mat are more economical option than solid copper plates. It covers a wide surface area enabling better contact with the surrounding soil.

Part Number	Size (mm)	Material
EPL120	600x600x3.0mm Thick	Copper
EPL125	900x900x3.0mm Thick	Copper



3.3.6 Backfill Materials

(a) Earth enhancing compound

Some soil conditions can make it challenging to achieve a very low earth resistance, which may be necessary for certain installations. Earth enhancing compound is made up of minerals and substances that improve grounding. By adding enhancing compound to cement in place of sand which creates a highly conductive concrete. This helps to lower the resistance of earth rods, plates etc.

Part Number	Weight Each (kg)
MRC01	25

(b) Bentonite

Bentonite is a moisture retaining clay which when used as a backfill with earth rods or plates will reduce soil resistivity by retaining moisture around the earth rod. Bentonite is a more affordable but less long-lasting material for earthing.

Part Number	Weight Each (kg)
BNT01	25

3.3.7 Earth pit Accessories



Part Number	Description	Application	Material
BAR01	5 holes bar	Use with concrete inspection pit	Copper
BAR02	5 holes earth bar	Use with light weight inspection pit	Copper

* Tinned copper earth bar also available upon request. For tinned copper earth bar, add part number suffix with"-T"

3.3.7 Earth Point

Earth points serve to connect the steel rebar to the down conductor for grounding. The bonding points are available with one, two and four hole connections. The earth point has one end connected to a down conductor and the other end exothermically welded to a conductor that is attached to the rebar with a conductor clamp.

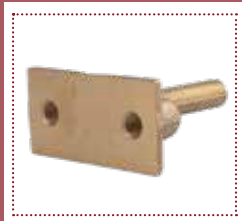
(a) Single-Hole Earth Point

Part Number	Description	Application
EP100	Single hole earth point, Hole size - M8 x 15 mm.	Single hole earth point
EP111	Pre-welded single hole earth points, 70 mmsq,500mm Long.	Single hole earth point with single pre-welded tail



(b) Two-Hole Earth Point

Part Number	Description	Application
EP210	Two hole earth point, Hole size - M8 x 12mm.	Two hole earth point
EP211	Two hole earth point with single pre- welded tail, EP210 earth point with pre- welded 500mm earth cable.	Two hole earth point with single pre-welded tail



(c) Four-hole earth point

Part Number	Description	Application
EP400	Four hole earth point, Hole size - M8 x 14mm.	Four hole earth point
EP211	Four hole earth point with single pre- welded tail, EP400 earth point with pre- welded 500mm earth cable.	Four hole earth point with single pre-welded tail



3.4 Earth Bar

Earth bars serve as a common earth point in various electrical applications. Earth bar with disconnection links allow safe electrical isolation for testing purposes. ICMS earth bars are manufactured from high conductivity hard drawn copper (50mmx6mm) with M10 screws, The total height of earth bar has 45mm. The PVC channel base serves as a corrosion-resistant and lightweight in construction.

3.4.1 Earth Bar without disconnecting link

Part Number	Description
EB006	6 way
EB008	8 way
EB010	10 way
EB012	12 way
EB014	14 way
EB016	16 way
EB018	18 way
EB020	20 way
EB022	22 way
EB024	24 way
EB026	26 way
EB028	28 way
EB030	30 way



* Tinned copper earth bar also available upon request. For tinned copper earth bar, add part number suffix with"-T"

3.4.2 Earth Bar with single disconnecting link

Part Number	Description
EB106	6 way
EB108	8 way
EB110	10 way
EB0112	12 way
EB114	14 way
EB116	16 way
EB118	18 way
EB120	20 way
EB122	22 way
EB124	24 way
EB126	26 way
EB128	28 way
EB130	30 way



* Tinned copper earth bar also available upon request. For tinned copper earth bar, add part number suffix with"-T"

3.4.3 Earth Bar with twin disconnecting Link

Part Number	Description
EB206	6 way
EB208	8 way
EB210	10 way
EB212	12 way
EB214	14 way
EB216	16 way
EB218	18 way
EB220	20 way
EB222	22 way
EB224	24 way
EB226	26 way
EB228	28 way
EB230	30 way



* Tinned copper earth bar also available upon request. For tinned copper earth bar, add part number suffix with"-T"

3.4.4 Disconnecting Link

Part Number	Description
DL205	Disconnecting link, 50x6mm.

* Tinned copper earth bar also available upon request. For tinned copper earth bar, add part number suffix with"-T"

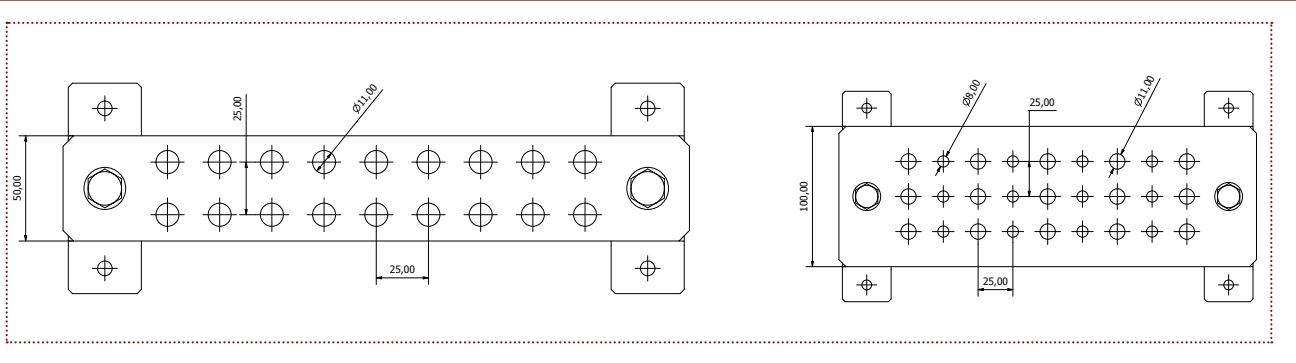
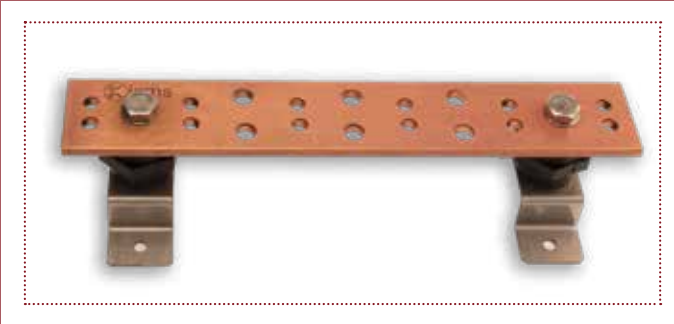


3.4.5 Telecom earth bar

It serves as a common grounding point within the telecommunications room. The grounding bar is designed to be easily wall mounted. Telecom earth bars are manufactured from high conductivity hard drawn copper 50mm,100mm width and 6mm thick.

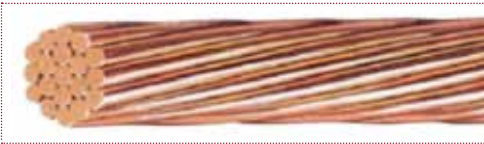
Part Number	Description	Size
TMEB12	Main ELV earth bar	100mm W x 6mm Thick, 300mm Long
TMEB20	Main ELV earth bar	100mm W x 6mm Thick, 500mm Long
TMEB24	Main ELV earth bar	100mm W x 6mm Thick, 600mm Long
TEB12	Sub ELV earth bar	50mm W x 6mm Thick, 300mm Long
TEB20	Sub ELV earth bar	50mm W x 6mm Thick, 500mm Long
TEB24	Sub ELV earth bar	50mm W x 6mm Thick, 600mm Long

* Tinned copper earth bar also available upon request. For tinned copper earth bar, add part number suffix with "-T"
* Number of holes and distance between holes can customize upon request.



3.5 Copper Conductor

3.5.1 Bare Copper Conductor



ICMS Part No.	Conductor size mm ²	Stranding size mm ²	Nominal diameter (A) (mm)	Weight per meter (kg)
ECI06	6	7/1.04	Ø 3.12	0.05
ECI010	10	7/1.35	Ø 4.85	0.08
ECI016	16	7/1.70	Ø 5.10	0.15
ECI025	25	7/2.14	Ø 6.42	0.23
ECI035	35	7/2.52	Ø 7.56	0.32
ECI050	50	19/1.78	Ø 8.90	0.43
ECI070	70	19/2.14	Ø 10.70	0.62
ECI095	95	19/2.52	Ø 12.60	0.86
ECI120	120	37/2.03	Ø 14.21	1.09
ECI150	150	37/2.25	Ø 15.75	1.33
ECI185	185	37/2.52	Ø 17.64	1.67
ECI240	240	61/2.25	Ø 20.25	2.20
ECI300	300	61/2.52	Ø 22.68	2.76
ECI400	400	61/2.85	Ø 25.65	3.53

3.5.2 PVC Insulated Yellow & Green Copper Conductor



ICMS Part No.	Conductor size mm ²	Stranding size mm ²	Nominal diameter (A) (mm)	Weight per meter (kg)
PECI006	6	7/1.04	Ø 4.8	0.07
PECI010	10	7/1.35	Ø 6.1	0.12
PECI016	16	7/1.70	Ø 7.1	0.19
PECI025	25	7/2.14	Ø 8.9	0.29
PECI035	35	7/1.53	Ø 10.1	0.41
PECI050	50	19/1.78	Ø 11.8	0.53
PECI070	70	19/2.14	Ø 13.6	0.73
PECI095	95	19/2.52	Ø 15.9	1.00
PECI120	120	37/2.25	Ø 17.5	1.16
PECI150	150	37/2.25	Ø 19.4	1.54
PECI185	185	37/2.52	Ø 21.7	2.01
PECI240	240	61/2.25	Ø 24.5	2.49
PECI300	300	61/2.52	Ø 27.5	3.05
PECI400	400	61/2.85	Ø 30.9	3.90

4 Exothermic Welding

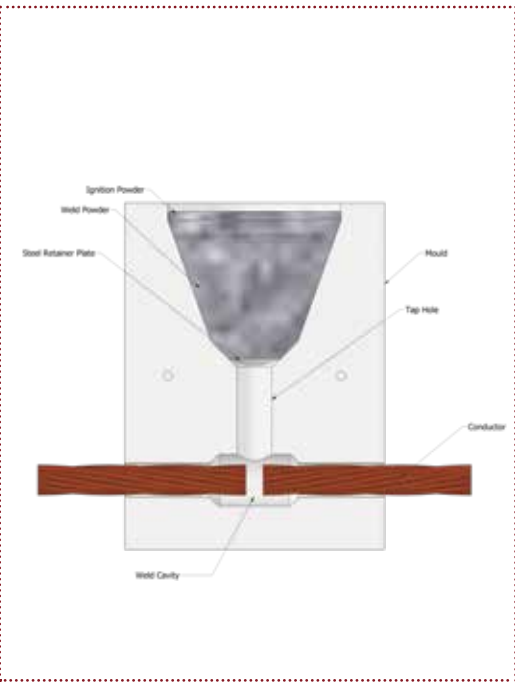
Exothermic welding is a process used to permanently join two or more metallic conductors. The welded connection is resistant to corrosion, maintaining its conductivity over time and It is widely used in various industries for earthing applications, including telecommunications, power distribution, and industrial facilities where reliable grounding is crucial for safety and operational efficiency.

4.0 Exothermic Welding

Methods of functioning

Ensure that the surfaces to be joined are clean and free from any contaminants such as rust, dirt, or oxidation. Use a conductor cleaning brush or other suitable cleaning methods to prepare the conductor and grounding electrode surfaces. Place a mold around the conductors. The mold contains cavities for the conductors and ensuring the proper formation of the weld.

Steel Retaining Discs are located at the bottom of the mould to hold the Weld Powder and Ignition Powder that are poured on top. Position an ignition source, then exothermic reaction begins, this instantaneously melts the retaining disc, and flows down the tap hole, to the weld cavity. The molten copper fills the mold and flows around the conductors. This creates a metallurgical bond as the molten metal solidifies. The result is a high-conductivity connection between the conductors and the grounding electrode. Allow the molten metal to cool and solidify within the mold. Once solidified, the mold can be removed. After the mold is removed, any excess metal can be cleaned off to reveal the finished weld. The completed exothermic weld provides a durable and long-lasting connection between the conductors and the grounding electrode.



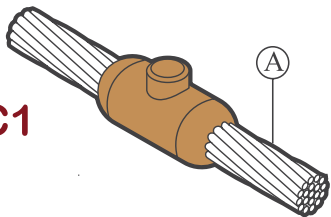
Sl.No.	Weld Type	Weld Connection	Page
01	Cable to Cable CC1		35
02	Cable to Cable CC2		36
03	Cable to Cable CC4		37
04	Cable to Cable CC21		38
05	Cable to Cable CC22		39
06	Cable to Earth rod CE1		40
07	Cable to Earth rod CE2		41
08	Cable to reinforcing bar CRH1		42
09	Cable to reinforcing bar CRH2		42
10	Cable to reinforcing bar CRV2		44

General Selection Chart

Sl.No.	Weld Type	Weld Connection	Page
11	Cable to reinforcing bar CRV1		45
12	Cable to reinforcing bar CRH4		45
13	Bar to Bar BBV1		46
14	Bar to Bar BBV2		47
15	Bar to Bar BBH1		48
16	Bar to Bar BBH2		49
17	Bar to Bar BBH4		50
18	Bar to Steel surface BSV1		51
19	Bar to Steel surface BSH1		52
20	Bar to Steel surface BSH2		53
21	Bar to Earth rod BE1		53
22	Bar to Earth rod BEV2		53
23	Cable to Bar CB1		57
24	Cable to Bar BC2		58
25	Cable to Bar CB2		59
26	Cable to Steel Surface & Pipe CS1		60
27	Cable to Steel Surface & Pipe CSH2		60

4.1 ICMS Weld connections

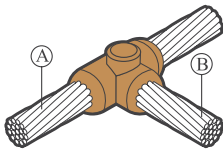
Cable to Cable CC1



Cable to Cable CC1	Part Number	Material	Material
Stranded/Solid circular Conductor Size A (mm2)	Standard Mould	Powder Cartridge	Handle clamp
16*	CC1-1-16	32WP	HC1
25	CC1-1-25	32WP	HC1
35	CC1-1-35	32WP	HC1
50	CC1-1-50	45WP	HC1
70	CC1-1-70	65WP	HC1
95	CC1-1-95	90WP	HC1
120	CC1-1-120	115WP	HC1
150	CC1-1-150	115WP	HC1
185	CC1-1-185	150WP	HC1
240	CC1-1-240	200WP	HC1
300	CC1-1-300	250WP	HC1
400	CC1-2-400	2x150WP	HC2

* 2 x SM101 Sleeve required, Conductor less than16 mm² or smaller

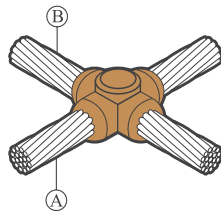
Cable to Cable CC2



Cable to Cable CC2			Part Number	
Stranded/Solid circular Conductor Size A (mm2)	Stranded/Solid circular Conductor Size B (mm2)	Standard Mould	Powder Cartridge	Handle Clamp
16*	16*	CC2-1-1616	45WP	HC1
25	25	CC2-1-2525	45WP	HC1
35	35	CC2-1-3535	45WP	HC1
35	25	CC2-1-3525	45WP	HC1
50	50	CC2-1-5050	90WP	HC1
50	35	CC2-1-5035	65WP	HC1
50	25	CC2-1-5025	65WP	HC1
70	70	CC2-1-7070	90WP	HC1
70	50	CC2-1-7050	90WP	HC1
70	35	CC2-1-7035	65WP	HC1
70	25	CC2-1-7025	65WP	HC1
95	95	CC2-1-9595	115WP	HC1
95	70	CC2-1-9570	90WP	HC1
95	50	CC2-1-9550	90WP	HC1
95	35	CC2-1-9535	90WP	HC1
120	120	CC2-1-120120	150WP	HC1
120	95	CC2-1-12095	150WP	HC1
120	70	CC2-1-12070	90WP	HC1
120	50	CC2-1-12050	90WP	HC1
150	150	CC2-1-150150	200WP	HC1
150	120	CC2-1-150120	150WP	HC1
150	95	CC2-1-15095	150WP	HC1
150	70	CC2-1-15070	90WP	HC1
185	185	CC2-1-185185	200WP	HC1
185	150	CC2-1-185150	200WP	HC1
185	120	CC2-1-185120	200WP	HC1
185	95	CC2-1-18595	150WP	HC1
240	240	CC2-2-240240	2X150WP	HC2
240	185	CC2-1-240185	200WP	HC1
240	150	CC2-1-240150	200WP	HC1
240	120	CC2-1-240120	200WP	HC1
300	300	CC2-2-300300	2X200WP	HC2
300	240	CC2-2-300240	2X200WP	HC2
300	185	CC2-1-300185	250WP	HC1
300	150	CC2-1-300150	200WP	HC1

* 3 x SM101 Sleeve required, Conductor less than16 mm² or smaller

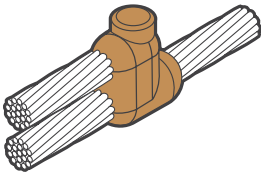
Cable to Cable CC4



Cable to Cable CC4		Part Number		
Stranded/Solid circular Conductor Size A (mm²)	Stranded/Solid circular Conductor Size B (mm²)	Standard Mould	Powder Cartridge	Handle Clamp
16*	16*	CC4-1-1616	65WP	HC1
25	25	CC2-1-2525	45WP	HC1
35	35	CC4-1-3535	65WP	HC1
35	25	CC4-1-3525	65WP	HC1
50	50	CC4-1-5050	90WP	HC1
50	35	CC4-1-5035	90WP	HC1
50	25	CC4-1-5025	90WP	HC1
70	70	CC4-1-7070	115WP	HC1
70	50	CC4-1-7050	115WP	HC1
70	35	CC4-1-7035	115WP	HC1
70	25	CC4-1-7025	115WP	HC1
95	95	CC4-1-9595	150WP	HC1
95	70	CC4-1-9570	150WP	HC1
95	50	CC4-1-9550	115WP	HC1
95	35	CC4-1-9535	115WP	HC1
120	120	CC4-1-120120	200WP	HC1
120	95	CC4-1-12095	200WP	HC1
120	70	CC4-1-12070	150WP	HC1
120	50	CC4-1-12050	150WP	HC1
150	150	CC4-1-150150	250WP	HC1
150	120	CC4-1-150120	250WP	HC1
150	95	CC4-1-15095	200WP	HC1
150	70	CC4-1-15070	150WP	HC1
185	185	CC4-1-185185	2X150WP	HC2
185	150	CC4-1-185150	250WP	HC1
185	120	CC4-1-185120	250WP	HC1
185	95	CC4-1-18595	200WP	HC1
185	70	CC4-1-18570	200WP	HC1
240	240	CC4-3-240240	2X250WP	HC3
240	185	CC4-2-240185	2X200WP	HC2
240	150	CC4-2-240150	2X200WP	HC2
240	120	CC4-2-240120	2X150WP	HC2

* 4 x SM101 Sleeve required, Conductor less than16 mm² or smaller

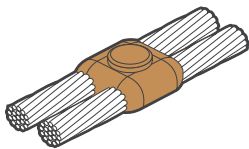
Cable to Cable CC21



Cable to Cable CC21		Part Number		
Stranded/Solid circular Conductor Size A (mm²)	Stranded/Solid circular Conductor Size B (mm²)	Standard Mould	Powder Cartridge	Handle Clamp
16*	16*	CC21-1-1616	65WP	HC1
25	25	CC21-1-2525	45WP	HC1
35	35	CC21-1-3535	65WP	HC1
35	25	CC21-1-3525	65WP	HC1
50	50	CC21-1-5050	90WP	HC1
50	35	CC21-1-5035	65WP	HC1
50	25	CC21-1-5025	65WP	HC1
70	70	CC21-1-7070	115WP	HC1
70	50	CC21-1-7050	115WP	HC1
70	35	CC21-1-7035	90WP	HC1
70	25	CC21-1-7025	90WP	HC1
95	95	CC21-1-9595	150WP	HC1
95	70	CC21-1-9570	115WP	HC1
95	50	CC21-1-9550	115WP	HC1
95	35	CC21-1-9535	115WP	HC1
120	120	CC21-1-120120	200WP	HC1
120	95	CC21-1-12095	200WP	HC1
120	70	CC21-1-12070	150WP	HC1
120	50	CC21-1-12050	115WP	HC1

* 3 x SM101 Sleeve required, Conductor less than16 mm² or smaller

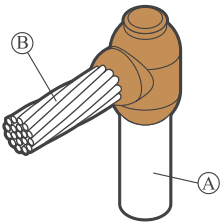
Cable to Cable CC22



Cable to Cable CC22		Part Number		
Stranded/Solid circular Conductor Size A (mm²)	Stranded/Solid circular Conductor Size B (mm²)	Standard Mould	Powder Cartridge	Handle Clamp
16*	16*	CC22-1-1616	65WP	HC1
25	25	CC22-1-2525	45WP	HC1
35	35	CC22-1-3535	65WP	HC1
35	25	CC22-1-3525	65WP	HC1
50	50	CC22-1-5050	90WP	HC1
50	35	CC22-1-5035	90WP	HC1
50	25	CC22-1-5025	90WP	HC1
70	70	CC22-1-7070	115WP	HC1
70	50	CC22-1-7050	115WP	HC1
70	35	CC22-1-7035	90WP	HC1
70	25	CC22-1-7025	90WP	HC1
95	95	CC22-1-9595	150WP	HC1
95	70	CC22-1-9570	150WP	HC1
95	50	CC22-1-9550	150WP	HC1
95	35	CC22-1-9535	115WP	HC1
120	120	CC22-1-120120	200WP	HC1
120	95	CC22-1-12095	200WP	HC1
120	70	CC22-1-12070	200WP	HC1
120	50	CC22-1-12050	150WP	HC1

* 4 x SM101 Sleeve required, Conductor less than16 mm² or smaller

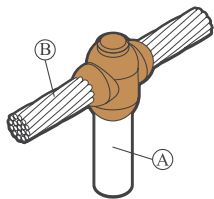
Cable to Earth rod CE1



Cable to Earth CE1		Part Number		
Earth rod A Ø (mm)	Stranded/Solid circular Conductor Size B (mm²)	Standard Mould	Powder Cartridge	Handle Clamp
14.2	16*	CE1-1-14216	65WP	HC1
14.2	25	CE1-1-14225	65WP	HC1
14.2	35	CE1-1-14235	65WP	HC1
14.2	50	CE1-1-14250	90WP	HC1
14.2	70	CE1-1-14270	90WP	HC1
14.2	95	CE1-1-14295	90WP	HC1
14.2	120	CE1-1-142120	90WP	HC1
14.2	150	CE1-1-142150	115WP	HC1
14.2	185	CE1-1-142185	115WP	HC1
14.2	240	CE1-1-142240	150WP	HC1
17.2	16	CE1-1-17216	65WP	HC1
17.2	25	CE1-1-17225	65WP	HC1
17.2	35	CE1-1-17235	65WP	HC1
17.2	50	CE1-1-17250	90WP	HC1
17.2	70	CE1-1-17270	90WP	HC1
17.2	95	CE1-1-17295	90WP	HC1
17.2	120	CE1-1-172120	90WP	HC1
17.2	150	CE1-1-172150	115WP	HC1
17.2	185	CE1-1-172185	115WP	HC1
17.2	240	CE1-1-172240	150WP	HC1
17.2	300	CE1-1-172300	200WP	HC1
20.0	16	CE1-1-20016	200WP	HC1
20.0	25	CE1-1-20025	200WP	HC1
20.0	35	CE1-1-20035	200WP	HC2
20.0	50	CE1-1-20050	200WP	HC1
20.0	70	CE1-1-20070	200WP	HC1
20.0	95	CE1-1-20095	250WP	HC1
20.0	120	CE1-1-200120	250WP	HC1
20.0	150	CE1-1-200150	250WP	HC1
20.0	185	CE1-1-200185	250WP	HC1
20.0	240	CE1-2-200240	2X150WP	HC2
20.0	300	CE1-2-200300	2X150WP	HC2

* 1 x SM101 Sleeve required, Conductor less than16 mm² or smaller

Cable to Earth rod CE2



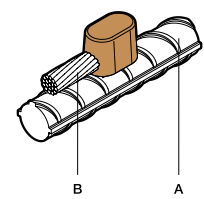
Cable to Earth CE2		Part Number		
Earth rod A Ø (mm)	Stranded/Solid circular Conductor Size B (mm²)	Standard Mould	Powder Cartridge	Handle Clamp
14.2	16*	CE2-1-14216	90WP	HC1
14.2	25	CE2-1-14225	90WP	HC1
14.2	35	CE2-1-14235	90WP	HC1
14.2	50	CE2-1-14250	90WP	HC1
14.2	70	CE2-1-14270	115WP	HC1
14.2	95	CE2-1-14295	115WP	HC1
14.2	120	CE2-1-142120	150WP	HC1
14.2	150	CE2-1-142150	200WP	HC1
14.2	185	CE2-1-142185	200WP	HC1
14.2	240	CE2-1-142240	250WP	HC1
17.2	16	CE2-1-17216	90WP	HC1
17.2	25	CE2-1-17225	90WP	HC1
17.2	35	CE2-1-17235	90WP	HC1
17.2	50	CE2-1-17250	115WP	HC1
17.2	70	CE2-1-17270	115WP	HC1
17.2	95	CE2-1-17295	115WP	HC1
17.2	120	CE2-1-172120	150WP	HC1
17.2	150	CE2-1-172150	200WP	HC1
17.2	185	CE2-1-172185	200WP	HC1
17.2	240	CE2-1-172240	250WP	HC1
17.2	300	CE2-1-172300	2x150WP	HC1
20.0	16	CE2-1-20016	200WP	HC1
20.0	25	CE2-1-20025	200WP	HC1
20.0	35	CE2-1-20035	200WP	HC2
20.0	50	CE2-1-20050	200WP	HC1
20.0	70	CE2-1-20070	200WP	HC1
20.0	95	CE2-1-20095	200WP	HC1
20.0	120	CE2-1-200120	250WP	HC1
20.0	150	CE2-1-200150	250WP	HC1
20.0	185	CE2-1-200185	250WP	HC1
20.0	240	CE2-2-200240	250WP	HC2
20.0	300	CE2-2-200300	250WP	HC2

* 2 x SM101 Sleeve required, Conductor less than16 mm² or smaller

"Quality is when the customer returns and the product doesnt"



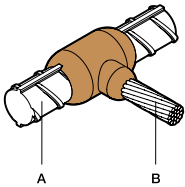
Cable to reinforcing bar CRH1



Cable to Cable CC2		Part Number		
Stranded/Solid circular Conductor Size A (mm2)	Stranded/Solid circular Conductor Size B (mm2)	Standard Mould	Powder Cartridge	Handle Clamp
10-40	16*	CRH1-1-16	45WP	HC1
10-40	25	CRH1-1-25	45WP	HC1
10-40	35	CRH1-1-35	45WP	HC1
10-40	50	CRH1-1-50	90WP	HC1
10-40	70	CRH1-1-70	90WP	HC1
10-40	95	CRH1-1-95	90WP	HC1
10-40	120	CRH1-1-120	90WP	HC1

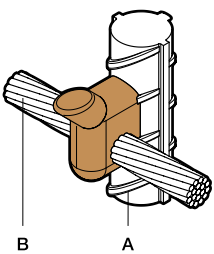
* 1 x SM101 Sleeve required, Conductor less than16 mm² or smaller

Cable to reinforcing bar CRH2



Cable to reinforcing bar CRH2		Part Number		
Reinforcing bar size A Ø (mm)	Stranded/Solid circular Conductor Size B (mm2)	Standard Mould	Powder Cartridge	Handle Clamp
16	16*	CRH2-1-16R16	90WP	HC1
16	25	CRH2-1-16R25	90WP	HC1
16	35	CRH2-1-16R35	90WP	HC1
16	50	CRH2-1-16R50	90WP	HC1
16	70	CRH2-1-16R70	115WP	HC1
16	95	CRH2-1-16R95	115WP	HC1
16	120	CRH2-1-16R120	150WP	HC1
16	150	CRH2-1-16R150	150WP	HC1
16	185	CRH2-1-16R185	200WP	HC1
16	240	CRH2-1-16R240	200WP	HC1
16	300	CRH2-2-16R300	2x150WP	HC2
16	16	CRH2-1-18R16	115WP	HC1
16	25	CRH2-1-18R25	115WP	HC1
16	35	CRH2-1-18R35	115WP	HC1
16	50	CRH2-1-18R50	150WP	HC1

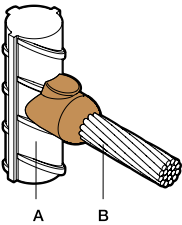
18	70	CRH2-1-18R70	150WP	HC1
18	95	CRH2-1-18R95	150WP	HC1
18	120	CRH2-1-18R120	200WP	HC1
18	150	CRH2-1-18R150	200WP	HC1
18	185	CRH2-1-18R185	200WP	HC1
18	240	CRH2-1-18R240	250WP	HC1
18	300	CRH2-2-18R300	2x150WP	HC1
20	16	CRH2-1-20R16	115WP	HC1
20	25	CRH2-1-20R25	115WP	HC1
20	35	CRH2-1-20R35	115WP	HC1
20	50	CRH2-1-20R50	150WP	HC1
20	70	CRH2-1-20R70	200WP	HC1
20	95	CRH2-1-20R95	200WP	HC1
20	120	CRH2-1-20R120	200WP	HC1
20	150	CRH2-1-20R150	200WP	HC1
20	185	CRH2-1-20R185	2505WP	HC1
20	240	CRH2-2-20R240	2x150WP	HC2
20	300	CRH2-2-20R300	2x200WP	HC2
25	16	CRH2-1-25R16	200WP	HC1
25	25	CRH2-1-25R25	200WP	HC1
25	35	CRH2-1-25R35	200WP	HC1
25	50	CRH2-1-25R50	200WP	HC1
25	70	CRH2-1-25R70	250WP	HC1
25	95	CRH2-1-25R95	250WP	HC1
25	120	CRH2-1-25R120	250WP	HC1
25	150	CRH2-2-25R150	2X150WP	HC2
25	185	CRH2-2-25R185	2x150WP	HC2
25	240	CRH2-2-25R240	2x200WP	HC2
25	300	CRH2-2-25R300	2x200WP	HC2
30	16	CRH2-1-30R16	250WP	HC1
30	25	CRH2-1-30R25	250WP	HC1
30	35	CRH2-1-30R35	250WP	HC1
30	50	CRH2-2-30R50	2x150WP	HC2
30	70	CRH2-2-30R70	2x150WP	HC2
30	95	CRH2-2-30R95	2x150WP	HC2
30	120	CRH2-2-30R120	2x200WP	HC2
30	150	CRH2-2-30R150	2x200WP	HC2
30	185	CRH2-3-30R185	3X250WP	HC3
30	240	CRH2-3-30R240	3X200WP	HC3
30	300	CRH2-3-30R300	3X200WP	HC3



Cable to reinforcing bar CRV2

Cable to reinforcing bar CRV2		Part Number		
Reinforcing bar size A Ø (mm²)	Stranded/Solid circular Conductor Size B (mm²)	Standard Mould	Powder Cartridge	Handle Clamp
10-40	16*	CRV2-1-16	45WP	HC1
10-40	25	CRV2-1-25	45WP	HC1
10-40	35	CRV2-1-35	45WP	HC1
10-40	50	CRV2-1-50	90WP	HC1
10-40	70	CRV2-1-70	90WP	HC1
10-40	95	CRV2-1-95	90WP	HC1
10-40	120	CRV2-1-120	90WP	HC1

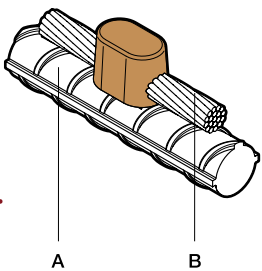
* 2 x SM101 Sleeve required, Conductor less than16 mm2 or smaller



Cable to reinforcing bar CRV1

Cable to reinforcing bar CRV2		Part Number		
Reinforcing bar size A Ø (mm²)	Stranded/Solid circular Conductor Size B (mm²)	Standard Mould	Powder Cartridge	Handle Clamp
10-40	16*	CRV2-1-16	45WP	HC1
10-40	25	CRV1-1-25	45WP	HC1
10-40	35	CRV1-1-35	45WP	HC1
10-40	50	CRV1-1-50	65WP	HC1
10-40	70	CRV1-1-70	90WP	HC1
10-40	95	CRV1-1-95	90WP	HC1
10-40	120	CRV1-1-120	115WP	HC1

* 1 x SM101 Sleeve required, Conductor less than16 mm2 or smaller



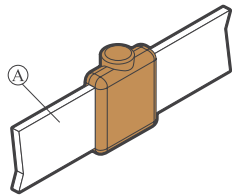
Cable to reinforcing bar CRH4

Cable to reinforcing bar CRH4		Part Number		
Reinforcing bar size A Ø (mm²)	Stranded/Solid circular Conductor Size B (mm²)	Standard Mould	Powder Cartridge	Handle Clamp
10-40	16*	CRH4-1-16	45WP	HC1
10-40	25	CRH4-1-25	45WP	HC1
10-40	35	CRH4-1-35	45WP	HC1
10-40	50	CRH4-1-50	90WP	HC1
10-40	70	CRH4-1-70	90WP	HC1
10-40	95	CRH4-1-95	90WP	HC1
10-40	120	CRH4-1-120	90WP	HC1

* 2 x SM101 Sleeve required, Conductor less than16 mm2 or smaller



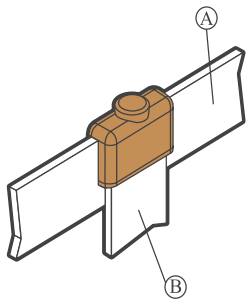
Bar to Bar BBV1



Bar to Bar BBV1		Part Number		
Flat tape conductor size A(mm)	Standard Mould	Powder Cartridge	Handle Clamp	
20x3	BBV1-1-203	45WP	HC1	
25x3	BBV1-1-253	65WP	HC1	
25x4	BBV1-1-254	90WP	HC1	
25x6	BBV1-1-256	150WP	HC1	
30x2	BBV1-1-302	65WP	HC1	
30x3	BBV1-1-303	90WP	HC1	
30x4	BBV1-1-304	115WP	HC1	
30x5	BBV1-1-305	115WP	HC1	
31x3	BBV1-1-313	90WP	HC1	
31x6	BBV1-1-316	150WP	HC1	
38x3	BBV1-1-383	115WP	HC1	
38x5	BBV1-1-385	150WP	HC1	
38x6	BBV1-1-386	200WP	HC1	
40x3	BBV1-1-403	115WP	HC1	
40x4	BBV1-1-404	150WP	HC1	
40x5	BBV1-1-405	150WP	HC1	
40x6	BBV1-1-406	200WP	HC1	
50x3	BBV1-1-503	150WP	HC1	
50x4	BBV1-1-504	200WP	HC1	
50x5	BBV1-1-505	200WP	HC1	
50x6	BBV1-1-506	250WP	HC1	

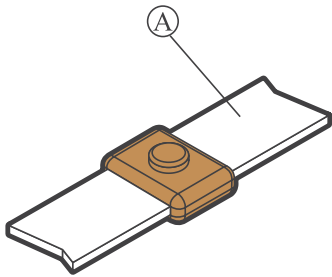
* 1 x SM101 Sleeve required, Conductor less than16 mm2 or smaller

Bar to Bar BBV2



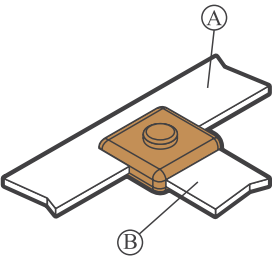
Bar to Bar BBV1		Part Number		
Flat tape conductor size A(mm)	Stranded/Solid circular conductor size B (mm ²)	Standard Mould	Powder Cartridge	Handle Clamp
20x3	20x3	BBV2-1-203203	65WP	HC1
25x3	25x3	BBV2-1-253253	65WP	HC1
25x4	25x4	BBV2-1-254254	90WP	HC1
25x6	25x6	BBV2-1-256256	150WP	HC1
30x2	30x2	BBV2-1-302302	65WP	HC1
30x3	30x3	BBV2-1-303303	90WP	HC1
30x4	30x4	BBV2-1-304304	115WP	HC1
30x5	30x5	BBV2-1-305305	115WP	HC1
31x3	31x3	BBV2-1-313313	115WP	HC1
31x6	31x6	BBV2-1-316316	200WP	HC1
38x3	38x3	BBV2-1-383383	115WP	HC1
38x5	38x5	BBV2-1-385385	150WP	HC1
38x6	38x6	BBV2-1-386386	200WP	HC1
40x3	40x3	BBV2-1-403403	115WP	HC1
40x4	40x4	BBV2-1-404404	150WP	HC1
40x5	40x5	BBV2-1-405405	150WP	HC1
40x6	40x6	BBV2-1-406406	200WP	HC1
50x3	50x3	BBV2-1-503503	200WP	HC1
50x4	50x4	BBV2-1-504504	200WP	HC1
50x5	50x5	BBV2-1-505505	200WP	HC1
50x6	50x6	BBV2-1-506506	250WP	HC1

Bar to Bar BBH1



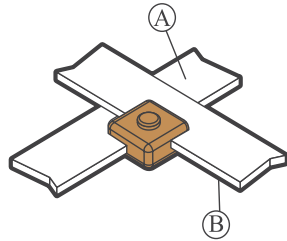
Bar to Bar BBH1		Part Number		
Flat tape conductor size A(mm)	Standard Mould	Powder Cartridge	Handle Clamp	
20x3	BBH1-1-203	45WP	HC1	
25x3	BBH1-1-253	65WP	HC1	
25x4	BBH1-1-254	90WP	HC1	
25x6	BBH1-1-256	115WP	HC1	
30x2	BBH1-1-302	65WP	HC1	
30x3	BBH1-1-303	65WP	HC1	
30x4	BBH1-1-304	90WP	HC1	
30x5	BBH1-1-305	115WP	HC1	
31x3	BBH1-1-313	65WP	HC1	
31x6	BBH1-1-316	150WP	HC1	
38x3	BBH1-1-383	90WP	HC1	
38x5	BBH1-1-385	150WP	HC1	
38x6	BBH1-1-386	200WP	HC1	
40x3	BBH1-1-403	90WP	HC1	
40x4	BBH1-1-404	115WP	HC1	
40x5	BBH1-1-405	150WP	HC1	
40x6	BBH1-1-406	200WP	HC1	
50x3	BBH1-2-503	150WP	HC2	
50x4	BBH1-2-504	200WP	HC2	
50x5	BBH1-2-505	200WP	HC2	
50x6	BBH1-2-506	250WP	HC2	

Bar to Bar BBH2



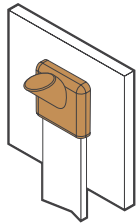
Bar to Bar BBV1		Part Number		
Flat tape conductor size A(mm)	Stranded/Solid circular conductor size B (mm²)	Standard Mould	Powder Cartridge	Handle Clamp
20x3	20x3	BBH2-1-203203	45WP	HC1
25x3	25x3	BBH2-1-253253	65WP	HC1
25x4	25x4	BBH2-1-254254	90WP	HC1
25x6	25x6	BBH2-1-256256	115WP	HC1
30x2	30x2	BBH2-1-302302	65WP	HC1
30x3	30x3	BBH2-1-303303	90WP	HC1
30x4	30x4	BBH2-1-304304	90WP	HC1
30x5	30x5	BBH2-1-305305	115WP	HC1
31x3	31x3	BBH2-1-313313	65WP	HC1
31x6	31x6	BBH2-1-316316	150WP	HC1
38x3	38x3	BBH2-1-383383	90WP	HC1
38x5	38x5	BBH2-1-385385	150WP	HC1
38x6	38x6	BBH2-1-386386	200WP	HC1
40x3	40x3	BBH2-1-403403	90WP	HC1
40x4	40x4	BBH2-1-404404	115WP	HC1
40x5	40x5	BBH2-1-405405	150WP	HC1
40x6	40x6	BBH2-1-406406	200WP	HC1
50x3	50x3	BBH2-2-503503	150WP	HC2
50x4	50x4	BBH2-2-504504	200WP	HC2
50x5	50x5	BBH2-2-505505	200WP	HC2
50x6	50x6	BBH2-2-506506	250WP	HC2

Bar to Bar BBH4



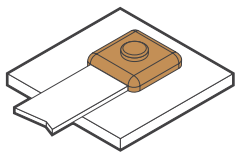
Bar to Bar BBH4		Part Number		
Flat tape conductor size A(mm)	Stranded/Solid circular conductor size B (mm²)	Standard Mould	Powder Cartridge	Handle
20x3	20x3	BBH4-1-203203	65WP	HC1
25x3	25x3	BBH4-1-253253	65WP	HC1
25x4	25x4	BBH4-1-254254	90WP	HC1
25x6	25x6	BBH4-1-256256	115WP	HC1
30x2	30x2	BBH4-1-302302	65WP	HC1
30x3	30x3	BBH4-1-303303	115WP	HC1
30x4	30x4	BBH4-1-304304	115WP	HC1
30x5	30x5	BBH4-1-305305	115WP	HC1
31x3	31x3	BBH4-1-313313	115WP	HC1
31x6	31x6	BBH4-1-316316	115WP	HC1
38x3	38x3	BBH4-1-383383	150WP	HC1
38x5	38x5	BBH4-1-385385	150WP	HC1
38x6	38x6	BBH4-1-386386	200WP	HC1
40x3	40x3	BBH4-1-403403	200WP	HC1
40x4	40x4	BBH4-1-404404	200WP	HC1
40x5	40x5	BBH4-1-405405	200WP	HC1
40x6	40x6	BBH4-1-406406	200WP	HC1
50x3	50x3	BBH4-2-503503	200WP	HC2
50x4	50x4	BBH4-2-504504	200WP	HC2
50x5	50x5	BBH4-2-505505	200WP	HC2
50x6	50x6	BBH4-2-506506	200WP	HC2

Bar to Steel surface BSV1



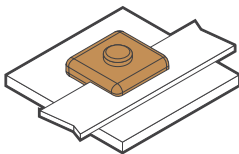
Bar to Steel surface BSV1		Part Number		
Flat tape conductor size A(mm)		Standard Mould	Powder Cartridge	Handle Clamp
20x3		BSV1-1-203	65WP	HC1
25x3		BSV1-1-253	90WP	HC1
25x4		BSV1-1-254	90WP	HC1
25x6		BSV1-1-256	150WP	HC1
30x2		BSV1-1-302	90WP	HC1
30x3		BSV1-1-303	90WP	HC1
30x4		BSV1-1-304	90WP	HC1
30x5		BSV1-1-305	115WP	HC1
40x3		BSV1-1-403	150WP	HC1
40x4		BSV1-1-404	150WP	HC1
40x5		BSV1-1-405	200WP	HC1
40x6		BSV1-1-406	200WP	HC1
50x3		BSV1-1-503	250WP	HC1
50x4		BSV1-1-504	200WP	HC1
50x5		BSV1-1-505	250WP	HC1
50x6		BSV1-2-506	2x150WP	HC2

Bar to Steel BSH1



Bar to Steel surface BSH1		Part Number		
Flat tape conductor size A(mm)	Standard Mould	Powder Cartridge	Handle Clamp	
20x3	BSH1-1-203	90WP	HC1	
25x3	BSH1-1-253	90WP	HC1	
25x4	BSH1-1-254	90WP	HC1	
25x6	BSH1-1-256	150WP	HC1	
30x2	BSH1-1-302	115WP	HC1	
30x3	BSH1-1-303	115WP	HC1	
30x4	BSH1-1-304	150WP	HC1	
30x5	BSH1-1-305	200WP	HC1	
40x3	BSH1-1-403	115WP	HC1	
40x4	BSH1-1-404	200WP	HC1	
40x5	BSH1-1-405	200WP	HC1	
40x6	BSH1-1-406	250WP	HC1	
50x3	BSH1-1-503	200WP	HC1	
50x4	BSH1-2-504	2x150WP	HC2	
50x5	BSH1-2-505	2x150WP	HC2	
50x6	BSH1-2-506	2x150WP	HC2	

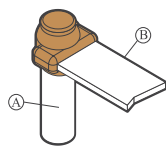
Bar to Steel BSH2



Bar to Steel surface BSH2		Part Number		
Flat tape conductor size A(mm)	Standard Mould	Powder Cartridge	Handle Clamp	
20x3	BSH2-1-203	90WP	HC1	
25x3	BSH2-1-253	115WP	HC1	
25x4	BSH2-1-254	115WP	HC1	
25x6	BSH2-1-256	150WP	HC1	
30x2	BSH2-1-302	115WP	HC1	
30x3	BSH2-1-303	115WP	HC1	
30x4	BSH2-1-304	150WP	HC1	
30x5	BSH2-1-305	200WP	HC1	
40x3	BSH2-1-403	150WP	HC1	
40x4	BSH2-1-404	200WP	HC1	
40x5	BSH2-1-405	250WP	HC1	
40x6	BSH2-1-406	250WP	HC1	
50x3	BSH2-1-503	250WP	HC1	
50x4	BSH2-1-504	250WP	HC1	
50x5	BSH2-1-505	250WP	HC1	
50x6	BSH2-1-506	250WP	HC1	



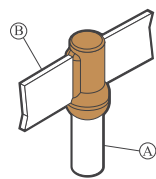
Bar to Earth rod BE1



Bar to Earth rod BE1			Part Number		
Earth rod A Ø (mm) (")		Flat tape conductor size B(mm)	Standard Mould	Powder Cartridge	Handle Clamp
12.7	1/2	20x3	BE1-1-127203	90WP	HC1
12.7	1/2	25x3	BE1-1-127253	90WP	HC1
12.7	1/2	25x4	BE1-1-127254	90WP	HC1
12.7	1/2	30x2	BE1-127302	90WP	HC1
12.7	1/2	30x3	BE1-1-127303	90WP	HC1
12.7	1/2	31x3	BE1-1-127313	90WP	HC1
12.7	1/2	38x3	BE1-1-127383	90WP	HC1
12.7	1/2	40x3	BE1-1-127403	90WP	HC1
12.7	1/2	50x3	BE1-1-127503	115WP	HC1
12.7	1/2	50x6	BE1-1-127506	115WP	HC1
14.2	5/8	20x3	BE1-1-142203	90WP	HC1
14.2	5/8	25x3	BE1-1-142253	90WP	HC1
14.2	5/8	25x4	BE1-1-142254	115WP	HC1
14.2	5/8	25x6	BE1-1-142256	115WP	HC1
14.2	5/8	30x2	BE1-1-142302	115WP	HC1
14.2	5/8	30x3	BE1-1-142303	115WP	HC1
14.2	5/8	30x4	BE1-1-142304	150WP	HC1
14.2	5/8	30x5	BE1-1-142305	150WP	HC1
14.2	5/8	31x3	BE1-1-142313	115WP	HC1
14.2	5/8	31x6	BE1-1-142316	150WP	HC1
14.2	5/8	38x3	BE1-1-142383	115WP	HC1
14.2	5/8	38x5	BE1-1-142385	150WP	HC1
14.2	5/8	38x6	BE1-1-142386	200WP	HC1
14.2	5/8	40x3	BE1-1-142403	115WP	HC1
14.2	5/8	40x4	BE1-1-142404	150WP	HC1
14.2	5/8	40x5	BE1-1-142405	150WP	HC1
14.2	5/8	40x6	BE1-1-142406	200WP	HC1
14.2	5/8	50x3	BE1-1-142503	150WP	HC1
14.2	5/8	50x4	BE1-1-142504	200WP	HC1
14.2	5/8	50x5	BE1-1-142505	200WP	HC1
14.2	5/8	50x6	BE1-1-142506	200WP	HC1

17.2	3/4	20x3	BE1-1-172203	115WP	HC1
17.2	3/4	25x3	BE1-1-172253	150WP	HC1
17.2	3/4	25x4	BE1-1-172254	150WP	HC1
17.2	3/4	25x6	BE1-1-172256	200WP	HC1
17.2	3/4	30x2	BE1-1-172302	150WP	HC1
17.2	3/4	30x3	BE1-1-172303	150WP	HC1
17.2	3/4	30x4	BE1-1-172304	200WP	HC1
17.2	3/4	30x5	BE1-1-172305	200WP	HC1
17.2	3/4	31x6	BE1-1-172316	250WP	HC1
17.2	3/4	38x3	BE1-1-172383	200WP	HC1
17.2	3/4	38x5	BE1-1-172385	200WP	HC1
17.2	3/4	38x6	BE1-2-172386	2x150WP	HC2
17.2	3/4	40x3	BE1-1-172403	200WP	HC1
17.2	3/4	40x4	BE1-1-172404	200WP	HC1
17.2	3/4	40x5	BE1-1-172405	200WP	HC1
17.2	3/4	40x6	BE1-2-172406	2x150WP	HC2
17.2	3/4	50x3	BE1-2-172503	2x150WP	HC2
17.2	3/4	50x4	BE1-2-172504	2x150WP	HC2
17.2	3/4	50x4	BE1-2-172505	2x150WP	HC2
17.2	3/4	50x6	BE1-2-172506	2x150WP	HC2

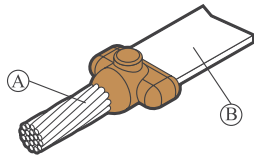
Bar to Earth rod BEV2



Bar to Earth rod BE1			Part Number		
Earth rod A Ø (mm) (")		Flat tape conductor size B(mm)	Standard Mould	Powder Cartridge	Handle Clamp
12.7	1/2	20x3	BEV2-1-127203	90WP	HC1
12.7	1/2	25x3	BEV2-1-127253	90WP	HC1
12.7	1/2	25x4	BEV2-1-127254	90WP	HC1
12.7	1/2	30x2	BEV2-127302	90WP	HC1
12.7	1/2	30x3	BEV2-1-127303	90WP	HC1
12.7	1/2	31x3	BEV2-1-127313	90WP	HC1
12.7	1/2	38x3	BEV2-1-127383	90WP	HC1
12.7	1/2	40x3	BEV2-1-127403	90WP	HC1
12.7	1/2	50x3	BEV2-1-127503	115WP	HC1
14.2	5/8	20x3	BEV2-1-142203	90WP	HC1
14.2	5/8	25x3	BEV2-1-142253	90WP	HC1
14.2	5/8	25x4	BEV2-1-142254	115WP	HC1
14.2	5/8	25x6	BEV2-1-142256	150WP	HC1
14.2	5/8	30x2	BEV2-1-142302	90WP	HC1
14.2	5/8	30x3	BEV2-1-142303	115WP	HC1
14.2	5/8	30x4	BEV2-1-142304	150WP	HC1
14.2	5/8	30x5	BEV2-1-142305	150WP	HC1
14.2	5/8	31x3	BEV2-1-142313	115WP	HC1
14.2	5/8	31x6	BEV2-1-142316	150WP	HC1
14.2	5/8	38x3	BEV2-1-142383	150WP	HC1
14.2	5/8	38x5	BEV2-1-142385	150WP	HC1
14.2	5/8	38x6	BEV2-1-142386	200WP	HC1
14.2	5/8	40x3	BEV2-1-142403	250WP	HC1
14.2	5/8	40x4	BEV2-1-142404	150WP	HC1
14.2	5/8	40x5	BEV2-1-142405	150WP	HC1
14.2	5/8	40x6	BEV2-1-142406	200WP	HC1
14.2	5/8	50x3	BEV2-1-142503	200WP	HC1
14.2	5/8	50x4	BEV2-1-142504	200WP	HC1
14.2	5/8	50x5	BEV2-1-142505	200WP	HC1
14.2	5/8	50x6	BEV2-1-142506	250WP	HC1
17.2	3/4	20x3	BEV2-1-172203	150WP	HC1
17.2	3/4	25x3	BEV2-1-172253	150WP	HC1

17.2	3/4	25x4	BEV2-1-172254	200WP	HC1
17.2	3/4	25x6	BEV2-1-172256	200WP	HC1
17.2	3/4	30x2	BEV2-1-172302	150WP	HC1
17.2	3/4	30x3	BEV2-1-172303	150WP	HC1
17.2	3/4	30x4	BEV2-1-172304	200WP	HC1
17.2	3/4	30x5	BEV2-1-172305	200WP	HC1
17.2	3/4	31x3	BEV2-1-172313	200WP	HC1
17.2	3/4	31x6	BEV2-1-172316	250WP	HC1
17.2	3/4	38x3	BEV2-1-172383	200WP	HC1
17.2	3/4	38x5	BEV2-1-172385	200WP	HC1
17.2	3/4	38x6	BEV2-1-172386	250WP	HC1
17.2	3/4	40x3	BEV2-2-172403	200WP	HC2
17.2	3/4	40x4	BEV2-1-172404	200WP	HC1
17.2	3/4	40x5	BEV2-1-172405	200WP	HC1
17.2	3/4	40x6	BEV2-1-172406	250WP	HC1
17.2	3/4	50x3	BEV2-2-172503	2x150WP	HC2
17.2	3/4	50x4	BEV2-2-172504	2x150WP	HC2
17.2	3/4	50x5	BEV2-2-172505	2x150WP	HC2
17.2	3/4	50x6	BEV2-2-172506	2x150WP	HC2

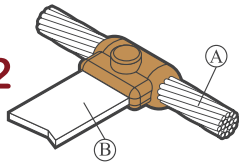
Cable to Bar CB1



Cable to Bar CB1		Part Number		
Stranded/Solid circular conductor size A (mm²)	Flat tape conductor size B (mm)	Standard Mould	Powder Cartridge	Handle Clamp
16*	20x3	CB1-1-16203	45WP	HC1
16*	25x3	CB1-1-16253	45WP	HC1
25	20x3	CB1-1-25203	45WP	HC1
25	25x3	CB1-1-25253	45WP	HC1
35	20x3	CB1-1-35203	45WP	HC1
35	25x3	CB1-1-35253	45WP	HC1
50	20x3	CB1-1-50203	45WP	HC1
50	25x3	CB1-1-50253	65WP	HC1
70	25x3	CB1-1-70253	65WP	HC1
70	25x4	CB1-1-70254	65WP	HC1
70	25x6	CB1-1-70256	65WP	HC1
95	25x4	CB1-1-95254	90WP	HC1
95	25x6	CB1-1-95256	90WP	HC1
120	25x6	CB1-1-120256	90WP	HC1
120	30x5	CB1-1-120305	115WP	HC1
150	25x6	CB1-1-150256	115WP	HC1
150	30x5	CB1-1-150305	115WP	HC1
150	40x5	CB1-1-150405	150WP	HC1
185	31x6	CB1-1-185316	150WP	HC1
185	40x5	CB1-1-185405	150WP	HC1
185	50x5	CB1-2-185505	200WP	HC2
240	50x5	CB1-2-240505	200WP	HC2
240	50x6	CB1-2-240506	2x150WP	HC2
300	50x6	CB1-2-300506	2x150WP	HC2

* 1 x SM101 Sleeve required, Conductor less than16 mm² or smaller

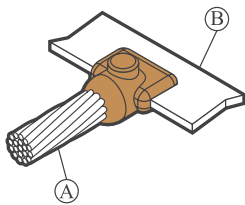
Cable to Bar CB2



Cable to Bar CB2		Part Number		
Stranded/Solid circular conductor size A (mm²)	Flat tape conductor size B (mm)	Standard Mould	Powder Cartridge	Handle Clamp
16*	20x3	CB2-1-16203	45WP	HC1
16*	25x3	CB2-1-16253	65WP	HC1
25	20x3	CB2-1-25203	45WP	HC1
25	25x3	CB2-1-25253	65WP	HC1
35	20x3	CB2-1-35203	45WP	HC1
35	25x3	CB2-1-35253	65WP	HC1
50	20x3	CB2-1-50203	65WP	HC1
50	25x3	CB2-1-50253	65WP	HC1
70	25x3	CB2-1-70253	90WP	HC1
70	25x4	CB2-1-70254	115WP	HC1
70	25x6	CB2-1-70256	115WP	HC1
95	25x4	CB2-1-95254	150WP	HC1
95	25x6	CB2-1-95256	150WP	HC1
120	25x6	CB2-1-120256	150WP	HC1
120	30x5	CB2-1-120305	200WP	HC1
150	25x6	CB2-1-150256	200WP	HC1
150	30x5	CB2-1-150305	200WP	HC1
150	40x5	CB2-1-150405	250WP	HC1
185	31x6	CB2-1-185316	250WP	HC1
185	40x5	CB2-1-185405	250WP	HC1
185	50x5	CB2-2-185505	2x150WP	HC2
240	50x5	CB2-2-240505	2x150WP	HC2
240	50x6	CB2-2-240506	2x200WP	HC2
300	50x6	CB2-2-300506	2x200WP	HC3

* 2 x SM101 Sleeve required, Conductor less than16 mm² or smaller

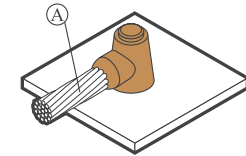
Cable to Bar BC2



Cable to Bar BC2		Part Number		
Stranded/Solid circular conductor size A (mm²)	Flat tape conductor size B (mm)	Standard Mould	Powder Cartridge	Handle Clamp
16*	20x3	BC2-1-16203	45WP	HC1
16*	25x3	BC2-1-16253	45WP	HC1
25	20x3	BC2-1-25203	45WP	HC1
25	25x3	BC2-1-25253	45WP	HC1
35	20x3	BC2-1-35203	45WP	HC1
35	25x3	BC2-1-35253	45WP	HC1
50	20x3	BC2-1-50203	45WP	HC1
50	25x3	BC2-1-50253	45WP	HC1
70	25x3	BC2-1-70253	65WP	HC1
70	25x4	BC2-1-70254	65WP	HC1
70	25x6	BC2-1-70256	90WP	HC1
95	25x4	BC2-1-95254	90WP	HC1
95	25x6	BC2-1-95256	115WP	HC1
120	25x6	BC2-1-120256	115WP	HC1
120	30x5	BC2-1-120305	115WP	HC1
150	25x6	BC21-1-150256	115WP	HC1
150	30x5	BC2-1-150305	115WP	HC1
150	40x5	BC2-1-150405	115WP	HC1
185	31x6	BC2-1-185316	150WP	HC1
185	40x5	BC2-1-185405	150WP	HC1
185	50x5	BC2-1-185505	150WP	HC1
240	50x5	BC2-1-240505	200WP	HC1
240	50x6	BC2-1-240506	250WP	HC1
300	50x6	BC2-2-300506	2x150WP	HC2

* 1 x SM101 Sleeve required, Conductor less than16 mm² or smaller

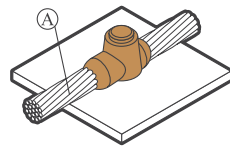
Cable to Steel Surface & Pipe CS1



Cable to Steel Surface & Pipe CS1		Part Number	
Stranded/Solid circular conductor size A (mm²)	Standard Mould	Powder Cartridge	Handle Clamp
16*	CS1-1-16	65WP	HC1
25	CS1-1-25	65WP	HC1
35	CS1-1-35	65WP	HC1
50	CS1-1-50	90WP	HC1
70	CS1-1-70	90WP	HC1
95	CS1-1-95	115WP	HC1
120	CS1-1-120	115WP	HC1
150	CS1-1-150	200WP	HC1
185	CS1-1-185	250WP	HC1
240	CS1-2-240	2x150WP	HC2
300	CS1-2-300	2x150WP	HC2

* 1 x SM101 Sleeve required, Conductor less than16 mm² or smaller

Cable to Steel Surface & Pipe CSH2



Cable to Steel Surface & Pipe CSH2		Part Number	
Stranded/Solid circular conductor size A (mm²)	Standard Mould	Powder Cartridge	Handle Clamp
16*	CSH2-1-16	65WP	HC1
25	CSH2-1-25	65WP	HC1
35	CSH2-1-35	65WP	HC1
50	CSH2-1-50	90WP	HC1
70	CSH2-1-70	115WP	HC1
95	CS1-1-95	115WP	HC1
120	CSH2-1-120	150WP	HC1
150	CSH2-1-150	200WP	HC1
185	CSH2-1-185	250WP	HC1
240	CSH2-2-240	2x150WP	HC2
300	CSH2-2-300	2x200WP	HC2

* 2 x SM101 Sleeve required, Conductor less than16 mm² or smaller

4.2 ICMS Weld Accessories

Traditional Exothermic Welding Powder

Part Number	Description
25WP	Exothermic Welding Powder 25Grams
32WP	Exothermic Welding Powder 32Grams
45WP	Exothermic Welding Powder 45Grams
65WP	Exothermic Welding Powder 65Grams
90WP	Exothermic Welding Powder 90Grams
115WP	Exothermic Welding Powder 115Grams
150WP	Exothermic Welding Powder 150Grams
200WP	Exothermic Welding Powder 200Grams
250WP	Exothermic Welding Powder 250Grams



Electronic Exothermic Welding Powder

Part Number	Description
65WP-E	Exothermic Welding Powder 65Grams
90WP-E	Exothermic Welding Powder 90Grams
115WP-E	Exothermic Welding Powder 115Grams
150WP-E	Exothermic Welding Powder 150Grams
200WP-E	Exothermic Welding Powder 200Grams
250WP-E	Exothermic Welding Powder 250Grams



Handle Clamp

Part Number	Description
HC1	Handle Clamp
HC2	Handle Clamp
HC3	Handle Clamp
HC4	Handle Clamp with Chain



Electronic Starter

Part Number	Description
EES	Electronic Starter

Tool Kit

Part Number	Description
TLK	FGUN : Flint Gun
	MS : Mould Sealer
	SC : Mould Cleaning Scraper
	TCB : Conductor Cleaning Brush
	MCB : Mould Cleaning Brush

Flint Gun



Part Number	Description
FGUN	Flint Gun

Mould Sealer



Part Number	Description
MS	Mould Sealer

Mould Cleaning Scraper



Part Number	Description
SC	Mould Cleaning Scraper

Conductor Cleaning Brush



Part Number	Description
TCB	Conductor Cleaning Brush

Gloves



Part Number	Description
GL	Gloves

Mould Cleaning Brush



Part Number	Description
MCB	Mould Cleaning Brush

Insulating Tape



Part Number	Description
IT	Insulating Tape 25mm

Denso Tape



Part Number	Description
DT	Denso Tape