



Kiezm 
We nurture your business

Earthing and Lightning Protection

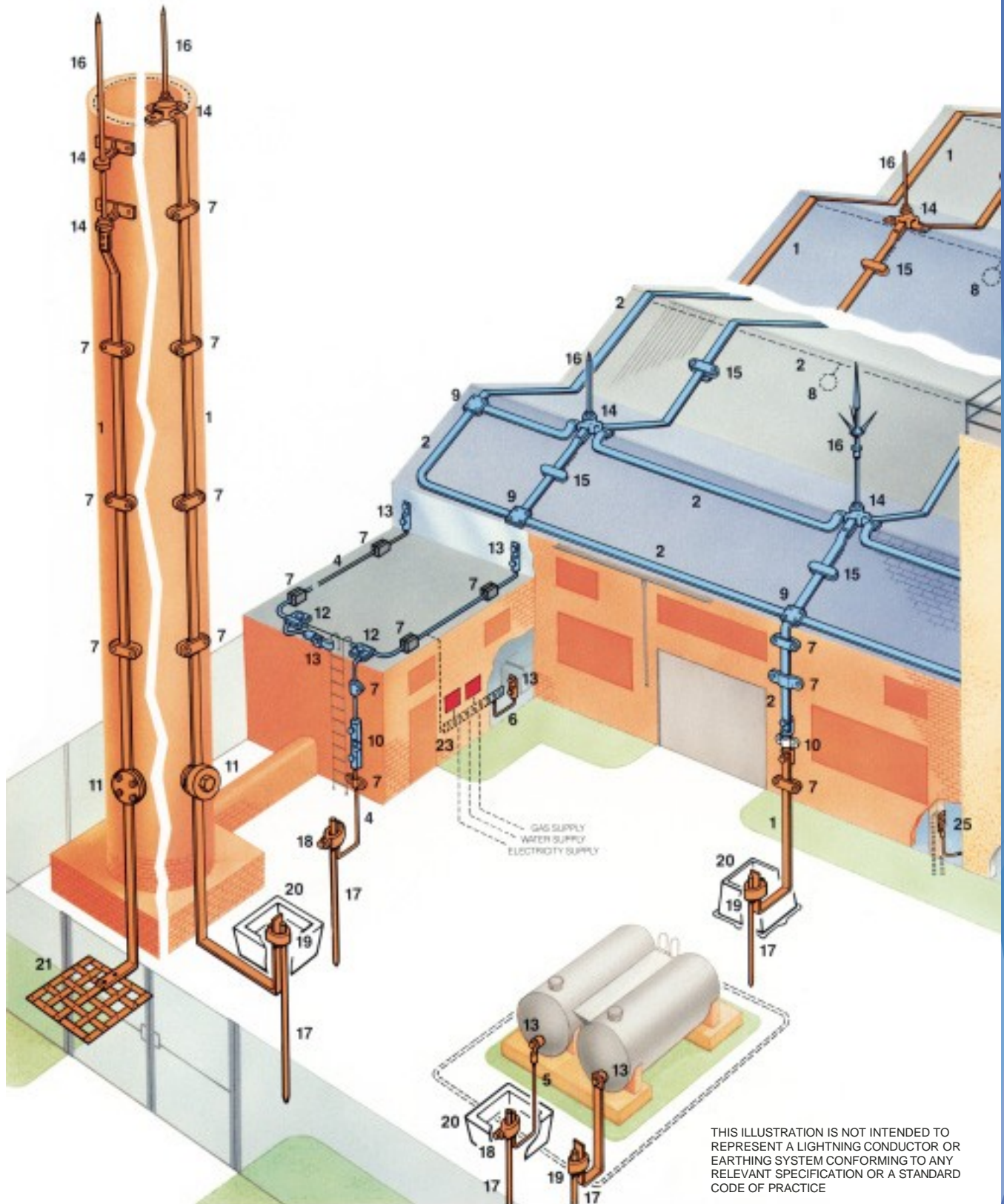


Product Catalogue

CONTENTS

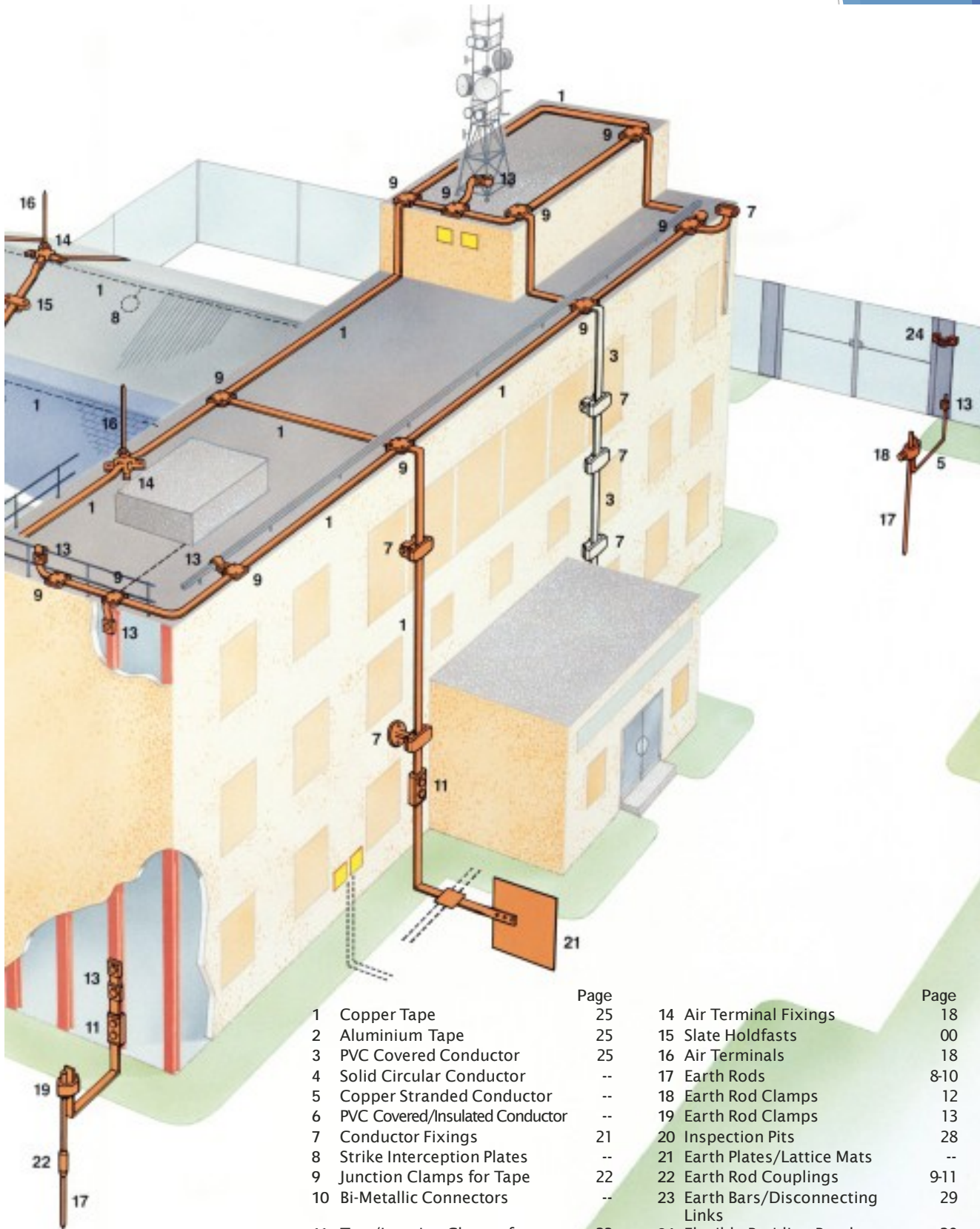
Product Locator	<u>3 - 4</u>
Alphabetical Product Index	<u>6 - 7</u>
Earthing Introduction	<u>5 - 9</u>
Products	<u>10 - 38</u>
Exothermic Products	<u>39 - 48</u>
Part Number Index	<u>49 - 52</u>

PRODUCT LOCATOR



THIS ILLUSTRATION IS NOT INTENDED TO REPRESENT A LIGHTNING CONDUCTOR OR EARTHING SYSTEM CONFORMING TO ANY RELEVANT SPECIFICATION OR A STANDARD CODE OF PRACTICE

PRODUCT LOCATOR



1	Copper Tape	25	14	Air Terminal Fixings	18
2	Aluminium Tape	25	15	Slate Holdfasts	00
3	PVC Covered Conductor	25	16	Air Terminals	18
4	Solid Circular Conductor	--	17	Earth Rods	8-10
5	Copper Stranded Conductor	--	18	Earth Rod Clamps	12
6	PVC Covered/Insulated Conductor	--	19	Earth Rod Clamps	13
7	Conductor Fixings	21	20	Inspection Pits	28
8	Strike Interception Plates	--	21	Earth Plates/Lattice Mats	--
9	Junction Clamps for Tape	22	22	Earth Rod Couplings	9-11
10	Bi-Metallic Connectors	--	23	Earth Bars/Disconnecting Links	29
11	Test/Junction Clamps for Tape	23	24	Flexible Braiding Bonds	29
12	Conductor Saddles	50	25	Earth Bonding Point	17
13	Bonds	15			

LIGHTNING PROTECTION CONCEPT DESIGN

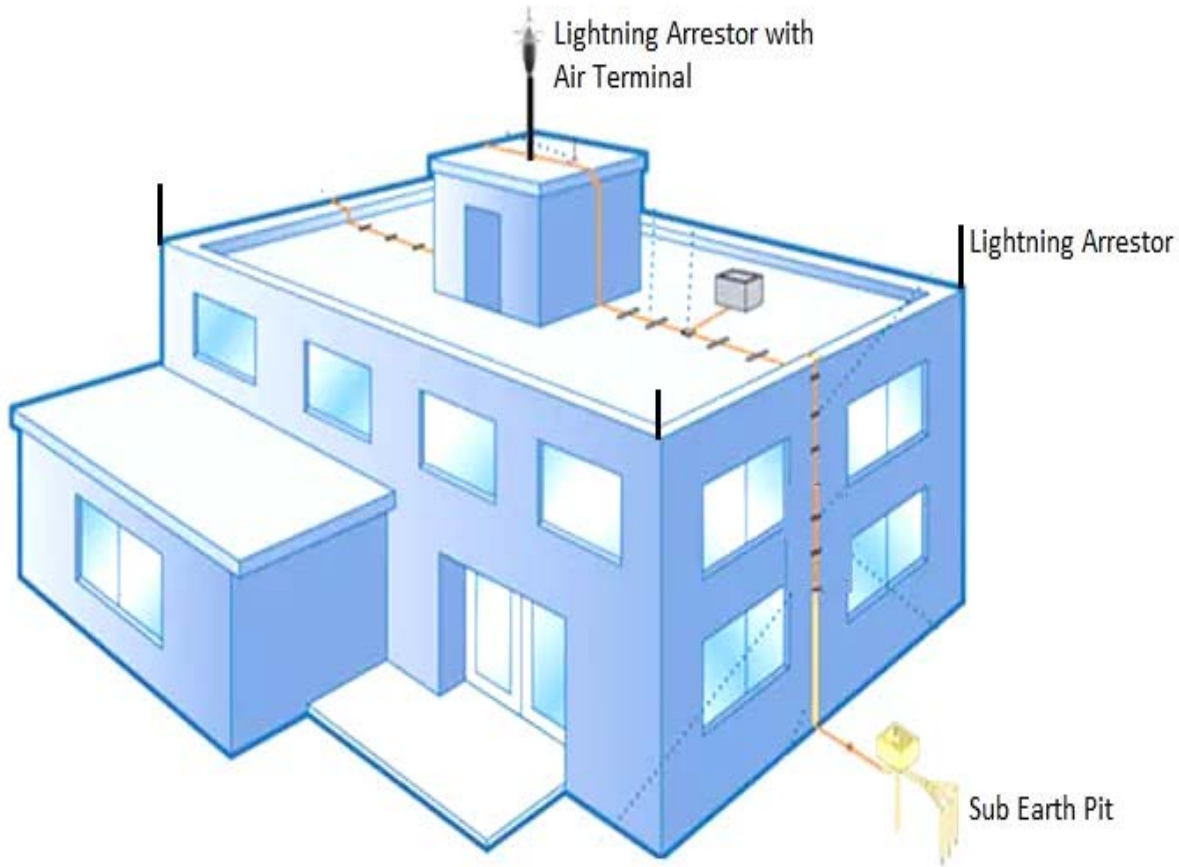


Fig: Spacing of Building Lightning Arrester System



The Lightning Phenomenon

Lightning is the phenomenon which accompanies the discharge of atmospheric charges from cloud to cloud or from cloud to earth. As lightning seeks the path of the least resistance, it naturally tends to follow the shortest way between cloud and earth, such as buildings or towering projections. As illustrated positive electrical charges gather in the clouds and negative charges gather in the ground. When the attraction between these two charges are strong enough they come together in the form of lightning.

Lightning arrester equipment, properly manufactured and installed, dissipates the charges. In temperate climates a large majority of lightning is negative downwards lightning, as the negatively-charged cloud-base discharges to the ground.



The TMDS Earthing & Lightning Protection System comprise of few principal components:

- Air Terminal on the Roof
- Down conductors connected to Earth Pit
- Entire Earthing Network in the Building
- Bonding to all the equipment in the Building

BS EN 50164 series: Lightning protection components (LPC)

The BS EN 50164 series of standards focuses on design and performance of components which are to be installed in an external LPS.

Designers/users of these systems need to be assured that the components, conductors, earth electrodes etc that will be installed have the requisite durability to survive long term exposure to the environmental elements whilst retaining the ability to dissipate lightning current safely and harmlessly to earth.

The BS EN 50164 series of standards defines the processes by which these critical lightning protection components are judged fit for purpose.

There are currently seven parts to the series:

- | BS EN 50164-1:2008 Lightning protection components (LPC) Part 1: Requirement for connection components
- | BS EN 50164-2:2008 Lightning protection components (LPC) Part 2: Requirements for conductors and earth electrodes
- | BS EN 50164-3:2009 Lightning protection components (LPC) Part 3: Requirements for isolating spark gaps (ISG)
- | BS EN 50164-4:2008 Lightning protection components (LPC) Part 4: Requirements for conductor fasteners
- | BS EN 50164-5:2009 Lightning protection components (LPC) Part 5: Requirements for earth electrode inspection housings and earth electrode seals
- | BS EN 50164-6:2009 Lightning protection components (LPC) Part 6: Requirements for lightning strike counters
- | BS EN 50164-7:2008 Lightning protection components (LPC) Part 7: Requirements for earth enhancing compounds

Note: whilst BS EN 50164 is currently in force, a comparable IEC standard (IEC 62561) is being published in 2012, which in time will supercede BS EN 50164.

Independent testing

Whereas the previous standard focused on the use of specific materials to ensure compliance, BS EN 50164 requires manufacturers to undertake thorough testing and performance measurement of their components in order to gain compliance.

Three specimens of the component are tested, with conductors and specimens prepared and assembled in accordance with the manufacturer's instructions, e.g. to recommended tightening torques.

Testing can include environmental preconditioning (various treatments such as salt mist spray or exposure to a humid sulphurous atmosphere etc.) followed by subjecting components to simulated lightning discharges to assess their capacity to cope with onerous conditions.

Environmental preconditioning is designed to rapidly replicate the effect of component ageing under expected environmental conditions at site, to prove the component's ability to conduct lightning over time.

Testing therefore ensures components have been appropriately constructed for their application, meet the requirements of the standard and will prove safe in use for a number of years.

TMDS product tests are undertaken by an independent RvA Certified test laboratory - The Research Development and Certification Centre, High Voltage and High Current Testing Laboratory - to ensure our products conform to BS EN 50164.

Passing the test

Each part of BS EN 50164 defines its own criteria for satisfactory performance of components.

All three specimens of a tested component must satisfy the conditions set out by BS EN 50164 in order for the testing to be deemed successful.

Following testing, a full test report with certification should be produced by the independent laboratory for all components satisfying the test criteria.

BS EN 50164 requires manufacturers to retain the test report along with adequate documentation to support testing and product application, including installation instructions.

TMDS component performance

By choosing lightning protection components conforming to the BS EN 50164 series, the designer ensures he or she is using the best products on the market and is in compliance with BS EN 62305.

TMDS structural lightning protection and earthing components are therefore rigorously tested to this standard. Our connection components conform to BS EN 50164-1, our conductors and earth electrodes to BS EN 50164-2.

Through independent testing, TMDS products are proven to withstand the constant exposure to the environment as required by an LPS, thereby ensuring they will continue to dissipate lightning current safely and harmlessly to earth over the long term.

**All TMDS connection components
are designed to conform to the
BS EN 50164-1:2008 test procedures**

1. Scope

This European Standard specifies the requirements and tests for

- metallic conductors (other than "natural" conductors) that form part of the air termination system and down conductors,
- metallic earth electrodes that form part of the earth termination system.

Lightning protection components (LPC) may also be suitable for use in hazardous atmospheres. Regard should then be taken of the extra requirements necessary for the components to be installed in such conditions.

2. Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 50164-1 1999 Lightning protection components (LPC) - Part 1: Requirements for connection components

EN 60068-2-52 1996 Environmental testing - Part 2: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution) (IEC 60068-2-52:1996)

IEC 61024-1-2 1998 Protection of structures against lightning - Part 1-2: General Principles - Guide B - Design, installation, maintenance and inspection of lightning protection systems

3. Definitions

For the purpose of this standard, the following definitions apply.

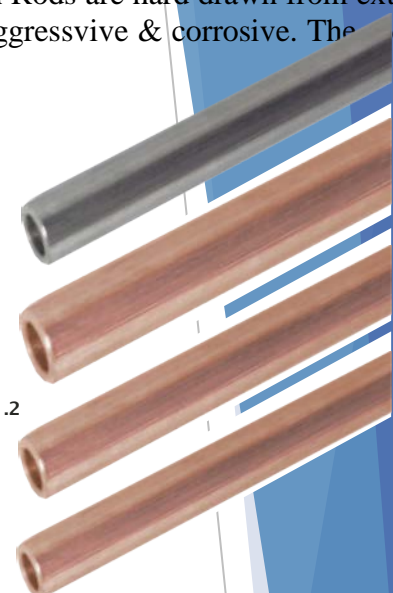
- i. **Air termination system** part of an external lightning protection system which is intended to intercept and conduct lightning flashes
- ii. **Air termination rod or air termination conductor** part of the air termination system for intercepting and conducting direct lightning flashes to the structure
- iii. **Down conductor** part of an external lightning protection system which is intended to conduct lightning current from the air-termination system to the earth-termination system
- iv. **Earth termination system** part of an external lightning protection system which is intended to conduct and disperse lightning current to the earth
- v. **Earth electrode** part or group of parts of the earth-termination system which provides direct electrical contact with and disperses the lightning current to the earth NOTE Typical examples are earth rod, earth conductor and earth plate.
- vi. **Earth rod** earth electrode consisting of a metal rod driven into the ground [IEC 60050 (604-04-06)]
- vii. **Earth conductor** earth electrode consisting of a conductor buried in the ground
- viii. **Earth plate** earth electrode consisting of a metal plate buried in the ground [IEC 60050 (604-04-06)]
- ix. **Joint for earth rod** part of the earth termination system that facilitates the coupling of one section of an earth rod to another, for the purpose of deep driving
- x. **Driving head** tool that is used in those applications where it is necessary to drive the earth rod
- xi. **Earth lead-in rod** rod which is installed between the down conductor/test joint and the earth electrode

Pure Copper Earth Rod And Accessories

Pure Copper Earth Rods are made of pure (100%) electrolytic copper. The Earth Rods are hard drawn from extruded copper bars. Pure copper earth rods are preferred where soil conditions are very aggressive & corrosive. The rods are threaded internally to make it extensible for deep driving with the help of couplers.

Rod Dia mm	L mm	Thread Dia	Thread Type	Weight (KG)	Pack Qty	Catalogue#
15	1200	M10	Internal	1.90	5.00	LS-PCER-15-1.2
15	1500	M10		2.37	5.00	LS-PCER-15-1.5
15	2400	M10		3.79	5.00	LS-PCER-15-2.4
16	1200	M10		2.16	5.00	LS-PCER-16-1.2
16	1500	M10		2.70	5.00	LS-PCER-16-1.5
16	2400	M10		4.31	5.00	LS-PCER-16-2.4
20	1200	M10		3.37	5.00	LS-PCER-20-1.2
20	1500	M10		4.21	5.00	LS-PCER-20-1.5
20	2400	M10		6.74	5.00	LS-PCER-20-2.4

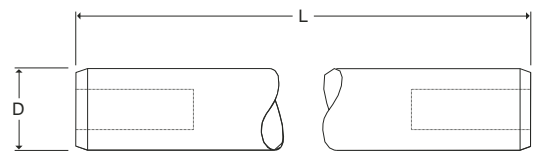
Rod Size	L mm	Thread Dia	Thread Type	Weight (KG)	Pack Qty	Catalogue#
15	1200	15	External	1.90	5.00	LS-PCERE-15-1.2
15	1500	15		2.37	5.00	LS-PCERE-15-1.5
15	2400	15		3.79	5.00	LS-PCERE-15-2.4
16	1200	16		2.16	5.00	LS-PCERE-16-1.2
16	1500	16		2.70	5.00	LS-PCERE-16-1.5
16	2400	16		4.31	5.00	LS-PCERE-16-2.4
20	1200	20		3.37	5.00	LS-PCERE-20-1.2
20	1500	20		4.21	5.00	LS-PCERE-20-1.5
20	2400	20		6.74	5.00	LS-PCERE-20-2.4



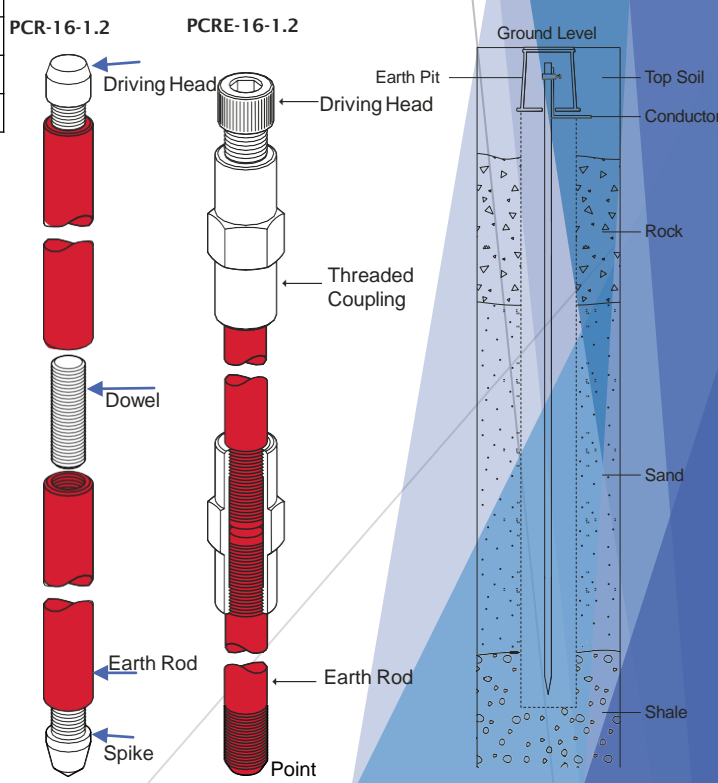
PCER-16-1.2



PCRE-16-1.2



Material:
 99.99% pure electrolytic copper, manufactured from hard drawn copper with purity and mechanical properties to BS 2874, C101 grade.
 •For External Threaded Rods use 5/8" Accessories



Coupling Dowel

Coupling dowel made of brass, stainless steel or steel is a threaded joining device which joins two earth rods together for extending earth rods in an earthing system

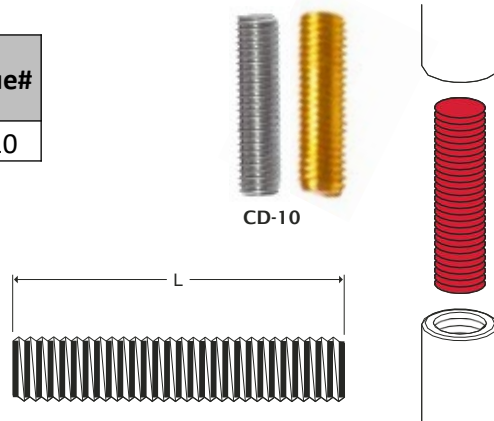
Rod Size	Rod Type	L mm	D mm	Weight (KG)	Pack Qty	Catalogue#
15, 16 or 20	Threaded	40	M10	0.02	10.00	LS-CD-10

Material:

Standard - Brass

For Steel to BS 970 Grade 070M20 suffix – S. For example LS-CDS-10

For Stainless Steel - suffix – SS. For example LS-CDSS-10



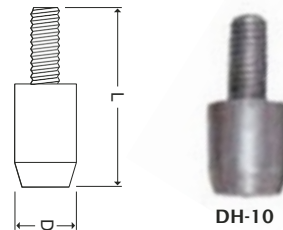
Driving Head

Driving head protects the thread and the top of the rod from damage when driving.

Rod Size	Rod Type	L mm	D mm	Weight (KG)	Pack Qty	Catalogue#
15, 16 or 20	Threaded	40	M10	0.04	10.00	LS-DH-10

Material:

Manufactured from Steel to BS 970 Grade 070M20, grade 070M20



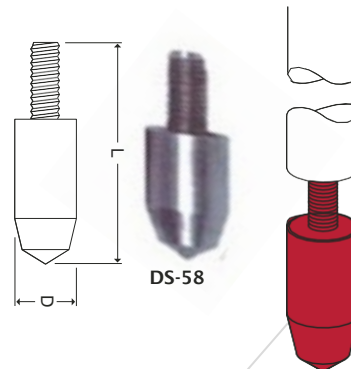
Driving Spike

Driving spike enables the rod to be driven easily and stops the copper rod becoming damaged.

Rod Size	Rod Type	L mm	D mm	Weight (KG)	Pack Qty	Catalogue#
15, 16 or 20	Threaded	40	M10	0.04	10.00	LS-DS-10

Material:

Manufactured from Steel to BS 970 Grade 070M20, grade 070M20

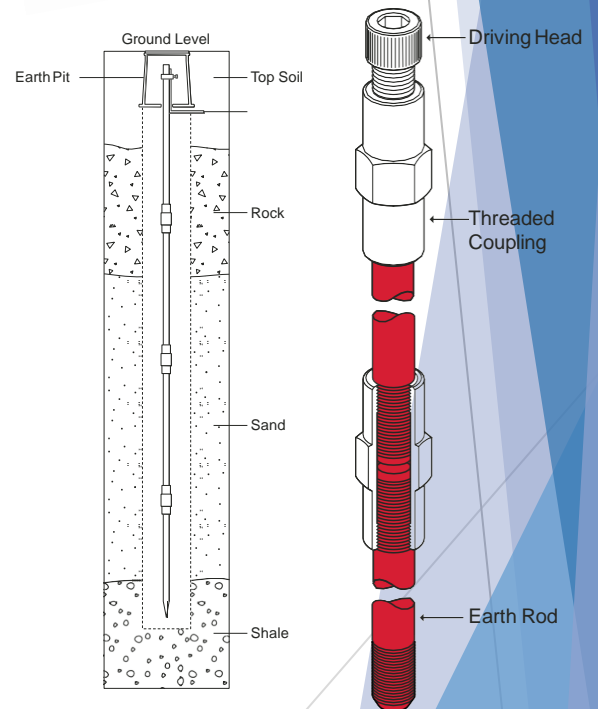


Copper Bonded Steel Earth Rod And Accessories



Copper bonded steel earth rods are the most commonly used earth electrode. They are suitable for most applications, compatible for deep driving & are economical. Copper bonded steel earth rods are made by molecularly bonding 99.9% pure copper onto high carbon, low tensile steel rods.

Rod Size	Rod Type	L mm	L1 mm	D mm	Weight (KG)	Pack Qty	Catalogue#																							
5/8"	Threaded	1200	30	14.2	1.53	5.00	LS-CBSER-58-1.2																							
5/8"	Threaded	1500	30	14.2	1.88	5.00	LS-CBSER-58-1.5																							
5/8"	Threaded	1800	30	14.2	2.29	5.00	LS-CBSER-58-1.8																							
5/8"	Threaded	2400	30	14.2	3.00	5.00	LS-CBSER-58-2.4																							
5/8"	Threaded	3000	30	14.2	3.79	5.00	LS-CBSER-58-3.0																							
3/4"	Threaded	1200	34	17.2	2.19	5.00	LS-CBSER-34-1.2																							
3/4"	Threaded	1500	34	17.2	2.73	5.00 </tr <tr> <td>3/4"</td> <td>Threaded</td> <td>1800</td> <td>34</td> <td>17.2</td> <td>3.27</td> <td>5.00</td> <td>LS-CBSER-34-1.8</td> </tr> <tr> <td>3/4"</td> <td>Threaded</td> <td>2400</td> <td>34</td> <td>17.2</td> <td>4.35</td> <td>5.00</td> <td>LS-CBSER-34-2.4</td> </tr> <tr> <td>3/4"</td> <td>Threaded</td> <td>3000</td> <td>34</td> <td>17.2</td> <td>5.44</td> <td>5.00</td> <td>LS-CBSER-34-3.0</td> </tr>	3/4"	Threaded	1800	34	17.2	3.27	5.00	LS-CBSER-34-1.8	3/4"	Threaded	2400	34	17.2	4.35	5.00	LS-CBSER-34-2.4	3/4"	Threaded	3000	34	17.2	5.44	5.00	LS-CBSER-34-3.0
3/4"	Threaded	1800	34	17.2	3.27	5.00	LS-CBSER-34-1.8																							
3/4"	Threaded	2400	34	17.2	4.35	5.00	LS-CBSER-34-2.4																							
3/4"	Threaded	3000	34	17.2	5.44	5.00	LS-CBSER-34-3.0																							

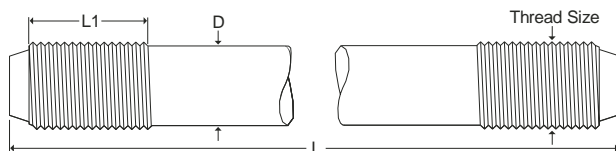


Material:

99.9% pure electrolytic copper molecularly bonded onto a high tensile low carbon steel core minimum standard copper thickness 0.25mm (25 Microns).

* other sizes available on request

** we provide up to 250 micron copper coating on earth rods



Coupler

Couplers made of brass, stainless steel or gunmetal is a threaded joining devise which joins two earth rods together for extending earth rods in an earthing system.

Rod Size	Rod Type	L mm	D mm	D1 mm	Weight (KG)	Pack Qty	Catalogue#
5/8"	Threaded	68	19	21	0.08	5.00	LS-C-58
3/4"	Threaded	79	24	27	0.14	5.00	LS-C-34

* other sizes available on request

** coupler available in other materials, Phosphour Bronze / Silicon Bronze / Gunmetal

Material:
 Standard: Extruded Brass (C-58B or C-34B)

Other sizes available on request

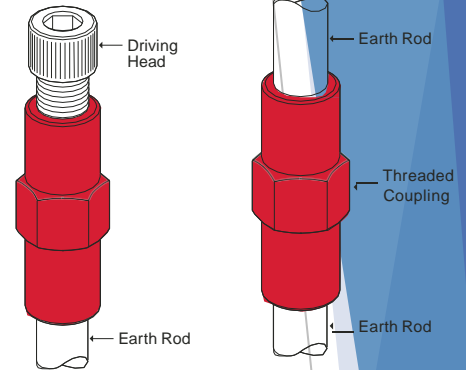
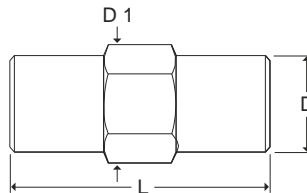
Coupler available in other materials, Suffix: For eg. LS-C-58-PB

PB- Phosphor Bronze

SB- Silicon Bronze

GM- Gunmetal

B-Brass



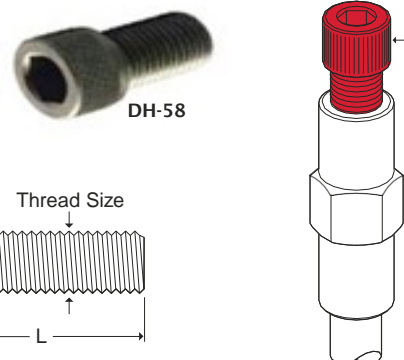
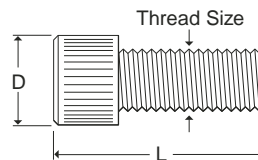
Driving Head

Driving heads are made of toughened steel and used while hammering an earth rod into ground. Driving head protects the relatively soft earth rod from damage while hammering. Driving heads have no further function in earthing & lightning protection.

Rod Size	Rod Type	L mm	D mm	Weight (KG)	Pack Qty	Catalogue #
5/8"	Threaded	54	22	0.08	25	LS-DH-58
3/4"	Threaded	62	25	0.13	25	LS-DH-34

Material:
 High Tensile Steel

other sizes available on request



Clamps & Fittings

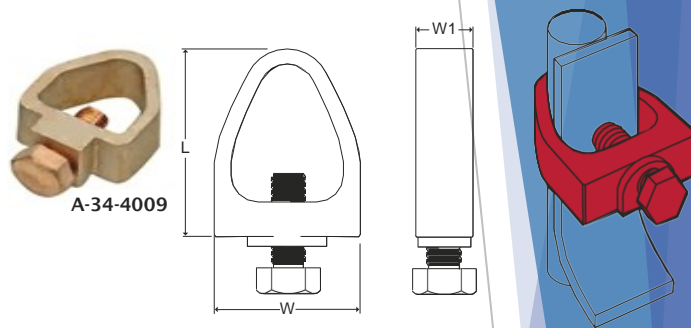


Earthing clamps are used to connect earth electrode (earth rods) with conductors or tapes. The clamps are made of gunmetal.

Rod to Tape Clamp (Type A)

Earthing clamps are used to connect earth electrode (earth rods) with tapes. The earth rod and tape passes through the clamp body and a screw fastener secures both together

Rod Size	Max. Copper Tape	L mm	W mm	W1 mm	Weight (KG)	Pack Qty	Catalogue#
5/8"	26X12	51	36	18	0.15	25.00	LS-A-58-2612
	40X9	44	51	22	0.25	10.00	LS-A-58-4009
	50X19	47	69	21	0.25	10.00	LS-A-58-5019
3/4"	26X12	43	45	18	0.20	10.00	LS-A-34-2612
	40X9	44	51	22	0.25	10.00	LS-A-34-4009
	50X19	47	69	21	0.25	10.00	LS-A-34-5019

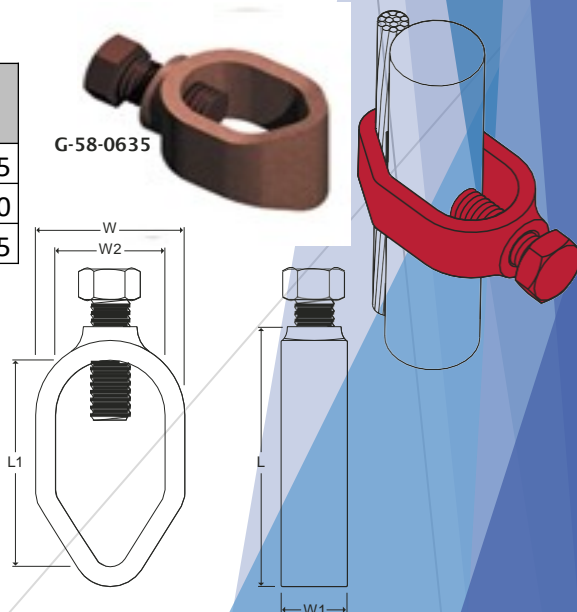


Material:
Body - Gunmetal / Brass (Other materials on request)
Fasteners - Brass.
Suffix - G-Gun Metal, B-Brass

Rod to Cable Clamp (Type G)

Earthing clamps are used to connect earth electrode (earth rods) with conductors. The earth rod and conductor passes through the clamp body and a screw fastener secures both together.

Rod Size	Max. Conductor	L mm	L1 mm	W mm	W1 mm	W2 mm	Bolt mm	Weight (KG)	Pack Qty	Catalogue#
5/8"	6 - 35	44	21	24	15	18	M10 x 20	0.03	25.00	LS-G-58-0635
	16 - 70	41	30	21	18	17	M10 x 25	0.08	25.00	LS-G-58-1670
3/4"	35 - 95	48	36	30	19	21	M10 x 25	0.10	25.00	LS-G-34-3595



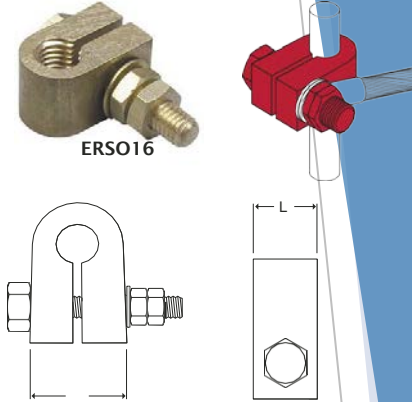
Material:
Body - Gunmetal / Brass (Other materials on request)
Fasteners - Brass.
Suffix - G-Gun Metal, B-Brass

Split Connector Clamp

These clamps are designed to be used with threaded/ unthreaded rods. Suitable for connecting a cable lug to an earth rod. The clamp is supplied threaded or unthreaded.

Rod Size	Rod Type	L mm	W mm	D mm	Weight(KG)	Pack Qty	Catalogue#
5/8"	Threaded	52	26	25	0.22	10.00	LS-ERSO16
3/4"	Threaded	50	29	28	0.31	10.00	LS-ERSO20
16	Unthreaded	42	25	32	0.24	10.00	LS-ERSS16
20	Unthreaded	50	29	28	0.28	10.00	LS-ERSS20

Material:
 Body – Gunmetal / Brass (Other materials on request)
 Fasteners - Brass.
 Suffix – G-Gun Metal, B-Brass



Two Plate Clamp

These clamps are designed to be used with threaded/ unthreaded rods. Suitable for connecting a cable lug to an earth rod. The clamp is supplied threaded or unthreaded.

Rod Size	Rod Type	L mm	W mm	Weight(KG)	Pack Qty	Catalogue#
5/8"	Copper	210	20	0.125	10.00	LS-TPC58
3/4"	Copper	220	20	0.150	10.00	LS-TPC34
16	Copper	225	20	0.125	10.00	LS-TPC16
20	Copper	229	20	0.150	10.00	LS-TPC20

Material:
 Body – Both Plates Copper 20 x 35mm
 Fasteners– Brass M10 X 35mm
 Suffix – T for Tinned Copper



U Bolt Rod Clamps

This versatile range of clamps can be used to connect tape and cable to the earth rod or a combination of both. The clamps have a U bolt connection onto a strong cast body providing a long lasting connection to the earth rod.

Type E

Rod/ Pipe Diameter	Type	L mm	W mm	Nut Size	Weight (KG)	Pack Qty	Catalogue#
(5/8")M16	Gunmetal	60	33	M8	0.16	10	LS-E-16
(3/4")M20	Gunmetal	60	33	M8	0.16	10	LS-E-20
M25	Gunmetal	62	47	M8	0.18	10	LS-E-25
M31	Gunmetal	80	38	M10	0.4	5	LS-E-31
M38	Gunmetal	74	34	M10	0.3	5	LS-E-38
M50	Gunmetal	91	39	M10	0.57	5	LS-E-50

Material:
Body - Gunmetal/ Brass (Other materials on request)
Fasteners - Brass.
Suffix: 253: 25x3 Copper Tape; 50x6: 50x6 Copper Tape or any other size
For Eg: for LS-E-16-253 for 25x3 Copper Tape.
Suffix - G-Gun Metal, B-Brass

Type GUV

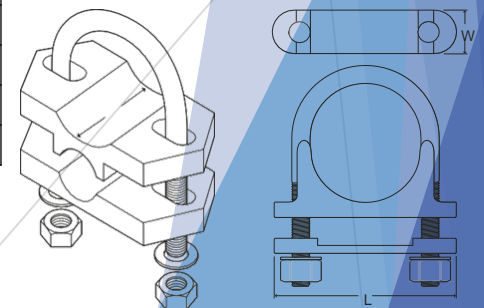
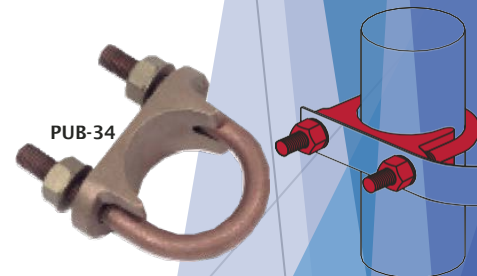
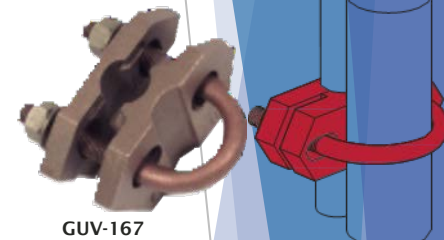
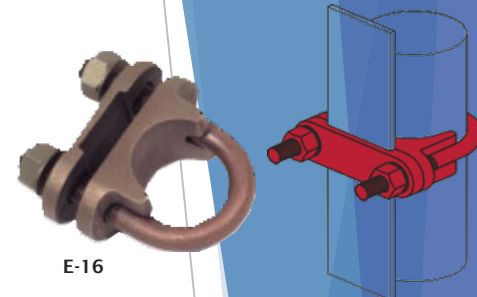
Rod/ Pipe Diameter	Type	L mm	W mm	Nut Size	Weight (KG)	Pack Qty	Conductor Size(Sq.mm)	Catalogue#
M12-M20	Gunmetal	39	39	M8	0.24	10	16~70	LS-GUV-167
M16-M25	Gunmetal	68	39	M8	0.29	10	70~185	LS-GUV-718
M16-M25	Gunmetal	90	39	M10	0.43	5	150~300	LS-GUV-153

Material:
Body - Gunmetal / Brass (Other materials on request)
Fasteners - Brass.
Suffix - G-Gun Metal, B-Brass

Type PUB

Rod/Pipe Diameter	Type	L mm	W mm	Nut Size	Weight (KG)	Pack Qty	Catalogue#
(5/8")M16	Gunmetal	61	33	M8	0.42	10	LS-PUB-58
(3/4")M20	Gunmetal	61	33	M8	0.42	10	LS-PUB-34
1"(M25)	Gunmetal	68	38	M10	0.47	5	LS-PUB-1.0
1-1/2"(M40)	Gunmetal	68	38	M10	0.47	5	LS-PUB-1.5
2"(M50)	Gunmetal	80	45	M10	0.60	2	LS-PUB-2.0
2-1/2"(M63)	Gunmetal	80	45	M12	0.60	2	LS-PUB-2.5
3"(M75)	Gunmetal	100	56	M12	0.80	2	LS-PUB-3.0
4"(M100)	Gunmetal	100	56	M16	0.80	2	LS-PUB-4.0

Material:
Body - Gunmetal/ Brass (Other materials on request)
Fasteners - Brass.
Suffix - G-Gun Metal, B-Brass



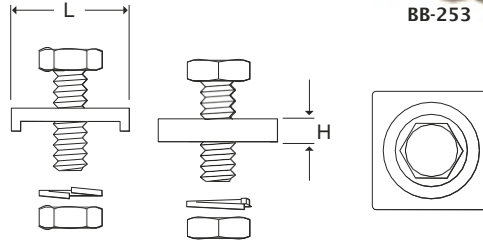
Clamps & Bonds

B Bond

This B bond is used for bonding copper or aluminium tapes to flat metal surfaces.

Tape	Type	L mm	H mm	Bolt Size	Weight (KG)	Pack Qty	Catalogue#
25 x 3	Gunmetal	35	10	M10 X 25	0.04	10	LS-BB-253

Material:
 Body - Gunmetal/ Brass (Other materials on request)
 Fasteners - Brass.
 Suffix - G-Gun Metal, B-Brass



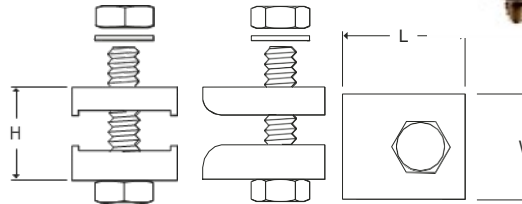
BB-253

Rain Water Pipe Bond

This pipe bond can be used on any applications where the tape/ Conductor can be wrapped around circular objects such as pipes or rails.

Tape	Type	L mm	W mm	H mm	Bolt Size	Weight (KG)	Pack Qty	Catalogue#
25 x 3	Gunmetal	32	32	16	M10 X 40	0.04	10	LS-RWB-253

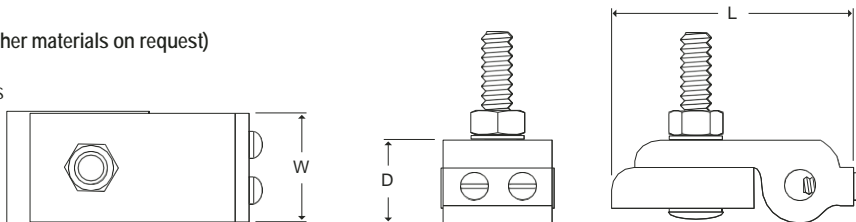
Material:
 Body - Gunmetal/ Brass (Other materials on request)
 Fasteners - Brass.
 Suffix - G-Gun Metal, B-Brass



RWB-253

Conductor mm	Type	L mm	W mm	D mm	Bolt Size	Weight (KG)	Pack Qty	Catalogue#
8	Gunmetal	55	32	17	M8 X 40	0.37	5	LS-RWB-08

Material:
 Body - Gunmetal/ Brass (Other materials on request)
 Fasteners - Brass.
 Suffix - G-Gun Metal, B-Brass



RWB-08

Tower Earth Clamp

Earthing bonds are used to connect various structures and equipments in a facility to earthing system. Tower Earth Clamp connect using a copper circular conductor, various structures in the facility to earthing system.

Conductor mm/Sq.mm	Type	L mm	W mm	H mm	Bolt Size	Weight (KG)	Pack Qty	Catalogue#
8 or 16~70	Gunmetal	45	30	17	M10 X 50	0.12	10	LS-TEC-1670
70~120	Gunmetal	48	35	22	M10 X 60	0.23	10	LS-TEC-70120
120~185	Gunmetal	55	40	25	M10 X 70	0.44	5	LS-TEC-120185
185~240	Gunmetal	60	45	27	M10 X 70	0.54	5	LS-TEC-185240
240~300	Gunmetal	65	50	30	M10 X 80	0.61	5	LS-TEC-240300

Material:
 Body - Gunmetal/ Brass (Other materials on request)
 Fasteners - Brass.
 Suffix - G-Gun Metal, B-Brass



TEC-1670

Tee Clamp

Tee Clamps are used to join and extend an earthing conductors or down conductor in an earthing system.

Dia mm	Type	L mm	W mm	H mm	Bolt Size	Weight (KG)	Pack Qty	Catalogue#
8	Gunmetal	45	45	19	M10 X 40	0.11	10	LS-TC-08

Material:
Body – Gunmetal/ Brass (Other materials on request)
Fasteners - Brass.
Suffix – G-Gun Metal, B-Brass



TC-08

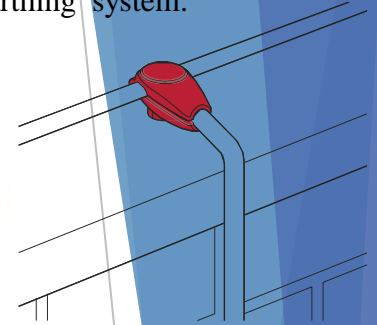
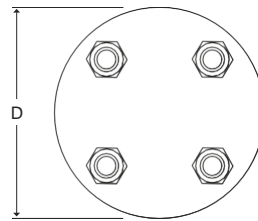


Plate Type Test Clamp

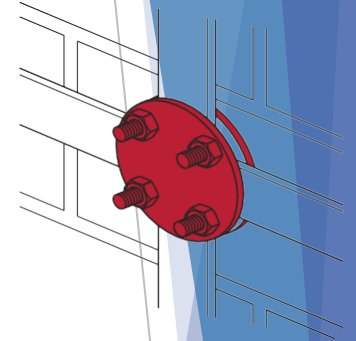
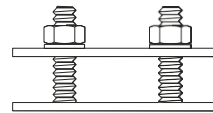
Plate type test clamps are used to test the earth continuity of earthing conductors and down conductors in an earthing system. The copper tape passes through the clamp, while earth continuity can be checked.

Tape	Type	D mm	Bolt Size	Weight (KG)	Pack Qty	Catalogue#
25 x 3	Gunmetal	70	M10 X 40	0.37	5	LS-PTC-253

Material:
Body – Gunmetal/ Brass (Other materials on request)
Fasteners - Brass.
Suffix – G-Gun Metal, B-Brass



PTC-253

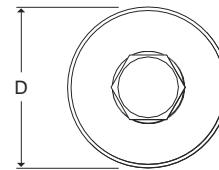
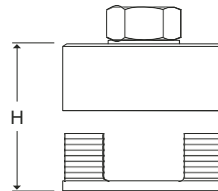


Screw Down Test Clamp

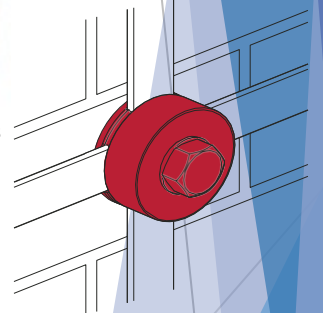
Screw down test clamps are used to test the earth continuity of earthing conductors and down conductors in an earthing system. The copper tape passes through the clamp, while earth continuity can be checked.

Tape	Type	D mm	H mm	Bolt Size	Weight (KG)	Pack Qty	Catalogue#
25 x 3	Gunmetal	61	61	M10 X 40	0.72	5	LS-SDTC-253

Material:
Body – Gunmetal/ Brass (Other materials on request)
Bolt - Brass.
Suffix – G-Gun Metal, B-Brass



SDTC-253

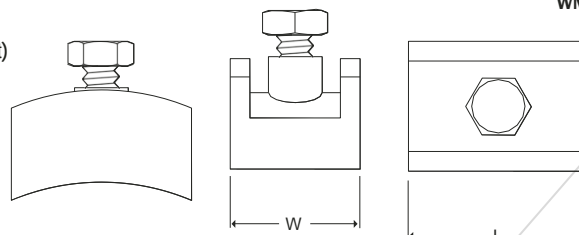


Water Main Bond

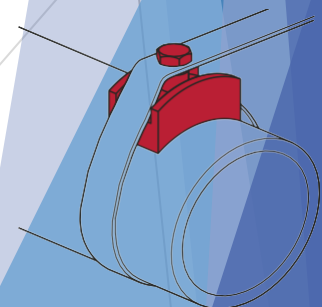
This WMB bond is designed to bond metallic pipes into the earthing or lightning protection system.

Tape	Type	L mm	W mm	Bolt Size	Weight (KG)	Pack Qty	Catalogue#
25 x 3	Gunmetal	45	36	M10 X 35	0.21	10	LS-WMB-253

Material:
Body – Gunmetal/ Brass (Other materials on request)
Bolt - Brass.
Suffix – G-Gun Metal, B-Brass



WMB-253

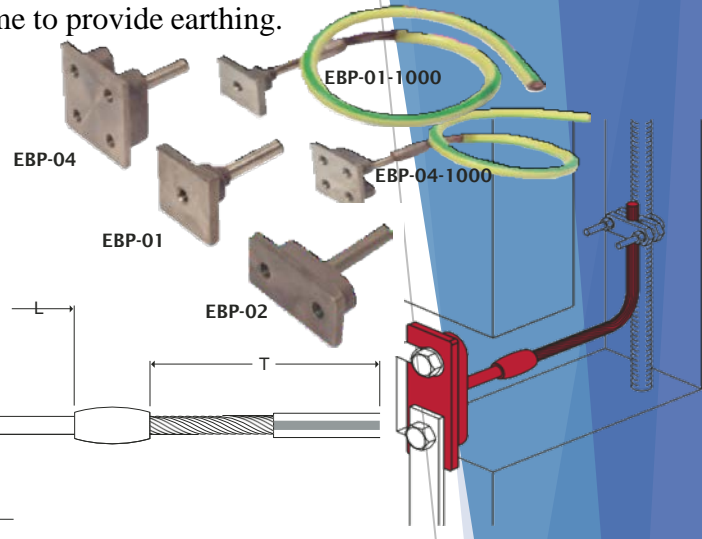
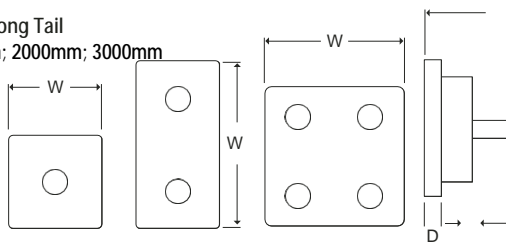


Earth Bonding Point

Earthing bonds are used to connect various structures and equipments in a facility to earthing system. Earth Bonding Points connect using a copper conductor, various structures in the facility to earthing system. The Earth Bonding Point is joined to the facility and an earth lead extends from the same to provide earthing.

No. of Holes	Type	L mm	W mm	H mm	Stud Size mm	Weight (KG)	Pack Qty	Catalogue#
1	Gunmetal	77	49	39	M12X50	0.29	10	LS-EBP-01
2	Gunmetal	71	69	22	M12X50	0.28	10	LS-EBP-02
4	Gunmetal	80	63	26	M12X50	0.61	10	LS-EBP-04

Material: Body – Gunmetal/ Brass
 Bonding Point with Tail – pl. suffix T in mm
 For Example – LS-EPB-04-1000 for 1 meter Long Tail
 Suffix Available : 500mm ; 1000mm; 1500mm; 2000mm; 3000mm
 Wire Size: 70 Sq.mm Yellow Green Striped.
 Suffix – G-Gun Metal, B-Brass

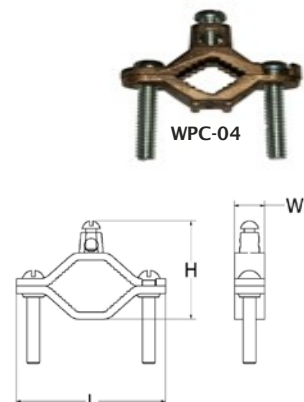


Water Pipe Clamp

Water pipe clamps made of gunmetal or brass are used to join various water pipes to earthing system. An earth lead emanating from the clamp ensures the metallic pipes are properly earthed.

Pipe Dia mm	Pipe Dia inch	Type	H mm	L mm	W mm	C mm	Weight (KG)	Pack Qty	Catalogue#
13~25	1/2~1	Gunmetal	46	56	16	16	0.40	5	LS-WPC-01
32-51	1-1/4~2	Gunmetal	60	92	19	25	0.5	5	LS-WPC-02
64-114	2-1/2~4	Gunmetal	105	159	24	48	0.63	5	LS-WPC-04
114-165	4-1/2~6	Gunmetal	109	212	32	48	0.73	5	LS-WPC-06

Material:
 Body – Gunmetal/ Brass; Fastener: Brass
 Suffix – G-Gun Metal, B-Brass



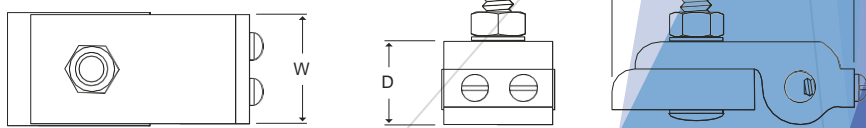
Earth Pipe Bond

Earth pipe clamps made of Tinned Copper are used to join various Pipes/ Conduits to earthing system. An earth lead emanating from the clamp ensures the metallic pipes are properly earthed.

Adjustable earth clamp to fit a range of pipe diameters.

Pipe Dia mm	Type	L mm	W mm	D mm	Strap Length	Weight (KG)	Pack Qty	Catalogue#
12~50	Tinned Copper	55	32	17	120mm	0.37	5	LS-EPB-1250

Material: Body & Strap – Tinned Copper
 Bonding Point with Tail – pl. suffix T in mm
 Cable Connection: 2.5-120 Sq.mm with Cable Lug (Not Included)
 Complies with BS951



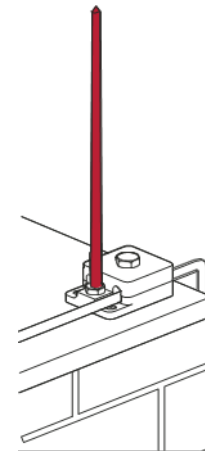
Air Termination Rod And Accessories



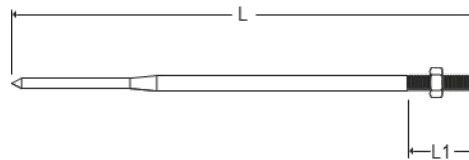
Air termination rods

Air termination rods are made of pure copper. The rods are made with a tapered tip and is always installed on the top portion of the facility to be protected. Air termination rods arrest or attract the lightning strike and guide the energy to ground. Air termination rods are fixed on the building with the help of a base.

Rod Dia (mm)	Type	L mm	L1 mm	Weight (KG)	Pack Qty	Catalogue#
15	Pure Copper	300	41	0.47	5.00	LS-TPR-15-0.3
15	Pure Copper	500	41	0.79	5.00	LS-TPR-15-0.5
15	Pure Copper	1000	41	1.58	5.00	LS-TPR-15-1.0
15	Pure Copper	1500	41	2.37	5.00	LS-TPR-15-1.5
15	Pure Copper	2000	41	3.16	5.00	LS-TPR-15-2.0
16	Pure Copper	300	41	0.54	5.00	LS-TPR-16-0.3
16	Pure Copper	500	41	0.90	5.00	LS-TPR-16-0.5
16	Pure Copper	1000	41	1.80	5.00	LS-TPR-16-1.0
16	Pure Copper	1500	41	2.70	5.00	LS-TPR-16-1.5
16	Pure Copper	2000	41	3.59	5.00	LS-TPR-16-2.0



Material:
Hard Drawn Copper (Other materials on request)
Thread: 5/8" BSW
Suffix - G-Gun Metal, B-Brass



Air Terminal Bases

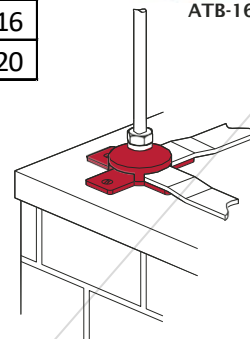
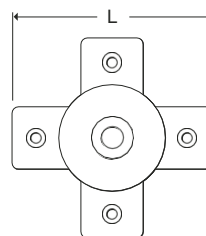
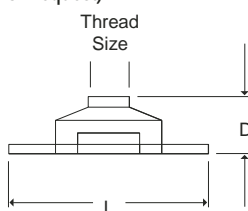
Light Duty Saddles

This light duty saddle when used with an air rod, fixes onto the roof network of the lightning protection system connecting the tape to the air rod. The saddle is available threaded M16 or 5/8" or 3/4" to suit the air rods.

Suits Rod Dia(mm)	Type	L	D	Weight(KG)	Pack Qty	Catalogue#
15	Gunmetal	101	37	0.43	5.00	LS-ATB-15
16	Gunmetal	101	37	0.43	5.00	LS-ATB-16
M20	Gunmetal	101	37	0.5	5.00	LS-ATB-20



Material: Brass Gunmetal (Other materials on request)
Thread: 5/8" BSW
Suffix - G-Gun Metal, B-Brass



Ridge Saddle

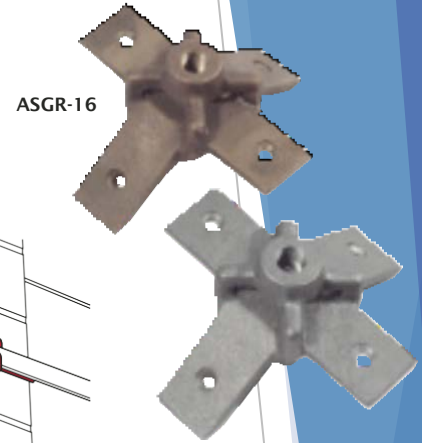
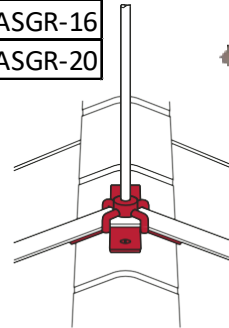
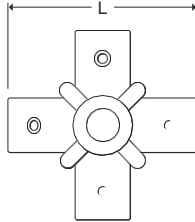
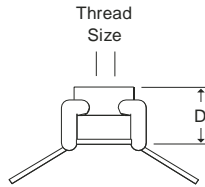
These ridge saddles fix onto the roof network of the lightning protection system connecting the tape to the air rod. The saddle is available threaded M16 or 3/4" to suit the air rod.

Suits Rod Dia(mm)	Type	L	D	Weight(KG)	Pack Qty	Catalogue#
15	Gunmetal	137	34	0.70	5.00	LS-ASGR-15
16	Gunmetal	137	34	0.70	5.00	LS-ASGR-16
20	Gunmetal	137	34	0.60	5.00	LS-ASGR-20

Material: Brass or Gunmetal (Other materials on request)

Thread: 5/8" BSW

Suffix - G-Gun Metal, B-Brass



Side Mounting Bracket

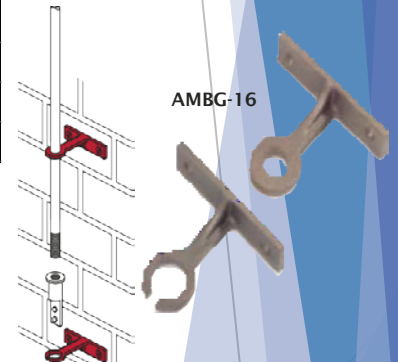
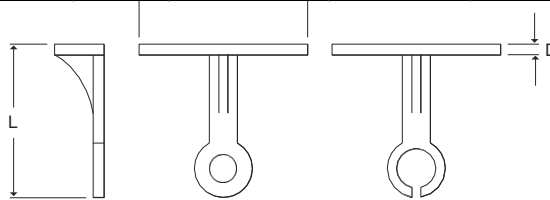
These brackets provide a 75mm projection from the building face and are mainly used where it is not possible to fit a saddle on the roof so the air rod has to be fitted on the side of the building or chimney.

The rod to tape coupling is used in conjunction with the side mounting brackets to secure the air terminal and connect to the tape.

Rod Diameter (mm)	Type	L	W	D	Weight(KG)	Pack Qty	Catalogue#
15	Gunmetal	96	129	38	0.35	5.00	LS-AMBG-15
16	Gunmetal	96	129	38	0.35	5.00	LS-AMBG-16
20	Gunmetal	95	129	38	0.47	5.00	LS-AMBG-20

Material: Brass or Gunmetal (Other materials on request)

Suffix - G-Gun Metal, B-Brass



Rod to Tape Coupling

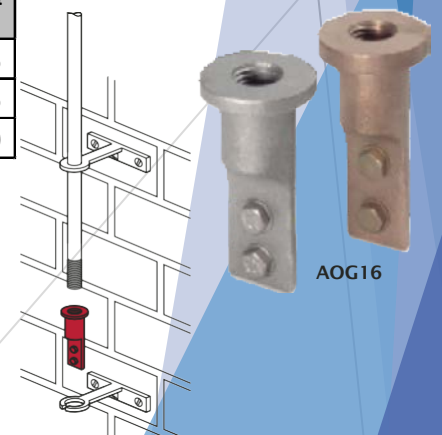
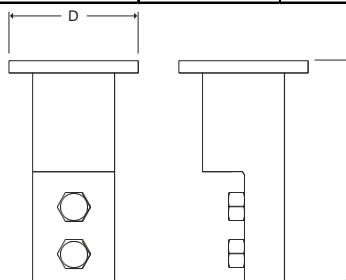
Used with the side mounting brackets or the building in holdfast this unit screws onto the air rod and connects to the tape with the fixing screws provided.

Rod Diameter (mm)	Type	L	D	Bolts	Weight (KG)	Pack Qty	Catalogue#
15	Gunmetal	80	39	Brass	0.20	5.00	LS-AOG-16
16	Gunmetal	80	39	Brass	0.20	5.00	LS-AOG-16
20	Gunmetal	80	39	Brass	0.22	5.00	LS-AOG-20

Material: Brass or Gunmetal (Other materials on request)

Thread: 5/8" BSW

Suffix - G-Gun Metal, B-Brass



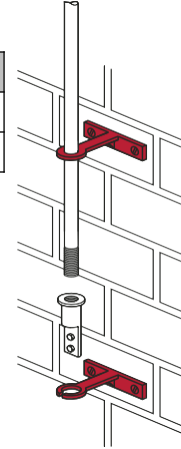
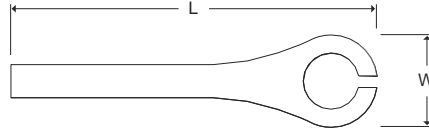
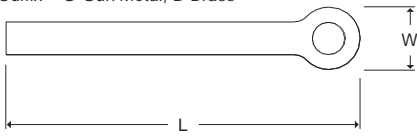
Building in Rod Holdfast

These fittings are inserted into the concrete courses between the bricks and fix the air termination to the side of the building or chimney. This fixing method is mainly used where it is not possible to fit a saddle on the roof. The rod to tape coupling is used in conjunction with the building in holdfast to secure the air terminal and connect to the tape.

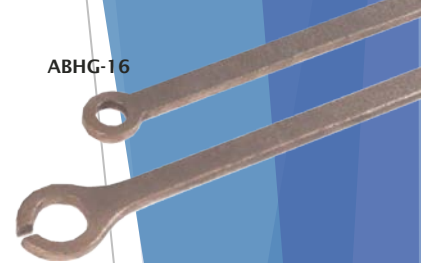
Rod Diameter	Type	L	W	Weight (KG)	Pack Qty	Catalogue#
M16	Gunmetal	320	47	0.11	5.00	LS-ABHG-16
M20	Gunmetal	320	47	0.11	5.00	LS-ABHG-20

Material: Brass or Gunmetal (Other materials on request)

Suffix – G-Gun Metal, B-Brass



ABHG-16



Multiple Point

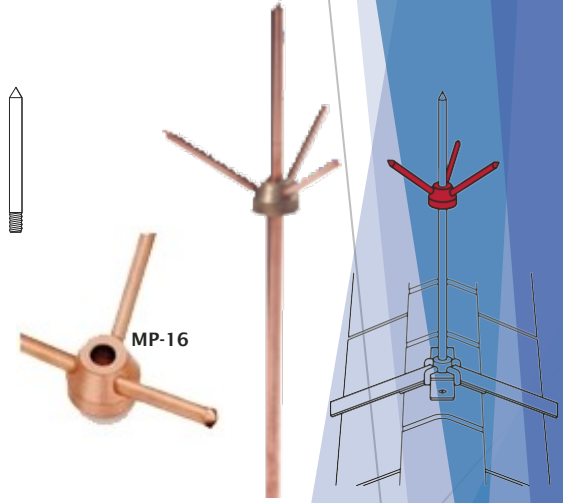
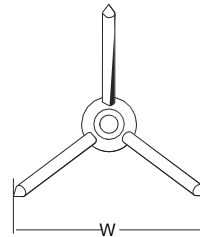
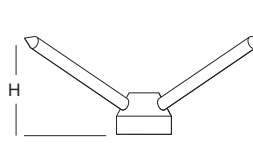
Used in conjunction with the copper air terminals the multi point is connected to the air termination network.

Rod Size	Type	H mm	W mm	Weight (KG)	Pack Qty	Catalogue#
M15	Copper	156	72	0.30	5	LS-MP-15
M16	Copper	156	72	0.30	5	LS-MP-16

Material:

Body – Pure Copper

Spikes: Copper BS2874 C1010



MP-16

Flat Saddle

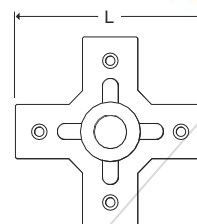
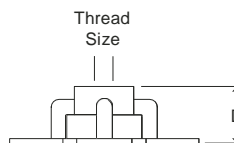
Flat saddle is used to hold or fix the air terminal rod on top of the building. The lightning protection leads and down conductors are joined to the air rod within the saddle.

Conductor Dia mm	Rod Dia (mm)	Type	L	D	Weight (KG)	Pack Qty	Catalogue#
8	15	Gunmetal	101	37	0.43	5.00	LS-FS-15
8	16	Gunmetal	101	37	0.43	5.00	LS-FS-16
8	20	Gunmetal	101	37	0.43	5.00	LS-FS-20

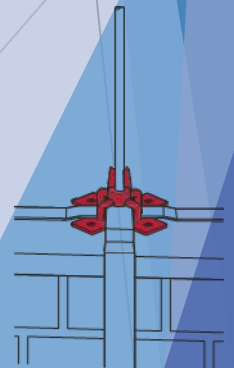
Material: Brass or Gunmetal (Other materials on request)

Thread: 5/8" BSW

Suffix – G-Gun Metal, B-Brass



FS-16



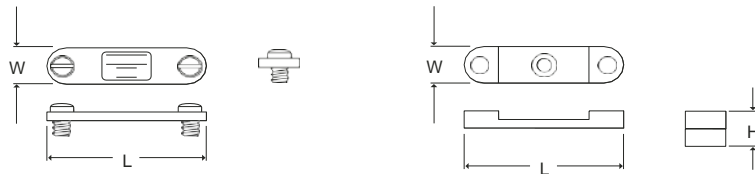
Lightning Protection Fittings



D.C. Tape Clip

DC Clips are used to hold or pin the copper down conductor and earth conductors onto the wall structure of the building. The DC Clip is fitted onto the wall while the copper tape passes through the clip. The screws of the clip are tightened to hold the tape securely.

Tape Size	L	W	H	Tape Type	Weight KG	Pack Qty	Catalogue#
25 x 3	50	20	10	Bare or Tinned Copper	0.05	25	LS-DC-253
25 x 6	50	20	13		0.07	25	LS-DC-256
31 x 3	70	20	13		0.07	25	LS-DC-313
50 x 3	80	20	10		0.08	25	LS-DC-503
50 x 6	80	20	16		0.12	15	LS-DC-506



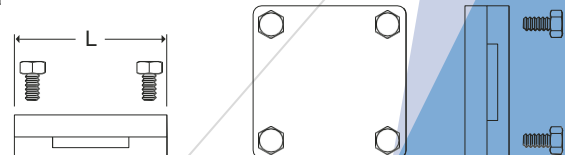
Material:
Body - Gun Metal/ Brass; Screws - Brass
Recommended fixing for the above are countersunk woodscrew 1 1/2" x No 10 and wall plug.
Suffix - G-Gun Metal, B-Brass

*** Other materials on request

Square Tape Clamp

Square Clamps are used to hold or pin the copper down conductor and earth conductors onto the wall structure of the building. The Square Clamp is fitted onto the wall while the copper tape passes through the clip. The screws of the clip are tightened to hold the tape securely.

Tape Size	L	Slot Size	Tape Type	Weight KG	Pack Qty	Catalogue#
25 x 3	50	26 x 3	Bare or Tinned Copper	0.13	25	LS-STC-253
25 x 6	50	26 x 6		0.20	25	LS-STC-256
31 x 3	70	32 x 3		0.18	25	LS-STC-313
50 x 3	80	51 x 3		0.40	10	LS-STC-503
50 x 6	80	51 x 6		0.42	10	LS-STC-506



Material:
Body - Gun Metal/ Brass; Screws - Brass
Recommended fixing for the above are countersunk woodscrew 1 1/2" x No 10 and wall plug.
Suffix - G-Gun Metal, B-Brass

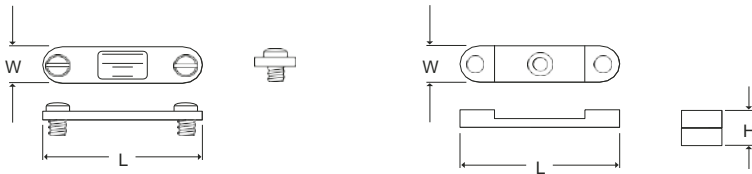
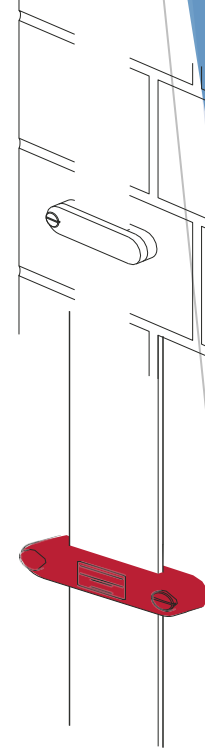
*** Other materials on request

Lightning Protection Fittings (Continued)

D.C. Tape Clip for PVC Covered Tape

DC Clips are used to hold or pin the copper down conductor and earth conductors onto the wall structure of the building. The DC Clip is fitted onto the wall while the copper tape passes through the clip. The screws of the clip are tightened to hold the tape securely.

Tape Size	L	W	H	Tape Type	Weight KG	Pack Qty	Catalogue#
25 x 3	50	20	12	PVC	0.06	25	LS-DCP-253
25 x 6	50	20	15	Sheathed	0.08	25	LS-DCP-256
31 x 3	70	20	15	Bare or	0.08	25	LS-DCP-313
50 x 3	80	20	12	Tinned	0.09	25	LS-DCP-503
50 x 6	80	20	18	Copper	0.13	15	LS-DCP-506



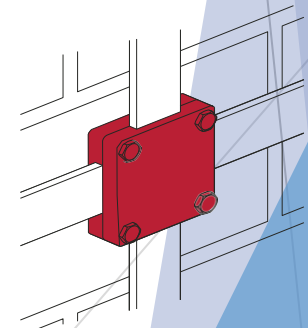
Material:
Body - Gun Metal/ Brass; Screws - Brass
Recommended fixing for the above are countersunk woodscrew 1 1/2" x No 10 and wall plug.
Suffix - G-Gun Metal, B-Brass

*** Other materials on request

Square Tape Clamp for PVC Covered Tape

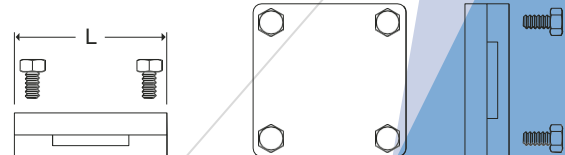
Square Clamps are used to hold or pin the copper down conductor and earth conductors onto the wall structure of the building. The Square Clamp is fitted onto the wall while the copper tape passes through the clip. The screws of the clip are tightened to hold the tape securely.

Tape Size	L	Slot Size	Tape Type	Weight KG	Pack Qty	Catalogue#
25 x 3	50	28 x 5	Bare or Tinned Copper	0.14	25	LS-STCP-253
25 x 6	50	28 x 8		0.21	25	LS-STCP-256
31 x 3	70	34 x 5		0.19	25	LS-STCP-313
50 x 3	80	53 x 5		0.41	10	LS-STCP-503
50 x 6	80	53 x 8		0.43	10	LS-STCP-506



Material:
Body - Gun Metal/ Brass; Screws - Brass
Recommended fixing for the above are countersunk woodscrew 1 1/2" x No 10 and wall plug.
Suffix - G-Gun Metal, B-Brass

*** Other materials on request

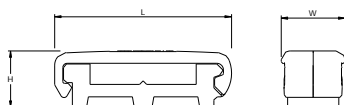
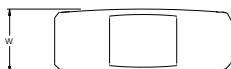
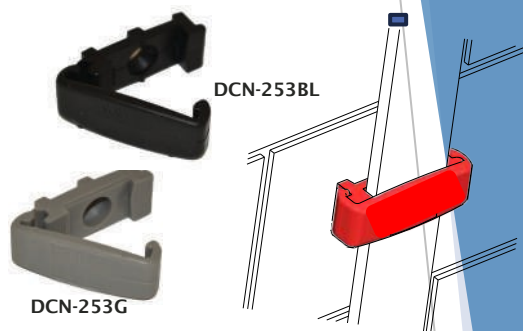


Lightning Protection Fittings (Continued)

D.C. Tape Clip Non Metallic for PVC Covered Tape

DC Clips are used to hold or pin the copper down conductor and earth conductors onto the wall structure of the building. The DC Clip is fitted onto the wall while the copper tape passes through the clip.

Tape Size	L	W	H	Tape Type	Weight KG	Pack Qty	Catalogue#
25 x 3	50	20	12	PVC	0.03	25	LS-DCN-253
25 x 6	50	20	15	Sheathed	0.04	25	LS-DCN-256
31 x 3	70	20	15	Bare or	0.04	25	LS-DCN-313
50 x 3	80	20	12	Tinned	0.05	25	LS-DCN-503
50 x 6	80	20	18	Copper	0.07	15	LS-DCN-506



Material:

Nylon with UV additive

Recommended fixing for the above are countersunk woodscrew 1 1/2" x No 10 and wall plug.

For Color use suffix as below:

Black BL, Grey G

Note:

- The picture is only for illustration. The model may be one or two piece according to availability of stock.
- The dimensions & weight are only indicative

Oblong Test Clamp

This oblong junction clamp is designed to join a range of tape sizes from 20 x 3 to 50 x 6. This clamp can also be used for disconnecting the earthing system for testing purposes.

The clamp in many applications allows the conductors to be overlapped

Conductor	Type	L mm	W mm	H mm	Slot Size	Weight (KG)	Pack Qty	Catalogue#
25 X 3	Gunmetal	68	40	19	28 X 11	0.34	10	LS-OTC-253
31 X 6	Gunmetal	90	45	24	36 X 15	0.35	10	LS-OTC-316
38 X 6	Gunmetal	87	44	24	40 x 15	0.35	10	LS-OTC-386
50 X 6	Gunmetal	90	63	26	52 x 15	0.58	10	LS-OTC-506

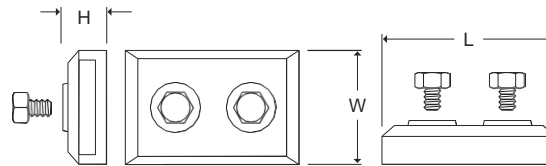
Material: Gunmetal/ Brass (Other materials on request)

Fasteners - Brass.

Suffix - G-Gun Metal, B-Brass



OTC-268



Heavy Duty Cable Saddle

Cable saddles are used to hold or pin the copper down conductor and earth conductors onto the wall structure of the building.

Conductor Sq.mm	Type	L mm	W mm	H mm	Slot Size	Weight (KG)	Pack Qty	Catalogue#
50	Gunmetal	62	21	30	28 X 11	0.20	10	LS-HCS-50
70	Gunmetal	65	23	33	36 X 15	0.30	10	LS-HCS-70
95	Gunmetal	71	23	37	40 x 15	0.35	10	LS-HCS-95

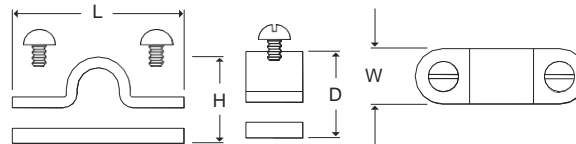
Material: Gunmetal/ Brass (Other materials on request)

Fasteners - Brass.

Suffix - G-Gun Metal, B-Brass



HCS-50



Square Conductor Saddle

Square saddles are used to hold or pin the copper down conductor and earth conductors onto the wall structure of the building

Conductor sq.mm	Type	L mm	H mm	Weight KG	Pack Qty	Catalogue#
50	Gunmetal	40	18	0.13	25	LS-SCS-50
70	Gunmetal	43	22	0.20	25	LS-SCS-70
95	Gunmetal	47	26	0.18	25	LS-SCS-95

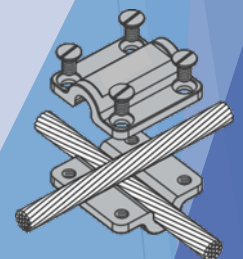
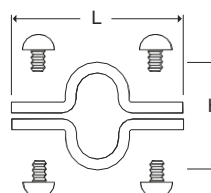
Material: Gunmetal/ Brass (Other materials on request)

Fasteners - Brass.

Suffix - G-Gun Metal, B-Brass



SCS-50

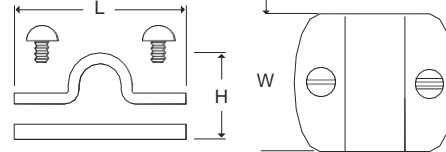
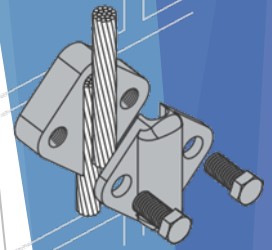


Test Clamp

Test clamps are used to test the earth continuity of earthing conductors and down conductors in an earthing system. The copper circular conductor passes through the clamp, while earth continuity can be checked.

Conductor Size	L mm	W mm	H mm	Slot Dia	Material	Weight KG	Pack Qty	Catalogue#
50	51	51	32	12	Gunmetal	0.37	25	LS-TC-50
70	51	51	38	18	Gunmetal	0.43	25	LS-TC-70
95	51	51	40	20	Gunmetal	0.42	25	LS-TC-95

Material: Gunmetal/ Brass (Other materials on request)
Fasteners - Brass.
Suffix - G-Gun Metal, B-Brass

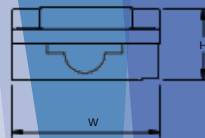
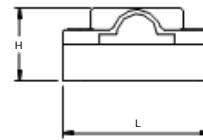
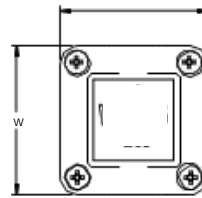
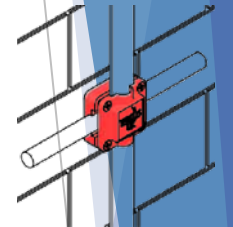


Cable to Tape Connectors

This four-way connector is suitable for crossing over flat copper tape and bare stranded copper cable. It will also serve for making straight through joints and tee connections.

Conductor sq.mm	Tape Size mm	L mm	W mm	H mm	Weight KG	Pack Qty	Catalogue#
50	25x3	51	51	25	0.27	25	LS-CTC-50
70		51	51	31	0.30		LS-CTC-70
95		51	51	34	0.31		LS-CTC-95
120		51	51	37	0.34		LS-CTC-120
240		51	51	42	0.38		LS-CTC-240
300	50X6	51	51	47	0.43		LS-CTC-300

Material: Gunmetal/ Brass (Other materials on request)
Fasteners - Brass.
Suffix - G-Gun Metal, B-Brass



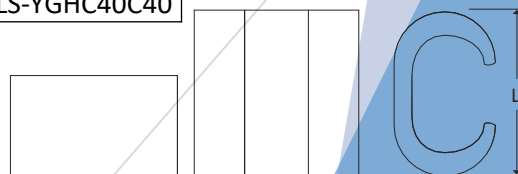
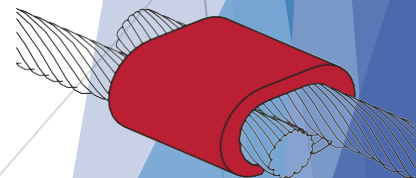
C Crimp Connectors

These range taking connectors are mainly used for tap or parallel connections of copper cable in earthing applications. They must be installed using the appropriate tool and dies.

They can be installed in all weather conditions and are heat resistant up to +105°C.

Conductor sq.mm or min.	Maximum	Material	Type	L mm	Pack Qty	Weight Kg	Catalogue#
16	35	Copper	C	24	50	0.02	LS-YC4C4
25	35	Copper	C	27	50	0.05	LS-YC2C4
50	70	Copper	C	33	50	0.10	LS-YC26C2
70	70	Copper	C	34	25	0.10	LS-YC26C26
95	120	Copper	C	45	25	0.12	LS-YC185M
120	120	Copper	Tap	45	25	0.12	LS-YC29C29
120	240	Copper	C	54	10	0.24	LS-YGHC34C29
150	240	Copper	C	54	10	0.24	LS-YGHC34C34
300	300	Copper	C	70	10	0.39	LS-YGHC40C40

Material:
Extruded Electrolytic Copper
Other Size on request



Interface Test Clamp

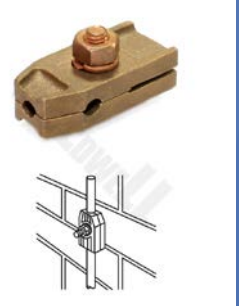
Test Clamps are suitable to form straight through joints of Copper Tape to circular conductor or cable for disconnecting or test purpose.

Conductor Sq. mm	Tape Width(mm)	Type	L mm	W mm	H mm	Slot Size	Weight (KG)	Pack Qty	Catalogue#
8mm/ 35~50	25	Gunmetal	68	40	19	28 X 11	0.35	10	LS-IJC-50
10mm/ 70~95	25	Gunmetal	68	40	22	28 X 11	0.34	10	LS-IJC-95

Material: Gunmetal/ Brass (Other materials on request)

Fasteners - Brass.

Suffix - G-Gun Metal, B-Brass



Earthing Tapes & Bars



Earthing Conductors are made of pure copper and used for transferring the electrical energy from lightning or short circuit to the earthing system. The KA rating is based on recommendations of BS7430 with an initial temperature of 30°C and a maximum of 250°C.

Bare Copper Tape

Size	mm ²	KA Rating 1 Second	KA Rating 3 Seconds	Weight per Mtr Kg	Coil Size Mtr	Part Number
25 x 3	75	13.2	7.6	0.67	50	LS-CT-253
25 x 6	150	26.4	15.2	1.34	40	LS-CT-256
31 x 3	93	16.3	9.4	0.83	50	LS-CT-313
50 x 3	150	26.4	15.2	1.34	40	LS-CT-503
50 x 6	300	52.8	30.5	2.68	20	LS-CT-506



CT-253

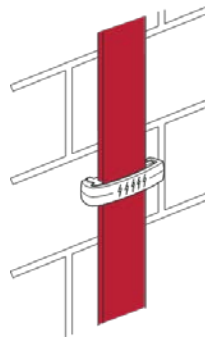
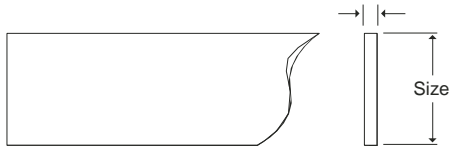
Tinned Copper Tape

Size	mm ²	KA Rating 1 Second	KA Rating 3 Seconds	Weight per Mtr Kg	Coil Size Mtr	Part Number
25 x 3	75	13.2	7.6	0.67	50	LS-TCT-253
25 x 6	150	26.4	15.2	1.34	40	LS-TCT-256
31 x 3	93	16.3	9.4	0.83	50	LS-TCT-313
50 x 3	150	26.4	15.2	1.34	40	LS-TCT-503
50 x 6	300	52.8	30.5	2.68	20	LS-TCT-506



TCT-253

Other Sizes upon Request



Material:
Pure Copper - Grade C101/103 BS1432.

Earthing Tapes & Bars (Continued)

Earthing Conductors are made of pure copper and used for transferring the electrical energy from lightning or short circuit to the earthing system. The PVC covered copper tape is used mainly for running, as a down conductor on a lightning protection system, the PVC covering is used for aesthetic purposes to blend the down conductor into the building. The KA rating is based on recommendations of BS7430 with an initial temperature of 30°C and a maximum of 250°C.

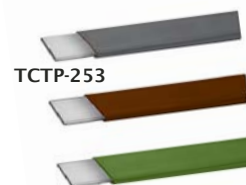
PVC Sheathed Bare Copper Tape

Size	mm ²	KA Rating 1 Second	KA Rating 3 Seconds	Weight per Mtr Kg	Coil Size Mtr	Part Number
25 x 3	75	13.2	7.6	0.67	50	LS-CTP-253
25 x 6	150	26.4	15.2	1.34	40	LS-CTP-256
31 x 3	93	16.3	9.4	0.83	50	LS-CTP-313
50 x 3	150	26.4	15.2	1.34	40	LS-CTP-503
50 x 6	300	52.8	30.5	2.68	20	LS-CTP-506



PVC Sheathed Tinned Copper Tape

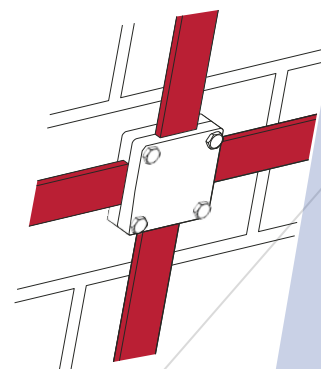
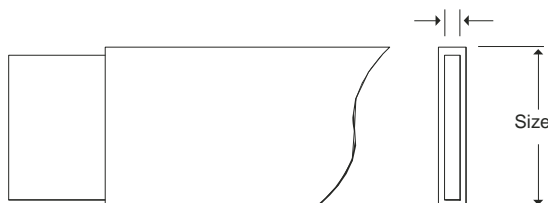
Size	mm ²	KA Rating 1 Second	KA Rating 3 Seconds	Weight per Mtr Kg	Coil Size Mtr	Part Number
25 x 3	75	13.2	7.6	0.67	50	LS-TCTP-253
25 x 6	150	26.4	15.2	1.34	40	LS-TCTP-256
31 x 3	93	16.3	9.4	0.83	50	LS-TCTP-313
50 x 3	150	26.4	15.2	1.34	40	LS-TCTP-503
50 x 6	300	52.8	30.5	2.68	20	LS-TCTP-506



Other Sizes/ Sheath Colors (Suffix LSF) upon Request

LSF Covered Sheath upon Request (Suffix LSF)

For Example LSF Y/G Sheathed. The complete part no. is LS-TCT-253-YG-LSF



Material:
Pure Copper - Grade C101/103 BS1432
PVC Covering is 1mm Thick PVC, Colors to BS5252 &
Green to BS746C.

Earthing Tapes & Bars (Continued)

Hard Drawn Copper Bars

Hard drawn high conductivity (HDHC) solid copper bar. Maximum standard length 4 metres.

Bare Copper Bar

Size	mm ²	KA Rating 1 Second	KA Rating 3 Seconds	Weight per Mtr Kg	Part Number
25 x 3	75	13.2	7.6	0.67	LS-CB-253
25 x 6	150	26.4	15.2	1.34	LS-CB-256
31 x 3	93	16.3	9.4	0.83	LS-CB-313
50 x 3	150	26.4	15.2	1.34	LS-CB-503
50 x 6	300	52.8	30.5	2.68	LS-CB-506



CB-253

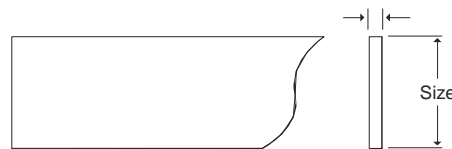
Tinned Copper Bar

Size	mm ²	KA Rating 1 Second	KA Rating 3 Seconds	Weight per Mtr Kg	Part Number
25 x 3	75	13.2	7.6	0.67	LS-TCB-253
25 x 6	150	26.4	15.2	1.34	LS-TCB-256
31 x 3	93	16.3	9.4	0.83	LS-TCB-313
50 x 3	150	26.4	15.2	1.34	LS-TCB-503
50 x 6	300	52.8	30.5	2.68	LS-TCB-506

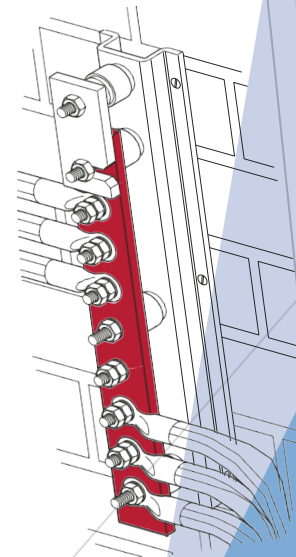


TCB-253

Other Sizes/ Lengths upon Request



Material:
Pure Copper - Grade C101/ 103 BS1432.



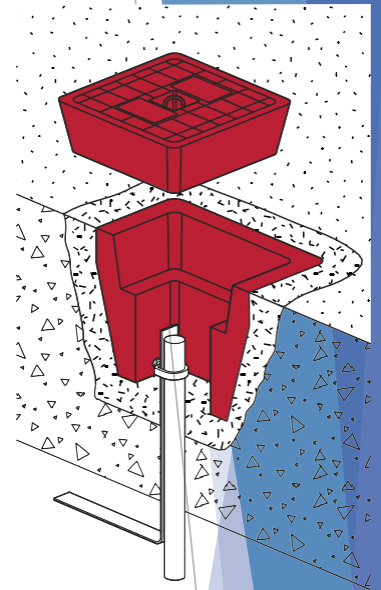
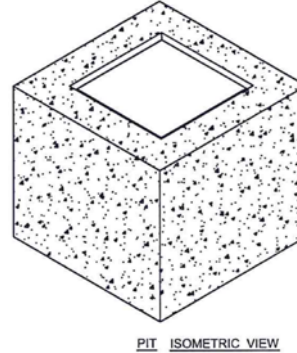
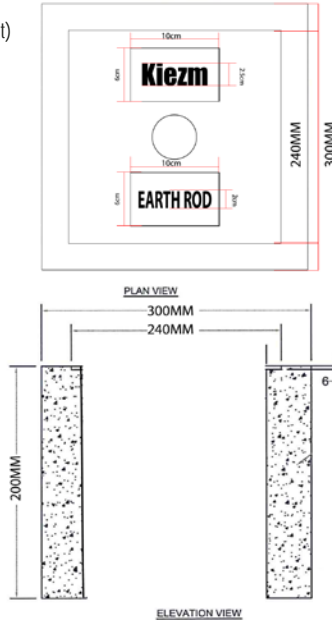
Concrete Earth Pit

The Concrete Inspection Pit is rated to 3500 Kgs and suitable for most types of Earthing & Lightning Protection applications

The Pit can have an earth bar fitted diagonally across in slots provided for multiple connections.

Description	Size	Weight	Catalogue#
Concrete Inspection Pit	300 x 300 x 200mm	30 Kgs	LS-PIT-001

Material:
Earth Housing - Concrete. (Other Materials on request)
Cover: Concrete (Other Materials on request)



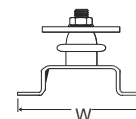
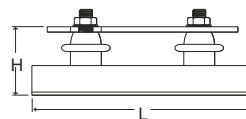
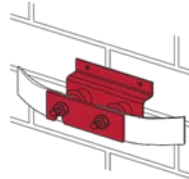
Earth Bars Links

Earth Bar Links are available in Tinned and Non-Tinned Versions. Disconnecting Links are used in Earthing & Lightning Protection Applications.

Description	Bar		Frame		Bus Bar (mm)	Material	No. of Insulators	Weight (KG)	Catalogue#
	L (mm)	L (mm)	W (mm)	H (mm)					
Disconnecting Link	120	178	97	77	50x6	Copper	2	1.16	LS-EBC-001



Material:
Hard Drawn Copper Bar - Grade C101 BS1432.
Fitting - Brass, Phosphor Bronze or Stainless Steel.
Channel Base - Mild Steel Zinc Plated.
Insulators - Reinforced Polyester.
Suffix T for Tinned. Example LS-EBCT



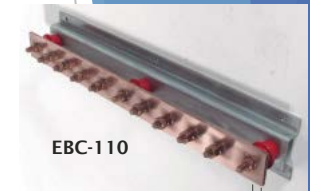
Earth Bars Links

Earth Bar Links are available in Tinned and Non-Tinned Versions. Disconnecting Links are used in Earthing & Lightning Protection Applications.

Description	Bar with Clips			Bus Bar (mm)	Material	No. of Insulators	No. of Terminations	No. of Links	Weight (KG)	Catalogue#
	L (mm)	W (mm)	H (mm)							
Earth Bar	200	97	70	50x6	Copper	2	4	0	1.20	LS-EBC-004
Earth Bar	220	97	70	50x6	Copper	3	4	1	1.40	LS-EBC-104
Earth Bar	300	97	70	50x6	Copper	2	6	0	1.90	LS-EBC-006
Earth Bar	320	97	70	50x6	Copper	3	6	1	2.00	LS-EBC-106
Earth Bar	400	97	70	50x6	Copper	3	8	0	2.32	LS-EBC-008
Earth Bar	420	97	70	50x6	Copper	4	8	1	2.52	LS-EBC-108
Earth Bar	500	97	70	50x6	Copper	4	10	0	2.80	LS-EBC-010
Earth Bar	520	97	70	50x6	Copper	5	10	1	2.90	LS-EBC-110
Earth Bar	600	97	70	50x6	Copper	5	12	0	3.20	LS-EBC-012
Earth Bar	620	97	70	50x6	Copper	5	12	1	3.40	LS-EBC-112
Earth Bar	700	97	70	50x6	Copper	5	14	0	4.00	LS-EBC-014
Earth Bar	720	97	70	50x6	Copper	6	14	1	4.20	LS-EBC-114

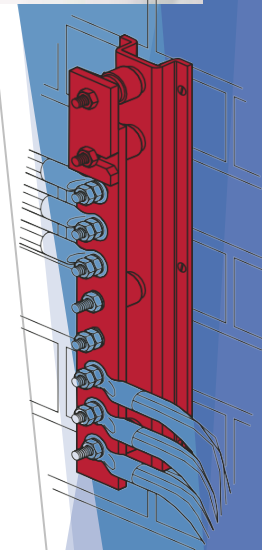
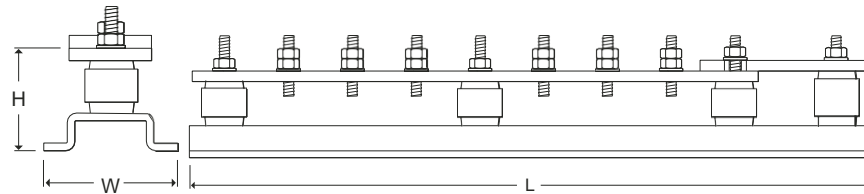


EBC-010



EBC-110

Material:
 Hard Drawn Copper Bar - Grade C101 BS1432.
 Fitting - Brass, Phosphor Bronze or Stainless Steel.
 Channel Base - Mild Steel Zinc Plated.
 Insulators - Reinforced Polyester.
 Suffix T for Tinned. Example LS-EBC-T



Insulators

Insulators are well used in insulating the Earth Bar or Link from the Ground. These insulators are rated upto 5KV and are available in different sizes.

Description	Size	Material	Catalogue#
Insulator	50x50x10mm		LS-INS-01

Material: Reinforced Polyester.



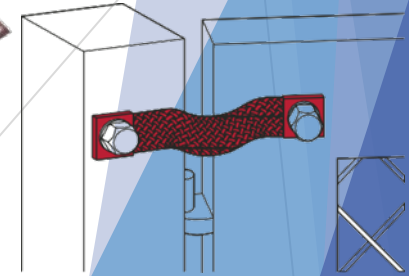
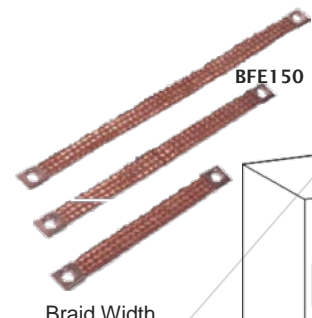
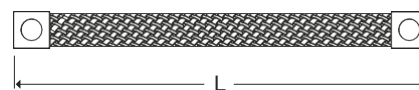
INS-01

Flexible Braids

Flexible Copper Braid is used for bonding Gates, Fences, Doors, Cable trays fences etc. These are available in Bare or Tinned Copper. There are many size variants are available, however few sizes are mentioned in the catalogue.

L	W	Thick	Sq.mm	To Suit Bolt	Weight KG	Pack Qty	Catalogue# Bare	Catalogue# Tinned
150	20	2.5	35	M10	0.02	5	LS-BFE150	LS-BFE150T
200	20	2.5	35	M10	0.03	5	LS-BFE200	LS-BFE200T
250	20	2.5	35	M10	0.05	5	LS-BFE250	LS-BFE250T
300	20	2.5	35	M10	0.06	5	LS-BFE300	LS-BFE300T
400	20	2.5	35	M10	0.09	5	LS-BFE400	LS-BFE400T

Material:
 Copper - BS4109 C101.
 Continuous Lengths are also available



Braid Width

Earth Boss

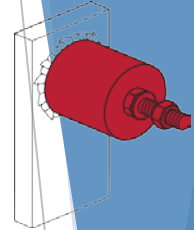
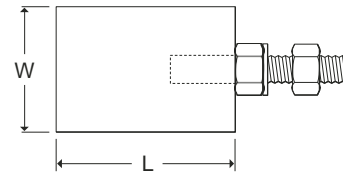
The earth boss is designed to provide an earth point on a steel structure. The boss is welded into place.

Description	Hole Thread	L	W	Weight(KG)	Pack Qty	Catalogue#
Earth Boss	10	50	50	0.77	1.00	LS-EB-01

Material:
 Body - Mild Steel.
 Fittings - Stainless Steel.



EB-01



Denso Tape

A waterproof tape for wrapping joints to provide protection against corrosion.

Size	Coil Size	L	Pack Qty	Catalogue#
50	10m	320	5.00	LS-DT-510



DT-510

Silfos

This allows the installer to braze copper to copper in air without the use of flux.

Size	Coil Size	L	Pack Qty	Catalogue#
50	8m	0.12	1.00	LS-SILFOS

Material:
 Alloy of Silver, Phosphorous and Copper.



SILFOS

Earthing Compound - Marconite

Marconite forms a permanent solution when mixed with cement and is used when certain ground conditions make it difficult to obtain a reliable earth resistance or installations might require a low resistance.

Marconite is used as a backfill to earth rods and plates.

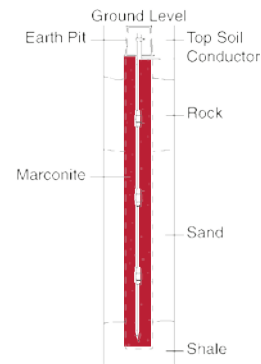
Marconite

Compound	Pack Qty	Part Number
Marconite	Bag 25Kg	LS-LMG25

Mixing Ratio = 3 : 1 (Marconite : Cement).



MARCONITE GRANULES



Earthing Compound - Bentonite

Bentonite can be supplied in powder or granular form and is a moisture retaining clay which is used to reduce soil resistivity.

Granular

Its easier to handle in granular form, the powder can cause dust in windy conditions and blow away, granular is the preferred option for filling trenches where the conductor is covered with Bentonite and then water poured over and mixed in the trench.

Powder

Powder is the preferred method for pouring into bore holes to ensure the mixture is a thin enough consistency to reach the bottom of the bore hole, if diamond drilling is required for deep holes possibly 40mtrs and deeper and the Bentonite is to be pumped through the core into the hole powder would be the preferred option.

Compound	Pack Qty	Part Number
Bentonite Granular	Bag 25Kg	LS-LBG25
Bentonite Powder	Bag 25Kg	LS-LBP25

Material:

Sodium carbonate activated calcium montmorillonite clay. The product is a naturally occurring substance with no known ecological hazards and can be disposed of as non hazardous waste.

Packaging

Granular - Polypropylene Sacks. Powder - Paper Sacks.



BENTONITE POWDER



BENTONITE GRANULES

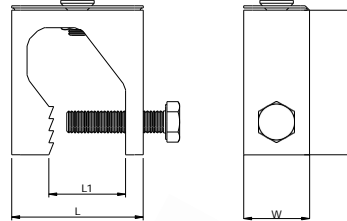


Standing seam roof fixing with Clamp for Copper Tape

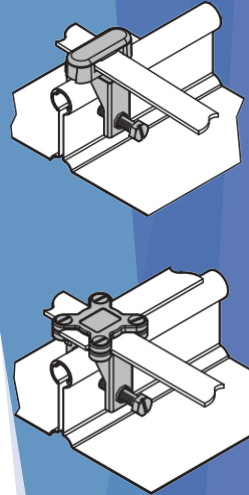
Highly versatile, innovative standing seam roof fixing suitable for use on multi-profiled seam roofing structures up to 22 mm thickness. Use with DC/ DCP/ STD/STCP Clamps.

Max. Seam Roof(mm)	Material	L mm	L1 mm	W mm	H mm	Weight (KG)	Pack Qty	Catalogue#
22	Steel	44	18	22	50	0.07	50	LS-SSR-001

Material:
Standard: Steel Black Powder Coated.
For other materials, suffix to the Catalogue# as below. For eg. LS-SSR-001-304
SS304 – 304; SS316 – 316
Order the clamps separately.



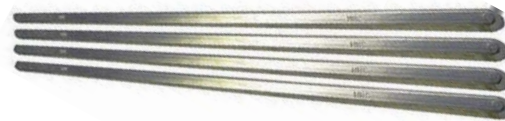
SSR-001



Tinmans Solder

Tinmans commercial grade solder supplied by the kilogram (4 sticks).

Description	Weight (KG)	Pack Qty	Catalogue#
Tinmans Solder (4 Sticks)	1.00	1	LS-TS6040



Material: 60% Tin, 40% Lead.

Flux

A well-established and reliable multi-purpose flux paste. It is designed for engineering and sheet metal work, and is equally as effective for soldering of copper products.

Use with Tinmans Solder.

Description	Weight (KG)	Pack Qty	Catalogue#
Fluxite soldering paste 100gm Tin	0.10	1	LS-SP100

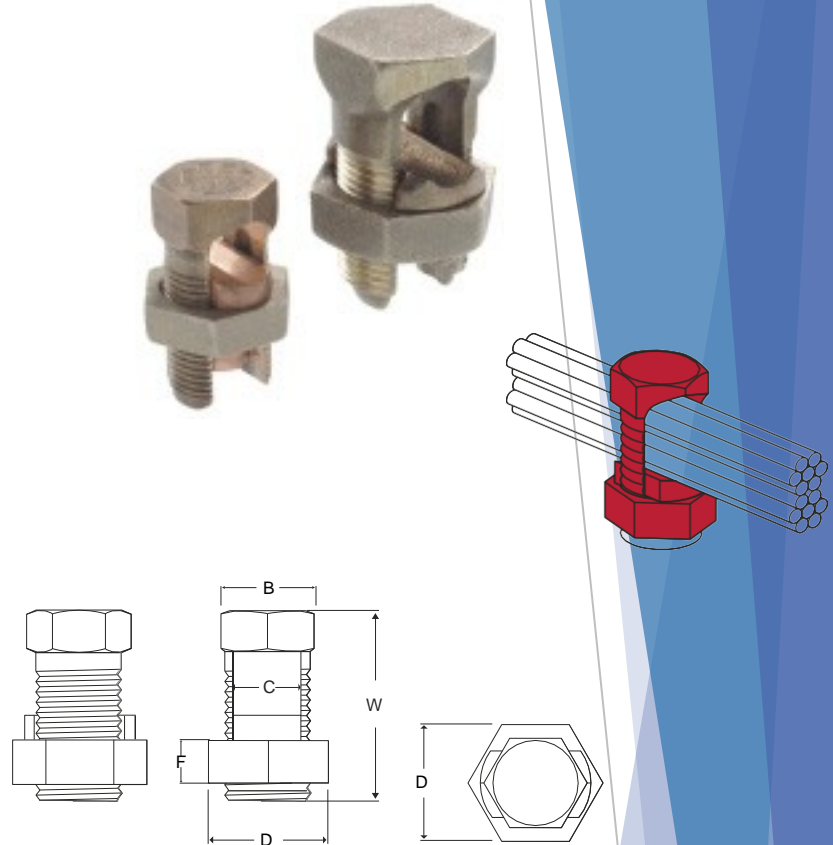


Servit Post

Split bolt connectors will accept a range of stranded or solid circular conductors. No specialist tools are required for installation

Size mm ²	H	C	B	D	F	Catalogue #
6	19.9	4	12.7	13.4	4.8	LS-SP006S
10	26.8	4.7	12.7	19	5.6	LS-SP010S
16	26	5.7	12.7	19	5.6	LS-SP016S
25	28	7.3	16	19	5.6	LS-SP025S
35	35	7.8	18.5	24	6.35	LS-SP035S
50	42	9.7	24.1	27.2	8.65	LS-SP050S
70	44.5	12	24.1	27.2	8.65	LS-SP070S
95	50	14	26.5	35.4	9.4	LS-SP095S
120	57.5	16	30	35.4	12	LS-SP120S
150	57.5	16	30	35.4	12	LS-SP150S
185	57.5	18	31.8	38	12	LS-SP185S
240	72.5	22	40	48.2	14.3	LS-SP240S
300	72.5	24	42	50	14.3	LS-SP300S
400	76.5	26	48	56	16	LS-SP400S
500	80	30	55	65	16	LS-SP500S

Material:
Standard: High Strength Copper Alloy.
Bronze Bolt
For Tin Plating suffix to the Catalogue# as below.
For eg. LS-SP-006ST



Hexagon Head Set Screw

Size (mm)	Material	Weight	Pack Qty	Catalogue#
08 x 25	Brass	0.02	100	HBB 0825
10 x 25	Brass	0.03	100	HBB 1025
10 x 35	Brass	0.03	100	HBB1035
12 x 35	Brass	0.04	100	HBB1235
10 x 25	Phos Bronze	0.03	100	HBP1025
10 x 35	Phos Bronze	0.03	100	HBP1035
12 x 25	Phos Bronze	0.04	100	HBP1225
12 x 35	Phos Bronze	0.04	100	HBP1235
08 x 25	S/Steel	0.02	100	HBS0825
10 x 25	S/Steel	0.03	100	HBS1025
10 x 35	S/Steel	0.03	100	HBS1035
12 x 35	S/Steel	0.04	100	HBS1235



Hexagon Nuts

Size (mm)	Material	Weight	Pack Qty	Catalogue#
8	Brass	0.01	100	HNBO8
10	Brass	0.01	100	HNBO10
12	Brass	0.01	100	HNBO12
10	Phos Bronze	0.01	100	HNP10
12	Phos Bronze	0.01	100	HNP12
8	S/Steel	0.01	100	HNS08
10	S/Steel	0.01	100	HNS10
12	S/Steel	0.01	100	HNS12



Washers

Flat Washer

Size (mm)	Material	Weight	Pack Qty	Catalogue#
8	Brass	0.003	100	FWB08
10	Brass	0.003	100	FWB10
12	Brass	0.003	100	FWB12
10	Phos Bronze	0.003	100	FWP10
12	Phos Bronze	0.003	100	FWP12
8	S/Steel	0.003	100	FWS08
10	S/Steel	0.003	100	FWS10
12	S/Steel	0.003	100	FWS12



Spring Washer

Size (mm)	Material	Weight	Pack Qty	Catalogue#
8	Brass	0.003	100	SWB08
10	Brass	0.003	100	SWB10
12	Brass	0.003	100	SWB12

Singular Weight - 0.003.

Countersunk Wood Screw

Size (mm)	Material	Weight	Pack Qty	Catalogue#
11/4 x 10	S/Steel	0.006	100	CSS140
11/2 x 12	Brass	0.006	100	CSB122

Singular Weight - 0.006.



Plastic Wall Plugs

Size (mm)	Material	Weight	Pack Qty	Catalogue#
No 10-12	Plastic	0.002	100	PPP140



KIEZM EXOTHERMIC WELDING METRIC CATALOGUE



MAKING AN EXOTHERMIC WELDING CONNECTION



1

Position cleaned conductors in mold after making sure mold is dry, by pre-heating or making a test joint.



2

Place metal disc in bottom of mold crucible



3

Dump powder into crucible, being careful not to loosen all the starting powder.



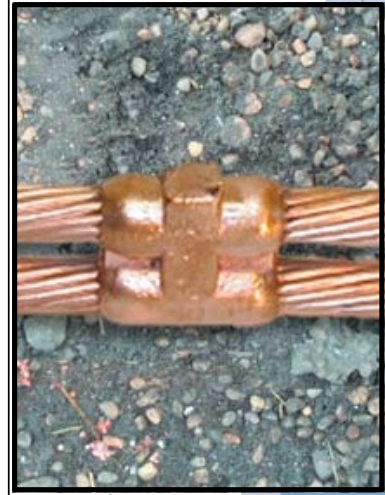
4

Close lid and place a small amount of starting powder in the ignition pocket.



5

Ignite the starting powder with the Flint Ignitor.

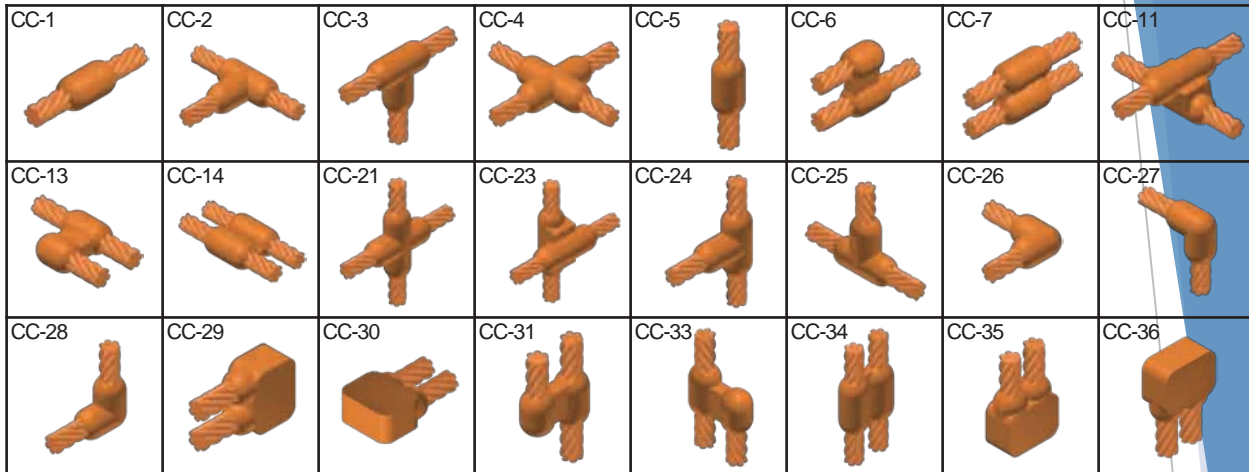


6

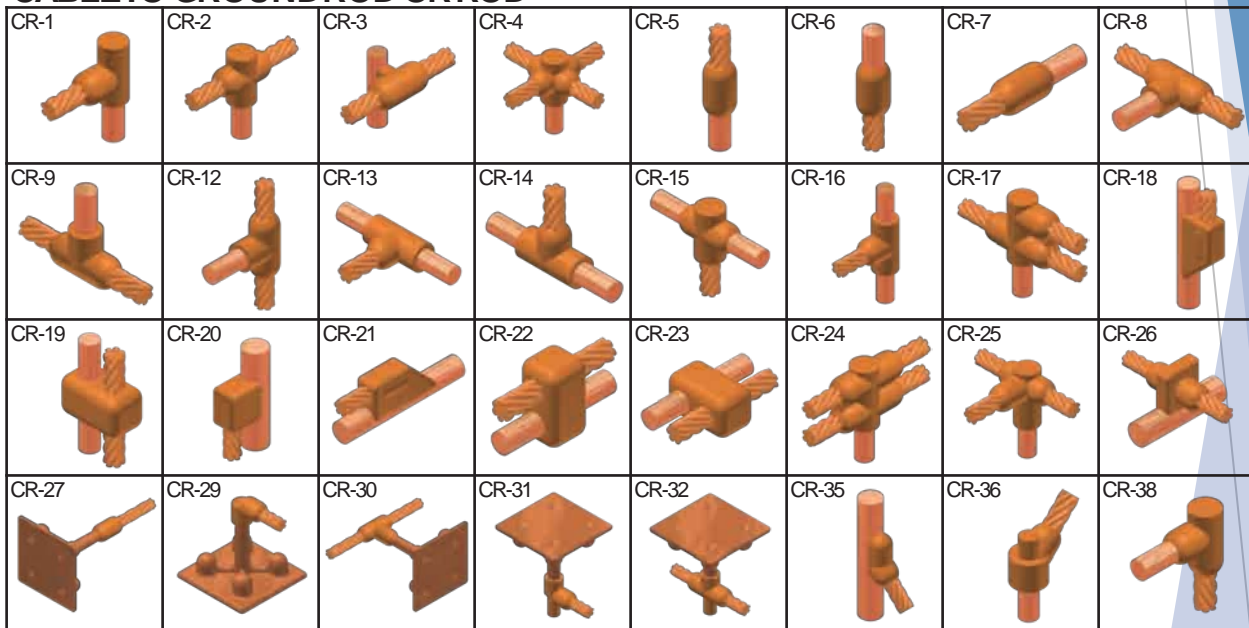
Remove weld and clean mold before making next connection.

SELECTION CHART

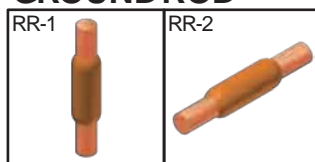
CABLE TO CABLE



CABLE TO GROUNDROD OR ROD



GROUNDROD TO GROUNDROD



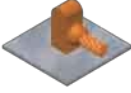
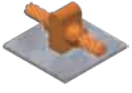


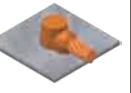
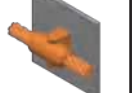


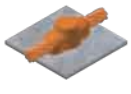
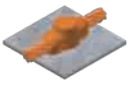

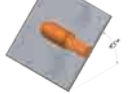
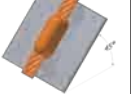
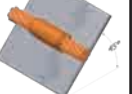

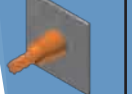













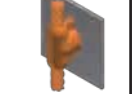


STUD TO CABLE TO STEEL

















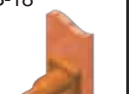

















THREADED STUD OR ROD TO STEEL

SELECTION CHART

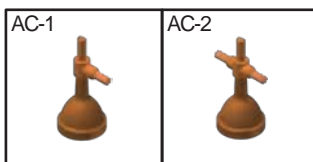
CABLE TO STEEL OR CAST IRON

CS-1  Steel Surface	CS-2  Steel Surface	CS-3  Steel Surface	CS-4  Steel Surface	CS-5  Cast Iron Surface	CS-6  Steel Surface	CS-7  Steel Surface	CS-8  Steel Surface
CS-9  Steel Surface	CS-11  Cast Iron Surface	CS-12  Steel Surface	CS-13  Steel Surface	CS-14  Steel Surface	CS-15  Steel Surface	CS-18  Steel Surface	CS-22  Steel Surface
CS-23  Steel Surface	CS-25  Steel Surface	CS-27  Steel Surface	CS-28  Cast Iron Surface	CS-31  Steel Surface	CS-32 for Cathodic Protection  Steel Surface	CS-33 for Cathodic Protection  Cast Iron Surface	CS-34 for Cathodic Protection  Steel Surface
CS-35 for Cathodic Protection  Cast Iron Surface	CS-36 for Cathodic Protection  Steel Surface	CS-37 for Cathodic Protection  Cast Iron Surface	CS-43  Cast Iron Surface	CS-45  Cast Iron Surface	CS-46  Cast Iron Surface	CS-48 for Cathodic Protection  Steel Surface	CS-49 for Cathodic Protection  Cast Iron Surface

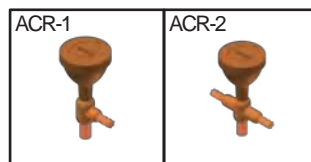
CABLE TO BUS BAR OR LUG

CB-1 	CB-2 	CB-3 	CB-4 	CB-5 	CB-6 	CB-7 	CB-8 
CB-9 	CB-11 	CB-12 	CB-15 	CB-16 	CB-17 	CB-18 	CB-19 
CB-20 	CB-21 	CB-22 	CB-23 	CB-24 	CB-25 	CB-26 	CB-27 
CB-28 	CB-29 	CB-30 	CB-31 	CB-32 	CB-33 	CB-34 	CB-38 

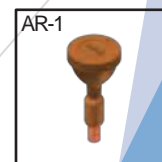
AIRCRAFT RECEPTACLE TO CABLE



AIRCRAFT RECEPTACLE TO CABLE AND ROD

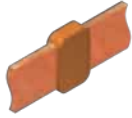


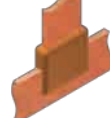
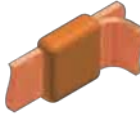

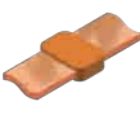

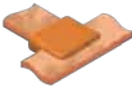



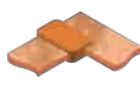





AIRCRAFT RECEPTACLE TO ROD

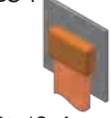
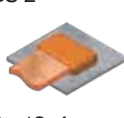
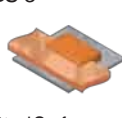
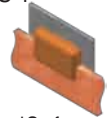


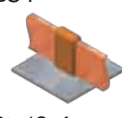






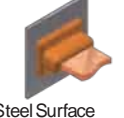
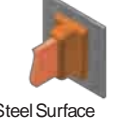



SELECTION CHART










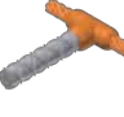










BUSBARTO BUSBAR

BB-1 	BB-2 	BB-3 	BB-4 	BB-5 	BB-6 	BB-7 	BB-12 
BB-14 	BB-17 	BB-20 	BB-21 	BB-22 	BB-27 	BB-29 	BB-41 









BUS BAR TO STEEL

BS-1 	BS-2 	BS-3 	BS-4 	BS-5 	BS-6 	BS-7 	BS-8 
Steel Surface	Steel Surface	Steel Surface	Steel Surface	Cast Iron Surface	Steel Surface	Steel Surface	Steel Surface
BS-13 	BS-14 	BS-15 	BS-16 	BS-17 	BS-18 	BS-19 	BS-20 
Steel Surface	Cast Iron Surface	Steel Surface	Steel Surface	Steel Surface	Steel Surface	Steel Surface	Steel Surface

CABLE TO REBAR

CRE-1 	CRE-2 	CRE-3 	CRE-4 	CRE-5 	CRE-6 	CRE-7 	CRE-8 
CRE-9 	CRE-11 	CRE-12 	CRE-13 	CRE-14 	CRE-15 	CRE-16 	CRE-17 
CRE-18 	CRE-19 	CRE-20 	CRE-21 				

BUSBARTO GROUNDROD

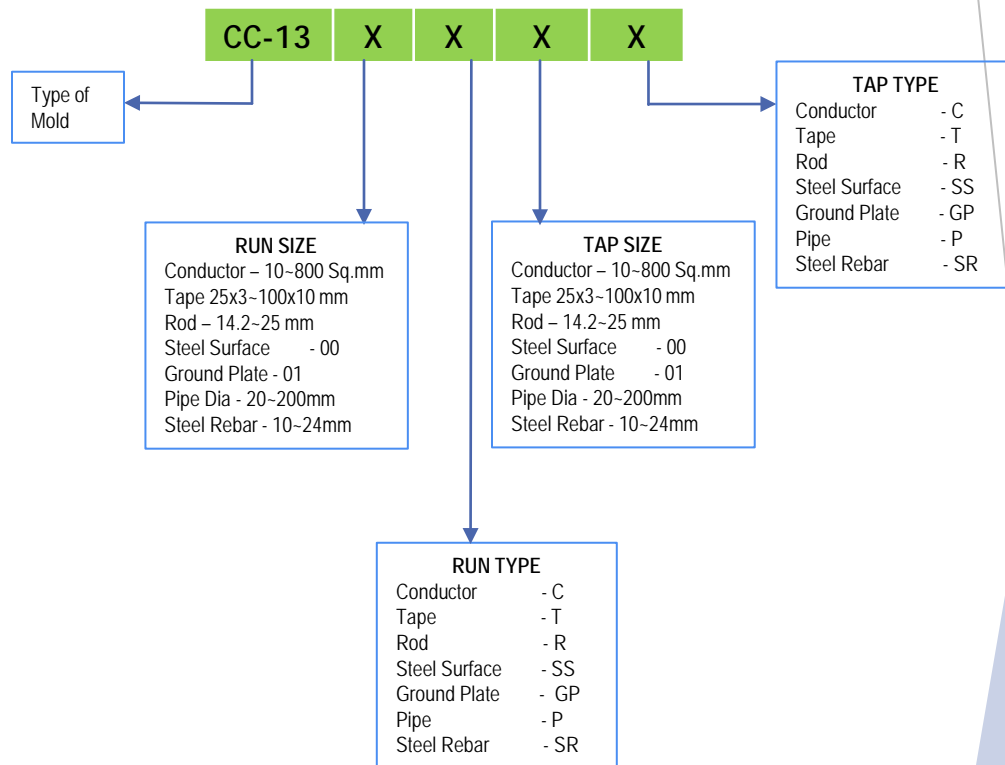
BR-1 	BR-2 	BR-4 	BR-5 	BR-6 	BR-7 	BR-8 	BR-12 
---	---	---	---	---	--	---	--

How to Order Kiezm Molds

1. Determine the Weld Type required:

- Know the application to determine what materials are to be welded.
- Refer to Selector Chart for correct weld type on pages 37, 38 & 39.
- Find the appropriate Weld Type.

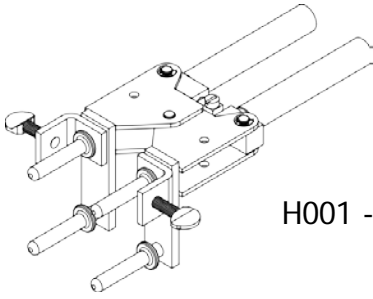
MOLD PART NUMBER CREATION:



EXAMPLES OF ORDERING

- CC-13-25X3-T-50-C (CC13 Type Mold; RUN- 25x3 Cu. Tape; TAP – 50 Sq.mm Conductor)
- CS-8-00-SS-240-C (CC-8 Type Mold; RUN- Steel Surface; TAP – 240 Sq.mm Conductor)
- CR-1-14.2-R-70-C (CR-1 Type Mold; RUN- 5/8"(14.2mm dia Rod); TAP – 70 Sq.mm Conductor)
- BB-1-30X5-T-50X6-C (BB-1 Type Mold; RUN- 30X5 Cu. Tape; TAP – 50x6 Cu. Tap)
- CRS-1-01-GP-300-C (CRS-1 Type Mold; RUN- Ground Plate; TAP – 300 Sq.mm Conductor)
- CC-4-70-C-25-C (CC-4 Type Mold; RUN- 70 Sq.mm Conductor; TAP – 25 Sq.mm Conductor)

ACCESSORIES



H001 - HANDLE



FI-0309-00 ~ Flint Ignitor



8F-0304-00 ~ 8" File



CT-0307-00 ~ Crimping Tool



MCB-3922-00 ~ Mold Cleaning Brush



6SD-0308-00 ~ 6" Screwdriver



CCB-0306-00 ~ Card Cloth Brush



RASP-0101-00 RASP



WB-0305-00 ~ Wire Brush

MOLD CLEANERS



Mold Cleaners are used to clean the slag from molds that are not split through the crucible.

MC-0319-01..... for cartridge sizes #15 thru #65

MC-0319-03..... for cartridge sizes #90 thru #500



TOOL KIT- SUPPLIED EMPTY 10"/12" Size

TC-10

TC-11

WELD METALS

Table - 1

STANDARD CARTRIDGE SIZE	CAST IRON CARTRIDGE SIZE	CATHODIC PROTECTION CARTRIDGE SIZE	RAIL CARTRIDGE SIZE	PACKED PER BOX
#15	#15CI	#15CP	#15R	20
#25	#25CI	#25CP	#25R	20
#32	#32CI	#32CP	#32R	10
#45	#45CI	#45CP	#45R	20
#65	#65CI	#65CP	#65R	20
#90	#90CI	~	#90R	10
#115	#115CI	~	#115R	10
#150	~	~	#150R	10
#200	~	~	#200R	10
#250	~	~	#250R	10
#500	~	~	#500R	10

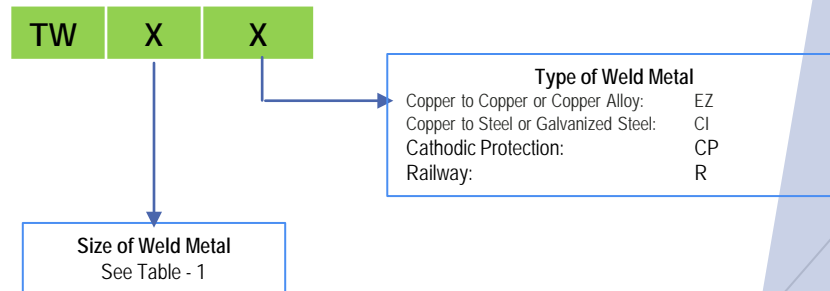
Kiezm Weld Metal is sold in box quantities only

Notes:

Cartridges are supplied as below:

- a. In Plastic Bottles with Coarse & Starting powder together OR
- b. In Plastic Bottles with Coarse & Starting powder separately.
- c. In airtight PVC pouches with Coarse & Starting powder packed separately.

HOW TO ORDER WELD METALS



- EXAMPLES OF ORDERING**

 1. TW-15-EZ (Standard Cartridge No. 15)
 2. TW-25-CI (Cast Iron No. 25)
 3. TW-250-CP (Cathodic Protection No. 250)
 4. TW-150-R (Cathodic Protection No. 150)

WELD METALS

Table - 1

STANDARD CARTRIDGE SIZE	CAST IRON CARTRIDGE SIZE	CATHODIC PROTECTION CARTRIDGE SIZE	RAIL CARTRIDGE SIZE	PACKED PER BOX
#15	#15CI	#15CP	#15R	20
#25	#25CI	#25CP	#25R	20
#32	#32CI	#32CP	#32R	10
#45	#45CI	#45CP	#45R	20
#65	#65CI	#65CP	#65R	20
#90	#90CI	~	#90R	10
#115	#115CI	~	#115R	10
#150	~	~	#150R	10
#200	~	~	#200R	10
#250	~	~	#250R	10
#500	~	~	#500R	10

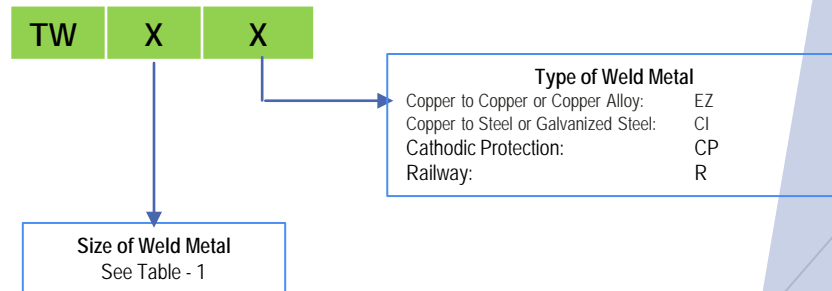
Kiezm Weld Metal is sold in box quantities only

Notes:

Cartridges are supplied as below:

- In Plastic Bottles with Coarse & Starting powder together OR
- In Plastic Bottles with Coarse & Starting powder separately.
- In airtight PVC pouches with Coarse & Starting powder packed separately.

HOW TO ORDER WELD METALS



- EXAMPLES OF ORDERING**
- TW-15-EZ (Standard Cartridge No. 15)
 - TW-25-CI (Cast Iron No. 25)
 - TW-250-CP (Cathodic Protection No. 250)
 - TW-150-R (Cathodic Protection No. 150)

WELD METALS

Table - 1

STANDARD CARTRIDGE SIZE	CAST IRON CARTRIDGE SIZE	CATHODIC PROTECTION CARTRIDGE SIZE	RAIL CARTRIDGE SIZE	PACKED PER BOX
#15	#15CI	#15CP	#15R	20
#25	#25CI	#25CP	#25R	20
#32	#32CI	#32CP	#32R	10
#45	#45CI	#45CP	#45R	20
#65	#65CI	#65CP	#65R	20
#90	#90CI	~	#90R	10
#115	#115CI	~	#115R	10
#150	~	~	#150R	10
#200	~	~	#200R	10
#250	~	~	#250R	10
#500	~	~	#500R	10

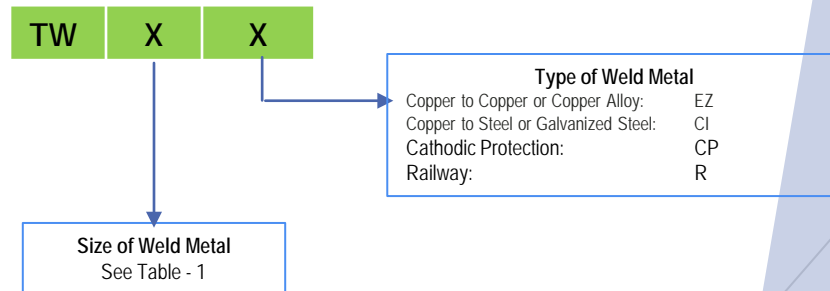
Kiezm Weld Metal is sold in box quantities only

Notes:

Cartridges are supplied as below:

- a. In Plastic Bottles with Coarse & Starting powder together OR
- b. In Plastic Bottles with Coarse & Starting powder separately.
- c. In airtight PVC pouches with Coarse & Starting powder packed separately.

HOW TO ORDER WELD METALS



- EXAMPLES OF ORDERING**
1. TW-15-EZ (Standard Cartridge No. 15)
 2. TW-25-CI (Cast Iron No. 25)
 3. TW-250-CP (Cathodic Protection No. 250)
 4. TW-150-R (Cathodic Protection No. 150)

PART NUMBER INDEX

Part No.	Page#	Part No.	Page#	Part No.	Page#	Part No.	Page#
LS-PCER-15-1.2	10	LS-CBSER-58-1.5	12	LS-ERSS16	15	LS-TEC-120185	17
LS-PCER-15-1.5	10	LS-CBSER-58-1.8	12	LS-ERSS20	15	LS-TEC-185240	17
LS-PCER-15-2.4	10	LS-CBSER-58-2.4	12	ctc	15	LS-TEC-240300	17
LS-PCER-16-1.2	10	LS-CBSER-58-3.0	12	LS-TPC34	15	LS-TC-08	18
LS-PCER-16-1.5	10	LS-CBSER-34-1.2	12	LS-TPC16	15	LS-PTC-253	18
LS-PCER-16-2.4	10	LS-CBSER-34-1.5	12	LS-TPC20	15	LS-SDTC-253	18
LS-PCER-20-1.2	10	LS-CBSER-34-1.8	12	LS-E-16-253	16	LS-WMB-253	18
LS-PCER-20-1.5	10	LS-CBSER-34-2.4	12	LS-E-20-253	16	LS-EBP-01	19
LS-PCER-20-2.4	10	LS-CBSER-34-3.0	12	LS-E-25-253	16	LS-EBP-02	19
LS-PCERE-15-1.2	10	LS-CBSERT-58-1.2	12	LS-E-31-253	16	LS-EBP-04	19
LS-PCERE-15-1.5	10	LS-CBSERT-58-1.5	12	LS-E-38-253	16	LS-EPB-1250	19
LS-PCERE-15-2.4	10	LS-CBSERT-58-1.8	12	LS-E-50-253	16	LS-WPC-01	19
LS-PCERE-16-1.2	10	LS-CBSERT-58-2.4	12	LS-E-16-305	16	LS-WPC-02	19
LS-PCERE-16-1.5	10	LS-CBSERT-58-3.0	12	LS-E-20-305	16	LS-WPC-04	19
LS-PCERE-16-2.4	10	LS-CBSERT-34-1.2	12	LS-E-25-305	16	LS-WPC-06	19
LS-PCERE-20-1.2	10	LS-CBSERT-34-1.5	12	LS-E-31-305	16	LS-TPR-15-0.3	20
LS-PCERE-20-1.5	10	LS-CBSERT-34-1.8	12	LS-E-38-305	16	LS-TPR-15-0.5	20
LS-PCERE-20-2.4	10	LS-CBSERT-34-2.4	12	LS-E-50-305	16	LS-TPR-15-1.0	20
LS-PCERT-15-1.2	10	LS-CBSERT-34-3.0	12	LS-E-16-506	16	LS-TPR-15-1.5	20
LS-PCERT-15-1.5	10	LS-C-58	13	LS-E-20-506	16	LS-TPR-15-2.0	20
LS-PCERT-15-2.4	10	LS-C-34	13	LS-E-25-506	16	LS-TPR-16-0.3	20
LS-PCERT-16-1.2	10	LS-C-58-PB	13	LS-E-31-506	16	LS-TPR-16-0.5	20
LS-PCERT-16-1.5	10	LS-C-34-PB	13	LS-E-38-506	16	LS-TPR-16-1.0	20
LS-PCERT-16-2.4	10	LS-C-58-SB	13	LS-E-50-506	16	LS-TPR-16-1.5	20
LS-PCERT-20-1.2	10	LS-C-34-SB	13	LS-GUV-167	16	LS-TPR-16-2.0	20
LS-PCERT-20-1.5	10	LS-C-58-GM	13	LS-GUV-718	16	LS-TPR-16-3.0	20
LS-PCERT-20-2.4	10	LS-C-34-GM	13	LS-GUV-153	16	LS-ATB-16	20
LS-PCERET-15-1.2	10	LS-DH-58	13	LS-PUB-58	16	LS-ATB-20	20
LS-PCERET-15-1.5	10	LS-DH-34	13	LS-PUB-34	16	LS-ASGR-16	21
LS-PCERET-15-2.4	10	LS-A-58-2612	14	LS-PUB-1.0	16	LS-ASGR-20	21
LS-PCERET-16-1.2	10	LS-A-58-4009	14	LS-PUB-1.5	16	LS-AMBG-16	21
LS-PCERET-16-1.5	10	LS-A-58-5019	14	LS-PUB-2.0	16	LS-AMBG-20	21
LS-PCERET-16-2.4	10	LS-A-34-2612	14	LS-PUB-2.5	16	LS-AOG-16	21
LS-PCERET-20-1.2	10	LS-A-34-4009	14	LS-PUB-3.0	16	LS-AOG-20	21
LS-PCERET-20-1.5	10	LS-A-34-5019	14	LS-PUB-4.0	16	LS-ABHG-16	21
LS-PCERET-20-2.4	10	LS-G-58-0635	14	LS-BB-253	17	LS-ABHG-20	22
LS-CD-10	11	LS-G-58-1670	14	LS-RWB-253	17	LS-MP-15	22
LS-DH-10	11	LS-G-34-3595	14	LS-RWB-08	17	LS-MP-16	22
LS-DS-10	11	LS-ERSO16	15	LS-TEC-1670	17	LS-FS-16	22
LS-CBSER-58-1.2	12	LS-ERSO20	15	LS-TEC-70120	17	LS-FS-20	22

PART NUMBER INDEX

Part No.	Page#
LS-DC-253	23
LS-DC-256	23
LS-DC-313	23
LS-DC-316	23
LS-DC-503	23
LS-DC-506	23
LS-DCP-253	24
LS-DCP-256	24
LS-DCP-313	24
LS-DCP-316	24
LS-DCP-503	24
LS-DCP-506	24
LS-STC-253	23
LS-STC-256	23
LS-STC-305	23
LS-STC-313	23
LS-STC-503	23
LS-STC-506	23
LS-STCP-253	24
LS-STCP-256	24
LS-STCP-313	24
LS-STCP-503	24
LS-STCP-506	24
LS-OTC-253	25
LS-OTC-316	25
LS-OTC-386	25
LS-OTC-506	25
LS-HCS-50	25
LS-HCS-70	25
LS-HCS-95	25
LS-SCS-50	25
LS-SCS-70	25
LS-SCS-95	25
LS-TC-50	26
LS-TC-70	26
LS-TC-95	26
LS-CTC-50	26
LS-CTC-70	26
LS-CTC-95	26
LS-CTC-120	26

Part No.	Page#
LS-CTC-240	26
LS-CTC-300	26
LS-YC4C4	26
LS-YC2C4	26
LS-YC26C2	26
LS-YC26C26	26
LS-YC185M	26
LS-YC29C29	26
LS-YGHC34C29	26
LS-YGHC34C34	26
LS-YGHC40C40	26
LS-CT-253	27
LS-CT-256	27
LS-CT-305	27
LS-CT-313	27
LS-CT-503	27
LS-CT-506	27
LS-CTP-253	28
LS-CTP-256	28
LS-CTP-305	28
LS-CTP-313	28
LS-CTP-503	28
LS-CTP-506	28
LS-TCT-253	27
LS-TCT-256	27
LS-TCT-305	27
LS-TCT-313	27
LS-TCT-503	27
LS-TCT-506	27
LS-TCTP-253	28
LS-TCTP-256	28
LS-TCTP-305	28
LS-TCTP-313	28
LS-TCTP-503	28
LS-TCTP-506	28
LS-CB-253	29
LS-CB-256	29
LS-CB-305	29
LS-CB-313	29
LS-CB-503	29

Part No.	Page#
LS-CB-506	29
LS-TCB-253	29
LS-TCB-256	29
LS-TCB-305	29
LS-TCB-313	29
LS-TCB-503	29
LS-TCB-506	29
LS-PIT-001	30
LS-COV-001-C	30
LS-COV-001-CI	30
LS-PIT-004	30
LS-COV-004-CP	30
LS-PIT-005	30
LS-COV-005-CP	30
LS-EBC-001B	30
LS-EBC-004B	31
LS-EBC-104B	31
LS-EBC-006B	31
LS-EBC-106B	31
LS-EBC-008B	31
LS-EBC-108B	31
LS-EBC-010B	31
LS-EBC-110B	31
LS-EBC-012B	31
LS-EBC-112B	31
LS-EBC-014B	31
LS-EBC-114B	31
LS-EBC-018B	31
LS-EBCT-001B	30
LS-EBCT-004B	31
LS-EBCT-104B	31
LS-EBCT-006B	31
LS-EBCT-106B	31
LS-EBCT-008B	31
LS-EBCT-108B	31
LS-EBCT-010B	31
LS-EBCT-110B	31
LS-EBCT-012B	31
LS-EBCT-112B	31
LS-EBCT-014B	31

Part No.	Page#
LS-EBCT-114B	31
LS-EBCT-016B	31
LS-EBCT-116B	31
LS-EBCT-018B	31
LS-EBCT-118B	31
LS-EBCT-020B	31
LS-EBCT-220B	31
LS-EBCT-022B	31
LS-EBCT-222B	31
LS-EBCT-024B	31
LS-EBCT-224B	31
LS-EBCT-026B	31
LS-EBCT-226B	31
LS-EBCT-206B	31
LS-EBCTE-004B	31
LS-EBCTE-008B	31
LS-EBCT-206B	31
LS-EBC-004SS	31
LS-EBC-104SS	31
LS-EBC-006SS	31
LS-EBC-106SS	31
LS-EBC-008SS	31
LS-EBC-108SS	31
LS-EBC-010SS	31
LS-EBC-110SS	31
LS-EBC-012SS	31
LS-EBC-112SS	31
LS-EBC-014SS	31
LS-EBC-114SS	31
LS-EBC-018SS	31
LS-EBCT-001SS	30
LS-EBCT-004SS	31
LS-EBCT-104SS	31
LS-EBCT-006SS	31
LS-EBCT-106SS	31
LS-EBCT-008SS	31
LS-EBCT-108SS	31
LS-EBCT-010SS	31
LS-EBCT-110SS	31
LS-EBCT-012SS	31

PART NUMBER INDEX

Part No.	Page#
LS-EBCT-112SS	31
LS-EBCT-014SS	31
LS-EBCT-114SS	31
LS-EBCT-016SS	31
LS-EBCT-116SS	31
LS-EBCT-018SS	31
LS-EBCT-118SS	31
LS-EBCT-020SS	31
LS-EBCT-220SS	31
LS-EBCT-022SS	31
LS-EBCT-222SS	31
LS-EBCT-024SS	31
LS-EBCT-224SS	31
LS-EBCT-026SS	31
LS-EBCT-226SS	31
LS-EBCT-206SS	31
LS-EBCT-001CDMS	30
LS-EBCT-004CDMS	31
LS-EBCT-104CDMS	31
LS-EBCT-006CDMS	31
LS-EBCT-106CDMS	31
LS-EBCT-008CDMS	31
LS-EBCT-108CDMS	31
LS-EBCT-010CDMS	31
LS-EBCT-110CDMS	31
LS-EBCT-012CDMS	31
LS-EBCT-112CDMS	31
LS-EBCT-014CDMS	31
LS-EBCT-114CDMS	31
LS-EBCT-016CDMS	31
LS-EBCT-116CDMS	31
LS-EBCT-018CDMS	31
LS-EBCT-118CDMS	31
LS-EBCT-020CDMS	31
LS-EBCT-220CDMS	31
LS-EBCT-022CDMS	31
LS-EBCT-222CDMS	31
LS-EBCT-024CDMS	31
LS-EBCT-224CDMS	31
LS-EBCT-026CDMS	31

Part No.	Page#
LS-EBCT-226CDMS	31
LS-EBCT-206CDMS	31
LS-EBCTE-008SS	31
LS-INS-01	31
LS-BFE150	31
LS-BFE200	31
LS-BFE250	31
LS-BFE300	31
LS-BFE400	31
LS-BFE150T	31
LS-BFE200T	31
LS-BFE250T	31
LS-BFE300T	31
LS-BFE400T	31
LS-BFE457TC	31
LS-BFE127TC	31
LS-BFE1200T	31
LS-BFE2025TC	31
LS-EB-01	32
LS-DT-510	32
LS-SILFOS	32
LS-LMG25	33
LS-LBG25	33
LS-LBP25	33
LS-SSR-001	34
LS-TS6040	34
LS-SP100	34
LS-SP006S	35
LS-SP010S	35
LS-SP016S	35
LS-SP025S	35
LS-SP035S	35
LS-SP050S	35
LS-SP070S	35
LS-SP095S	35
LS-SP120S	35
LS-SP150S	35
LS-SP185S	35
LS-SP240S	35
LS-SP300S	35

Part No.	Page#
LS-SP400S	35
LS-SP500S	35
LS-TW15EZ	44
LS-TW25EZ	44
LS-TW32EZ	44
LS-TW45EZ	44
LS-TW65EZ	44
LS-TW90EZ	44
LS-TW115EZ	44
LS-TW150EZ	44
LS-TW200EZ	44
LS-TW250EZ	44
LS-TW500EZ	44
CC1-70-C-70-C	42
CC1-120-C-120-C	42
CC1-185-C-185-C	42
CC1-240-C-240-C	42
CC1-300-C-300-C	42
CC2-35-C-35-C	42
CC2-70-C-16-C	42
CC2-70-C-25-C	42
CC2-70-C-35-C	42
CC2-70-C-70-C	42
CC2-120-C-35-C	42
CC2-120-C-70-C	42
CC2-120-C-120-C	42
CC2-185-C-185-C	42
CC2-240-C-240-C	42
CC2-240-C-70-C	42
CC2-240-C-35-C	42
CC2-300-C-70-C	42
CC2-300-C-240-C	42
CC2-300-C-120-C	42
CC2-300-C-300-C	42
CR2-17.2-R-300-C	42
CR17-14.2-R-70-C	42
CC4-70-C-70-C	42
CC4-120-C-120-C	42
CC4-240-C-240-C	42
CR2-16-R-70-C	42

Part No.	Page#
CR2-20-R-70-C	42
CR2-20-R-120-C	42
CS32-165-P-70-C	42
CS32-250-P-70-C	42
CB4-253-T-70-C	42
CB4-253-T-120-C	42
BB07-253-T-253-T	42
BB14-253-T-253-T	42
BB14-506-T-506-T	42
CB04-253-T-70-C	42
BRE3-253-T-10-SR	42
BRE4-253-T-10-SR	42
BRE8-253-T-10-SR	42
H001	43
H002	43
H003	43
FI-0309-00	43
8F-0304-00	43
CT-0307-00	43
MCB-3922-00	43
6SD0308-00	43
CCB-0306-00	43
WB-0305-00	43
MC-0319-01	43
MC-0319-03	43
TC-10	43
TC-12	43
HBB 0825	36
HBB 1025	36
HBB1035	36
HBB1235	36
HBP1025	36
HBP1035	36
HBP1225	36
HBP1235	36
HBS0825	36
HBS1025	36
HBS1035	36
HBS1235	36
HNB08	36
HNB10	36

PART NUMBER INDEX

Part No.	Page#
HNB12	36
HNP10	36
HNP12	36
HNS08	36
HNS10	36
HNS12	36
FWB08	36
FWB10	36
FWB12	36
FWP10	36
FWP12	36
FWS08	36
FWS10	36
FWS12	36
SWB08	36
SWB10	36
SWB12	36
CSS140	36
CSB122	36
PPP140	36



TMDS Group Inc. (Unit of Jans Electromate)

Germany Office
Hauptstr 33, Stutensee 76297

Telephone (+49) 176 3050 7419
saleskiezm@gmail.com; work@janscopper.com
www.janscopper.com

TMDS Group Inc. (Unit of Jans Electromate)

Mumbai Office
11/43, B.J. Marg, Lifescaps Nilay, 34, 2nd Floor, Opp.
Halai Lohana Mahajan Wadi, Mumbai – 400 002
Telephone (+91) 22 4004 4800
Fax (+91) 22 2203 7578
saleskiezm@gmail.com; work@janscopper.com
www.janscopper.com

TMDS Group Inc. (Unit of Jans Electromate)

Factory Address
Plot No. 8,9,10, Supreme Industrial Estate, Bhimpore,
Daman – 396210 (U.T.)
Telephone (+260) 2220922 / 33
saleskiezm@gmail.com; work@janscopper.com
[site; www.janscopper.com](http://www.janscopper.com)

Distributor: