

ACE
SUPER INPEX
AN ISO 9001 – 2008 COMPANY

PROTECTIVE ENGINEERED CONNECTIONS

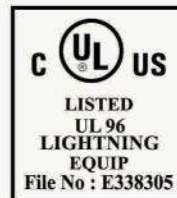
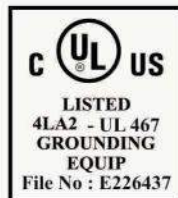
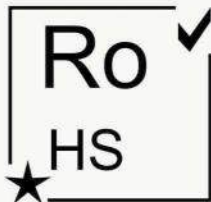


ELECTRICAL EARTHING
&
LIGHTNING PROTECTION SYSTEMS

PRODUCT RANGE

- Lightning Protection, Earthing & Grounding Accessories, Conductors (In Copper & Copper Alloys, Bronze, Gunmetal, Brass, Aluminium, Steel).
- Cable Lugs, Terminals, Connectors, Ferrules, Splices, Crimping Tools.
- Bimetallic Lugs & Bimetallic Connectors.
- Brass Cable Glands, Cable Gland Kits, Line Taps, Split Bolt Connectors (Aluminium & Stainless Steel Available)
- Cable Accessories : Rigid & Flexible Conduit Pipes - Hoses, Cable Tray, Channels, Trunking & Accessories in Galvanised Steel, PVC, GI, FRP, PVC Covered Steel.
- Conduit Accessories in Steel, GI, PVC, Brass, Aluminium. Switch Socket Boxes, KO Boxes, Adaptable Boxes.
- Copper Braids, Stranded & Bunched Conductor, Insulated with PVC, Kraft-Paper Teflon, etc.

Our Products follow widely accepted International Standards like British Standard, European Norm (BS EN 62350), BS 6651, UL 467, DIN, UL, NFC & IS (Indian Standard).



012

EARTHING & LIGHTNING PROTECTION SYSTEM



CABLE GLANDS & ACCESSORIES



CABLE TERMINALS / LUGS & CONNECTORS



BIMETALLIC TERMINAL LUGS & CONNECTORS



COPPER BRAIDS & FLEXIBLE CONNECTORS



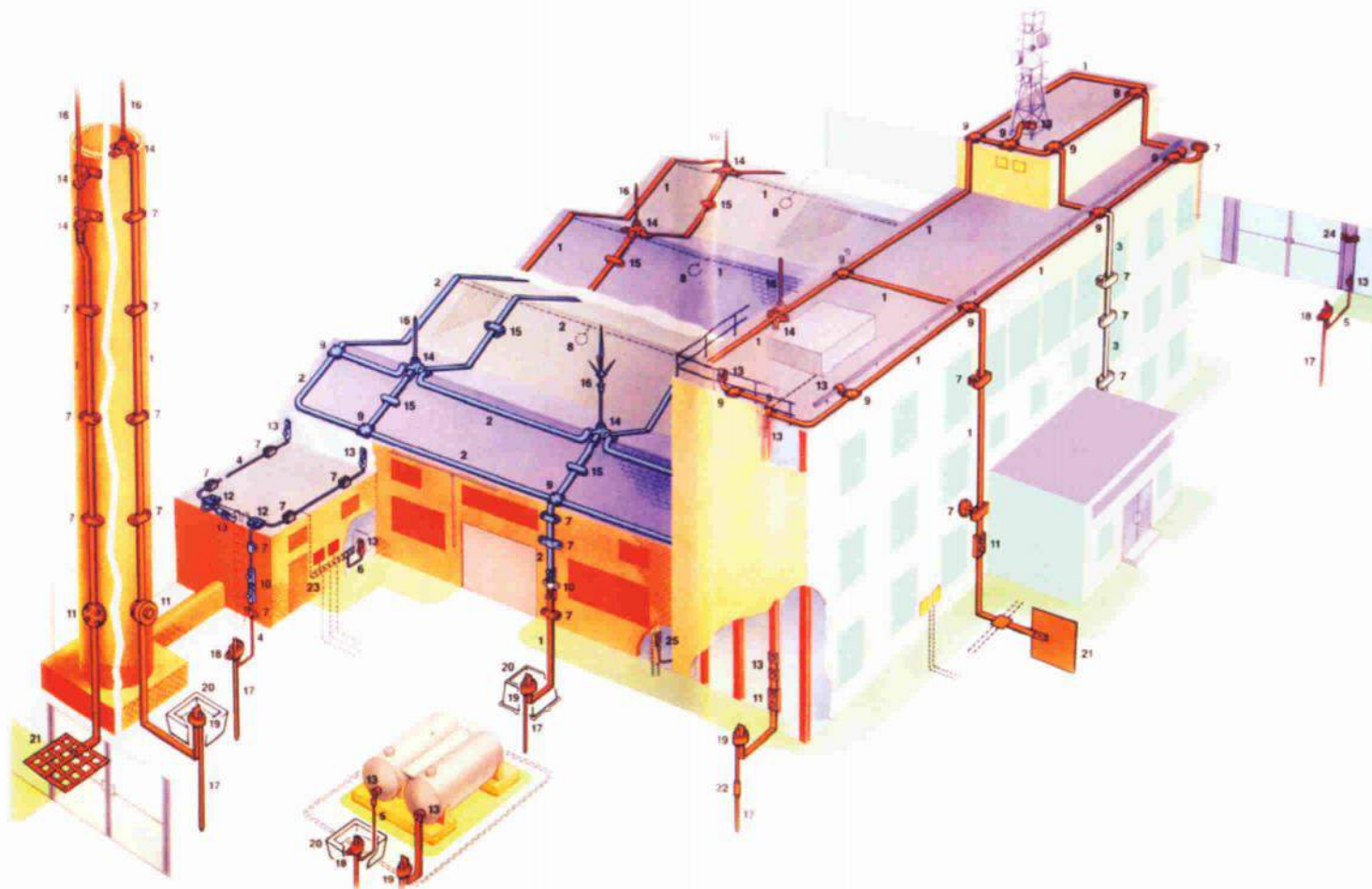
FLEXIBLE CONDUITS & CONDUIT ACCESSORIES



STRUT / CABLE TRAY / TRUNKING & ACCESSORIES



(Any dimensional changes are purely the result of our endeavor to constantly improve the efficiency of the product)



KEY

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

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EARTHING ROD / GROUNDING ROD & FITTINGS



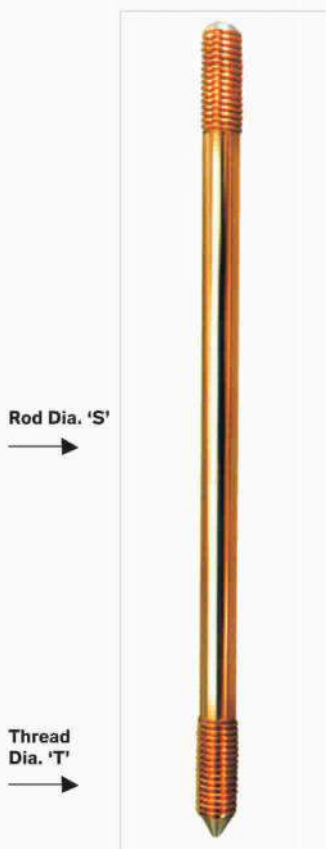
COPPER BONDED GROUNDING ROD / EARTH ROD

"ACE" copper bonded earth rod are made from low carbon Steel.

Earth Rods are molecularly bonded with pure copper.

Salient Features :

- * Perfectly Bonded rod will last longer, drive easier and will not crack.
- * Corrosion resistance while providing the lowest resistance to ground.
- * Threads are rolled by roll threading process, which ensures that an even copper covering is maintained, even at the roof of the thread. Roll thread gives greater strength than cut thread.
- * Thread rolling process raises the surface of the rod, so that thread dia (T) is greater than shank dia. (S). As seen in figure :-



DIMENSION ROD SIZE (DIA x LENGTH)	ACTUAL ROD DIA "S"	THREAD DIA "T"	PROD. CODE COPPER BONDED	PROD. CODE SOLID COPPER
9.5 x 1200 (UN - THREADED)	9.5	-	ABR - 012	ACRT - 012
9.5 x 1800 (UN - THREADED)	9.5	-	ABR - 018	ACRT - 018
14 x 1200	12	14	ABR - 1412	ACRT - 1412
14 x 1500	12	14	ABR - 1415	ACRT - 1415
14 x 1800	12	14	ABR - 1418	ACRT - 1418
14 x 2000	12	14	ABR - 1420	ACRT - 1420
14 x 2400	12	14	ABR - 1424	ACRT - 1424
5/8" x 4' or 16mm x 1200	14.2	5/8"	ABR - 112	ACRT - 112
5/8" x 5' or 16mm x 1500	14.2	5/8"	ABR - 115	ACRT - 115
5/8" x 6' or 16mm x 1800	14.2	5/8"	ABR - 118	ACRT - 118
5/8" x 8' or 16mm x 2400	14.2	5/8"	ABR - 124	ACRT - 124
5/8" x 10' or 16mm x 3000	14.2	5/8"	ABR - 130	ACRT - 130
5/8" x 4' or 16mm x 1200	16	5/8"	ABR - 312	ACRT - 312
5/8" x 5' or 16mm x 1500	16	5/8"	ABR - 315	ACRT - 315
5/8" x 6' or 16mm x 1800	16	5/8"	ABR - 318	ACRT - 318
3/4" x 4' or 19mm x 1200	17.2	3/4"	ABR - 212	ACRT - 212
3/4" x 5' or 19mm x 1500	17.2	3/4"	ABR - 215	ACRT - 215
3/4" x 6' or 19mm x 1800	17.2	3/4"	ABR - 218	ACRT - 218
3/4" x 8' or 19mm x 2400	17.2	3/4"	ABR - 224	ACRT - 224
3/4" x 10' or 19mm x 3000	17.2	3/4"	ABR - 230	ACRT - 230
1" x 8' or 25mm x 2400	23.1	1"	ABR - 424	ACRT - 424
1" x 10' or 25mm x 3000	23.1	1"	ABR - 430	ACRT - 430

* Above Rod Can also be made as per customer specification.

* UL listed Rods are minimum 1/2" Dia. & 2400 mm in length.

* Available in various copper coating microns : 350, 250, 100 & more.

COUPLER

Material - Copper Alloy

Coupler are made from copper alloy & counter board to completely enclose threads, protecting them from damage & corrosion.

*Unthreaded Coupler available on request



SIZE	PROD. CODE BRASS	PROD. CODE AL.BRONZE
14mm	AC - 14	ACA - 14
5/8" or 16mm	AC - 16	ACA - 16
3/4" or 19mm	AC - 19	ACA - 19

DRIVING STUD

Material - High Tensile Steel

These are used to drive the Earth Rod to the Ground.
Re-usable many times suitable for Power Hammering

*Unthreaded Driving Stud available on request



SIZE	PROD. CODE
1/2" or 12mm	AD-12
14mm	AD-14
5/8" or 16mm	AD-16
3/4" or 19mm	AD-19

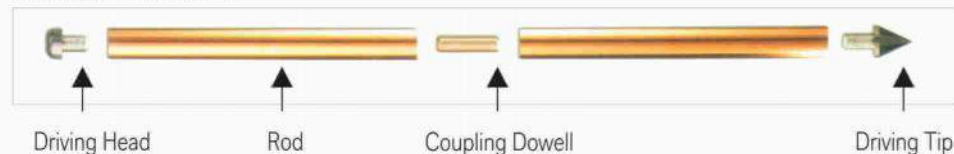
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EARTHING ROD / GROUNDING ROD & FITTINGS

SOLID COPPER ROD

"ACE" solid copper earth rod are made from 99.9% pure electrolytic copper. Solid Copper rods offer greater resistance to corrosion. They are ideally used in applications where soil conditions are very aggressive, for eg. soil with high salt content.

INTERNALLY THREADED



ROD DIA.mm	LENGTH	THREAD DIA	PROD. CODE
12	1200	M8	ACR - 1212
12.5	1200	M8	ACR - 12512
14	1200	M10	ACR - 1412
14	1500	M10	ACR - 1415
15	1200	M10	ACR - 1512
15	1500	M10	ACR - 1515
16	1200	M10	ACR - 1612
16	1500	M10	ACR - 1615
20	1200	M12	ACR - 2012
20	1500	M12	ACR - 2015

ACCESSORIES FITTINGS FOR SOLID COPPER ROD



SIZE	DRIVING HEAD	COUPLING DOWELL	DRIVING TIP
M 8	ADH - 8	ACD - 8	ADT - 8
M 10	ADH - 10	ACD - 10	ADT - 10
M 12	ADH - 12	ACD - 12	ADT - 12

MECHANICALLY COPPER CLADED GROUNDING ROD



Mechanically copper claded grounding rod is made when electrolytic grade 99.9% copper tube with wall thickness of 0.25 (250 microns) is claded to a low carbon steel rod. Even if the rod is bent by 45°, the copper tube should not peel out of the Steel rod.

* UL listed Rods are minimum 1/2" Dia. & 2400 mm in length.



ROD SIZE "S"	LENGTH(ft)	PROD. CODE
12	1200 (4 ft)	ACCR - 1412
12	1800 (6 ft)	ACCR - 1418
12	2400 (8 ft)	ACCR - 1424
14	1200 (4 ft)	ACCR - 112
14	1800 (6 ft)	ACCR - 118
14	2400 (8 ft)	ACCR - 124
16	1200 (4 ft)	ACCR - 312
16	1800 (6 ft)	ACCR - 318
16	2400 (8 ft)	ACCR - 324
16	3000 (10 ft)	ACCR - 330
19	1200 (4 ft)	ACCR - 412
19	1800 (6 ft)	ACCR - 418
19	2400 (8 ft)	ACCR - 424
19	3000 (10 ft)	ACCR - 430

GALVANISED STEEL EARTH ROD

Galvanised Steel Earth Rods are made up of high strength low carbon steel and hot dip galvanised. This design of the rod is actually cost effective option for earthing.



* Above rod can also be supplied as per customer specification.

ROD SIZE "S"	LENGTH	PROD. CODE
1/2" / 12.5 mm	1500 (5 ft)	AGR - 1215
1/2" / 12.5 mm	1800 (6 ft)	AGR - 1218
1/2" / 12.5 mm	2400 (8 ft)	AGR - 1224
5/8" / 14.2 mm	1800 (6 ft)	AGR - 1418
5/8" / 14.2 mm	2400 (8 ft)	AGR - 1424
5/8" / 14.2 mm	3000 (10 ft)	AGR - 1430
3/4" / 17.2 mm	2400 (8 ft)	AGR - 1724
3/4" / 17.2 mm	3000 (10 ft)	AGR - 1730
1" / 23.1 mm	3000 (10 ft)	AGR - 2330

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EARTHING ROD / GROUNDING ROD & FITTINGS

STAINLESS STEEL UNTHREADED ROD



"ACE" stainless steel ground rods are used to overcome many of the problems caused by galvanic corrosion which can take place between dissimilar metals buried in close proximity. Other advantage of stainless steel rod is that they are highly resistant to corrosion and much more anodic than copper.

* Stainless Steel Rod can also be supplied in Internally Threaded.

* UL listed Rods are minimum 1/2" Dia. & 2400 mm in length.

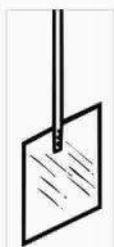


DIAMETER		LENGTH		PACKING	PROD. CODE
INCHES	MM	FEET	M		
5/8"	14.2	5'	1.50	10	ASSR - 145
5/8"	14.2	8'	2.44	10	ASSR - 148
5/8"	14.2	10'	3.05	10	ASSR - 1410
3/4"	17.2	5'	1.50	5	ASSR - 175
3/4"	17.2	10'	3.05	5	ASSR - 1710
1.0"	23.1	10'	3.05	1	ASSR - 2410

EARTHING / GROUNDING PRODUCTS

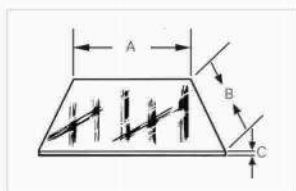
EARTH PLATE

COPPER BONDED



Material - Steel

SOLID COPPER

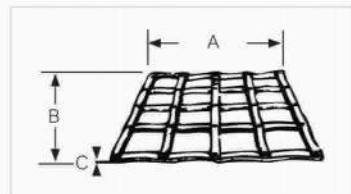
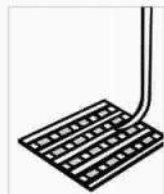


Material - Electrolytic Copper



SIZE (A x B x C)	PROD. CODE SOLID COPPER	PROD. CODE COPPER BONDED
500 x 500 x 3	ACEP - 53	ABEP - 53
500 x 500 x 5	ACEP - 55	ABEP - 55
600 x 600 x 1.5	ACEP - 615	ABEP - 615
600 x 600 x 3	ACEP - 63	ABEP - 63
600 x 600 x 5	ACEP - 65	ABEP - 65
900 x 900 x 3	ACEP - 93	ABEP - 93
900 x 900 x 5	ACEP - 95	ABEP - 95
1000 x 1000 x 3	ACEP - 103	ABEP - 103
1000 x 1000 x 5	ACEP - 105	ABEP - 105

EARTH PLATE - LATTICE COPPER



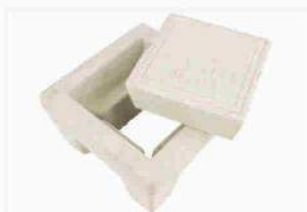
SIZE (A x B x C)	PROD. CODE
500 x 500 x 3	ALC - 53
600 x 600 x 3	ALC - 63
900 x 900 x 3	ALC - 93

* Other Sizes Available On Request

CONCRETE EARTH PIT

Material : Concrete

ACE Concrete Earth Pit is suitable for most types for most types of Earthing & Lightning Protection installations. The Pit can have an internal earth bar (5Hole or 7 hole) fitted diagonally across in slots provided for multiple connections.



DESCRIPTION	PROD CODE
Concrete Earth Pit	ACEP - 01

LIGHT WEIGHT EARTH PIT

Material : Plastic

ACE Light Weight/ Plastic Earth Pit is used for light weight application & in areas where small vehicles are used.



DESCRIPTION	PROD CODE
Plastic Earth Pit	APEP - 01

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EARTHING / GROUNDING PRODUCTS

EARTH ROD SEAL

Material : Plastic

The earth rod seal is fitted when the earth rod connection is below the water level and where there is a possibility of water entering the inspection housing from below ground. These seals are used along with ACE earth pits. PS: Please specify Earth Rod diameter to be used with.



DESCRIPTION	PROD CODE
Single Flange	AERS - 01
Double Flange	AERS - 02

EARTH BARS FOR EARTH HOUSING

Earth Bars made of hard drawn copper are used for fitting into slots provided in the earth housings where multiple connections are required to the earth rod.



Holes	Length in mm	Width in mm	Thickness in mm	Prod. Code
5	203	31	6	AEBEH-5A
7	203	31	6	AEBEH-7A
5	250	31	6	AEBEH-5B
7	250	31	6	AEBEH-7B
5	300	25	6	AEBEH-5C
7	300	25	6	AEBEH-7C

BENTONITE MOISTURE RETAINING CLAY

Used as an earth - electrode backfill to reduce soil resistivity by retaining moisture.



DESCRIPTION	PROD CODE
Bentonite Powder	ABPP - 01
Bentonite Granules	ABPP - 02

EARTH ENHANCING POWDER

Used as an earth - electrode backfill to reduce soil resistivity by retaining moisture.



DESCRIPTION	PROD CODE
Earth Enhancing Powder	AEEP - 01
Earth Enhancing Powder Pre - Mixed with Cement	AEEP - 02

PREPUNCHED EARTHING STRAPS

Material : Copper
 Available in continuous coils & pre Punched for faster earthing connection.



SIZE MM	HOLE MM	PROD CODE
12 x 1.5	6	APES - 1215
20 x 2	8	APES - 2020
25 x 2	8	APES - 2520

EARTH BOSS

Material -
 Body - Mild Steel.
 Fittings - Stainless Steel



THREAD	LENGTH	DIAMETER	PROD CODE
M10	40 mm	40 mm	APB - 01
M10	50 mm	50 mm	APB - 02

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

COPPER EARTH / LINK

Product Code : Copper Earth / Link
 Finish : Copper / Tinned



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EARTH ROD CLAMPS /FITTINGS

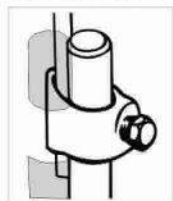
Copper alloy clamps are made from Bronze / Gunmetal / High Strength Copper Alloy body which gives strong resistance to corrosion. Following are the range of clamps we offer :- Fasteners are made from high strength Copper Alloy /Steel /Stainless Steel

EARTH ROD CLAMP - (A Clamp Small)

Suitable For Rod Dia. 12mm

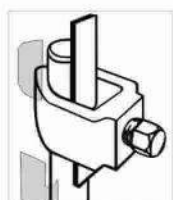


PROD. CODE : AAC - 1



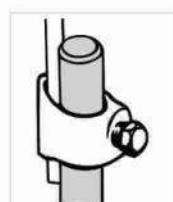
'O' CLAMP

SIZE	MAX. COND. SIZE (mm ²)	PROD. CODE
5/8"/16	35	ACO - 1
5/8"/16	70	ACO - 2
3/4"/20	95	ACO - 3



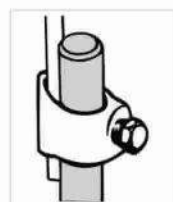
ROD TO TAPE CLAMP - A TYPE

SIZE	MAX COND. SIZE	PROD. CODE
5/8"	26 x 12	ABC - 1
5/8"	40 x 12	ABC - 2
5/8"	51 x 12	ABC - 3



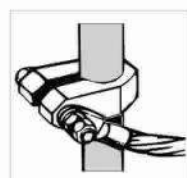
GROUNDING ROD CLAMPS - UL (FOR DIRECT BURIAL)

ROD SIZE	WIRE SIZE	PROD. CODE
1/2"	10 sol/str - 2 str	ACC - 12
5/8"	8 str - 1/0 str	ACC - 2
3/4"	10 sol/str - 1 str	ACC - 4
3/8", 1/2", 5/8", 3/4"	10 sol/str - 1/0 str	ACC - 6



ROD TO CABLE CLAMP - G TYPE

SIZE	MAX. COND. SIZE (mm ²)	PROD. CODE
3/8"/ 9.5	35	ACCG - 1
1/2"/ 12	50	ACCG - 2
5/8"/ 16	35	ACCG - 3A
5/8"/ 16	70	ACCG - 3B
5/8"/ 16	95	ACCG - 3C
3/4"/ 20	95	ACCG - 4
1"/ 25	120	ACCG - 5



ROD TO CABLE LUG CLAMP - B TYPE

ROD DIA	PROD. CODE
3/8" / 9/5	ADC - 1
5/8" / 16	ADC - 2
3/4" / 20	ADC - 3

ADJUSTABLE TYPE



BRASS CABLE CLIP

SIZE	MAX COND. SIZE	PROD. CODE
13MM	ROD 6-16MM ²	ABCC - 1

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U BOLT - CLAMP

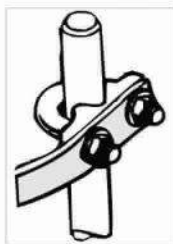
Material -

Plate : Gunmetal / Brass
 U Bolt : Copper / Copper Alloy / Stainless Steel

Material -

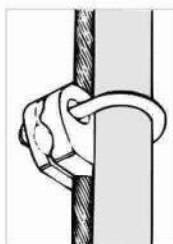
Plate : Gunmetal / Brass
 U Bolt : Copper / Copper Alloy / Stainless Steel

U BOLT - ROD CLAMP



Nominal Rod Dia.	Hole Centres mm	Prod. Code
5/8"	37	AUU - 16
3/4"	37	AUU - 20
1"	37	AUU - 25
1.1/4"	43	AUU - 32
1.1/2"	54	AUU - 40
2"	64	AUU - 50

U BOLT - ROD TO TAPE CLAMP



Nominal Rod Dia.	Tape Size mm	Prod. Code
5/8" / 16	25	AURT - 16
3/4" / 20	50	AURT - 20
1" / 25	50	AURT - 25

U BOLT - ROD TO CABLE CLAMP - 'GUV'

These are used for Connecting Rod to Cable. Available with different Rod & Cable size.



Nominal Rod Dia.	Conductor Range - mm ²	Prod. Code
5/8" / 16	16 - 95	AURC - 1
3/4" / 20	16 - 70	AURC - 2
5/8" / 16	70 - 185	AURC - 3
5/8" / 20	70 - 150	AURC - 4

U BOLT FOR RIGID PIPE & CABLES - 'PUB'

These U Bolts are used for universal parallel or 90 degree cable connection to rod or pipe.



Nominal Rod Dia.	Prod. Code
3/8"	APUB - 38
1/2"	APUB - 12
3/4"	APUB - 34
1-1/2"	APUB - 112
2"	APUB - 2

GROUNDING PIPE CLAMP

(For direct burial)



Pipe Dia	Prod. Code
1/2" to 1"	APC-1
1-1/4" to 2"	APC-2
2 1/2" to 4"	APC-3
5" to 6"	APC-4

GROUNDING PIPE CLAMP WITH HUB

(with threaded hubs for conduit pipe)



Pipe Dia	HUB Size	Prod. Code
1/2" to 1"	1/2"	APC-1C
1-1/4" to 2"	OR 3/4"	APC-2C
2 1/2" to 4"	OR 1"	APC-3C
5" to 6"		APC-4C

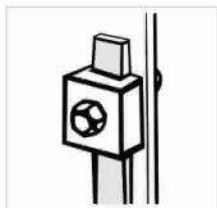
* Add Suffix 1/2", 3/4", 1" For HUB Size after prod. code

(Any dimensional changes are purely the result of our endeavor to constantly improve the efficiency of the product)

BONDS & CLAMPS

B BOND

Material : Gunmetal / Brass / Aluminium



These are used for bonding tape to steel structures.

Max. Tape Width mm	Bolt Size	Conductor Material	Prod. Code
25	M10	Copper	AB - 25
25	M10	Aluminium	AA - 25

TOWER EARTH CLAMP

Material - Gunmetal / Brass

These are suitable for bonding copper cable or wire to steel structures.



Cond. Size mm ²		Channel Thickness mm	Bolt Size	Conductor Material	Prod. Code
Min.	Max.				
16	70	10	M10	Copper	ATB - 16
70	120	10	M12	Copper	ATB - 70
25	50	10	M10	Copper	ATB - 25
25	50	10	M10	Aluminium	ATB - 25A

CAST GROUND PLATE OR EARTH PLATE

These Plates when used in concrete structures offer convenient ground system connection point. They are used where reinforcing bars are electrically continuous & are to be used as down conductors. These earth points allow easy access for the lightning protection & earthing system.

Type No.	Cond. Size	Hole	Prod. Code
A	120	2 Hole	ACCP - 2120
B	120	4 Hole	ACCP - 4120
B	240	4 Hole	ACCP - 4240
C	240	4 Hole	ACCPL - 4240



Type.A : ACCP-2120



Type.B : ACCP-4120 / ACCP-4240



Type.C : ACCPL-4240

EARTH BONDING POINTS WITH PRE-WELDED TAILS



No. of Holes	Type	Product Code
1	500 mm long tail of 70mm ² PVC insulated cable	ACCP - 4120-500
2	500 mm long tail of 70mm ² PVC insulated cable	ACCP - 2120-500
3	1000 mm long tail of 70mm ² PVC insulated cable	ACCP - 2120-1000
4	1500 mm long tail of 70mm ² PVC insulated cable	ACCP - 2120-1500
5	500 mm long tail of 70mm ² PVC insulated cable	ACCP - 4240-500
6	1000 mm long tail of 70mm ² PVC insulated cable	ACCP - 4240-1000
7	1500 mm long tail of 70mm ² PVC insulated cable	ACCP - 4240- 1500

(Any dimensional changes are purely the result of our endeavor to constantly improve the efficiency of the product)

LIGHTNING ARRESTORS

AERIAL ROD + MULTIPLE POINT + TERMINAL BASE

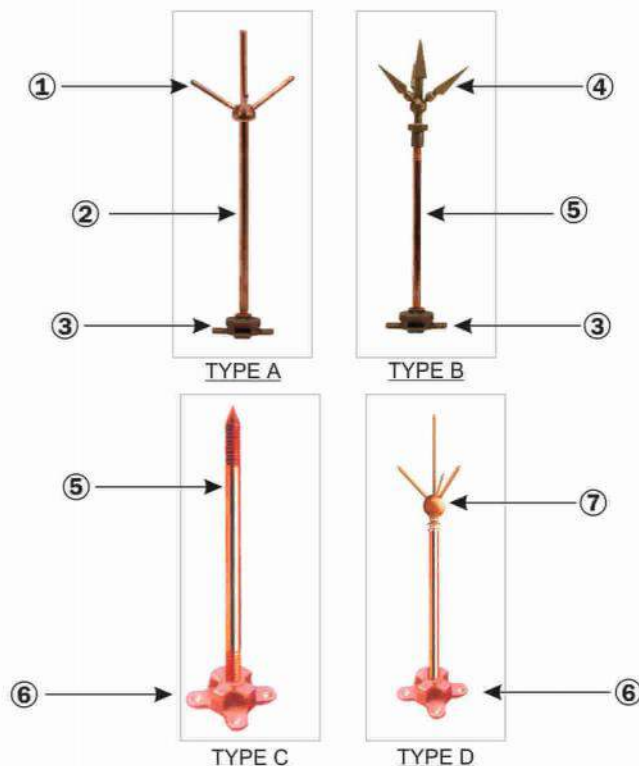


AMPT -16-500(AAE - 5 + AMP - 16 (NO 1) + ALD 1625 (NO 3)
AMPT -16-1000(AAE - 10 + AMP - 16 (NO 1) + ALD 1625 (NO 3)

LIGHTNING ARRESTOR SET (TYPE A/B/C/D)

Consisting of Aerial Rod + Multiple Point + Terminal Base

SELECT AERIAL ROD FROM NO 2 OR NO 5
SELECT MULTIPLE POINT FROM NO 1 OR NO 4 OR NO 7
SELECT TERMINAL BASE FROM NO 3 OR NO 6 OR
NO 8 OR NO 9



TAPER POINTED ROD

Material - Electrolytic Copper / Aluminium

Air Rod can be installed with or without Multiple Point



AERIAL ELEVATION ROD

Material - Electrolytic Copper / Aluminium

Air Rod can be installed with Multiple Point



Rod Dia.	Thread Dia.	Legth of Rod	Prod Code Taper Pointed Rod	Prod Code Aerial Elevation Rod
15	5/8"	500	AAE - 5	AER - 5
15	5/8"	1000	AAE - 10	AER - 10
15	5/8"	2000	AAE - 20	AER - 20
17.2	3/4"	500	AAE - 5A	AER - 5A
17.2	3/4"	1000	AAE - 10A	AER - 10A
17.2	3/4"	2000	AAE - 20A	AER - 20A

MULTIPLE POINT

Material - Copper / Gunmetal / Brass

Multiple Point is used with Elevation rod.



Rod Dia. mm	Prod. Code
16 - 5/8"	AMP - 16
19 - 3/4"	AMP - 20

TERMINAL SADDLE BASE

Material - Gunmetal / Brass / Aluminium

Used for supporting lightning conductor Air Terminals.

Thread Dia. mm	Max. Cond. Width mm	Prod.Code Terminal Base	Prod.Code Ridge Saddle
5/8" / 16	25	ALD - 1625	ARDS - 1625
3/4" / 17.2	25	ALD - 2025	ARDS - 2025



TERMINAL BASE
(LIGHT DUTY)



Air Rod
Terminal Base



RIDGE SADDLE-FLAT



RIDGE SADDLE
(ROUND)

(Any dimensional changes are purely the result of our endeavor to constantly improve the efficiency of the product)

CONDUCTORS

BARE COPPER TAPE

MTL : High conductivity Cu Tape to BS EN 13601 (formerly BS 1432)

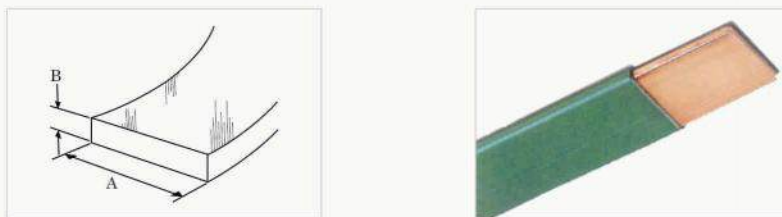


* Add suffix 'T' to the product code for Tinned Copper Tape.

Conductor Size mm	Prod. Code	Conductor Size mm	Prod. Code
12.5 x 1.5	AT - 1215	30 x 6	AT - 306
12.5 x 3	AT - 1253	38 x 3	AT - 383
20 x 1.5	AT - 2015	38 x 5	AT - 385
20 x 3	AT - 203	38 x 6	AT - 386
25 x 1.5	AT - 2515	40 x 4	AT - 404
25 x 3	AT - 253	40 x 6	AT - 406
25 x 4	AT - 254	50 x 3	AT - 503
25 x 6	AT - 256	50 x 4	AT - 504
30 x 3	AT - 303	50 x 6	AT - 506

PVC COVERED COPPER TAPE

MTL : Electrolytic Copper



Conductor Size mm	Prod. Code
12.5 x 1.5	APT-1215
25 x 3	APT-253
25 x 6	APT-256
38 x 6	APT-386
50 x 6	APT-506

* STANDARD PVC INSULATION COLOR : BLACK
OTHER COLOR ON INSULATION AVAILABLE ON REQUEST.

LEAD COVERED COPPER TAPE

MTL : Electrolytic Copper



Conductor Size mm	Prod. Code
25 x 3	ALCCT - 253

BARE ALUMINIUM TAPE

MTL : Aluminium



Conductor Size mm	Prod. Code
12.5 x 1.5	AAT-1215
25 x 3	AAT-253
25 x 6	AAT-256
38 x 6	AAT-386
50 x 6	AAT-506

COPPER BUS BAR (HARD DRAWN / HALF HARD / SOFT DRAWN)

MTL : High conductivity Copper Bar



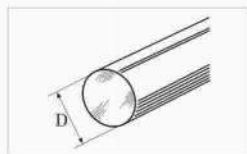
- * Lengths as per client's request.
- * Tinned Copper Bus Bar also available.
- * Add suffix 'T' to the product code for Tinned Copper Bus Bar

Conductor Size mm	Prod. Code	Conductor Size mm	Prod. Code
12 x 3	ADCB-123	50 x 6	ADCB-506
20 x 3	ADCB-203	50 x 10	ADCB-5010
20 x 5	ADCB-205	50 x 12	ADCB-5012
25 x 3	ADCB-253	60 x 5	ADCB-605
25 x 4	ADCB-254	60 x 8	ADCB-608
25 x 5	ADCB-255	60 x 10	ADCB-6010
25 x 6	ADCB-256	75 x 6	ADCB-756
30 x 5	ADCB-305	75 x 10	ADCB-7510
31 x 25	ADCB-3125	75 x 12	ADCB-7512
38 x 3	ADCB-383	80 x 5	ADCB-805
38 x 4	ADCB-384	80 x 6	ADCB-806
38 x 6	ADCB-386	80 x 10	ADCB-8010
40 x 3	ADCB-403	80 x 12	ADCB-8012
40 x 5	ADCB-405	100 x 5	ADCB-1005
40 x 6	ADCB-406	100 x 6	ADCB-1006
40 x 10	ADCB-4010	100 x 10	ADCB-1010
50 x 5	ADCB-505	100 x 20	ADCB-1020

(Any dimensional changes are purely the result of our endeavor to constantly improve the efficiency of the product)

CONDUCTORS

SOLID CIRCULAR COPPER CONDUCTOR (BARE / PVC COVERED)

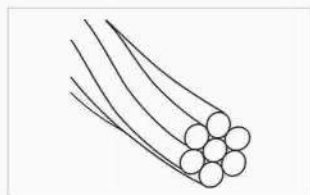


Conductor	Dia. (D) mm	Cross section area mm ²	Prod. Code
Bare Copper	8	50.27	ABSC - 8C
Bare Aluminum	8	50.27	ABSC - 8A
PVC Copper	8	50.27	APSC - 8C
PVC Aluminum	8	50.27	APSC - 8A

* STANDARD PVC INSULATION COLOR : BLACK
OTHER COLOR ON INSULATION AVAILABLE ON REQUEST.

BARE STRANDED COPPER CONDUCTORS

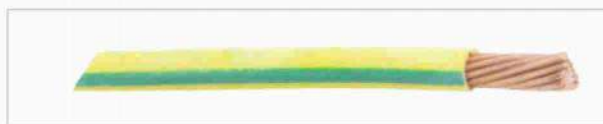
Soft Drawn Cu Conductor to BS EN - 60228



Size mm ²	Stranding No / mm	Prod. Code
6	7 / 1.04	ABCU - 6
16	7 / 1.70	ABCU - 16
25	7 / 2.14	ABCU - 25
35	7 / 2.52	ABCU - 35
50	19 / 1.78	ABCU - 50
70	19 / 2.14	ABCU - 70
95	19 / 2.52	ABCU - 95
120	37 / 2.03	ABCU - 120
150	37 / 2.25	ABCU - 150
185	37 / 2.52	ABCU - 185

PVC COVERED STRANDED COPPER CONDUCTORS

PVC Covered Soft Drawn Cu
Conductor to BS - 6004



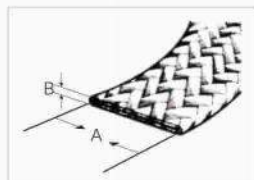
Size mm ²	Stranding No / mm	Prod. Code
16	7/1.7	APCU - 16
25	7/2.14	APCU - 25
35	7/2.52	APCU - 35
50	19/1.78	APCU - 50
70	19/2.14	APCU - 70
95	19/2.52	APCU - 95
120	37/2.03	APCU - 120
150	37/2.25	APCU - 150
185	37/2.52	APCU - 185
240	61/2.25	APCU - 240
300	61/2.52	APCU - 300
400	61/2.85	APCU - 400

FLEXIBLE COPPER BRAID

High conductivity Copper Wire to BS EN-13062 formerly BS 4109 - C101
Suitable for earth bonding. Also supplied as standard drilled & pre-cut bonds.
Customer specific sizes & types of braid can be manufactured on order.

*Tinned Copper Flexible Braid also available.

Add suffix 'T' to the product code for Tinned Copper Flexible Braid



Overall Nominal Equivalent Size mm	Size mm ²	Prod. Code
12 X 1.0mm	6mm ²	ABB - 121
15 X 1.5mm	10mm ²	ABB - 1515
19 X 2.5mm	16mm ²	ABB - 1925
25 X 3.0mm	25mm ²	ABB - 253
25 X 3.5mm	35mm ²	ABB - 2535
30 X 5.0mm	50mm ²	ABB - 305
32 X 6.0mm	70mm ²	ABB - 326
37 X 6.0mm	95mm ²	ABB - 376
45 X 6.0mm	120mm ²	ABB - 456
50 X 8.0mm	150mm ²	ABB - 508

FLEXIBLE BRAID BOND

Material - Copper

Copper Flexible Braids are used for bonding gates, doors, fences etc.



Size mm	Cross Section area	Hole Size mm	Hole Centre mm	Prod. Code
25 x 3.5	35 mm ²	12	200	AFB-252
25 x 3.5	35 mm ²	12	300	AFB-253
25 x 3.5	35 mm ²	12	400	AFB-254

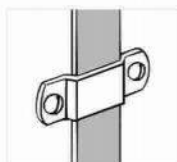
(Any dimensional changes are purely the result of our endeavor to constantly improve the efficiency of the product)

TAPE FIXINGS

TAPE CLIP

Material - Copper / Brass / Aluminium

These are used with Bare Copper Tape.
 Used to support Tape to structure



Type 'A'



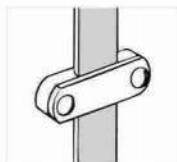
Type 'B'

Conductor Size mm	Prod. Code
20 x 3	ATC - 203
25 x 3	ATC - 253
50 x 6	ATC - 506

DC TAPE CLIP

Material - Gunmetal / Brass

These are used with Bare Copper Tape Conductor.
 Used to secure Tape to structure



Type 'A'



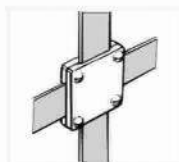
Type 'B'

Conductor Size mm	Prod. code
20 x 3	ADTC - 203
25 x 3	ADTC - 253
25 x 4	ADTC - 254
25 x 6	ADTC - 256
40 x 3	ADTC - 403
40 x 6	ADTC - 406
50 x 3	ADTC - 503
50 x 6	ADTC - 506

SQUARE TAPE CLAMP

Material - Gunmetal / Brass

These are suitable for 4 Way Connections, Straight, Through or Tee Joints for Copper Tape



Type 'A'



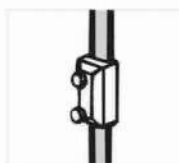
Type 'B'

Size	Prod. code
25 x 3	ASTC - 253
25 x 4	ASTC - 254
25 x 6	ASTC - 256
50 x 6	ASTC - 506

OBLONG TEST CLAMP

Material - Gunmetal / Brass

These are used with Bare Copper Tape Conductor. Suitable for straight through tape joint



Conductor Size mm	Prod. Code
25 x 3	AOT - 253
40 x 6	AOT - 406
50 x 6	AOT - 506

PLATE TYPE TEST CLAMP/ TEST BOND

Material - Gunmetal / Brass / Aluminium

These are used for 4 way Copper Tape Connection



Tape Size mm	Prod. Code
25 x 3	ATBC - 253

SCREWDOWN TEST CLAMP

Material - Gunmetal / Brass

These are used for fixing 2 Way Copper Tape

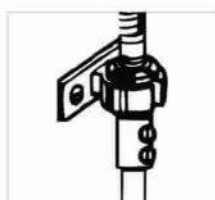


Conductor Size mm	Prod. Code
25 x 3	ASDTC - 253

ROD TO TAPE COUPLING

Material - Gunmetal / Brass

Used to secure elevation rod by means of a bolted connection



Air Rod Dia. mm	Thread Dia. mm	Rod Material	Prod. Code
15	5/8" / 16	Copper	ART - 16C
15	5/8" / 16	Aluminium	ART - 16A
17.2	3/4" / 19	Copper	ART - 19C
17.2	3/4" / 19	Aluminium	ART - 19A

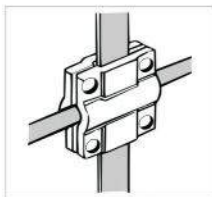
(Any dimensional changes are purely the result of our endeavor to constantly improve the efficiency of the product)

TAPE FIXINGS

CABLE TO TAPE JUNCTION CLAMP

Material - Gunmetal / Brass

These are used for connecting
 Copper Tape to Cable



Tape Size mm x mm	Cable Size mm ²	Prod. Code
25 x 3	50	ACTJ - 253

STRIKE PAD

Material- Gunmetal/Brass/ Aluminum

These are used where it is not possible
 to install conductor on roof or outside of
 a building. Supplied with a 40mm threaded
 stud & nut.

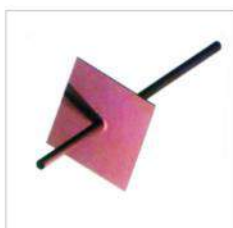


Application with	Prod. Code
Copper Conductor	ASPC - 01
Al Conductor	ASPC - 01

PUDDLE FLANGE

Material : Copper / Aluminium

For taking Lighting Conductors through
 roofs etc.

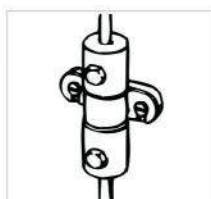


Conductor	Prod.Code
Copper	APEC - 01
Aluminium	APFA - 02

BI - METALLIC CONNECTOR

Material - Aluminium / Copper
 Fasteners : Brass / Copper /
 Stainless Steel

These are used for joining
 Aluminium & Copper Tape, circular
 conductors, particularly when
 Copper is used as earthing in
 Aluminium lightning protection
 systems.



Conductor Dia.	Prod.Code
8 mm Dia. Al to 8 mm Dia. Cu	ABI - 8
8 mm Dia. Al to 25 x 3 Cu tape	ABI - 825
20 x 3 Al Tape to 25 x 3 Cu Tape	ABI - 203
20 x 3 Al Tape to 25 x 3 Cu Tape	ABI - 253

CROSS CLAMPS

Cross Clamp for Earth Tape / Earth Round Bar / Earth Round Bar & Tape

Type : HOT DIP GALVANISED STEEL

HDG Steel Cross Clamp equipped with
 4 Galvanised Screws & Nuts M8 x 25,
 suitable to connect :-

- A)** 8 mm or 10 mm Round Bars
- B)** Galvanised Plates with maximum
 width of 30 mm.

Type : COPPER

Copper Cross Clamp equipped with
 4 Stainless Steel Screws & Nuts M8 x 25,
 suitable to connect :-

- A)** 8 mm or 10 mm Copper Round Bars
- B)** Copper Plates with Maximum
 width of 30 mm.



Sizes	Intermediate Plate	Material
60 x 60 x 2.5	with	Hot Galv. Steel
60 x 60 x 2.5	without	Hot Galv. Steel
60 x 60 x 2.5	with	Copper
60 x 60 x 2.5	without	Copper

Cross Clamp also available to connect
 Galv. Plate with 40 mm width.

Cross Clamp also available in
 size 60 x 60 x 3 / 60 x 60 x 4.

Cross Clamp also available of Stainless
 Steel on special request.

CIRCULAR CONDUCTOR SYSTEM

ONE HOLE CABLE CLIP

Material - Electrolytic Copper
 These are recommended
 to fix cable conductors



Solid
Conductor



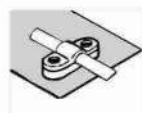
Stranded
Conductor



For Solid Conductor		For Stranded Conductor	
Size. mm	Prod. Code	Size. mm ²	Prod.Code
8	AOH - 8	50	AOH - 50
10	AOH - 10	70	AOH - 70
12	AOH - 12	95	AOH - 95
16	AOH - 16	-	-

HEAVY DUTY CAST CABLE SADDLE

Material - Gunmetal / Brass
 These are used with 8 mm
 conductor or for supporting Air
 Terminals when used in conjunction
 with wall mounted Air Terminal base.



Solid
Conductor



Stranded
Conductor



For Solid Conductor		For Stranded Conductor	
Size. mm	Prod. Code	Size. mm ²	Prod.Code
8	ADCC - 8	50	ADCC - 50
10	ADCC - 10	70	ADCC - 70
12	ADCC - 12	95	ADCC - 95
16	ADCC - 16	-	-

TEST CLAMP

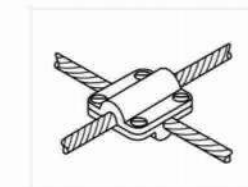
Material - Gunmetal / Brass
 Used in overlapping joints



Conductor Size mm ²	Prod. Code
50	ATETC-50
70	ATETC-70
95	ATETC-95

SQUARE CONDUCTOR CLAMP

Material - Gunmetal / Brass
 Suitable for 4 way connection,
 straight, through or tee
 joints for Round Conductors.



Conductor Size mm ²	Prod. Code
35	ASCC-35
50	ASCC-50
70	ASCC-70
95	ASCC-95

TEE CLAMP

Material - Gunmetal / Brass
 These are used for forming &
 bonding Tee joint for conductor.



Conductor Dia. mm	Prod. Code
8 Cu	ATEC - 8C
8 Al	ATEC - 8A

SIDE MOUNTING ROD BRACKET

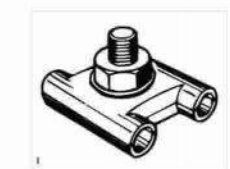
Material - Gunmetal / Brass
 Above Bracket provides a 75 mm
 projection from the face of a wall.
 Manufactured either in Gunmetal
 or Brass.



Air Rod Dia. mm	Prod. Code
16	ASM-16
20	ASM-20

JOINTING CLAMP

Material - Gunmetal / Brass
 These are used for forming
 straight through joints.



Conductor Dia. mm	Prod. Code
8 Cu	AJC - 8C
8 Al	AJC - 8A

(Any dimensional changes are purely the result of our endeavor to constantly improve the efficiency of the product)

CIRCULAR CONDUCTOR SYSTEM

FLAT SADDLE - C

Material - Gunmetal / Brass
 Used for supporting taper pointed or blunt air rods with circular conductors on flat surface.



Conductor Size (mm ²)	Rod Dia (mm)	Thread Dia	Product Code
50	15	16mm or 5/8"	AFSC - 50
70	15	16mm or 5/8"	AFSC - 70
95	15	16mm or 5/8"	AFSC - 95

ANTI - VANDAL CONDUCTOR GUARD



Legth mm	Prod. Code
3000	ACG - 30

BRASS COMB CLAMP

Material : Brass / Copper Alloy



Conductors mm	Type	Prod. Code
3-5	1 Bolt	ACMP-1
6-8	1 Bolt	ACMP-2
9-12	1 Bolt	ACMP-3
3-5	2 Bolt	ACMP-4
6-8	2 Bolt	ACMP-5
9-12	2 Bolt	ACMP-6
12-14	2 Bolt	ACMP-7
14-16	2 Bolt	ACMP-8

UNIVERSAL CLAMP

Universal use as T, Cross, Parallel & Thrust Clamp



Specification	Prod.Code
Galvanized Steel	AUC-23
Stainless Steel	AUC-24
Copper	AUC-25

SADDLE CLAMP WITH BASE

Material : Copper / Brass / Aluminium



Type A



Type B

Sizes	Type	Prod.Code
8.0 - 10.0	A	ANT-019
16.0	A	ANT-020
7.0	B	ASC-003
7.0	B	ASC-004

CLAMP CONNECTOR - STRAIGHT

Material - Brass



Size	Rod		Cable		Prod.Code
	Min.	Max.	Min.	Max.	
10/50	4	10	10	70	ACCS-70
25/120	6	14	16	120	ACCS-120
70/150	10	16	25	150	ACCS-150
150/240	14	20	120	240	ACCS-240
240/400	20	24	240	400	ACCS-400

CLAMP CONNECTOR - 90°

Material - Brass



Size	Rod		Cable		Prod.Code
	Min.	Max.	Min.	Max.	
10/50	4	10	10	70	ACCD-70
25/120	6	14	16	120	ACCD-120

(Any dimensional changes are purely the result of our endeavor to constantly improve the efficiency of the product)

CIRCULAR CONDUCTOR SYSTEM

NIRO CLIP - SNAP ON HOLDER

(for attaching wire to wall)

Snap - on mechanism & Base Made of Metal.

Type AFL : Fixed conductor holder

Type AIL : Loose conductor holder.



Specification Snap - on Mech / Base	Dia in mm	Size-mm	Prod. Code
Stainless Steel / Stainless Steel	7.0	8.0 Type AFL	ANC-1
Stainless Steel / Stainless Steel	7.0	8.0 Type AIL	ANC-2
Stainless Steel Coppered / Copper	7.0	8.0 Type AFL	ANC-3
Stainless Steel Coppered / Copper	7.0	8.0 Type AIL	ANC-4
Stainless Steel / Stainless Steel	M6	8.0 Type AFL	ANC-5
Stainless Steel / Stainless Steel	M6	8.0 Type AIL	ANC-6
Stainless Steel Coppered / Copper	M6	8.0 Type AFL	ANC-7
Stainless Steel Coppered / Copper	M6	8.0 Type AIL	ANC-8

ROOF CONDUCTOR HOLDER WITH NIRO - CLIP

(For attaching wire to wall)

Fits all the sizes, universally adjustable wire attachment.



Specification	Holder	Sizes in mm	Prod.Code
Steel / Galvanised / Varnished	Niro - Clip	8.0 Type AFL	ANC - 011
Steel / Galvanised / Varnished	Niro - Clip	8.0 Type AIL	ANC - 012
Steel / Galvanised / Varnished	Niro - Clip	8.0 Type AFL	ANC - 013
Steel / Galvanised / Varnished	Niro - Clip	8.0 Type AIL	ANC - 014
Stainless steel	Stainless Steel	8.0 Type AFL	AURCH - 01
Copper	Stainless Steel	8.0 Type AIL	AURCH - 02
Stainless Steel	Plastic	8.0 Type AFL	AURCH - 03
Copper	Plastic	8.0 Type AIL	AURCH - 04

Type AFL : Fixed conductor holder / Type AIL : Loose conductor holder.

T RAIL + BASE



RAIL + BASE



RAIL



EQUIPOTENTIAL BONDING BARS

Equipotential Bonding Bar with Plastic & Base suitable for connecting.



Specifications :

With Plastic Cover & Base

1 Tape Terminal 30 x 5mm or Conductors 8-10mm².

7 x one or multi - wired conductors to 6mm² to 25mm²

ROUND DISC HOLDER WITH PVC POINTED EARTHING ROD ASSEMBLY



Size (mm)	Specification	Prod Code
8.0	Round Clamp Assembly	ARCA - 01

WIRE HOLDER



Size (mm)	Specification	Prod Code
10 mm	Wire Clamping attachment with 2 Screw	AWHP - 10

PLASTIC DC TAPE CLIP



Size (mm)	Prod Code
25 x 3 mm	APDT-253

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CIRCULAR CONDUCTOR SYSTEM

ROOF CONDUCTOR SUPPORT

Used for flat roof made up of black, weather resistant plastic a recyclable filling with one conductor holder.



Size (mm)	Specification	Prod Code
8.0	Plastic Enclosed box & Lid	AURCH - 01

AL. SQUARE EARTH PLATE WITH AL. PIPE

Used For Flat roof made up of AL. square plate & AL. pipe



Size (mm)	Specification	Prod Code
100 x 100 x 100	Aluminum Earth Assembly	AAEP - 01

LEAD SQUARE EARTH PLATE WITH LEAD PIPE

Used For Flat roof made up of Lead square plate & Lead pipe



Size (mm)	Specification	Prod Code
100 x 100 x 30	Lead Earth Assembly	ALEP - 01

EARTH CLAMP HOLDER - PLASTIC (NYLON SIX)



Square Type



Round Type

Size (mm)	Specification	Prod Code
8.0	Nylon 6 Clamp	ANSC - 01 (Square)
8.0	Nylon 6 Clamp	ANSC - 01(Round)

EARTH CLIP

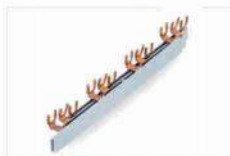
Available in different sizes & types on request



Size (mm)	Prod Code
12-32mm	AEC-14
32-50mm	AEC-14/2
50-75mm	AEC-14/3

COMBINATION BUSBAR

Used for multiple bridging of lightning current & overvoltage arrestors. Used to bridge earthing clamps from 2,3 or 4 overvoltage arrestors. Available in various AMP ratings (32A, 63A, 100A)



No of way	Type	Prod Code
56	Single Pin	ACB-SP56
56	Single Fork	ACB-SP56
28	Double Pin	ACB-SP56
28	Double Fork	ACB-SP56
19	Triple Pin	ACB-SP56
19	Triple Fork	ACB-SP56
14	Four Pin	ACB-SP56
14	Four Fork	ACB-SP56

*Other Sizes Available On Request

(Any dimensional changes are purely the result of our endeavor to constantly improve the efficiency of the product)

EARTH BARS & DISCONNECTING LINKS

EARTH BARS



Description	Length in mm	Width in mm	Height in mm	Prod. Code
6 way	400	90	90	ADL-6
8 way	500	90	90	ADL-8
10 way	650	90	90	ADL-10
12 way	750	90	90	ADL-12

EARTH BARS WITH SINGLE DISCONNECTING LINK



Description	Length in mm	Width in mm	Height in mm	Prod. Code
6 way	475	90	96	ADL-6S
8 way	575	90	96	ADL-8S
10 way	725	90	96	ADL-10S
12 way	825	90	96	ADL-12S

EARTH BARS WITH TWIN DISCONNECTING LINK



Description	Length in mm	Width in mm	Height in mm	Prod. Code
6 way	550	90	96	ADL-6T
8 way	650	90	96	ADL-8T
10 way	800	90	96	ADL-10T
12 way	900	90	96	ADL-12T

ACCESSORIES

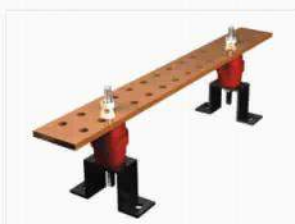
*All above products of 50 x 6 mm copper bar.
 Other sizes available on request.



Description	Length in mm	Width in mm	Height in mm	Prod. Code
Disconnecting Link	125	90	90	ADL-11

EARTH BARS FOR TELECOMMUNICATION

Nylon - 6 wire holder used for earthing pipes.



Bar Size (mm)	Length (mm)	No of Holes (Size M8)	No of Holes (Size M12)	Prod code
50 x 6	350	6	3	ADLT - 1
50 x 6	400	8	3	ADLT - 2
50 x 6	450	10	3	ADLT - 3
50 x 6	500	12	3	ADLT - 4
100 x 6	350	15	3	ADLT - 7
100 x 6	400	19	3	ADLT - 8
100 x 6	450	23	3	ADLT - 9
100 x 6	500	27	3	ADLT - 10

INSULATOR

Colours : Cherry Red , White , Grey , Brown



Size(H)	Thread Size	Prod. Code
40	M 10	AISU - 4010

*Other Sizes Available On Request

(Any dimensional changes are purely the result of our endeavor to constantly improve the efficiency of the product)

Round Head Rivets



Round Head Copper Nails



Hexagon Nuts



Hexagon Head Set Screws



Counter Wood Screws



Plastic Wall Plugs



Plain Washers - Spring Washers



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ACEWELD is a simple self sustained Method of forming high quality electrical connections which require no external power or heat source. Connections are made using high temperature Reactions of copper oxide and aluminum.

Grounding Connection

There are several main objectives providing for well designed grounding system; first, personally safety, followed by equipment protection, signal reference quality, return path for faults & surges & static dissipation.

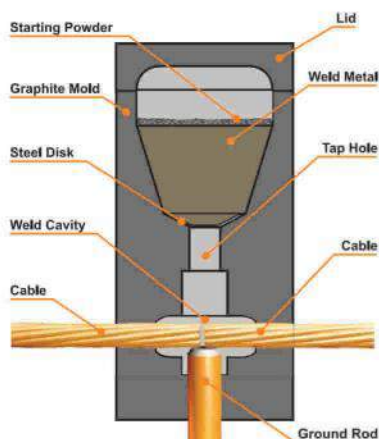
Connections in grounding network are subject to severe corrosion, high mechanical stress due to electromagnetic force & rapid thermal heating due to high current magnitude during fault conditions.



Process

ACEWELD - Exothermic Welding process is a molecular chemical reaction between copper oxide and aluminum. It generates a high superheat with molten metals reaching approximately temperatures of 4,000°F (2,600°C).

The process can be completed itself automatically without external source of power or heat.



The process use finely divided aluminum particles as the reducing agent with copper oxide to produce the following chemical reaction.



• Completed Connection

Exothermic Welding

Safety

Starting & weld metal powder

- Non Toxic & heavy metal
- Non self ignite
- Ignition temperature atleast 400°C
- Smooth reaction

Mould

- Earnest design: cavity, flow path
- High quality raw material

Welding Metal

- Non Toxic and heavy metal
- Steady burn without pop & fire out
- Consistency of color



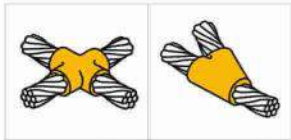
• 95 mm² Copper Cable to 40 mm Rebar

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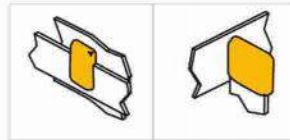
ACEWELD is a simple self sustained Method of forming high quality electrical connections which require no External power or heat source.
Connections are made using high temperature Reactions of copper oxide and aluminum.

Selection Chart

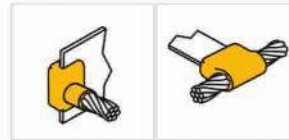
Cable to Cable



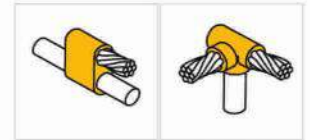
Bus Bar to Steel



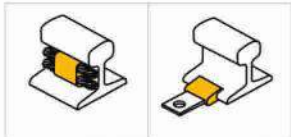
Cable to Bus Bar



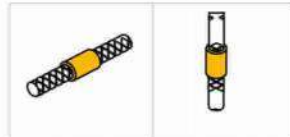
Cable to Ground Rod



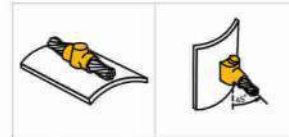
Railway Application



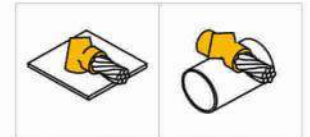
Rebar to Rebar



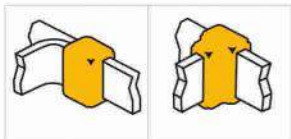
Cathodic Protection



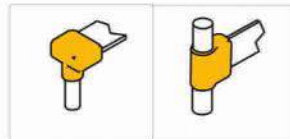
Cable to Steel



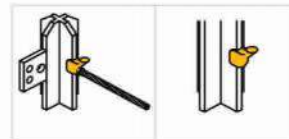
Bus Bar to Bus Bar



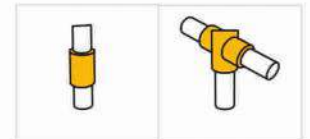
Bus Bar to Ground Rod



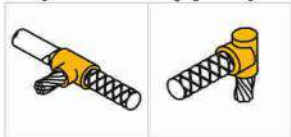
Steel Cable to Steel Rod



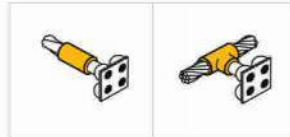
Ground Rod to Ground Rod



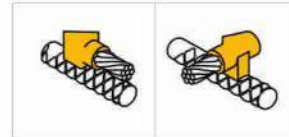
**Cable to Rebar
(Full Wrapped)**



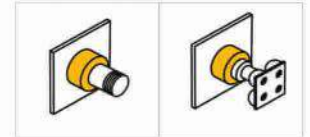
**Ground Plates to
Cable & Steel**



**Cable to Rebar
(Partially Wrapped)**



**Copper or Steel
Stud to Steel**



* Detailed Catalogue Available On Request

ACE Weld Kit Parts :



Mould Handle



Flint Igniter



Mould cleaning Brush



**Weld Cavity
Cleaning Brush**



**File card Brush to Clean
the Objects to be
welded**

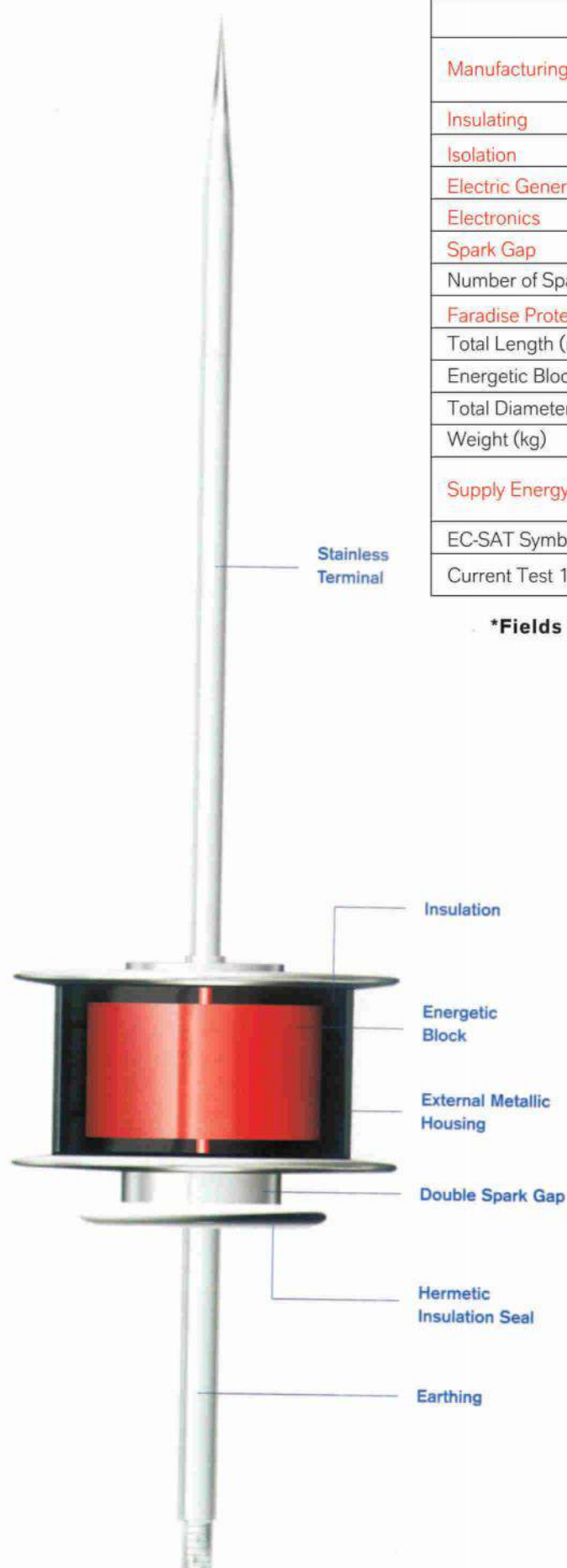


**Slag Removal
Scraper**



Sealing Compound

(Any dimensional changes are purely the result of our endeavor to constantly improve the efficiency of the product)



	EC-SAT 250	EC-SAT 500	EC-SAT 750	EC-SAT 1000
Manufacturing Material	Stainless Steel AISI 316 (18/8/2) Internat. Norm Stainless Steel UNE 36 - 016-75 Spanish Norm			
Insulating	Poiletaflouretilence			
Isolation	With Capsule in resin			
Electric Generator Transformer	Generates high voltage impulses			
Electronics	Energetic block in capsule			
Spark Gap	Double (normal and controlled atmosphere)			
Number of Spark Gaps	2	2	2	2
Faradise Protection	With metallic external housing			
Total Length (mm)	800	800	800	800
Energetic Block Length (mm)	100	110	114	118
Total Diameter (mm)	170	170	170	170
Weight (kg)	4.5	4.5	4.8	5.0
Supply Energy	It doesn't need external supply conventional. Only the atmosphere gradient.			
EC-SAT Symbol	Electro Condenser with triggering device			
Current Test 100 KA	Wave 10/350 us			

*Fields marked in **Red** are same for both EC-SAT and "T" SERIES

	TA	TT	TO	TI	TL
Number of Spark Gaps	2	2	2	2	2
Total Length (mm)	625	625	625	625	625
Energetic Block Length (mm)	75	75	80	80	90
Total Diameter (mm)	148	148	148	148	148
Weight (kg)	4.2	4.2	4.2	4.2	4.2
-Norms	UNE - 21185 / 21186 / 21308 NF - 17102 / TELEFONICA / CEI - 1024				

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OTHER EARTHING/ LIGHTNING PRODUCTS

CROSS EARTH ROD - WITH FLAG / WITHOUT FLAG



METALWORK
BOND



METALWORK
BONDING CLAMP



BACKPLATE
HOLD FAST STEM



"T" EARTH ROD



U BOLT - ROD TO
CABLE CLAMP - 'SCE'



EARTHING BREAKER



RE-BAR CLAMP
U BOLT TYPE



C-CLAMP



U BOLT PIPE (FOR
BIGGER PIPE SIZES)



FLOOR GROUND
RECEPTACLES



RE-BAR CLAMP



GLAZING BAR
HOLDFAST



RAIN WATER
PIPE BOND



EYEBOLT



MECHANICAL CONNECTOR
FOR COPPER CABLE -
STRAIGHT



MECHANICAL CONNECTOR
FOR COPPER CABLE - 90°



U BOLT ROD TO CABLE
CLAMP (3 CONDUCTOR)



AIR TERMINAL BASE -
CABLE



WATER MAIN
BOND



STRAIGHT SETSCREW
TYPE CABLE SOCKET



EARTH TERMINAL
BLOCK



RAIN WATER PIPE
BOND - B TYPE



UNIVERSAL CABLE
CONNECTOR



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The logo for ACE, featuring the letters 'ACE' in a bold, blue, sans-serif font. The letters are outlined in red, and there are red horizontal bars above and below the text.

SUPER IMPEX

AN ISO 9001 – 2008 COMPANY

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