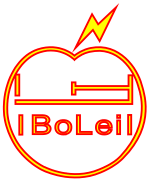




浙江博雷电气股份有限公司
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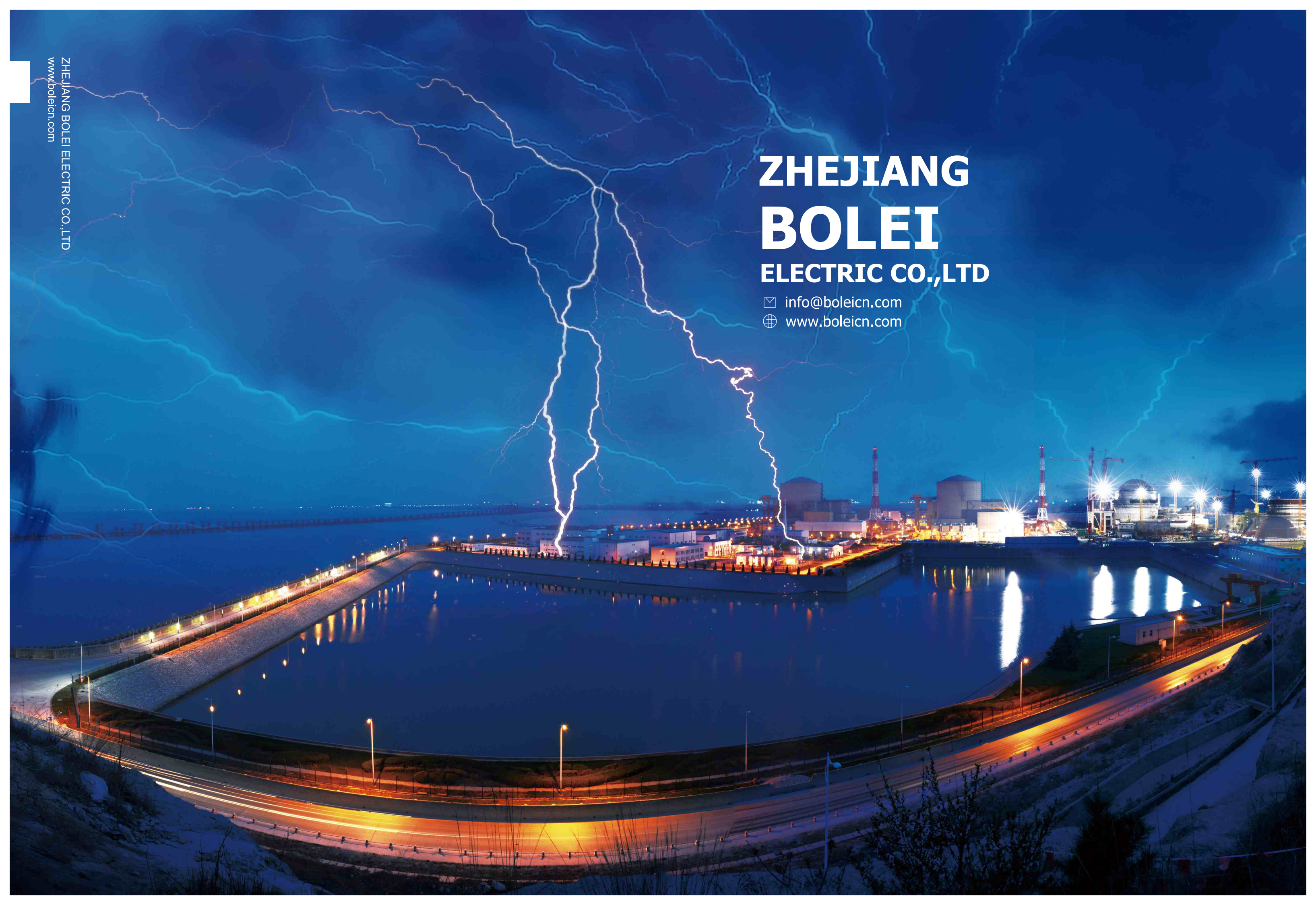


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www.boleicn.com

Zhejiang Bolei Electric Co., Ltd, was located in Yuhuan of Zhejiang where has been reputed as "The hometown of Valve in China". Combine the production, the development, the sales and service as a body, our company is equipped with workshops such as mold, forging, casting, machine-finishing, polishing, and assembling. The main products are grounding and lightning protection clamp, pump housing and high-precision brass fittings.

Our products are widely used in communication, electric power, petrochemical, railway, meteorological, military, computer room, and intelligent building systems and etc, create good social benefits for the customers, and win a good reputation.

The company has a stable and professional team of production management, quality control and research and development.

Company implements a strict scientific management, so as to make product performance and service quality always rank the lead in the market.

With the spirit of "honest, trustworthy, and win-win" business philosophy, adhering to the "integrity, simplicity, effectiveness, innovation," the spirit of enterprise, we will take it as its own duty to build harmonious society.

We sincerely welcome friends at home and abroad to discuss cooperation, jointly committed to the progress and innovation of the industry of lightning protection and grounding.



ZHEJIANG
BOLEI ELECTRIC
CO.,LTD
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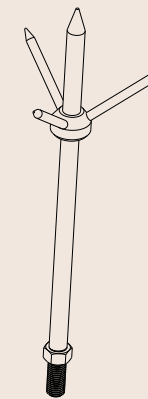
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Metallic Conductor Clamp



Air Terminal Multiple Point

PART NO.	ROD DIAMETER	MATERIAL
ATMP-D15-C	15mm	Copper

*Made from 99.98% solid copper.

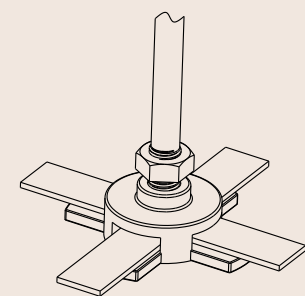


Air Terminal

PART NO.	ROD DIAMETER	THREAD SIZE	ROD LENGTH	MATERIAL
AT316-C	15mm	M16	300	Copper
AT516-C	15mm	M16	500	Copper
AT1016-C	15mm	M16	1000	Copper
AT2016-C	15mm	M16	2000	Copper
AT316-A	15mm	M16	300	Aluminium
AT516-A	15mm	M16	500	Aluminium
AT1016-A	15mm	M16	1000	Aluminium
AT2016-A	15mm	M16	2000	Aluminium

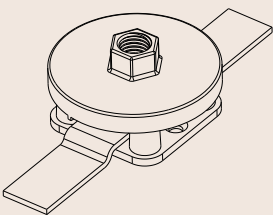
*Made from 99.98% solid copper pr aluminium
*Various diameter and length of rods are available as per customer request.

Metallic Conductor Clamp



Air Terminal Base

PART NO.	ROD DIAMETER	THREAD SIZE	CONDUCTOR SIZE	MATERIAL
ATB16-C	15mm	M16	25*3mm	Copper
ATB16-A	15mm	M16	25*3mm	Aluminium



Air Terminal Base

PART NO.	AIR ROD DIAMETER (MM)	THREAD SIZE	MAXIMUM CONDUCTOR WIDTH(MM)	CONDUCTOR MATERIAL	WEIGHT EACH(KG)
BSD105-H	φ 15	M16	25	Copper	0.43
BSD003-H	φ15	M16	25	Aluminium	0.14

- Manufactured from high quality alloys of either copper or aluminium
- Simple to install providing an effective connection between
air rod and air termination tape

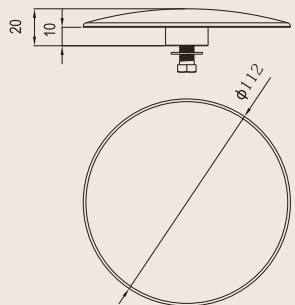
Metallic Conductor Clamp



Strike Pad

PART NO.	ROD DIAMETER	MATERIAL	SCREW
BPL010	M8	Copper	Copper
BPL005	M8	Aluminium	Stainless Steel

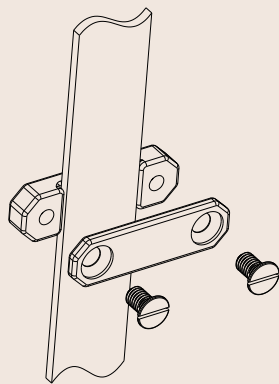
*Use on parapet walls and open roofs where no conductors are visible.
*Custom threading can be supplied upon request.



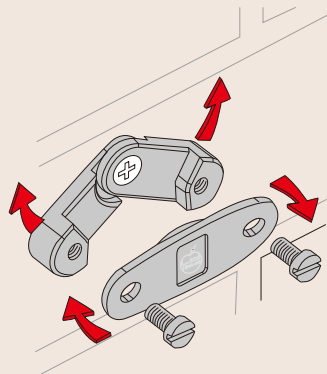
DC Tape Clip

PART NO.	CONDUCTOR SZIE	MATERIAL
BCP210	25*3mm	Copper
BCP220	25*6mm	Copper
BCP227	30*5mm	Copper
BCP410	40*6mm	Copper
BCP420	50*6mm	Copper
BCP207	30*5mm	Aluminium

*Made from 99.98% solid copper pr aluminium
*Various diameter and length of rods are available as per customer request.



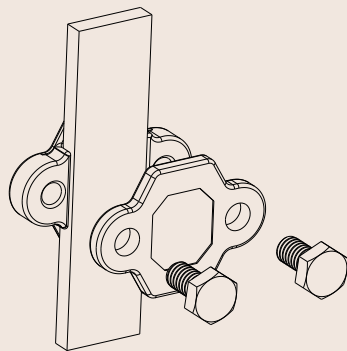
Metallic Conductor Clamp



Adjustable DC Tape Clip

PART NO.	CONDUCTOR SIZE	WEIGHT EACH(KG)
For use with bare copper		
BCP230-H	31x3 and 31x6	0.12
BCP240-H	38x3,38x6 and 40x6	0.14
BCP260-H	50x3 and 50x6	0.16

– DC tape Clips manufactured from high quality copper alloy for excellent corrosion resistance and high pull off loads
-Variable thicknesses of conductor are accommodated by a reversible lid



Test/Junction Clamp

PART NO.	CONDUCTOR SIZE(MM)	CONDUCTOR MATERIAL	WEIGHT EACH(KG)
BCN105-H	26x8	Copper	0.29
BCN005*	26x8	Aluminium	0.12

– Manufactured from high quality alloys of either copper or aluminium. Simple to install, providing an effective low resistance connection between overlapping tapes. The clamped connection is easily made/remade to allow for periodic testing
-Tightening torque CN005 15 Nm; CN105-H13 Nm
-Not as illustrated(drawing available on request)

Metallic Conductor Clamp



One hole cable clip

PART NO.	CONDUCTOR SIZE(MM)	CONDUCTOR MATERIAL	WEIGHT EACH(KG)
For use with solid circular conductor			
BCP905	φ 8	Copper	0.01
BCP925	φ 8	Aluminium	0.01
BCP915	φ 10*	Copper	0.01
BCP935	φ 10*	Aluminum	0.01
For use with stranded conductor			
BCP910	50mm ²	Copper	0.01
BCP915	70mm ²	Copper	0.01
BCP920	95mm ²	Copper	0.01

– Manufactured from pure copper or aluminium, these pressed clips are available to suit bare and PVC covered copper and aluminium solid circular conductor, and bare copper stranded conductor
- *PVC covered Φ 8 mm conductor
- Clip supplied in open position

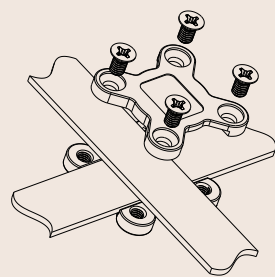


Heavy duty cast cable saddle

PART NO.	CONDUCTOR SIZE(MM)	CONDUCTOR MATERIAL	WEIGHT EACH(KG)
For use with solid circular conductor			
BCP805	φ 8	Copper	0.09
BCP806	φ 8	Aluminium	0.03
BCP815	φ 10*	Copper	0.10
BCP816	φ 10*	Aluminum	0.04
For use with stranded conductor			
BCP810	50mm ²	Copper	0.10
BCP815	70mm ²	Copper	0.10
BCP835	95mm ²	Copper	0.10
BCP855	120mm ²	Copper	0.10

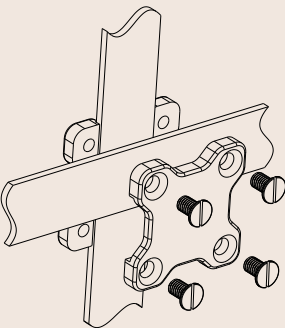
– Manufactured from high quality alloys of either copper or aluminium for excellent corrosion resistance and high pull off loads
- For use with PVC covered Φ 8 mm conductor or for supporting air terminals when used in conjunction with wall mounted air rod bases.
- Can also be used with glazing bar holdfast and back plate holdfast stem

Metallic Conductor Clamp



Square Tape Clamp

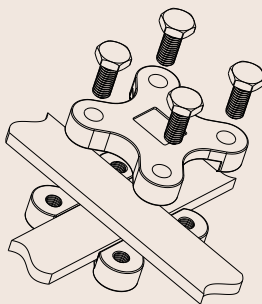
PART NO.	CONDUCTOR SIZE	MATERIAL
BCT105	25*3mm	Copper
BCT005	25*3mm	Aluminium



Square Tape Clamp

PART NO.	CONDUCTOR SIZE	MATERIAL
BCT105M	25*3mm	Copper

Metallic Conductor Clamp



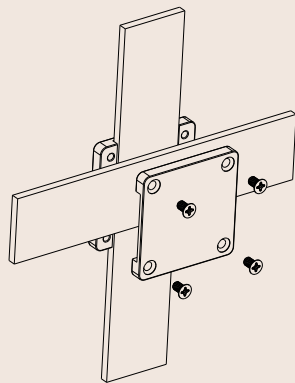
Square Tape Clamp

PART NO.	CONDUCTOR SIZE	MATERIAL
BCT110	25*6mm	Copper
BCT015	50*6mm	Copper

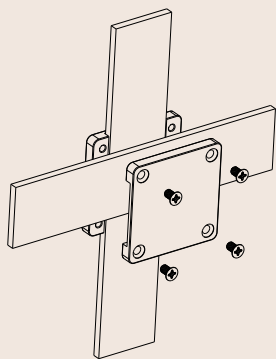


Square Tape Clamp

PART NO.	CONDUCTOR SIZE	MATERIAL
BCT106	25*3mm	Copper
BCT116	50*6mm	Copper

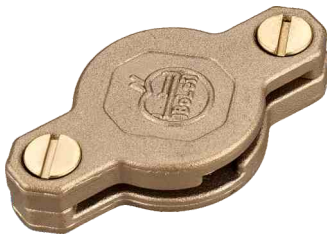
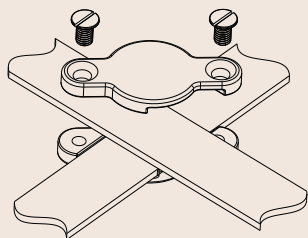


Metallic Conductor Clamp



Square Tape Clamp

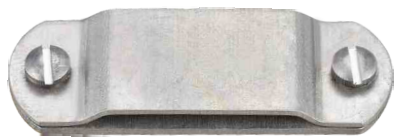
PART NO.	CONDUCTOR SIZE	MATERIAL
BCT106M	25*3mm	Copper
BCT006M	25*3mm	Aluminium



Crossover Tape Clamp

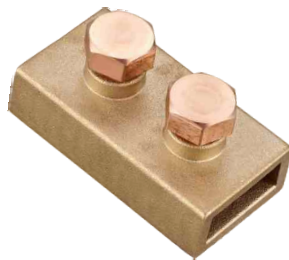
PART NO.	CONDUCTOR SIZE	MATERIAL	WEIGHT(KG)
BCX105-H	25*3mm	Copper	0.09
BCX005-H	25*3mm	Aluminium	0.03

Metallic Conductor Clamp



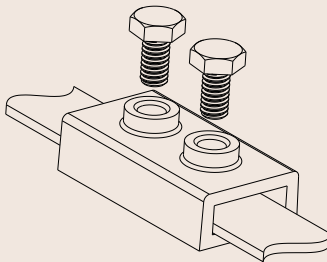
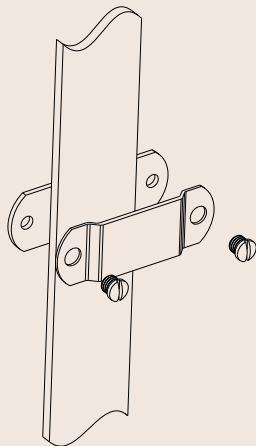
Tape Clip

PART NO.	CONDUCTOR SIZE	MATERIAL	DESCRIPTION
BCP515-C	25*3mm	Copper	W/O Base
BCP615-C	50*6mm	Copper	W/O Base
BCP515-A	25*3mm	Aluminium	W/O Base
BCP615-A	50*6mm	Aluminium	W/O Base
BCP253-C	25*3mm	Copper	C/W Base
BCP253-A	25*3mm	Aluminium	C/W Base

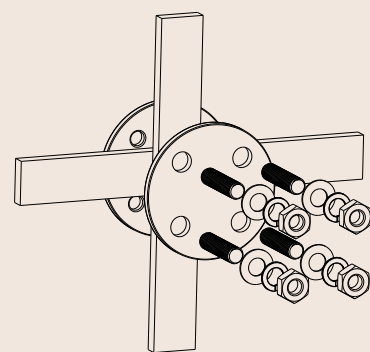


Oblong Test/Junction Clamp

PART NO.	CONDUCTOR SIZE	MATERIAL
OTC268C	26*8mm	Copper

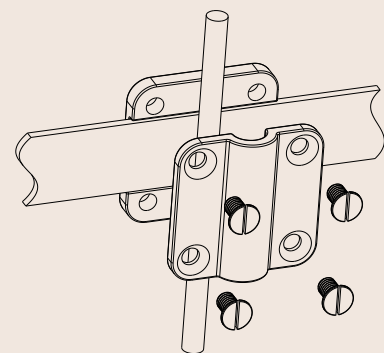


Metallic Conductor Clamp



Round Plate Type Test Clamp

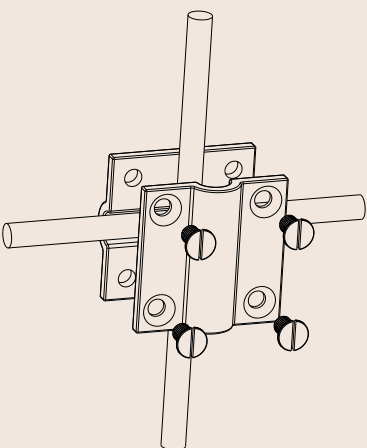
PART NO.	CONDUCTOR SIZE	MATERIAL
PTTC268	26*8mm	Copper



Cable to tape square clamp

PART NO.	CONDUCTOR SIZE	MATERIAL
SCCT125	25*3mm to 50mm2	Copper
SCCT130	25*3mm to 70mm2	Copper
SCCT135	25*3mm to 95mm2	Copper

Metallic Conductor Clamp



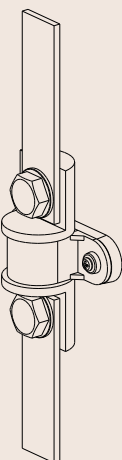
Cable to cable square clamp

PART NO.	CONDUCTOR SIZE	MATERIAL
SCC50	50mm2	Copper
SCC70	70mm2	Copper
SCC95	95mm2	Copper



Bimetallic Connector

PART NO.	CONDUCTOR SIZE	MATERIAL
BBC910	25*3 aluminum tape to 25*3 copper tape	Copper





Earth Rod & Accessory

Copperbond Earth Rod

PART NO.	NOMINAL DIAMETER(″)	LENGTH (MM)	THREAD ‘B’ UNC(″)	SHANK ‘A’ (MM)	WEIGHT EACH(KG)
BRB105	ϕ 1/2	1200	9/16	12.7	1.18
BRB110	ϕ 1/2	1500	9/16	12.7	1.55
BRB115	ϕ 1/2	1800	9/16	12.7	1.76
BRB125	ϕ 1/2	2400	9/16	12.7	2.36
BRB205	ϕ 5/8	1200	5/8	14.2	1.53
BRB210	ϕ 5/8	1500	5/8	14.2	1.88
BRB215	ϕ 5/8	1800	5/8	14.2	2.29
BRB220	ϕ 5/8	2100	5/8	14.2	2.51
BRB225	ϕ 5/8	2400	5/8	14.2	3.00
BRB235	ϕ 5/8	3000	5/8	14.2	3.79
BRB305	ϕ 3/4	1200	3/4	17.2	2.19
BRB310	ϕ 3/4	1500	3/4	17.2	2.73
BRB315	ϕ 3/4	1800	3/4	17.2	3.27
BRB320	ϕ 3/4	2100	3/4	17.2	3.83
BRB325	ϕ 3/4	2400	3/4	17.2	4.35
BRB335	ϕ 3/4	3000	3/4	17.2	5.44

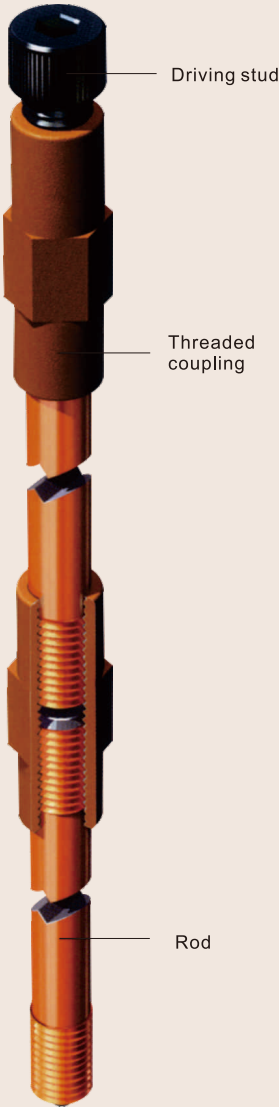
– High tensile low carbon steel core with minimum 250 microns of copper

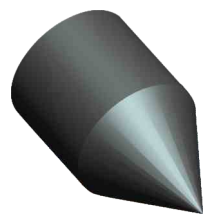


Driving stud

PART NO.	THREAD DIAMETER	MATERIAL
EDS58	5/8	Steel
EDS34	3/4	Steel

*The driving studs are made of re-usable high tensile strength steel which can be use multiple times. It is also suitable for power hammering.





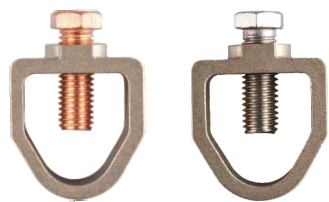
Driving Spike

PART NO.	THREAD DIAMETER	MATERIAL
ERDS58	5/8	Steel
ERDS34	3/4	Steel



Earth rod threaded coupling

PART NO.	THREAD DIAMETER	MATERIAL
BCG170	1/2	Copper
BCG270	5/8	Copper
BCG370	3/4	Copper



Rod to tape clamp (type A)

PART NO.	NOMINAL DIAMETER (")	NOMINAL DIAMETER (MM)	MAX.CONDUCTOR (MM)	WEIGHT EACH (KG)
BCR105	ϕ 1/2	ϕ 12.7	26x12	0.15
BCR105	ϕ 5/8	ϕ 16	26x12	0.15
BCR105	ϕ 3/4	ϕ 20	26x10	0.15
BCR108	ϕ 5/8	ϕ 16	30x2	0.16
BCR108	ϕ 3/4	ϕ 20	30x2	0.16
BCR110	ϕ 5/8	ϕ 16	40x12	0.24
BCR115	ϕ 5/8	ϕ 16	51x8	0.30
BCR125	ϕ 3/4	ϕ 20	51x12	0.30
BCR130	ϕ 1/2	ϕ 12.7	26x20	0.23
BCR130	ϕ 5/8	ϕ 16	26x18	0.23
BCR130	ϕ 3/4	ϕ 20	26x10	0.23
BCR130	ϕ 1	ϕ 25	26x10	0.23
BCR107	ϕ 3/4	ϕ 20	26x10	0.15

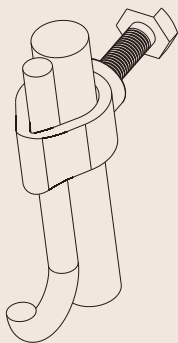
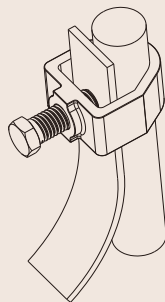
– Designed for connection of flat tape conductor to an earth rod. Corrosion resistance, conductivity and mechanical strength are essential considerations in clamp design to ensure an earthing system remains operative for many years. All Bolei earth rod Clamps have high strength copper alloy bodies and screws e.g. aluminium bronze, phosphor bronze etc. commercial brass is not used

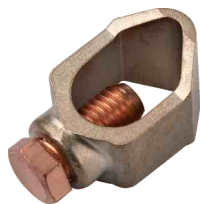
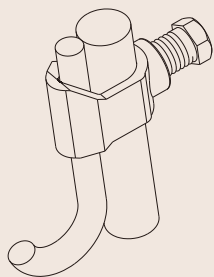
– Tightening torque 15 Nm



Grounding Clamp

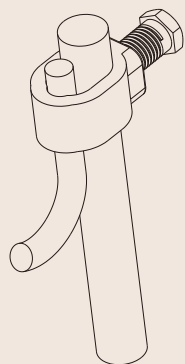
PART NO.	NOMINAL ROD DIAMETER (")	NOMINAL ROD DIAMETER (MM)	MAX.CONDUCTOR (MM)
BJWR-B1-10	5/8"	16mm	16-50mm





Grounding Clamp

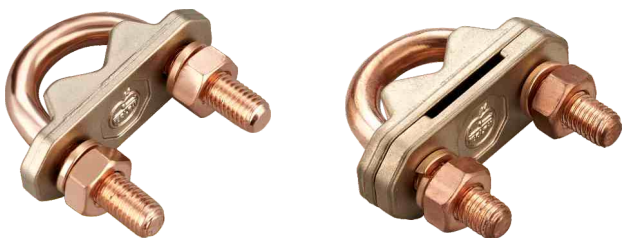
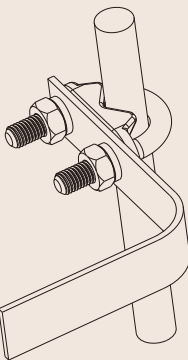
PART NO.	NOMINAL ROD DIAMETER		MAX.CONDUCTOR (MM)
	(")	(MM)	
BCR515-H	5/8"	16mm	16-70mm ²
BCR520-H	3/4"	20mm	35-95mm ²
BJAB58H	5/8"	16mm	16-50mm ²



Rod to cable clamp (type G)

PART NO.	NOMINAL DIAMETER		MAX.CONDUCTOR (MM)
	(")	(MM)	
BBG3	3/8"	9.5mm	6-35mm ²
BBG4	1/2"	12.7mm	16-50mm ²
BBG5	5/8"	16mm	6-35mm ²
BBG6	3/4"	20mm	6-28mm ²

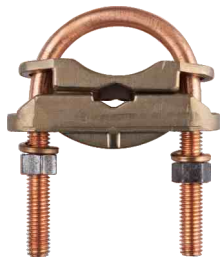
- High strength copper alloy clamp designed to provide a high quality; low resistance connection between solid circular or stranded conductor and an earth rod
- Tightening torque12 Nm
- Suitable for use with 08 mm solid circular copper conductor



‘U’ bolt rod clamp(type E)

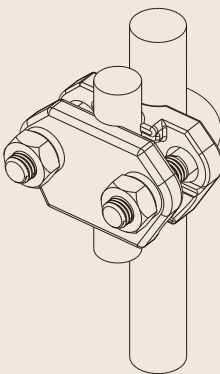
PART NO.	NOMINAL ROD/REBAR DIAMETER(")		HOLE CENTRES (MM)	TAPE WIDTH (MM)	WEIGHT EACH (KG)
	(MM)	(MM)			
BCR305	ϕ 5/8	ϕ 16	37	—	0.20
BCR320 *	ϕ 5/8	ϕ 16	37	25	0.26

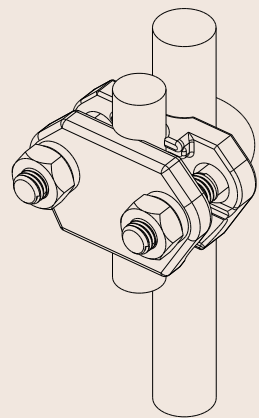
- High strength copper alloy ‘U’ bolt clamp designed to provide a high quality, low resistance connection between flat tape or stranded conductor and earth rod or rebar.
- ‘U’ Bolt threaded M10
- CR320 includes additional plate to allow tape to be clamped without drilling



U-Bolt Rod To Cable Clamp

PART NO.	NOMINAL ROD DIAMETER		MAX.CONDUCTOR (MM)
	(")	(MM)	
GUV15825	1-7/8"	48mm	16mm

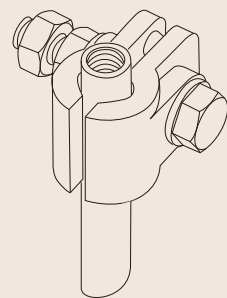




‘U’ bolt rod clamp (type GUV)

PART NO.	NOMINAL ROD /REBAR DIAMETER (")	(MM)	CONDUCTOR RANGE (MM)	WEIGHT EACH (KG)
BCR700*	φ 5/8	φ 16	16-95	0.39
BCR700*	φ 3/4	φ 20	16-70	0.39
BCR705	φ 5/8	φ 16	70-185	0.39
BCR705	φ 3/4	φ 20	70-150	0.39
BCR730	φ 5/8	φ 16	150-300	0.62
BCR730	φ 3/4	φ 20	150-300	0.62

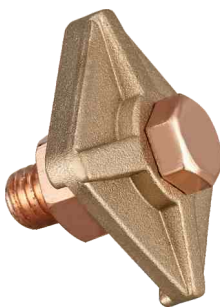
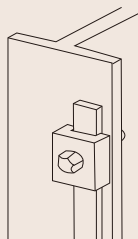
- High strength copper alloy ‘U’ bolt clamp designed to provide a high quality, low resistance connection between solid circular or stranded conductor and an earth rod or rebar
- Tightening torque 12 Nm
- Suitable for use with Ø8 mm solid circular copper conductor



Rod to cable clamp (type B)

PART NO.	NOMINAL DIAMETER (")	(MM)	ROD TYPE	BOLT SIZE	WEIGHT EACH(KG)
BCR205	φ 3/8	φ 9.5	Copperbond	M8	0.09
BCR215	φ 5/8	φ 16	Copperbond	M10	0.30
BCR220	φ 5/8	φ 15	Solid copper	M10	0.30
BCR225	φ 3/4	φ 20	Copperbond	M10	0.30
BCR230	φ 3/4	φ 20	Solid copper	M10	0.30

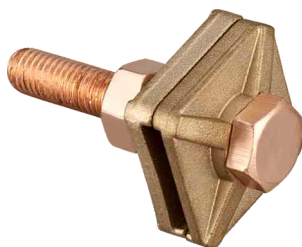
- High strength copper alloy cable lug clamp designed to provide a high quality, low resistance connection between stranded conductor and earth rod



B bond

PART NO.	MAXIMUM TAPE WIDTH(MM)	BOLT SIZE	CONDUCTOR MATERIAL	WEIGHT EACH (KG)
BBN105	26	M10	Copper	0.12
BBN005	26	M10	Aluminium	0.06
BBN113	31	M10	Copper	0.15
BBN114	40	M10	Copper	0.18
BBN117	50	M10	Copper	0.20

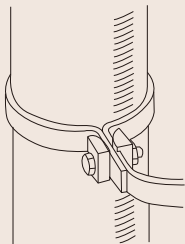
- For bonding tape to steel structures
- Tightening torque 17Nm

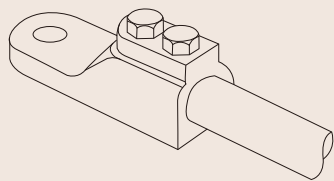


BWP bond

PART NO.	MAXIMUM TAPE WIDTH(MM)	BOLT SIZE	CONDUCTOR MATERIAL	WEIGHT EACH (KG)
BBN115	26	M10	Copper	0.12
BBN010	26	M10	Aluminium	0.07

- For bonding tape to rainwater pipes, handrails etc.

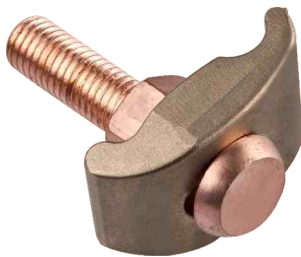
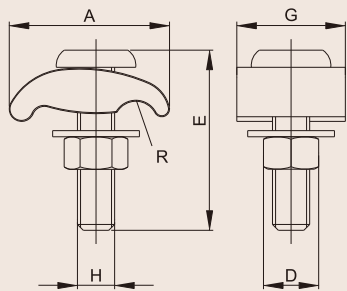




Straight setscrew cable socket

PART NO.	CONDUCTOR SIZE(MM)	PALM HOLE DIAMETER(MM)	CONDUCTOR MATERIAL	WEIGHT EACH (KG)
BSX450	ϕ 8	12	Copper	0.11
BSX455	ϕ 8	12	Aluminium	0.05

- For bonding copper and aluminium conductors to steelwork
- Tightening torque 3 Nm



Tower Ground Clamps

CAT.NO.	CONDUCTOR RANGE		MAX (MM²)	MIN (MM²)	CHANNEL THICKNESS	DIMENSION.(IN.)							
	MAX.	MIN.				A	B	D	E	G	H	R	
BGTC13	2/0 str	#4 sol	67.4	21.1	1/4	1 15/32	-	9/16	1 21/32	1 13/32	3/8	7/32	
BGTC14	250 kcmil	2/0 str	126.6	67.4	1/4	1 15/16	-	3/4	1 15/16	1 13/32	1/2	5/16	



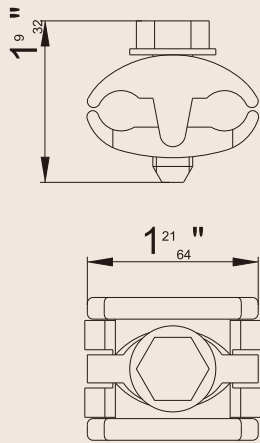
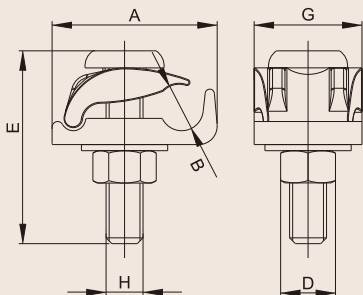
Tower Ground Clamps

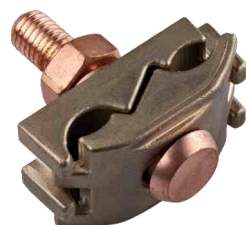
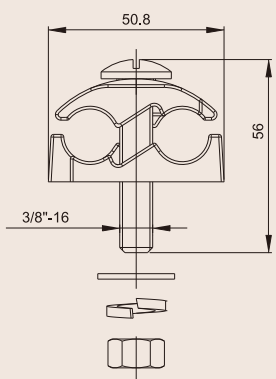
CAT.NO.	CONDUCTOR RANGE		MAX (MM²)	MIN (MM²)	CHANNEL THICKNESS	DIMENSION.(IN.)							
	MAX.	MIN.				A	B	D	E	G	H	R	
BGTC23	2/0 str	#4 sol	67.4	21.1	1/4	1 15/32	7/16	9/16	1 21/32	1 3/32	3/8	-	
BGTC24	250 kcmil	2/0 str	126.6	21.1	1/4	1 15/32	5/8	3/4	1 15/16	1 3/8	1/2	-	



Jumper Clamp

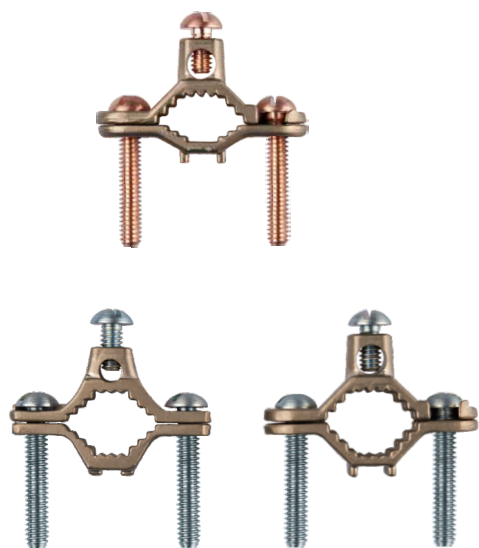
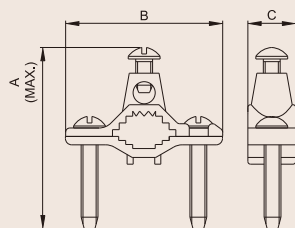
CAT.NO.	PLATED GROOVE		COPPER GROOVE	
	MAX.	MIN.	MAX.	MIN.
Bk1	1/0 ASCR	#6ACSR	2/0str	#8solid
	#2 SCG	#12 SCG	copper	copper
	amerductor	amerductor	7/16	#9-12D
	7/16 galv.strand	#8 solid iron	2A	





Tower Ground Clamps

PART NO.	WIDE RANGE (2 SIDES)	HEIGHT	WIDTH	DEPTH	NUT(FLATS)
BCTG250	#2 Sol.(258.Dia) 250kcmil(.575Dia).	1.95	2.00	1.13	0.560



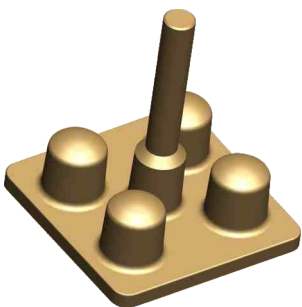
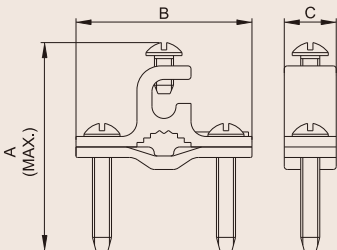
Bronze Ground Clamps

PART NO.	WATER PIPE SIZE	CONDUCTOR		DIMENSIONS.(IN.)		
		MAX.	MIN.	A(MAX.)	B	C
BJD-BI-15				2 3/4	2 11/32	23/32
BJ	1/2"-1"	#2 str.	#10 sol.	2 15/32	2 11/32	23/32
BJJR	1/2"-1"	#4 Str.	#10 sol.	2 15/32	25/32	17/32
BJ-B1-25	1/2"-1"	#2 str.	#10 sol.	2 3/4	2 11/32	23/32



Ground Clamps

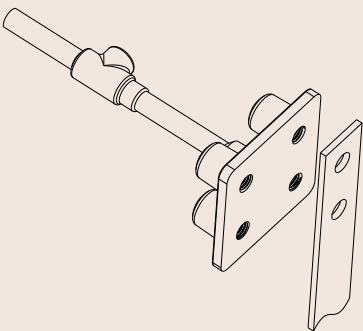
PART NO.	PIPE SIZE	PEBAR SIZE	GROUND ROD SIZE
BJDLI	1/2"-1"	3/8"-1	1/4-1"



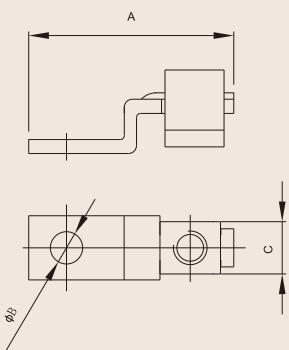
Four Hole Earth Point

PART NO.	HOLE SIZE	LENGTH	DESCRIPTION
BP001	M8*14mm	75mm	Earth Point Only

* Stem dia.=10.7mm(70mm2)
*Tightening torque 12Nm

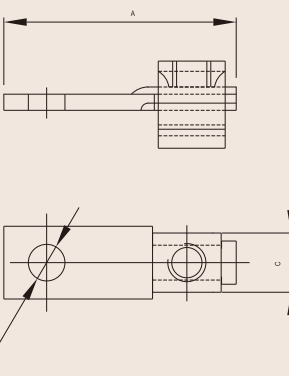


Copper Compression Connector



BSTC Connector

PART NO.	DIMENSION(MM)			WIRE RANGE
	A	B	C	
BSTC0208	37.31	6.75	11.83	8 str.- 2 str.
BSTC0414	31.75	6.75	9.52	14 AWG - 4 Str.
BSTC0614	28.97	5.16	8.35	14 AWG - 6 Str.
BSTC1014	24.2	4.37	6.47	14 AWG - 10 AWG
BSTC1102	49.21	6.75	15.49	2 Str. - 1/0 Str.
BSTC3104	55.56	10.31	17.85	4 Str. - 3/0 Str.
BSTC3511	80.96	10.31	25.4	1/0 Str. - 350 kcmil
BSTC4102	60.33	10.31	19.38	2 Str. - 4/0 Str.
BSTC5011	98.43	10.31	28.97	1/0 Str. - 500 Kcmil
BSTC9960	130.5	13.48	42.86	600 Kcmil - 1000 Kcmil



BBTC Connector

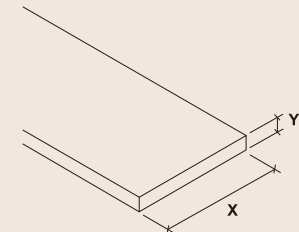
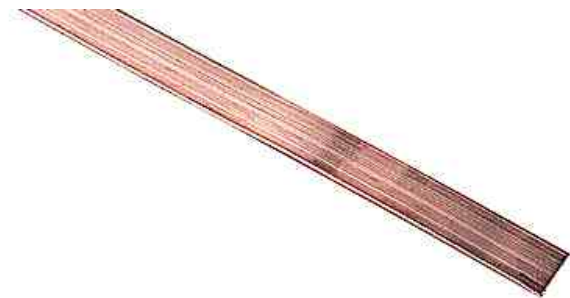
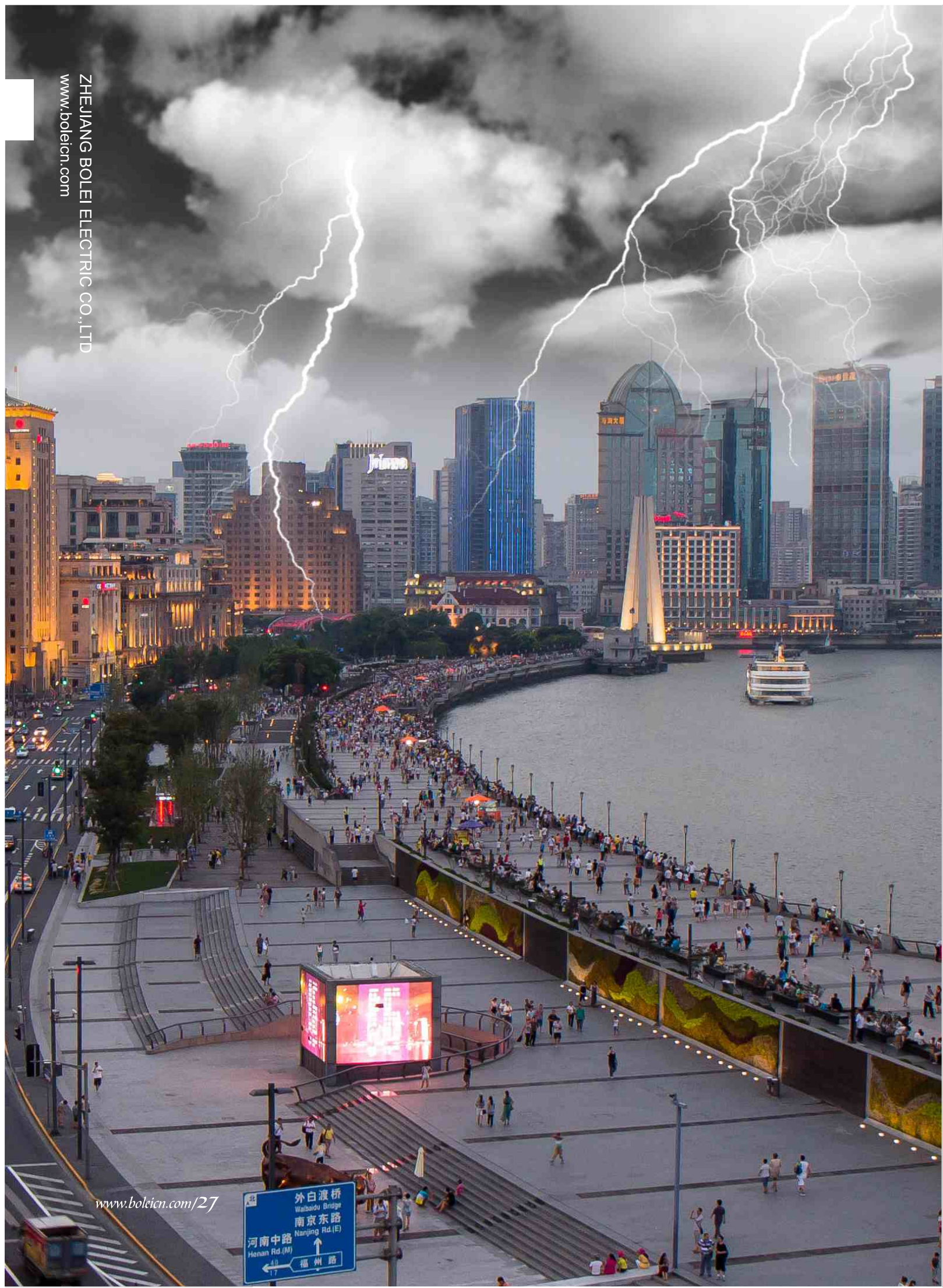
PART NO.	DIMENSION(MM)			WIRE RANGE
	A	B	C	
BBTC0208	38.9	6.76	11.83	8 str.- 2 str.
BBTC0614	30.18	5.16	8.35	14 AWG - 6 Str.
BBTC1014	25.4	3.95	6.47	14 AWG - 10 AWG
BBTC1102	50	6.73	15.49	2 Str. - 1/0 Str.
BBTC3104	55.58	10.3	17.89	4 Str. - 3/0 Str.
BBTC3511	81	10.3	25.4	1/0 Str. - 350 kcmil
BBTC4102	66.7	10.3	19.38	2 Str. - 4/0 Str.
BBTC5011	107.95	10.3	28.97	1/0 Str. - 500 Kcmil
BBTC9960	117.48	13.49	42.86	600 Kcmil - 1000 Kcmil

Copper Compression Connector



C shape Connector

PART NO.	CONDUCTOR RANGE(MM2)	H1(MM)	H2(MM)	W(MM)	L(MM)	T(MM)	C(MM)
CCT-10	7.5-14	9.5	6.3	6.2	12	1.6	4
CCT-16	14.5-16	11.8	7.8	8.4	13	2	5
CCT-20	16.5-20	13.5	8.6	9.7	13.4	2.5	6
CCT-26	21-26	15	10.2	10.2	16	2.5	6.5
CCT-44	27-44	19.5	13.5	14	19	4.2	9.6
CCT-60	45-60	22.3	15.8	15.1	22	4.8	10
CCT-76	61-76	25	17	18.2	21.5	5.5	12
CCT-98	77-98	27.5	20.8	18.5	22.7	5	14.2
CCT-122	99-122	30.2	23	20.3	26	5.5	14.2
CCT-154	123-154	34.3	24.5	24.3	28.2	6.5	17.2
CCT-190	155-190	37.2	28	25.4	34.8	6.5	17.5
CCT-240	191-240	39.7	30	28	39.5	7	19.2
CCT-288	241-288	44.5	34.7	34.1	45	7	22.3
CCT-365	289-365	44.5	34.7	34	50	7	24.8
CCT-450	366-450	57	42.5	41	60	10	28
CCT-560	451-560	62	46	44	65	11	31
CCT-700	561-700	68	54	49.5	70	12	44



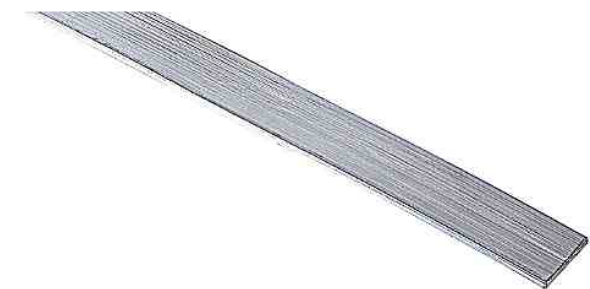
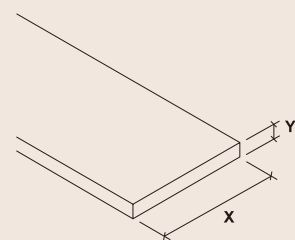
Bare copper tape

PART NO.	CONDUCTOR SIZE (XXY)(MM)	STANDARD COIL SIZE (M)	WEIGHT PER MATRE (KG)
BTC005	12.5x1.5	100	0.17
BTC010	12.5x3	100	0.33
BTC015	20x1.5	100	0.27
BTC020	20x3	50	0.53
BTC020/100	20x3	100	0.53
BTC025	25x1.5	100	0.33
BTC026	25x2	50	0.49
BTC030	25x3	25	0.67
BTC030/50	25x3	50	0.67
BTC035	25x4	50	0.89
BTC040	25x6	40	1.33
BTC039	30x2	50	0.53
BTC042	30x3	50	0.80
BTC044	30x4	40	1.07
BTC043	30x5	40	1.33
BTC045	31x3	50	0.83
BTC048	31.5x4	40	1.13
BTC050	31x6	30	1.65
BTC055	38x3	50	1.01
BTC060-FU	38x5	30	1.69
BTC065	38x6	25	2.02
BTC067	40x3	40	1.06
BTC066	40x4	30	1.42
BTC071	40x5	25	1.78
BTC068	40x6	25	2.16
BTC069	40x6.3	25	2.24
BTC070	50x3	40	1.33
BTC075	50x4	30	1.78
BTC078	50x5	20	2.22
BTC080	50x6	20	2.68
BTC082	50x6.3	20	2.80
BTC090	50x7	320	3.08
BTC092	50x8	20	3.56
BTC094	50x10	10	4.44
BTC096	60x10	10	5.32
BTC098	80x6	10	4.32
BTC099	100x6	10	5.36

-All bare copper tape sold in full coil lengths only
-High conductivity annealed copper tape

Bare Conductors

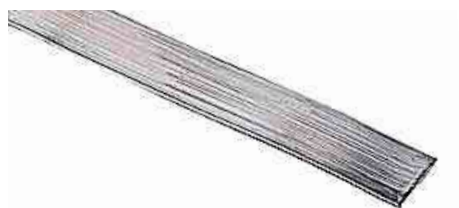
Bare Conductors



Bare aluminium tape

PART NO.	CONDUCTOR SIZE (XXY)(MM)	STANDARD COIL SIZE(M)	WEIGHT PER MATRE (KG)
BTA005	12.5x1.5	50	0.05
BTA020	20x3	50	0.17
BTA030	25x3	50	0.21
BTA042	30x3	50	0.25
BTA040	25x6	50	0.42
BTA068	40x6	50	0.67
BTA080	50x6	50	0.85

-All bare aluminum tape sold in full coil lengths only

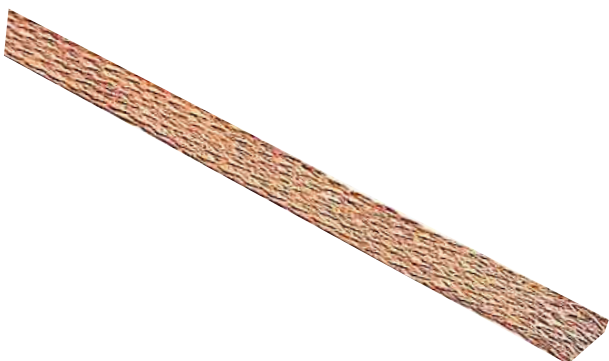


Tinned copper tape

PART NO.	CONDUCTOR SIZE (XXY)(MM)	STANDARD COIL SIZE(M)	WEIGHT PER METRE(KG)
BTC220	20x3	50	0.53
BTC225–FU	12.5x1.5	100	0.17
BTC226	25x2	50	0.49
BTC230	25x3	50	0.67
BTC239	30x2	50	0.53
BTC240	25x6	40	1.33
BTC245	31x3	50	0.83
BTC260	38x5	30	1.69
BTC266	40x4	30	1.42
BTC267	40x3	40	1.06
BTC280	50x6	20	2.68

–All tinned copper tape sold in full coil lengths only
–High conductivity annealed tinned copper tape

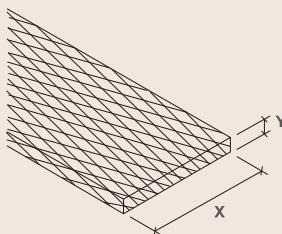
Flexible Braid Conductors



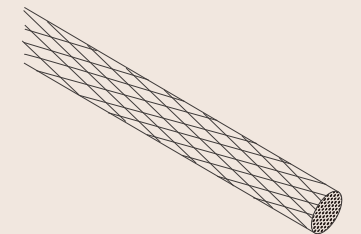
Flexible flat copper braid

PART NO.	OVERALL NOMINAL SIZE (XXY)(MM)	CROSS-SECTIONAL AREA(MM²)	WEIGHT PER METRE(KG)
Bare flat braid			
BBD020	12x1	6	0.06
BBD025	15x1.5	10	0.10
BBD026	19x2.5	16	0.16
BBD028	25x3	25	0.25
BBD030	25x3.5	35	0.34
BBD031	30x5	50	0.49
BBD027	32x6	70	0.63
BBD032	37x6	95	0.93
BBD033	45x6	120	1.15
BBD034	50x8	150	1.45
Tinned flat braid			
BBD020-T	12x1	6	0.06
BBD025-T	15x1.5	10	0.10
BBD026-T	19x2.5	16	0.16
BBD028-T	25x3	25	0.25
BBD035	25x3.5	35	0.34
BBD031-T	30x5	50	0.49
BBD027-T	32x6	70	0.63
BBD032-T	37x6	95	0.93
BBD033-T	45x6	120	1.15
BBD034-T	50x8	150	1.45

-Suitable for earth bonding. Also supplied as standard pre-cut and drilled bonds
-Other sizes and types of braid can be made to order. Please contact us for details



Flexible Braid Conductors



Flexible circular copper braid

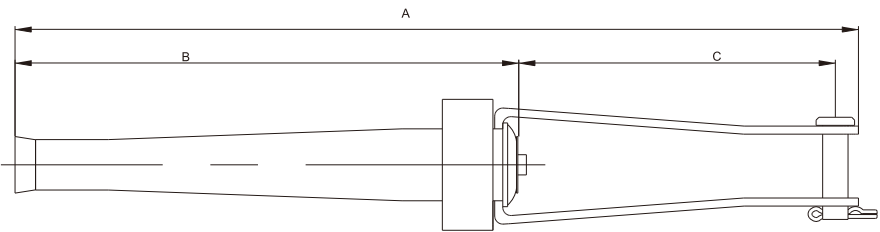
PART NO.	OVERALL NOMINAL DIAMETER(MM)	CROSS-SECTIONAL AREA(MM²)	WEIGHT PER METRE(KG)
Bare circular braid			
BBD006-FU	φ 4.2	6	0.06
BBD010-FU	φ 5.4	10	0.10
BBD016-FU	φ 7	16	0.16
BBD025-FU	φ 8.5	25	0.25
BBD035-FU	φ 10.5	35	0.34
BBD050-FU	φ 11.5	50	0.49
BBD070-FU	φ 14.5	70	0.63
BBD095-FU	φ 16	95	0.93
Tinned circular braid			
BBD006-FU-T	φ 4.2	6	0.06
BBD010-FU-T	φ 5.4	10	0.10
BBD016-FU-T	φ 7	16	0.16
BBD025-FU-T	φ 8.5	25	0.25
BBD035-FU-T	φ 10.5	35	0.34
BBD050-FU-T	φ 11.5	50	0.49
BBD070-FU-T	φ 14.5	70	0.63
BBD095-FU-T	φ 16	95	0.93

-Suitable for earth bonding. Also supplied as standard pre-cut and drilled bonds
-Other sizes and types of braid can be made to order. Please contact us for details

Automatic Deadends & Automatic Splices

BATD-CB Clevis Bracket

CAT.NO.	CONDUCTOR RANGE			DECIMAL RANGE	COLOR CODE	APPROXIMATE DIMENSION(IN)		
	ACSR	AAAC	AAC			A	B	C
BATD1020CB	1/0,2/0		1/0,2/0	235	1/0-Yellow,2/0-Gray	387.35	228.6	136.53
BATD3040CB	3/0,4/0		3/0,4/0	241.3	3/0-Black,4/0-Pink	527.05	298.45	165.1
BATD266336CB	266,366		266,366	292.1	Green	487.36	298.45	165.1
BATD397477CB	397,477		397,477	355.6	Blue	487.36	298.45	165.1



Features	Benefits/Descriptions
Versatile Use	Deadend ACSR, AAC and AAAC conductors
Incredibly Strong	Breaking strength exceeds 95% of conductor's rated strength, up to a maximum of 10,000 pounds.
Galvanized Steel Clevis Pin and Stainless Steel Cotter Pin	Both parts are included and enable the bail to be used with standard deadend suspension insulators.

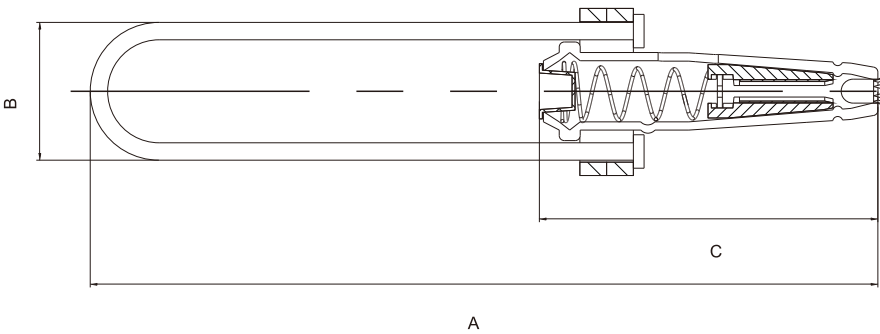


Automatic Deadends & Automatic Splices



BATDG Strand Automatic Deadends

CAT.NO.	STRAND NOMINAL DIAMETER IN.(MM)	STRAND		DIMENSIONS IN.(MM)		
		SIZE	RBS LBS.(KN)	A	B	C
BATDG14	1/4	1/4	29.58	233.7	43.2	101.6
BATDG516	5/16	5/16	49.82	241.3	45.7	114.3
BATDG38	3/8	3/8	68.5	292.1	58.4	127
BATDG716	7/16	7/16	92.52	355.6	71.1	172.7



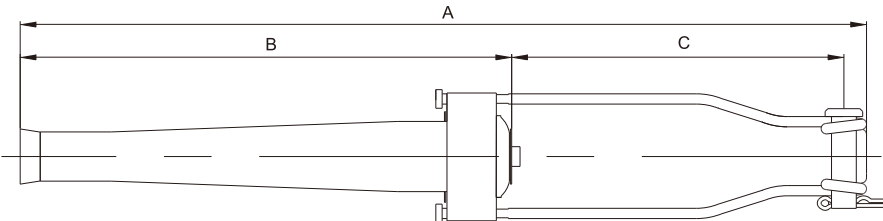
Features	Benefits/Descriptions
Tapered Cartridge Is Made of Aluminum and Steel Jaws Have Hardened Zinc Plating	Built tough. The connectors can handle tensile loads in excess of 90% of the rated strength of the recommended strand. What's more, they exceed 90% of the strand rated breaking strength.
Pilot Cap and Jaw	Both eliminate incorrect insertions.
Slotted Access Window	Enables jaw adjustment for repositioning, removal or retensioning of strand(deadends).
Aluminum Cartridge and Internal Components Are Lubricated	Cartridge,jaws, spring and washer are coated for long-term, continuous performance. Plus, they are corrosion-resistant.

Automatic Deadends & Automatic Splices



BATD-ZB Automatic Deadends

CAT.NO.	CONDUCTOR RANGE			DECIMAL RANGE	COLOR CODE	DIMENSIONS MM		
	ACSR	AAAC	AAC			A	B	C
BATD1020ZB	1/0,2/0	1/0,2/0	235	1/0-Yellow,2/0-Gray	368.3	228.6	125.41	
BATD3040ZB	3/0,4/0	3/0,4/0	241.3	3/0-Black,4/0-Pink	527.05	298.45	215.9	
BATD266336ZB	266,336	266,336	292.1	Green	527.05	298.45	215.9	
BATD397477ZB	397,477	397,477	355.6	Blue	527.05	298.45	215.9	

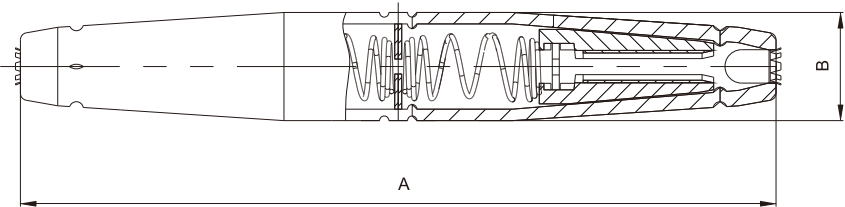


Features	Benefits/Descriptions
Color-Coded, Funnel-Shaped End Piece	Color Provided instant visual identification of maximum conductor size. Funnel swiftly guides conductor into position for insertion
Pilot Cap	Envelops cable strand and guides the conductor into the center of the splice.
Die-Cast Precision-Made Jaws	Provides optimum contact area for a greater range of conductor sizes.
Compression Spring	Positions the jaw for positive conductor acceptance.
Special Microcrystalline-Based Inhibitor	Coats the jaws and tube's inner diameter, seals the connection and provides a high-pressure lubricant for long-term, continuous performance.
Factory-Installed Dust Covers	Repel dirt and debris
Versatile Use	Deadend ACSR, AAC and AAAC conductors
Incredibly Strong	Breaking strength exceeds 95% of conductor's rated strength, up to a maximum of 10,000 pounds.
Galvanized Steel Clevis Pin and Stainless Steel Cotter Pin	Both parts are included and enable the bail to be used with standard deadend suspension insulators.
Color-Coded Tape	Enables identification of the minimum conductor size of wide-range connectors-it further eliminates errors and speeds up installations.



BATSG Automic Splices

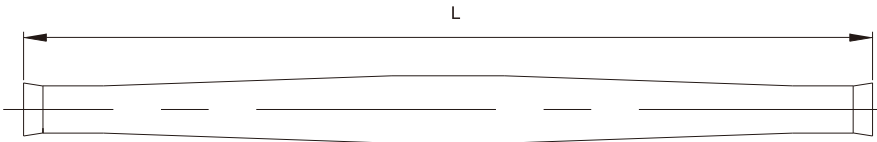
CAT.NO.	STRAND NOMINAL DIAMETER IN.(MM)	STRAND		DIMENSIONS MM	
		SIZE	RBS LBS.(KN)	A	B
BATSG14	1/4	1/4	6.65(29.58)	235	43.2
BATSG516	5/16	5/16	11.20(49.82)	241.3	45.7
BATSG38	3/8	3/8	15.40(68.5)	292.1	58.4
BATSG716	7/16	7/16	20.80(92.52)	355.6	71.1



Features	Benefits/Descriptions
Tapered Cartridge Is Made of Aluminum and Steel Jaws Have Hardened Zinc Plating	Built tough. The connectors can handle tensile loads in excess of 90% of the rated strength of the recommended strand. What's more, they exceed 90% of the strand rated breaking strength.
Pilot Cap and Jaw	Both eliminate incorrect insertions.
Aluminum Cartridge and Internal Components Are Lubricated	Cartridge,jaws, spring and washer are coated for long-term, continuous performance. Plus, they are corrosion-resistant.

BATS Automatic Splices

CAT.NO.	CONDUCTOR RANGE			DECIMAL RANGE	COLOR CODE	OVERALL LENGTH(IN.)
	ACSR	AAAC	AAC			
BATS4		#4	#4	5.89-6.6	4-Orange	349.25
BATS42		#4,#2	#4,#2	5.89-8.43	4-Orange,2-Red	349.25
BATS2		#2	#2	7.42-8.43	2-Red	349.25
BATS10		1/0	1/0	9.35-10.41	1/0-Yellow	412.75
BATS1020		1/0,2/0	1/0,2/0	9.35-11.7	1/0-Yellow,2/0-Gray	412.75
BATS20		2/0	2/0	10.5-11.7	2/0-Gray	412.75
BATS30		3/0	3/0	11.7-13.26	3/0-Black	412.75
BATS3040		3/0-4/0	3/0-4/0	11.7-14.6	3/0-Black,4/0-Pink	596.9
BATS40		4/0	4/0	12.07-14.6	4/0-Pink	596.9
BATS266336		312.8*	266-336	14.88-17.37	Green	596.9
BATS397477		394.5*	397-477	18.29-21.79	Blue	596.9



Features	Benefits/Descriptions
Color-Coded, Funnel-Shaped End Piece	Color Provided instant visual identification of maximum conductor size. Funnel swiftly guides conductor into position for insertion
Pilot Cap	Envelops cable strand and guides the conductor into the center of the splice.
Die-Cast Precision-Made Jaws	Provides optimum contact area for a greater range of conductor sizes.
Compression Spring	Positions the jaw for positive conductor acceptance.
Tubular Center Stop	Automatically determines proper insertion length of both conductors
High-Strength Aluminum-Alloy Tubing	Covers the connection for superior corrosion protection and long-lasting durability.
Color-Coded Tape	Enables identification of the minimum conductor size of wide-range connectors-if further eliminates errors and speeds up installations!





BoleiWELD exothermic welding is a cost efficient method of making large or small numbers of high quality electrical connections.

The BoleiWELD process

BoleiWELD is a simple, self-contained system that uses the high temperature reaction of powdered copper oxide and aluminium, within a mould, to form permanent electrical connections.

Typical applications include:

- Earthing for power plants and substations
- Telecommunications
- Transmission and power distribution lines
- Cathodic protection
- Rail connections

The BoleiWELD system:

- Requires no external power or heat source
- Creates high quality electrical connections
- Completely portable
- Can be used safely with minimum training
- Cost effective
- Can be used for over 45 connection configurations

The BoleiWELD connection

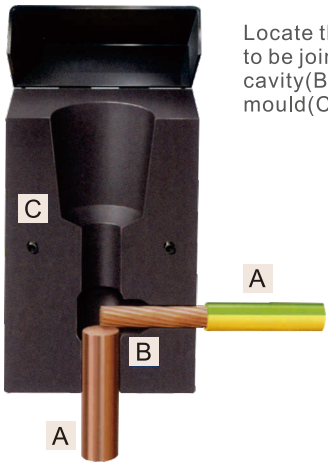
BoleiWELD connections have several advantages

- Tolerant to repeated fault currents
- Highly conductive
- Does not loosen
- Excellent corrosion resistance

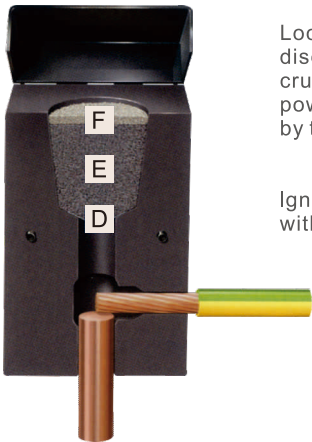
Most BoleiWELD connections have at least twice the cross-sectional area of the conductors being joined, and an equivalent or greater current carrying capacity. Corrosion resistance is exceptional because of the very high copper content (> 90%) of the alloy.



BoleiWELD Introduction

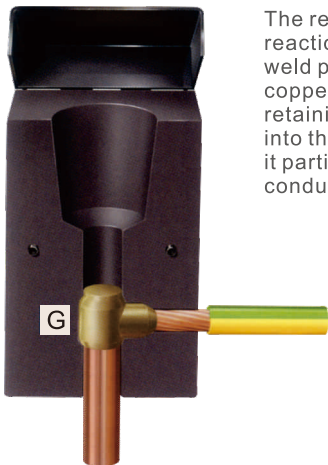


Locate the conductors(A) to be joined in the weld cavity(B) and close the mould(C).

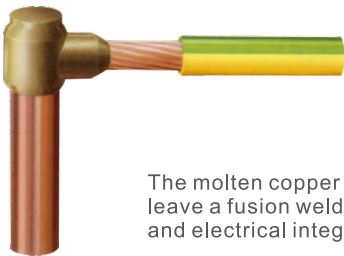


Locate the steel retaining disc in the base of the crucible(D). Pour in the weld powder(E) followed by the starting powder(F).

Ignite starting powder with a spark gun.



The resulting exothermic reaction reduces the weld powder to molten copper alloy which melts the retaining disc and flows into the weld cavity where it partially melts the conductors(G).

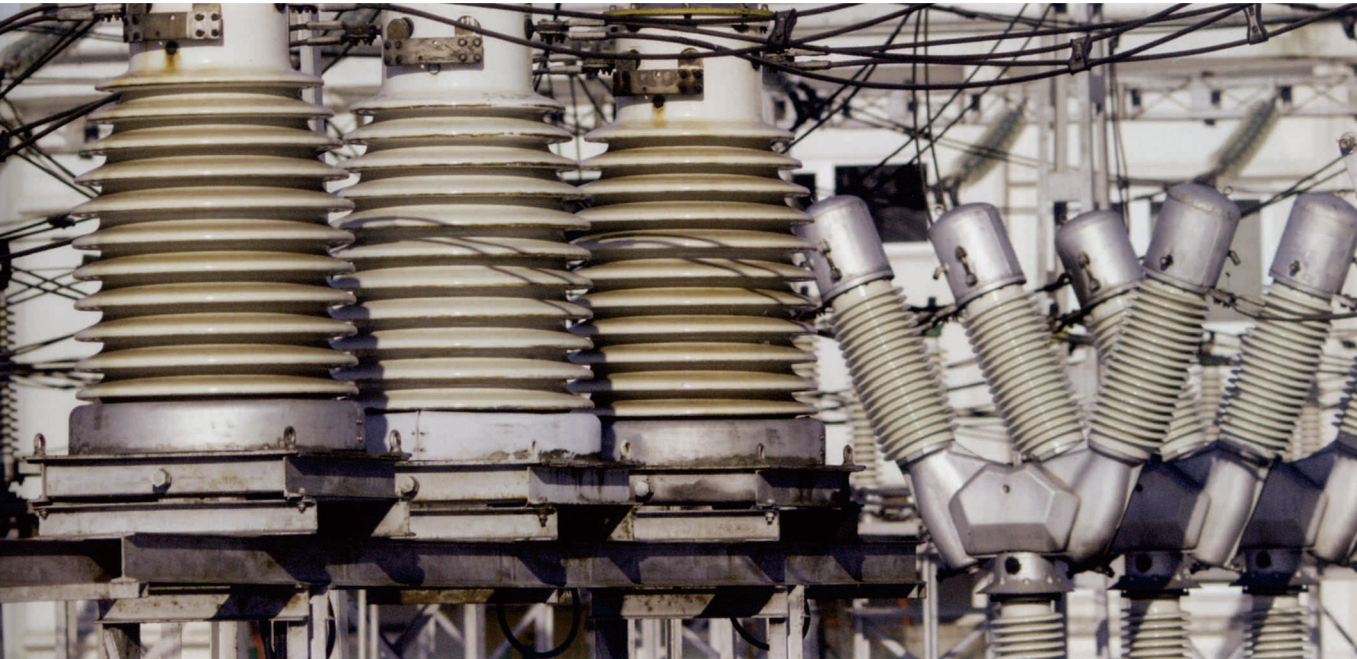


The molten copper alloy cools to leave a fusion weld of great mechanical and electrical integrity.

Moulds
The BoleiWELD system of exothermic welding uses moulds to contain the exothermic reaction that creates safe and robust connections. Different types of moulds are available, whose use depends on the requirements of the project.

Full-sized graphite moulds
Market leading BoleiWELD graphite moulds are extremely robust and capable of producing up to 75 connections each, if not more when properly maintained.

Mini-Moulds
BoleiWELD mini-moulds are a cost effective alternative to full-sized moulds, especially where lower numbers of connections are required. They are smaller overall, less robust and therefore lower priced. Care is required in order to achieve similar service lives to full-sized moulds.

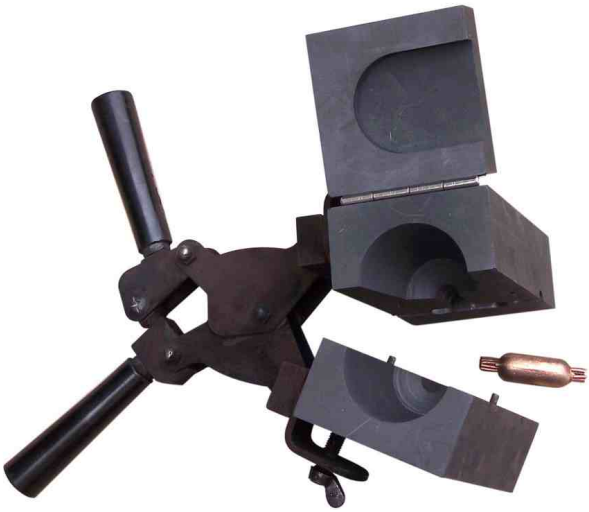


BoleiWELD products
- A powder cartridge is required for each joint to be made
- Handle clamps enable the mould to be handled when hot, and the two halves of the mould to be opened and clamped together
- Packing is required when welding to reinforcing bar

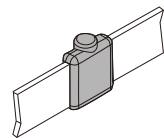
Conductors
The range of BoleiWELD moulds is designed to work with all common conductor formats.
- Flat tape conductor
- Stranded conductor
- Solid circular conductor

Conductors must be in the orientation shown to achieve the correct connection. Bolei offers technical support to assist with selection of joint type. Please contact us where unsure, e.g. where you may be using compacted stranded conductor.

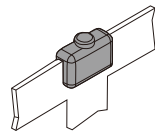
If connections shown do not meet your requirements, please contact your local sales office.



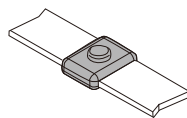
BoleiWELD
Connection Selection Guide



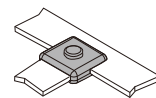
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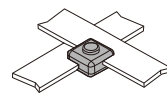
Type BB3



Type BB7



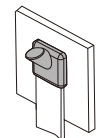
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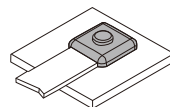
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Bar to bar

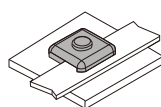
Connection Type



Type BS1



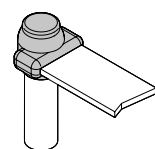
Type BS2



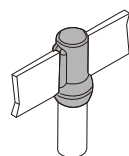
Type BS3

Bar to steel surface

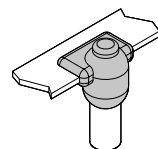
Connection Type



Type BR1



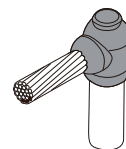
Type BR2



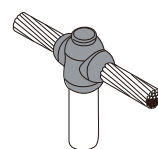
Type BR7

Bar to earth rod

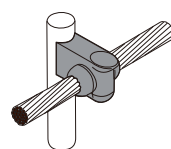
Connection Type



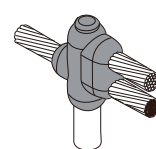
Type CR1



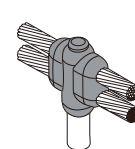
Type CR2



Type CR3



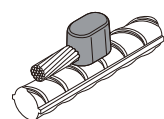
Type CR17



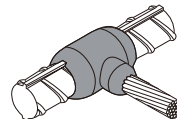
Type CR24

Cable to earth rod

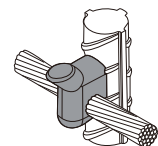
Connection Type



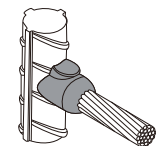
Type CRE1



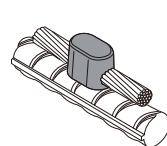
Type CRE2



Type CRE3



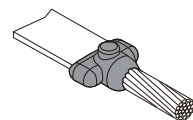
Type CRE6



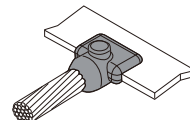
Type CRE17

Cable to reinforcing bar

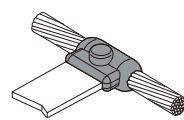
Connection Type



Type CB1



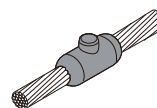
Type CB4



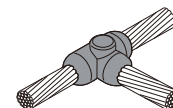
Type CB5

Cable to cable

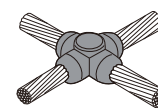
Connection Type



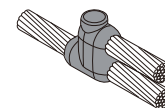
Type CC1



Type CC2



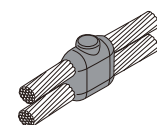
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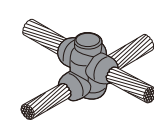
Type CC6

Cable to cable

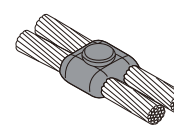
Connection Type



Type CC7



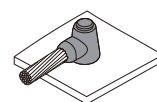
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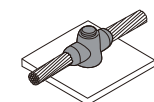
Type CC14

Cable to cable

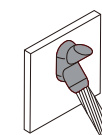
Connection Type



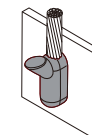
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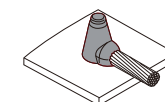
Type CS2



Type CS3



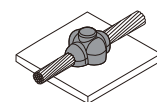
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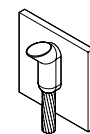
Type CS8

Cable to steel surface & pip

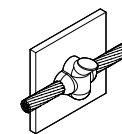
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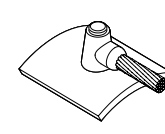
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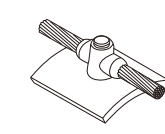
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Type CS27



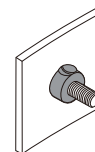
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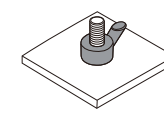
Type CS34

Cable to steel surface & pip

Connection Type



Type RS1



Type RS2

Stud to steel surface

Connection Type



Handle clamps

Connection Type