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EARTHING

COPPERBOND EARTH RODS



NOMINAL DIAMETER (in. : mm)	LENGTH (mm)	THREAD SIZE UNC (in)	SHANK DIA. (mm)	WEIGHT (Kg)	PART No.
3/8" : 9	1200	N/A	9.50	0.61	ERCB1004
5/8" : 16	1200	5/8"	14.2	1.50	ERCB1604
5/8" : 16	1500	5/8"	14.2	1.88	ERCB1605
5/8" : 16	1800	5/8"	14.2	2.27	ERCB1606
5/8" : 16	2400	5/8"	14.2	2.99	ERCB1608
5/8" : 16	3000	5/8"	14.2	3.75	ERCB1610
3/4" : 20	1200	3/4"	17.2	2.19	ERCB2004
3/4" : 20	1500	3/4"	17.2	2.79	ERCB2005
3/4" : 20	1800	3/4"	17.2	3.34	ERCB2006
3/4" : 20	2400	3/4"	17.2	4.46	ERCB2008
3/4" : 20	3000	3/4"	17.2	5.44	ERCB2010

Copperbond earth rods, deep driven, usually provide the most cost effective earth system.

They are made from a low carbon, high tensile strength (600n/mm² minimum) steel core with a coating of molecular bonded 99.9% pure electrolytic copper.

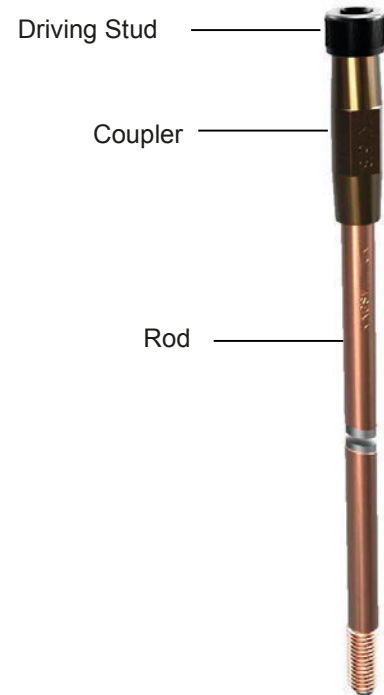
Extendable type rods have a rolled thread (UNC2A) at each end.

Rolled threads have a higher strength than cut threads and also preserve the copper coating at the thread roots.

Copper Thickness : 250 microns : Minimum.

Material: Pure copper molecularly bonded on to a steel core.

BS EN 62561-2, BS 7430



EARTHING

COUPLINGS : COPPERBOND EARTH RODS



LENGTH (mm)	BODY DIA. (mm)	DESCRIPTION	WEIGHT (Kg)	PART No.
68	22	16mm ROD COUPLING 5/8" UNC	0.08	COUP16
79	24	20mm ROD COUPLING 3/4" UNC	0.14	COUP20

Kingsmill earth rods are manufactured from high strength, high copper content alloy to ensure adequate strength and corrosion resistance.

Kingsmill couplers are of sufficient length and are counter bored to make certain the threads of the earth rods are completely enclosed.

Material: High copper content alloy.

BS 7430, BS EN 62561-2 : 2012

DRIVING STUDS : COPPERBOND EARTH RODS



LENGTH (mm)	HEAD DIA. (mm)	DESCRIPTION	WEIGHT (Kg)	PART No.
54	22	16mm DRIVING STUD 5/8" UNC	0.09	DRST16
62	25	20mm DRIVING STUD 3/4" UNC	0.15	DRST20

Driving studs are required to be of high strength to withstand repeated use with power hammers.

Kingsmill driving studs are made from high tensile steel with a socket-head cap screw.

Material: High Tensile Steel.

BS 7430

DRIVING SPIKES : COPPERBOND EARTH RODS



LENGTH (mm)	HEAD DIA. (mm)	DESCRIPTION	WEIGHT (Kg)	PART No.
54	22	DRIVING SPIKE FOR 16mm (5/8") COPPERBOND EARTH ROD	0.05	DRSP16-CB
62	25	DRIVING SPIKE FOR 16mm (5/8") COPPERBOND EARTH ROD	0.06	DRSP20-CB

Where ground conditions may be of greater density Kingsmill manufacture and stock driving spikes to suit our Copperbond Earth Rods so that the ground can be penetrated and the Earth rod can be driven into the ground with ease.

These driving spikes are internally threaded so that they can be screwed directly onto the Earth Rod.

Material: Case Hardened Steel.

BS 7430

EARTHING

SOLID COPPER EARTH RODS



LENGTH (mm)	INTERNAL THREAD (mm)	DIA. (mm)	WEIGHT (Kg)	PART No.
1200	M10	15	1.85	ERSC1504
1200	M10	16	2.10	ERSC1604
1500	M10	16	2.49	ERSC1605
1800	M10	16	2.99	ERSC1606
2400	M10	16	3.99	ERSC1608
3000	M10	16	4.99	ERSC1610
1200	M10	20	3.30	ERSC2004
1500	M10	20	4.14	ERSC2005
1800	M10	20	5.02	ERSC2006
2400	M10	20	6.70	ERSC2008
3000	M10	20	8.38	ERSC2010
1200	M10	25	5.18	ERSC2504
1500	M10	25	6.48	ERSC2505
1800	M10	25	7.78	ERSC2506
2400	M10	25	10.37	ERSC2508
3000	M10	25	12.97	ERSC2510

This product is used where soil conditions are more aggressive i.e. where there is high salt content.

These rods have a tapped hole at each end which allows them to be joined together by means of a coupling dowel.

Material: Copper.

BS EN 62561-2 , BS 7430.

INSPECTION PITS

CONCRETE INSPECTION PIT : LIGHTWEIGHT



DESCRIPTION	WEIGHT (Kg)	PART No.
LIGHTWEIGHT CONCRETE INSPECTION PIT	16	CPIT/LW

Kingsmill Concrete Pits are suitable for load rating to 4,500Kg and is suitable for most types of Earthing and lightning protection installations.

The inspection pit protects the earth rod connection and makes it available for inspection. The pit can have an earth bar fitted diagonally in slots provided for multiple connections.

Pit dimensions: (mm) 275 x 275 x 130 (W x D x H)

Material: Concrete.



EARTH BAR : CONCRETE INSPECTION PIT LIGHTWEIGHT



PBAR5/LW



PBAR7/LW

DESCRIPTION	OVERALL SIZE (mm) L x W x T	HOLE SIZE (mm)	WEIGHT (Kg)	PART No.
5 HOLE PIT BAR	230 x 25 x 6	11	0.29	PBAR5/LW
7 HOLE PIT BAR	230 x 25 x 6	11	0.28	PBAR7/LW

Kingsmill inspection pit earth bars are used to facilitate testing of the earth electrode or earthing system.

The earth bar can be fitted diagonally in slots provided for multiple connections.

Material: Copper to BS EN 13601.

INSPECTION PITS

PLASTIC INSPECTION PIT



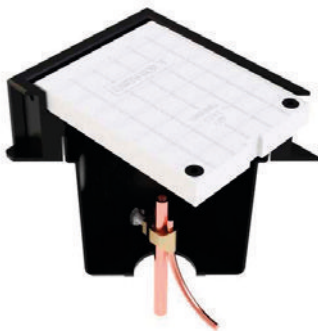
DESCRIPTION	WEIGHT (Kg)	PART No.
PLASTIC INSPECTION PIT	1.28	PPIT-G

Kingsmill Plastic Pits are suitable for load rating to 5,000Kg and is suitable for most types of Earthing and lightning protection installations.

The inspection pit protects the earth rod connection and makes it available for inspection. The pit can have an earth bar fitted diagonally in slots provided for multiple connections.

Pit dimensions: (mm) 220 x 250 x 220 (W x D x H)

Material: Polypropylene.



EARTH BAR : PLASTIC INSPECTION PIT



PBAR5/PP



PBAR7/PP

DESCRIPTION	OVERALL SIZE (mm) L x W x T	HOLE SIZE (mm)	WEIGHT (Kg)	PART No.
5 HOLE PIT BAR	200 x 25 x 6	11	0.24	PBAR5/PP
7 HOLE PIT BAR	200 x 25 x 6	11	0.23	PBAR7/PP

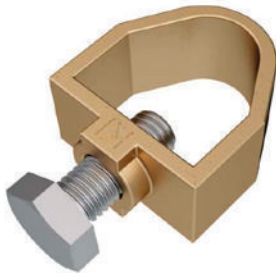
Kingsmill inspection pit earth bars are used to facilitate testing of the earth electrode or earthing system.

The earth bar can be fitted diagonally in slots provided for multiple connections.

Material: Copper to BS EN 13601.

EARTH ROD CLAMPS

ROD TO TAPE CLAMP : A TYPE



ROD DIA. (in : mm)	MAX CONDUCTOR SIZE (mm)	WEIGHT (Kg)	PART No.
5/8 : 16 3/4 : 20	29 x 16 29 x 13	0.10	CLA2530
5/8 : 16 3/4 : 20	28 x 22 28 x 20	0.23	CLA2510
5/8 : 16 3/4 : 20	47 x 18 47 x 14	0.21	CLA4012
5/8 : 16 3/4 : 20	54 x 16 54 x 13	0.21	CLA5060

Kingsmill rod to tape type 'A' clamps are designed to join various sizes of conductor tape to the earth electrode.

The clamps have a high resistance to corrosion and are mechanically strong to ensure a lasting connection.

Material: High strength copper alloy.

Tightening Torque: 15Nm.

BS EN 62561-1 Class H, BS 7430

ROD TO TAPE CLAMP : U BOLT SINGLE PLATE TYPE



ROD DIA. (in : mm)	HOLE CENTRES (mm)	WEIGHT (Kg)	PART No.
5/8 : 16	37	0.21	CLUB16
3/4 : 20	37	0.21	CLUB20
1 : 25	37	0.22	CLUB25
1 1/4 : 30	43	0.22	CLUB30
2 : 50	64	0.36	CLUB50

Kingsmill rod to tape type 'U' Bolt single plate clamps are designed to join various sizes of conductor tape to the earth electrode.

The clamps have a high resistance to corrosion and are mechanically strong to ensure a lasting connection.

Material: Body - High strength copper alloy.

'U' bolt material - Copper.

Tightening Torque: 12Nm.

BS EN 62561-1 Class H, BS 7430

EARTH ROD CLAMPS

ROD TO TAPE CLAMP : U BOLT DOUBLE PLATE TYPE



ROD DIA. (in : mm)	TAPE WIDTH (mm)	WEIGHT (Kg)	PART No.
5/8 : 16	25	0.26	CLUB16-2
3/4 : 20	25	0.27	CLUB20-2
1 : 25	25	0.28	CLUB25-2

Kingsmill rod to tape type 'U' Bolt double plate clamps are designed to join 25 x 3 conductor tape to the earth electrode / rebar, without the need to drill the tape.

The clamps have a high resistance to corrosion and are mechanically strong to ensure a lasting connection.

Material: Body - High strength copper alloy.

'U' bolt material - Copper.

Tightening Torque: 12Nm.

BS 7430

ROD TO CABLE CLAMP : JAB TYPE



ROD DIA. (in : mm)	MAX CONDUCTOR SIZE (mm ²)	WEIGHT (Kg)	PART No.
5/8 : 16	16-70	0.07	CLJA16
3/4 : 20	35-95	0.09	CLJA20

Kingsmill rod to cable type JAB clamps are designed to join various sizes of cable to the earth electrode.

The clamps have a high resistance to corrosion and are mechanically strong to ensure a lasting connection.

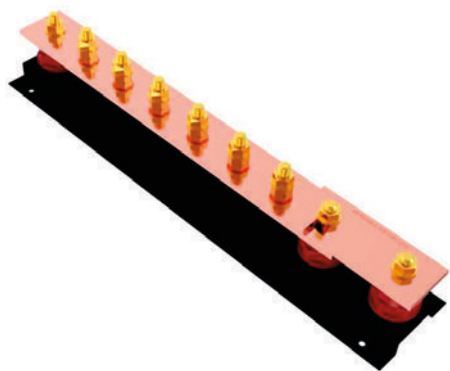
Material: High strength copper alloy.

Tightening Torque: 12Nm.

BS EN 62561-1 Class H, BS 7430

EARTH BARS

SINGLE DISCONNECTING LINK



DESCRIPTION	DIMENSIONS (mm) L x W x H	PART No.
6 WAY EARTH BAR C/W SINGLE DISC. LINK	475 x 100 x 90	EBAR6-1
8 WAY EARTH BAR C/W SINGLE DISC. LINK	575 x 100 x 90	EBAR8-1
10 WAY EARTH BAR C/W SINGLE DISC. LINK	725 x 100 x 90	EBAR10-1
12 WAY EARTH BAR C/W SINGLE DISC. LINK	825 x 100 x 90	EBAR12-1
14 WAY EARTH BAR C/W SINGLE DISC. LINK	925 x 100 x 90	EBAR14-1
16 WAY EARTH BAR C/W SINGLE DISC. LINK	1025 x 100 x 90	EBAR16-1
18 WAY EARTH BAR C/W SINGLE DISC. LINK	1125 x 100 x 90	EBAR18-1
20 WAY EARTH BAR C/W SINGLE DISC. LINK	1275 x 100 x 90	EBAR20-1
22 WAY EARTH BAR C/W SINGLE DISC. LINK	1375 x 100 x 90	EBAR22-1
24 WAY EARTH BAR C/W SINGLE DISC. LINK	1475 x 100 x 90	EBAR24-1
26 WAY EARTH BAR C/W SINGLE DISC. LINK	1575 x 100 x 90	EBAR26-1
28 WAY EARTH BAR C/W SINGLE DISC. LINK	1675 x 100 x 90	EBAR28-1
30 WAY EARTH BAR C/W SINGLE DISC. LINK	1775 x 100 x 90	EBAR30-1

The standard connections are M10. Other sizes are available upon request.

See Page 25 for the full material specification.

SINGLE DISCONNECTING LINK : TINNED



DESCRIPTION	DIMENSIONS (mm) L x W x H	PART No.
6 WAY EARTH BAR TINNED C/W SINGLE DISC. LINK	475 x 100 x 90	EBAR6-1/T
8 WAY EARTH BAR TINNED C/W SINGLE DISC. LINK	575 x 100 x 90	EBAR8-1/T
10 WAY EARTH BAR TINNED C/W SINGLE DISC. LINK	725 x 100 x 90	EBAR10-1/T
12 WAY EARTH BAR TINNED C/W SINGLE DISC. LINK	825 x 100 x 90	EBAR12-1/T
14 WAY EARTH BAR TINNED C/W SINGLE DISC. LINK	925 x 100 x 90	EBAR14-1/T
16 WAY EARTH BAR TINNED C/W SINGLE DISC. LINK	1025 x 100 x 90	EBAR16-1/T
18 WAY EARTH BAR TINNED C/W SINGLE DISC. LINK	1125 x 100 x 90	EBAR18-1/T
20 WAY EARTH BAR TINNED C/W SINGLE DISC. LINK	1275 x 100 x 90	EBAR20-1/T
22 WAY EARTH BAR TINNED C/W SINGLE DISC. LINK	1375 x 100 x 90	EBAR22-1/T
24 WAY EARTH BAR TINNED C/W SINGLE DISC. LINK	1475 x 100 x 90	EBAR24-1/T
26 WAY EARTH BAR TINNED C/W SINGLE DISC. LINK	1575 x 100 x 90	EBAR26-1/T
28 WAY EARTH BAR TINNED C/W SINGLE DISC. LINK	1675 x 100 x 90	EBAR28-1/T
30 WAY EARTH BAR TINNED C/W SINGLE DISC. LINK	1775 x 100 x 90	EBAR30-1/T

The single disconnecting link is mainly used to offer a temporary break in the connection to the earth allowing the inspection and testing of multiple earth rods / systems while disconnected from the lightning and earth system.

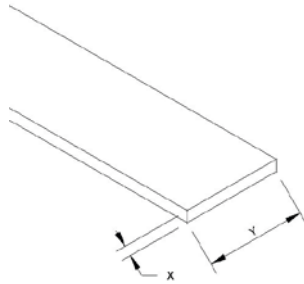
Kingsmill earth bars are supplied with a powder coated base as standard.

The standard connections are M10. Other sizes are available upon request.

See Page 25 for the full material specification.

CONDUCTORS

COPPER TAPE : BARE



COND.SIZE (Y x X) (mm)	C.S.A. (mm ²)	COIL SIZE (m)	WEIGHT (Kg / m)	PART No.
12.5 x 1.5	18.75	100	0.17	CTBA1215
12.5 x 3	37.50	100	0.33	CTBA1230
20 x 1.5	30.00	100	0.27	CTBA2015
20 x 3	60.00	100	0.53	CTBA2030
25 x 1.5	37.50	100	0.33	CTBA2515
25 x 3	75.00	25 or 50	0.67	CTBA2530
25 x 4	100	50	0.89	CTBA2540
25 x 6	150	40	1.34	CTBA2560
30 x 2	60.00	50	0.53	CTBA3020
30 x 3	90.00	50	0.80	CTBA3030
30 x 4	120	40	1.07	CTBA3040
30 x 5	150	40	1.33	CTBA3050
31 x 3	93.00	50	0.83	CTBA3130
31 x 6	186	30	1.65	CTBA3160
38 x 3	114	50	1.01	CTBA3830
38 x 5	190	30	1.69	CTBA3850
38 x 6	228	25	2.03	CTBA3860
40 x 3	120	40	1.06	CTBA4030
40 x 4	160	30	1.42	CTBA4040
40 x 5	200	25	1.78	CTBA4050
40 x 6	240	25	2.13	CTBA4060
50 x 3	150	40	1.33	CTBA5030
50 x 4	200	30	1.78	CTBA5040
50 x 5	250	20	2.22	CTBA5050
50 x 6	300	20	2.68	CTBA5060

Kingsmill copper tape is embossed 'Kingsmill (UK)' for identification purposes and is manufactured from high conductivity annealed copper.

Material: Copper to BS EN 13601 (formerly BS 1432).

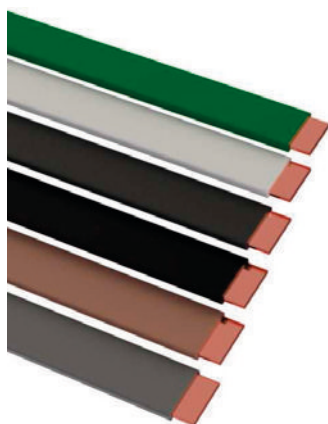
BS EN 62561-2 : 2012.

All bare copper tape sold in the specified coil lengths only.

However, CTBA2530 can be cut to desired length, please speak to the sales office for further details. Please reference the Part No. CTBA2530/DRUM.

CONDUCTORS

COPPER TAPE : PVC COVERED



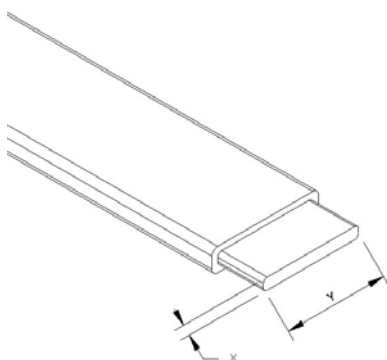
COND.SIZE (Y x X) (mm)	COLOUR	COIL SIZE (m)	WEIGHT (Kg / m)	PART No.
25 x 3	BLACK	25	0.78	TCBL253
25 x 3	BROWN	25	0.78	TCBN253
25 x 3	GREEN	25	0.78	TCGN253
25 x 3	GREY	25	0.78	TCGY253
25 x 3	STONE	25	0.78	TCST253
25 x 3	WHITE	25	0.78	TCWH253
25 x 6	GREEN	40	1.53	TCGN256
50 x 6	GREEN	20	2.96	TCGN506

Kingsmill offers a wide range of UV-stabilised PVC covered tapes in a range of different colours. These colours have been chosen to match the most common structural materials and will reduce the visual impact of a lightning protection conductor.

Material: Copper to BS EN 13601 (formerly BS 1432)

***PVC Colours to BS 5252 , Green to BS 6746**

All PVC tape sold in the specified coil lengths only.



COLOUR	STANDARDS	COLOUR
BLACK	18B29*	
GREEN	BS 6746C	
GREY	00A07*	
STONE	08B23*	
WHITE	10B15*	
BROWN	06C39*	

OTHER COLOURS AVAILABLE UPON REQUEST -
PLEASE SPEAK TO A MEMBER OF THE SALES
OFFICE.

CONDUCTORS

COPPER CABLE : BARE STRANDED

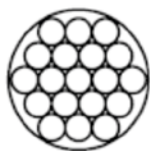


ILLUSTRATION
PURPOSES ONLY

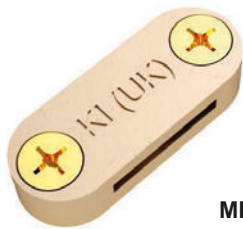
C.S.A (mm²)	STRANDING No. / DIA (mm) **	NOMINAL DIAMETER (mm)	WEIGHT (Kg / m)	PART No.
6.0	7 / 1.04	3.12	0.05	BSCW006
16	7 / 1.70	5.10	0.15	BSCW016
25	7 / 2.14	6.42	0.23	BSCW025
35	7 / 2.52	7.56	0.32	BSCW035
50	19 / 1.78	8.90	0.43	BSCW050
70	19 / 2.14	10.70	0.62	BSCW070
95	19 / 2.52	12.60	0.86	BSCW095
120	37 / 2.03	14.21	1.09	BSCW120
150	37 / 2.25	15.75	1.33	BSCW150
185	37 / 2.52	17.64	1.67	BSCW185
240	61 / 2.25	20.25	2.20	BSCW240
300	61 / 2.52	22.68	2.76	BSCW300
400	61 / 2.85	25.65	3.53	BSCW400

Material: Soft drawn stranded copper cable to BS EN 60228.

** Stranding may vary.

FIXING CLIPS

METALLIC DC TAPE CLIPS : FLAT / CIRCULAR CONDUCTOR



MDC253



HDCS70

CONDUCTOR SIZE (mm)	CONDUCTOR TYPE	WEIGHT (Kg)	PART No.
20 x 3	BARE COPPER	0.09	MDC203
25 x 3	BARE COPPER	0.07	MDC253
25 x 4	BARE COPPER	0.06	MDC254
25 x 6	BARE COPPER	0.06	MDC256
31 x 3	BARE COPPER	0.09	MDC313
31 x 6	BARE COPPER	0.11	MDC316
38 x 3	BARE COPPER	0.12	MDC383
38 x 5	BARE COPPER	0.12	MDC385
38 x 6	BARE COPPER	0.14	MDC386
40 x 4	BARE COPPER	0.14	MDC404
40 x 6	BARE COPPER	0.14	MDC406
50 x 3	BARE COPPER	0.15	MDC503
50 x 4	BARE COPPER	0.15	MDC504
50 x 6	BARE COPPER	0.17	MDC506
25 x 3	PVC COPPER	0.13	MDC253P
25 x 6	PVC COPPER	0.10	MDC256P
50 x 6	PVC COPPER	0.26	MDC506P
25 x 3	LEAD COVERED COPPER	0.20	MDC253LD
20 x 3	BARE ALUMINIUM	0.02	MDA203
25 x 3	BARE ALUMINIUM	0.03	MDA253
25 x 6	BARE ALUMINIUM	0.04	MDA256
50 x 6	BARE ALUMINIUM	0.05	MDA506
25 x 3	PVC ALUMINIUM	0.04	MDA253P
50 x 6	PVC ALUMINIUM	0.06	MDA506P
50 ²	BARE COPPER	0.10	HDCS50
70 ²	BARE COPPER	0.10	HDCS70
95 ²	BARE COPPER	0.10	HDCS95
8 DIA.	BARE COPPER	0.10	HDCS08

Material: Gunmetal / aluminium alloys.

BS EN 62561-4