

Earthing rocks and accessories

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Extendable Earth Rods

Taperlock Coupled Type CTE

Type CTE earth rods are among the simplest to use. They have identical taper ends and are joined by a one-piece tapered coupling which locks upon driving. These rods may be driven by hand or machine.

Diameter	13mm	15mm	19mm

Hand Driving Head

Average Driving	DHT15	DHT15	DHT19	
Hard Driving	DHTU22	DHTU22	DHTU22	
Hard Driving	DHTU25	DHTU25	DHTU25	

Earthrods

Length mm	Cat No.	Pack Qty	Cat No.	Pack Qty	Cat No.	Pack Qty
1200	CTE1312	10	CTE1512	10	-	-
1440	CTE1314	10	CTE1514	5	-	-
1800	CTE1318	5	CTE1518	5	-	-
2000	-	-	-	-	CTE1920	5
2400	CTE1324	5	CTE1524	5	-	-
3000	CTE1330	5	CTE1530	5	-	-

Coupling

Cat No.	CCT13	CCT15	CCT19	C

Driving Point

Average Driving	DPT13	DPT15	DPT19
Hard Driving	SDP13T	SDP15T	

DPT13







Extendable Earth Rods

Taperlock Coupled Type STE

SDP12T

Type STE earth rods are among the simplest to use. They have identical taper ends and are joined by a one-piece tapered coupling which locks upon driving. These rods may be driven by hand or machine.

	Diameter	13mn	n	14mn	า
			-		-
	Hand Driving	Head			
	Average Driving	DHT1	5	DHT1	5
		DHTU2	22	DHTU2	22
HT15	Hard Driving	DHTU2	25	DHTU2	25
11110					
	Earthrods	1			
	Length		Pack		Pack
	mm	Cat No.	Qty	Cat No.	Qty
	1200	STE1312	10	STE1412	10
STE	1440	STE1314	10	STE1415	5
ered end	1800	STE1318	5	STE1418	5
	2400	STE1324	5	STE1424	5
	3000	STE1330	5	STE1430	5
	Coupling				
	Cat No.	SCT1	3	SCT1	5
			0		
CT13	Driving Point	:			
	Average Driving	DPT1	2	DPT1	5
	Hard Driving	SDP12	2T	SDP15	БΤ



Extendable Deep Driving Rods Flush Jointed Series Type CCE - Copper

These deep driving flush-jointed electrodes have identical swaged ends to take driving points and coupling pins. They may be either hand or machine driven.

CCA15

Diameter	13mm	15mm
Hand Driving	Head	
Average Driving	DH15	DH15

Earthrods

Length mm	Cat No.	Pack Qty	Cat No.	Pack Qty
1200	CCE1312	10	CCE1512	10
1440	CCE1314	10	CCE1514	5
1800	CCE1318	5	CCE1518	5
2400	CCE1324	5	CCE1524	5
3000	CCE1330	5	CCE1530	5



Driving Point

Cat No.

Coupling

<u>enting</u> rom					
Average Driving	DP13	DP15			
Hard Driving	SDP13	SDP15			

CCA13

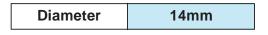


SDP13

Extendable Earthing Rods Expansion Jointed - Type SDE (Telstra)

Telstra designed and approved earth rod featuring corrosion resistant stainless steel clad rods, extendable in 1440mm lengths.

The coupling system comprises of a stainless steel sleeve and hardened steel pin having a raised convolution at the midpoint. A secure and non-detachable joint is achieved by means of the pins convolute expanding and deforming the ends of the rod into the coupling sleeve as the rods are driven together.



Hand Driving Head

Average Driving	DH14
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Earthrods

Length mm	Cat No.	Pack Qty
1200	SDE1412K	10
1440	SDE1414L	10

Coupling

Cat No.	C14L
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Driving Point

Average Driving	DP14
Hard Driving	SDP14D



SDE Machined end





DP14



Earth Rod Driving Accessories Couplings, Driving Points, Tools

Machine Driving	· ·	ered End ble Rods	For Flush Jointed Extendable Rods		
Heads	СТЕ	STE	CCE Series Copper		
Kango 900/950	MDH15K		MDH15KF		



MDH15KF



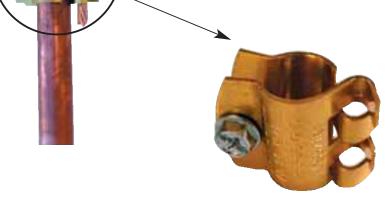
MDH15K

Machine Driving Pin For use with above machine driving tools	 MDP10M
MDP10M	

Non-extendable Earth Rods

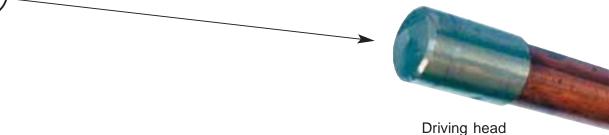
Dulmison manufacture a broad range of non-extendable earth rods. Each rod incorporates an integral driving point, machined (not ground) to preserve the strength and rigidity of cold-drawn steel. The flat tip was developed for penetrating all types of soil.

Domestic Rod Pack, CNE1314D									
10 pcs/pack	10 pcs/pack CNE1314D Domestic earth rod								
10 pcs/pack	EC13D	Earth clip							



Domestic Rod Earth Clip EC13D Suitable for cables in the range 6 - 16mm²

Non-Extendable Earth Rods - Heavy Duty Series Type LGR - Copper Clad



Driving head incorporated onto rod

Copper clad onlyIncorporating driving head and pointNominal diameter 19mm

Recommended Clamps:

Clamp Types EP; ET; GB and FSC provide a copper to copper connection, either in parallel or right angle mode, accommodating single, two & three conductors.

LGR 19mm Rods						
Length mm	Cat No.	Pack Qty.				
1800	LGR1918	5				
2000	LGR1920	3				
2400	LGR1924	3				
3000	LGR1930	3				
3600	LGR1936	3				
4500	LGR1945	3				

Airport Earthing Terminal for Static Electricity Earthing Type AET

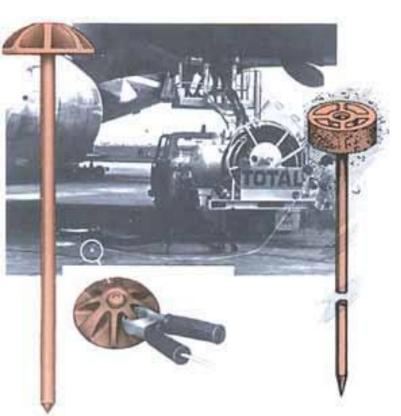
Catalogue No. AET1918

Standard length 1.8M, other lengths made to special order. Type AET electrodes provide for the earthing of airport tarmac areas where any generation of static electricity could be hazardous e.g. aircraft refuelling, servicing and cargo loading areas. The heavy duty capping has a ribbed design affording a fast, and positive earthing connection by means of earth lead connector clips.

Also available flush fitted, Catalogue No. AET1918F

Material: Solid steel core overlaid with copper cladding; heavy bronze cap.

Installation procedure: Drive electrode into ground to required depth. Remove protruding portion of rod above cap and finish flush.





AET1918

AET1918F

Earthing Bond for Commercial Earthing Installations Type C70

The earthing bond system provides an earth connection welded to the steel reinforcement, thus offering a virtually indestructible, stable and low resistance path to earth.

	Cat No. C70
Bonding Cable	70mm ²
3 sec current rating	10kA
Lug Dia.	10mm
Terminal Thread	M10
Thread Depth	20mm
Cable Length	3m

Please enquire for other sizes.





Heavy Duty Earthing Connector Type CEC

Compress-on copper connections for copper earth rods & grid systems

- High strength, high conductivity connection
- · Shake-proof, permanent and corrosion resistant
- High fault current capacity
- Versatile covers wide variety of single or multi-earthing applications including grid systems
- Two profiles '6' and 'C' cover a wide variety of applications. Refer to table for specific catalogue numbers.

			Tap O	ff Conductor	
Cat No.	Box Qty	Open Section	Dia. mm	Cross Section mm ²	Die Set
CEC15035	40	Conductors	8.4	25 - 40	
CEC15070	40	50 - 120mm ²	11	50 - 70	DU1315
CEC15120 50 or		or Earth rods 13	15	95 - 120	001315
CEC15150	50	- 15mm dia	16.5	120 - 150	

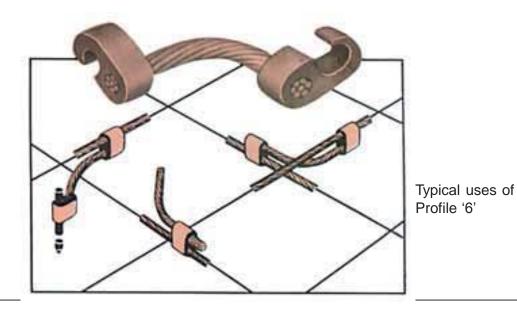


Profile '6'

Cat No.	Box Qty	Conductor Combination mm ²	Die Set
		70 - 35	
CEC070	50	50 - 50	DUOT
CECOTO	50	70 - 50	DUUT
		70 - 70	
CEC095	50	70 - 95	DU1315
CEC095	50	95 - 95	D01315



Profile 'C' Crimp conductors side by side



Earth Rod Clamps Types GB & EL

This clamp is designed for either parallel or right angle connections, as illustrated.

Material: High copper content alloy castings with stainless steel U bolt, spring washers and nuts.



	Condu	Diameter of	
Cat No.	mm²	Electrode mm	
GB1	16 - 35	5.10 - 7.65	13 - 19
GB2	50 - 120	8.90 - 14.21	13 - 19
GB3	150 - 185	15.75 - 17.64	13 - 19
EL21090	35 - 120	7.65 - 14.21	12 - 15

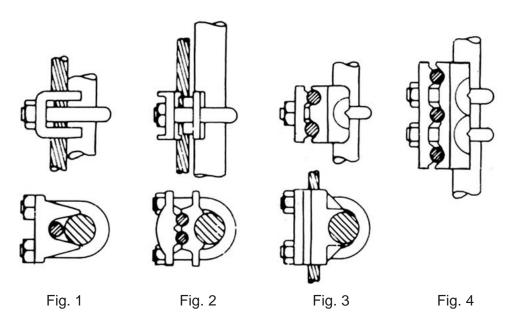


Earth Rod Clamps

Types EP & ET for multi-conductor earthing

For two earth conductors parallel to rod, or two or three earth conductors at right angles to rod.

Materials: Body - high copper content alloy casting; Hardware - stainless steel.



Multiple Conductor Installations								
Cat No.	O.D. Ground Rod mm			Fig. No.	No. of Conductors			
EPO1	14-16	16 - 35	5.10 - 7.65	1	1			
EP1	17-19	16 - 120	5.10 - 14.21	1	1			
EP3	17-19	16 - 35	5.10 - 7.65	2	2			
EP4	17-19	50 - 120	8.90 - 14.21	2	2			
ET1	17-19	16 - 35	5.10 - 7.65	3	2			
ET2	17-19	50 - 120	8.90 - 14.21	3	2			
ET4	17-19	50 - 120	8.90 - 14.21	4	3			



Type EP

Type ET



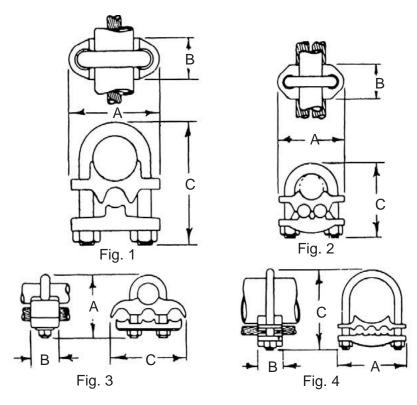
Earth Rod Clamps

Type GP for connecting up to 3 conductors to galvanised pipe

This clamp makes all connections parallel to the pipe.

Materials: Clamp body - high copper content alloy.

Hardware: Comprising U-bolts, washers and nuts - stainless steel.



For dimensions, refer to table on next page.

Earth Rod Clamps

Type GP for connecting up to 3 conductors to galvanised pipe



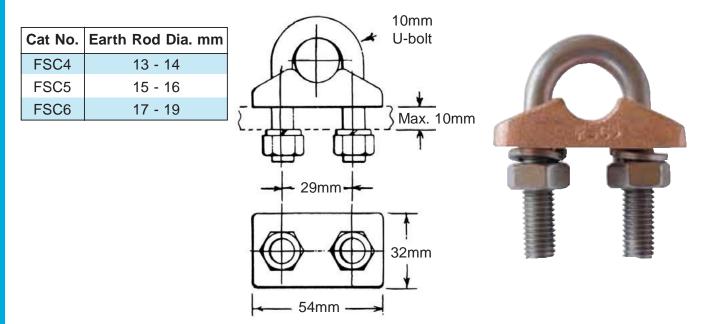
	BS Pipe	Series	Condu	ctor Range		No.				
Cat	OD of	Nom.			Fig.	of	•			U-bolt
No.	Pipe	Bore	mm²	Dia. mm	No.	Cons	Α	В	С	Dia.
GP01	26	19.00			1	1	57	32	71	
GP1					1	1	65	32	86	
GP3	34	25.40			2	2	76	32	86	
GP5					3	3	95	38	86	
GP7					1	1	73	32	95	
GP9	43	32.00	16 - 35	5.10 - 7.65	2	2	81	32	95	M10
GP11					3	3	103	38	95	
GP13	48	38.00			1	1	80	32	102	
GP15	40	38.00			2	2	80	32	102	
GP19					1	1	100	32	124	
GP21	60	51.00			2	2	100	32	124	M12
GP23					4	3	100	38	124	
GP02	26	19.00			1	1	57	32	71	
GP2					1	1	65	32	86	
GP4	34	25.40			2	2	76	32	86	
GP6					3	3	95	38	86	
GP8					1	1	73	32	95	
GP10	43	32.00	50 - 120	8.90 - 14.21	2	2	81	32	95	M10
GP12					3	3	103	38	95	
GP14	48	38.00			1	1	80	32	102	
GP16	40	36.00			2	2	80	38	102	
GP20					1	1	100	32	124	
GP22	60	51.00			2	2	100	32	124	M12
GP24					4	3	100	38	124	

Earth Rod Clamps

Type FSC for earth to flat bar

For connecting copper earthing strip at right angles or parallel to the earthing electrode.

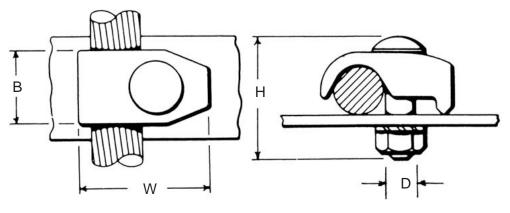
Material: High strength copper alloy casting; stainless steel U-bolt, nuts and spring washers.



Type GF for conductor to flat bar

For clamping earth cable to flat metal. Needs only one spanner as head of bolt has square shank to prevent turning. Standard bolt grips 6mm bar.

Material: Cast copper alloy body accommodates range of cable sizes; stainless steel bolt, nut and spring washer.



	Conduc	Di	mensi	ons m	nm	
Cat No.	mm ² Dia. mm		W	В	н	D
GF42	16 - 70	5.10 - 10.70	39	27	27	M10
GF58	70 - 135	10.70 - 15.25	50	37	37	M12

Earth Rod Clamps Single Conductor - Parallel

Simple and robust, these pinch and U-Bolt type clamps have a vee groove embodied in the casting to accommodate the earthing cable.

Material: Bodies are made from a high copper content alloy casting.

		Conductor Size	
Cat No.	Rod Size	CSA mm ²	Dia. mm
GRC5	13 - 15	10 - 35	4.05 - 7.65
CLAMP210	13 - 15	16 - 120	5.10 - 14.21
EP1	17 - 19	16 - 120	5.10 - 14.21



Type GRC5



CLAMP210



Earthing Enhancement Compounds

Cat No.	Composition	Standard	
EARTHFIL	Bentonite, Gypsum, Sodium Sulphate	Conforms to AS2239	
EARTHRITE	Bentonite, Gypsum, Sodium Sulphate	N/A	
EARTH5050	Bentonite, Gypsum	Conforms to AS2239	

Features: Stable, high conductivity providing long term low ground resistance. High expansion, low shrink characteristics. Non-toxic, non-corrosive.



Packaging: 20kg non-tear, plastic lined bags.

Installation: Apply as a dry mix or pourable slurry.

Dry mix will yield a volume of approximately 0.0176m3 (roughly 57 bags to the cubic metre).

Slurry will yield a volume of approximately 0.030m3 when mixed with 20 to 25 litres of water (roughly 33 bags to the cubic metre)

Connection Boxes

Boxes ERB1 and ERB3 feature hinged inspection lids & cable entry holes on the sides. Both boxes provide ample space for conductors and clamps.



Type ERB1



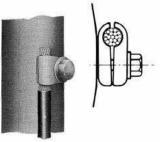
Type ERB3

Pole Earthing Terminal Type CPET

The pole earthing conductor is held by two half-clamps which directly attach to the pole as illustrated.

Materials: Cast brass with stainless steel hardware.

	Conductor Range		Dia. Bolt	Bolt Length
Cat No.	Stranding	Overall Dia.	& Washer	mm
CPETM6	7/2.75 - 19/1.75	8.25 - 8.75	M10	35
CPETM24	19/1.75 - 19/2.00	8.75 - 10.00	M12	35



Earth Mat and Installation Kit

Cat No.	Description
EARTHMAT	Material: Galvanised steel
	Size: 1500 x 900mm
	Mesh: 76 x 50mm
KITY	Switching Kit to EARTHMAT

