



THE ARRESTER EARTH LEADS ARE TO BE MADE AS SHORT AS POSSIBLE AND CONNECTED IN THE MOST DIRECT ROUTE TO THE UGOH EARTH BAR.

- NOTES:**
- SOME MATERIAL QUANTITIES MAY VARY DEPENDANT ON POLE SIZE AND CONSTRUCTION TYPE.
  - ALL COMPRESSION LUGS TO BE TERMINATED USING CORRECT PROCEDURES AND CALIBRATED TOOLS.
  - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE. DO NOT SCALE. DIMENSIONS TAKE PRECEDENCE.
  - ONLY ONE ELECTRICAL CONNECTION PER BOLT PERMITTED.
  - ATTACH CABLE TIES AROUND THE MEDIUM VOLTAGE CABLE COVER AT THE BEGINNING OF THE SECTION, AT EQUAL INTERVALS UP TO 750mm APART AND AT THE END OF THE SECTION.
  - REFER TO DESIGNER SAFETY REPORT D21/83983 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SHEET 1

ITEM	DESCRIPTION	DRG.No	STOCK CODE	BASE	LV	SL
53	TE - CABLE, 250x7mm, BLACK, LV STABILISED, PVC (SEE NOTE 5)		179755	A/R		
52	COVER - CONDUCTOR, MEDIUM VOLTAGE, GREY (TO SUIT CONDUCTOR SIZE) (TE CONNECTIVITY PART No. MVCC-G-XXX/XX)		PURCHASE	A/R		
51	FLAG - EARTH, 50x3 x 100mm, TINNED COPPER			3		
50	CLAMP - EARTH, DOWNLEAD (TO SUIT 70mm <sup>2</sup> CABLE)			A/R		
49	SCREW - #12x45mm, SELF DRILLING		175567		A/R	
48	CONNECTOR - SERVICE/STREET LIGHTING INSULATOR PIERCING		73585		2	
47	CABLE - 2.5mm <sup>2</sup> , Cu, 2C, PVC INSULATED		H15011		A/R	
46	SADDLE - 25mm, DOUBLE SIDED, GALVANISED		66043		A/R	
45	CONDUIT - FLEXIBLE, Ø20mm, GREY		176566		A/R	
44	CLAMP - ID-TECHNIK, K SERIES 50/75		182114	3		
43	LUG - COMPRESSION, B-METALLIC, LONG PALM (TO SUIT CONDUCTOR) (DRILL PALM TO SUIT ITEM 11) (SEE NOTE 2)			3		
42	CABLE - 70mm <sup>2</sup> , Cu, PVC INSULATED, BLACK		60111	A/R		
41	CABLE - 185mm <sup>2</sup> , Cu, PVC INSULATED, BLACK		184617	A/R		
40	CONDUCTOR - TO SUIT PHASE CONDUCTOR			A/R		
39	CLAMP - PARALLEL GROOVE, 3 BOLT (TO SUIT CONDUCTOR)		514099	3		
38	SHACKLE - BOW, 70N, REF 70/S, A.S. 1154.2		13864	30890	2	
37	LUG - COMPRESSION, COPPER, Ø12mm HOLE (TO SUIT 70mm <sup>2</sup> CABLE) (SEE NOTE 2)		74831	16		
36	LUG - COMPRESSION, COPPER, Ø12mm HOLE (TO SUIT 185mm <sup>2</sup> CABLE) (SEE NOTE 2)		73312	3		
35	SCREW - COACH, M12x65mm, GALVANISED		H40476	20		
34	WASHER - SPRING, M12, STAINLESS STEEL		518082	143659	25	
33	WASHER - FLAT, M12, STAINLESS STEEL		518081	49429	50	
32	NUT - M12, HEX, STAINLESS STEEL		515467	8987	25	
31	BOLT - M12x40mm, HEX, STAINLESS STEEL		515467	45146	25	
30	WASHER - SPRING, M10, GALVANISED			6		
29	SCREW - COACH, M10x65mm, GALVANISED		50542	A/R		
28	SCREW - COACH, M12x90mm, GALVANISED		50443		2	
27	BOLT & NUT - M10x75mm, HEX, GALVANISED		515466	46326	6	
26	WASHER - FLAT, M10, GALVANISED		518081	177983	A/R	
25	SCREW - COACH, M10x40mm, GALVANISED		50567	48		
24	WASHER - FLAT, M12, GALVANISED		518081	177982	20	2
23	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)		518081	H39231	4	1
22	WASHER - CONICAL, M20, GALVANISED		518082	H39655	2	1
21	WASHER - FLAT, M20, GALVANISED		518081	177986	2	2
20	BOLT & NUT - M20, HEX, GALVANISED (LENGTH TO SUIT POLE)		515466		2	1
19	CLAMP - SUSPENSION (TO SUIT LV ABC CONDUCTOR SIZE)			1		
18	COVER - TERMINATION PLATE		176721	3		
17	CLAMP - EARTH, DOWNLEAD (TO SUIT 185mm <sup>2</sup> CABLE)			A/R		
16	CLAMP - CABLE, STAINLESS STEEL, ADJUSTABLE BAND, TYPE 30-100mm		177651	A/R		
15	COVER - CABLE, VENTILATED, UPPER		160792	177882	4	
14	COVER - CABLE, VENTILATED, LOWER		160792	177711	4	
13	BRACKET - STREET LIGHT, TYPE 3A		59737	72272		1
12	LUG - COMPRESSION, CABAC CAL300LPB (REFER TO DRILLING ARRANGEMENT) (SEE NOTE 2)		182151	3		
11	PLATE - CONNECTION, 50x10x225mm, H.D.H.C. COPPER			3		
10	BAR - EARTH, 50.8x3.18x400mm, TINNED COPPER			2		
9	BRACKET - SURGE ARRESTER, 33kV		527144	H113456	3	
8	BRACKET - CABLE SUPPORT		153799	3		
7	BRACKET - SURGE ARRESTER, 6kV SCREEN		153798	3		
6	INSULATOR - 6kV, HORIZONTAL LINE POST, WITH TWO HOLE TONGUE END FITTING		181308		1	
5	ARRESTER - SURGE, 6kV, 33kV XLPE CABLE SCREEN		H16616	3		
4	ARRESTER - SURGE, 30kV, 10kA, STD MOUNTING		H113407	3		
3	TERMINATION - CABLE (TO SUIT 33kV 300mm <sup>2</sup> Cu1 XLPE CABLES)		178657	3		
2	CABLE - 300mm <sup>2</sup> , Cu, 1C, XLPE			A/R		
1	POLE - TIMBER (AS REQUIRED)		513988	1		

NOTE : THIS CONSTRUCTION IS ONLY TO BE USED AFTER CONSULTATION WITH THE RELEVANT AUSGRID SECTIONS.

ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE. DO NOT SCALE.

NO.	REVISIONS	DATE	BY	CHKD.	APPD.
1	CHANGED: PHILLIP JONES	04/07/2019	PHILLIP JONES	PHILLIP JONES	GLENN FORD
2	CHANGED: PHILLIP JONES	07/05/2019	PHILLIP JONES	PHILLIP JONES	GLENN FORD
3	CHANGED: PHILLIP JONES	06/11/2019	PHILLIP JONES	PHILLIP JONES	GLENN FORD
4	CHANGED: PHILLIP JONES	14/02/2021	PHILLIP JONES	PHILLIP JONES	GLENN FORD

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NETWORK STANDARD  
 SCALE: AS SHOWN  
 DRAWN: PHILLIP JONES  
 CHECKED: PATRICIA RIOS  
 APPROVED: LEIGH DUNKLEY  
 DATE: 31/10/18  
 PROJECT NUMBER: STD  
 PROJECT TRACK NUMBER: -

**STANDARD CONSTRUCTION**  
 33kV UGOH CONSTRUCTION ON TIMBER POLE  
 SVL CABLE SCREEN BONDED EARTHING SYSTEM  
 OPTIONAL LV & STREETLIGHT ATTACHMENTS  
 DETAILS & MATERIAL LIST

SIZE: A1  
 DRAWING No: 248461  
 SHEET: 02  
 AMD: 4