



PARTS LIST QUANTITIES ARE BASED ON A SINGLE END TERMINATION ONLY

ITEM	DESCRIPTION	DRG No.	STOCK CODE	QTY
65	CONDUIT - RIGID, WHITE COMMUNICATIONS, PVC Ø50mm			AR
64	THREADED ROD - M12, 316 STAINLESS STEEL, LENGTH TO SUIT CABLE CLAMP			AR
63	CONDUIT - CORRUGATED, WHITE COMMUNICATIONS, PVC Ø32mm			AR
62	BRACKET - TWIN CABLE CLAMP	221572		AR
61	LUG - COMPRESSION TO SUIT 70mm ² COPPER CABLE			AR
60	CABLE TIE - STAINLESS STEEL			AR
59	BRACKET - CABLE CLAMP, FOR USE WITH COVER, DRG : 223076 ITEM 5	223076		21
58	INSULATOR COVER - UTILUX T-365C			2
57	CONNECTOR - UTILUX T-365 Cu 'C'			2
56	INSULATOR - 66kV, POST, CROSSARM MOUNTING ARRANGEMENT (OPTIONAL)	514165		(2)
55	INSULATOR - 66kV, HORIZONTAL LINE POST, MOUNTING & BONDING ARRANGEMENT 2 (OPTIONAL)	514161		(1)
54	INSULATOR - 66kV, LONGROD STRING ARRANGEMENT 3	166231		1
53	INSULATOR - 66kV, LONGROD STRING ARRANGEMENT 2	166231		2
52	CROSSARM - MOUNTING ARRANGEMENT 1a (3000x200x100mm)	514176		1
51	NEOPRENE INLAY - (CUT TO SUIT)			AR
50	WASHER - SPRING, M16, GALVANISED	518082	H12055	18
49	WASHER - FLAT, M16, GALVANISED	518081	175727	36
48	BOLT & NUT - M16 x 65mm, HEX, GALVANISED	515466	175675	18
47	CONDUCTOR 70mm ² COPPER PVC COVERED			H14617 AR
46	FIBERLUG DEADEND	162494		1
45	OFFSET EARTHING CLIP - Ø22mm HOLE	507734	H11708	2
44	LUG - COPPER, COMPRESSION, Ø12mm HOLE (TO SUIT 240mm ² Cu)			179574 3
43	CONDUCTOR - EARTHING - COVERED 240mm ² Cu			AR
42	WASHER - SQUARE, 50x50x6mm, GALVANISED, Ø22mm HOLE	518081	H39265	24
41	SET SCREW - M12 x 50mm, STAINLESS STEEL	515467	45195	AR
40	BRACKET - CABLE CLAMP, DRG : 223076 ITEM 4	223076		AR
39	CLAMP - CABLE (ID-TECHNIK K 28/36 UP TO KR 75/100 AS REQUIRED), WITH ELASTIC INLAY			AR
38	SET SCREW - M12 x 75mm, STAINLESS STEEL			AR
37	BOLT & NUT - M20 GALVANISED, HEX Hd (TO SUIT POLE)	515466		9
36	POLE BAND - 3 BOLT (TO SUIT POLE)	507741		2
35	DEADEND - PREFORMED (TO SUIT PHASE CONDUCTOR)	514098		3
34	LUG - COMPRESSION TO SUIT MERCURY CONDUCTOR 7/4.5 AAC	514053	H10257	AR
33	CONDUCTOR - MERCURY 7/4.5 AAC			H13433 AR
32	SPLICE - COYOTE, CASE STAINLESS STEEL 6.5"x22" WITH CABLE GLANDS	PLP DRG : 120-037-731		1
31	OPGW - CUSHION CLAMP	PLP DRG : 037-274-RD		AR
30	BRACE - CROSSARM, ANGLE, 740mm, GALVANISED	46	99119	2
29	CABLE COVER - UPPER, DRG : 223076 ITEM 2	223076		3
28	FLAT BAR - 50.8 x 3.18mm, TINNED HD COPPER, SEE DETAIL 9	221569		1
27	BRACKET - OPGW COIL			1
26	DROPPER CABLE - EQUIVALENT TO AERIAL CONDUCTOR			3
25	WASHER - FLAT, STAINLESS STEEL, DRG : 202855 ITEM 3	202855		56
24	PALM - TO SUIT CABAC LUGS & TYCO TORQUE CONTROLLED LUGS	202654		3
23	BRACKET - CABLE CLAMP, DRG : 223073 ITEM 4	223073		AR
22	CABLE COVER - UPPER, EARTHING, DRG : 223073 ITEM 2	223073		1
21	CABLE COVER - LOWER, EARTHING, DRG : 223073 ITEM 1	223073		1
20	PLATE - TERMINATION TWIN CONNECTION	221570		3
19	BRACKET - SURGE ARRESTER, ITEM 1 FOR 66kV RESTRICTED EARTH SURGE ARRESTERS	202647		3
18	NUT - M20, HEX, GALVANISED	515466	175361	24
17	WASHER - M20, SPRING, GALVANISED	518082	175569	AR
16	WASHER - M20, FLAT, GALVANISED	518081	175625	AR
15	ROD - M20, THREADED, GALVANISED, LENGTH TO SUIT			6
14	NUT - M12, HEX, 316 STAINLESS STEEL	515467	8987	AR
13	WASHER - M12, SPRING, 316 STAINLESS STEEL		143859	AR
12	WASHER - M12, FLAT, 316 STAINLESS STEEL	518081	49429	AR
11	SCREW SET - M12x30mm, HEX, 316 STAINLESS STEEL	515467	175911	AR
10	LUG - BIMETALLIC, TO SUIT CONDUCTOR			AR
9	INSULATOR - POLYMERIC, KLINE TYPE KL69SVP1			3
8	VOLTAGE LIMITER - CABLE SHEATH, AK POWER TYPE T2S PB (REFER TO DESIGN FOR VOLTAGE RATING)			3
7	TERMINATION - OUTDOOR, 72kV, FOR XLPE Cu, WITH TOP BOLT TYPE KT-BF 40 SKR			6
6	LUG - CABAC TYPE CAL, STRAIGHT, TO SUIT CABLE			6
5	LUG - TYCO TORQUE CONTROLLED TYPE EPPA-05X-XV			6
5	SURGE ARRESTOR-66kV, STATION CLASS, COOPER TYPE U20605338C5AAA FOR RESTRICTED EARTH			3
4	SURGE ARRESTOR-66kV, STATION CLASS, COOPER TYPE U205404236C5AAA FOR SOLID EARTH			3
4	BRACKET - SUPPORT INSULATOR, DRG : 202647 ITEM 1	202647		3
3	BRACKET - CABLE SUPPORT	202645		3
2	CABLE COVER - LOWER, DRG: 223076 ITEM 1	223076		3
1	POLE - AS SPECIFIED IN DESIGN DOCUMENTATION			1

- NOTES:**
- CONNECTION BETWEEN MAIN EARTH GRID AND CONCRETE REINFORCING OR FENCE POST TO BE INSTALLED WITH INSULATION INTACT TO INHIBIT CORROSION.
 - ALL PVC COVERED CONDUCTORS SHOULD BE PROTECTED DURING WELDING OPERATIONS.
 - ALL CONNECTIONS TO EARTH TAGS TO BE CLEARLY & PERMANENTLY LABELLED WITH CABLE DESTINATION. SEE STAINLESS STEEL TAG DETAIL.
 - ALL CONNECTIONS ON EARTH BARS TO BE CLEARLY & PERMANENTLY LABELLED WITH CABLE DESTINATION. SEE STAINLESS STEEL TAG DETAIL.
 - ALL COMPRESSION LUGS TO BE TERMINATED USING CORRECT HEXAGONAL DIES.
 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE. DO NOT SCALE. DIMENSIONS TAKE PRECEDENCE.
 - WHERE WELDING IS TO BE CARRIED OUT ON SITE ALL WELDS TO BE CLEARED OF SLAG, WIRE BRUSHED AND PAINTED WITH COLD GALVANISING PAINT.
 - ONLY ONE CONNECTION PER BOLT PERMITTED.
 - IF UGOH IS TO BE INSTALLED WITHIN A SUBSTATION FENCE OR CONNECTED TO AN ANCILLARY EARTHING SYSTEM, AN ADDITIONAL CONNECTION WILL BE REQUIRED FROM THE EARTH GRID OR ELECTRODE GROUP TO THE BASE OF THE POLE.
 - FOR A COMPLETELY CROSS BONDED SYSTEM, SHEATH VOLTAGE LIMITERS ARE NOT REQUIRED & THE CABLE SHEATH IS TO BE CONNECTED DIRECTLY TO THE EARTH BAR. THE EARTH CONTINUITY CONDUCTOR THAT RUNS PARALLEL TO THE UNDERGROUND CABLE IS NOT REQUIRED IN CROSS BONDED SYSTEMS. REFER TO EARTHING SCHEMATIC ON SHEET 1 FOR ADDITIONAL DETAILS.

CONSTRUCTION ISSUE

DESIGNED ADAM BRADFORD
 DRAWN PATRICIA RIOS
 CHECKED ADAM BRADFORD
 AUTHORISED LEIGH DUNKLEY
 DATE 19/07/11
 SCALE AS SHOWN
 MAP REF. -
 LGA -

PROJECT No. STD
 PROJTRAK No. -

SIZE A1
 DRAWING No. 221569
 SHEETS 02 of 02
 AMD 0

EnergyAustralia
 145 Newcastle Road
 WALLSEND NSW 2287
 PHONE: 45919388
 FAX: 49519389

STANDARD CONSTRUCTION
 66kV UGOH FOR CONCRETE POLE
 300mm² TO 800mm² - TWIN CABLES PER PHASE
 DETAILS & MATERIAL LIST

CAD DRAWING
 DO NOT MANUALLY AMEND
 A REVISIONS