



**NOTES:**

- FOR A COMPLETELY CROSS OR DOUBLE POINT 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. REFER TO EARTHING SCHEMATIC ON SHEET 1 FOR ADDITIONAL DETAILS.
- ALL EARTH CABLES THAT LEAVE THE UGH SITE ARE TO BE CLEARLY & PERMANENTLY LABELLED AT THE EARTH BAR CONNECTION WITH THE CABLE DESTINATION. SEE STAINLESS STEEL TAG DETAILS.
- 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.
- TOP CABLE COVER MOUNTING BRACKET FERRULES IN CONCRETE POLE FOR EACH CABLE COVER TO BE EARTH FERRULES.
- K SERIES CLEATS TO BE TIGHTENED TO 9Nm. KR SERIES CLEATS TO BE TIGHTENED TO 8Nm.
- FOR COMPLETE COMMUNICATION REQUIREMENTS FOR SUBTRANSMISSION UGH POLES, REFER TO DRG: 212386 SH2.
- REFER TO DESIGNER SAFETY REPORT D24/333919 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	QTY
73	CABLE - COPPER, PVC INSULATED (SIZE WITH MINIMUM CSA EQUIVALENT TO CABLE SHEATH)			A/R
72	REDUCER - CONDUIT, Ø33 TO Ø32, HD			1
71	CLAMP - CONDUCTOR, ASSEMBLY		H12110	1
70	WASHER - SPRING, M16, GALVANISED			6
69	WASHER - FLAT, M16, GALVANISED	518081	177984	12
68	BOLT & NUT - M16x50mm, HEX, GALVANISED	515466	46524	6
67	NUT - M12, HEX, GALVANISED	515466	9118	A/R
66	BOLT - M12x30mm, HEX, GALVANISED	515466	46367	A/R
65	NUT - M20, HEX, GALVANISED	515466	175361	26
64	TIE - CABLE, 520x4 6mm STAINLESS STEEL		162644	A/R
63	INLAY - NEOPRENE (CUT TO SUIT)			A/R
62	CONDUIT - CORRUGATED, Ø32mm, UV STABILISED, GREY (SEE NOTE 8)			A/R
61	CONDUIT - HPVC, Ø33mm, ORANGE (SEE NOTE 8)			A/R
60	COVER - EARTHING CABLE, UPPER (ITEM 2 ON MANUFACTURING DRAWING) (SEE NOTE 6)	223073		1
59	COVER - EARTHING CABLE, LOWER (ITEM 1 ON MANUFACTURING DRAWING) (SEE NOTE 6)	223073		1
58	BRACKET - CLAMP, EARTHING CABLE (ITEM 4 ON MANUFACTURING DRAWING)	223073		A/R
57	WASHER - SPRING, M10, GALVANISED			9
56	WASHER - FLAT, M10, GALVANISED	518081	177983	18
55	LUG - COMPRESSION, COPPER, M10 HOLE (TO SUIT 70mm <sup>2</sup> CABLE) (SEE NOTE 3)		73148	3
54	BOLT & NUT - M10x50mm, HEX, GALVANISED	515466	46284	9
53	BOLT - M12x50mm, HEX, GALVANISED	515466	46361	A/R
52	LUG - COMPRESSION, M12 HOLE (TO SUIT MERCURY, 7/4.5 AAC) (SEE NOTE 3)	514053	110257	8
51	CONDUCTOR - MERCURY, 7/4.5 AAC		H13433	A/R
50	BRACKET - 132kV, SEALING END & CABLE MOUNTING (SUITS 345mmx400mm MOUNTING CENTRES)	254250		3
49	LUG - COMPRESSION, COPPER, M12 HOLE (TO SUIT 70mm <sup>2</sup> CABLE) (SEE NOTE 3)		74831	13
48	CABLE - 70mm <sup>2</sup> Cu, PVC INSULATED, BLACK		60111	A/R
47	EYE - TONGUE, 160N A.S 1154.2		183898	3
46	BRACKET - MOUNTING, SHEATH VOLTAGE LIMITER	202896		3
45	LIMITER - SHEATH, VOLTAGE, (SVL), TRIP-OD BASE, INSULATED TYPE 126x.x (REFER TO DESIGN FOR VOLTAGE RATING)			3
44	CONNECTOR - VERSACLAMP, TEE OFF, CU, TYPE RV5 (POWERLINE EQUIPMENT)			2
43	BRACKET - CABLE, COIL, FIBRE OPTIC			1
42	ENCLOSURE - SPLICE, COYOTE (CW STRAIN RELIEF & MOUNTING BRACKET)			A/R
41	CLAMP - CABLE (id Technik SERIES 'K' OR SERIES 'KR' AS REQ. BY CABLE SIZE) (SEE NOTE 7)			A/R
40	BRACKET - CLAMP, CABLE (FOR USE WITH CABLE COVER) (ITEM 5 ON MANUFACTURING DRAWING)			18
39	BRACKET - CLAMP, CABLE (ITEM 4 ON MANUFACTURING DRAWING)			A/R
38	WASHER - FLAT, STAINLESS STEEL (ITEM 3 ON MANUFACTURING DRAWING)			48
37	COVER - CABLE, UPPER (ITEM 2 ON MANUFACTURING DRAWING) (SEE NOTE 6)			3
36	COVER - CABLE, LOWER (ITEM 1 ON MANUFACTURING DRAWING) (SEE NOTE 6)			3
35	INLAY - ELASTIC (id-Technik)			A/R
34	ARRESTER - SURGE, 132kV, TYCO 3HSRCP 120L1E27M-22 (CW LINE TERMINATION FOUR HOLE PAD)	244226	152587	3
33	BRACKET - ARRESTER, 132kV, SURGE	248467		3
32	TERMINAL - BOLTED RUN (4xØ14mm HOLES, 50x50mm SPACING) (TO SUIT SEALING END STUD)			3
31	PALM - TAP, BOLTED RUN, SINGLE CONDUCTOR (4xØ14mm HOLES, 50x50mm SPACING) (TO SUIT PHASE CONDUCTOR)			3
30	TERMINAL - COMPRESSION, 30° PALM (4xØ14mm HOLES, 50x50mm SPACING) (TO SUIT PHASE CONDUCTOR) (SEE NOTE 3)			3
29	CLIP - OFFSET EARTHING (Ø22mm HOLE)	507734	H11708	8
28	CLAMP - DOWNLEAD CUSHION, FIBERLIGN (TO SUIT CONCRETE/STEEL POLE)			A/R
27	BUCKLE - STRAPPING, 19mm, STAINLESS STEEL		17772	2
26	STRAP - BAND, 19mm, STAINLESS STEEL		17721	A/R
25	ROD - M20, THREADED, GALVANISED (CUT TO REQUIRED LENGTH)			A/R
24	LUG - COMPRESSION, 300mm <sup>2</sup> , COPPER (M12 HOLE) (SEE NOTE 3)		152561	5
23	CABLE - 300mm <sup>2</sup> , 1C, Cu, PVC INSULATED		184616	A/R
22	SEALING END - 132kV, SUDKABEL TYPE EHFVC 72 5123/145/170			3
21	WASHER - SPRING, M12, GALVANISED	518082	H12047	A/R
20	WASHER - FLAT, M12, GALVANISED	518081	177982	A/R
19	BOLT & NUT - M12x50mm, HEX, GALVANISED	515466	46361	12
18	WASHER - SPRING, M20, GALVANISED	518082	175569	37
17	INSULATOR - 132kV, HORIZONTAL LINE POST (TRUNNION CLAMP END FITTING)	518081	178280	1
16	WASHER - SQUARE, 50x50mm, GALVANISED (Ø22mm HOLE)	515465	H9205	46
15	BOLT & NUT - M20, HEX, GALVANISED (LENGTH TO SUIT POLE)	515465		17
14	DEADEND - TERMINATION ASSEMBLY, FIBERLIGN (TO SUIT CONDUCTOR)			1
13	BAND - POLE, 3 BOLT (TO SUIT POLE SIZE)	507741		4
12	DEADEND - PREFORMED (TO SUIT CONDUCTOR)	514088		3
11	CLEVIS - THIMBLE, 70N, A.S 1154.2 (TO SUIT CONDUCTOR)	514132		3
10	NUT - M12, HEX, STAINLESS STEEL	515467	8667	24
9	WASHER - FLAT, M12, STAINLESS STEEL	518081	49429	64
8	WASHER - SPRING, M12, STAINLESS STEEL	518082	143859	41
7	SCREW - SET, M12x30mm, HEX, STAINLESS STEEL	515467	H38528	28
6	BOLT - M12x50mm, HEX, STAINLESS STEEL	515467	45195	12
5	BOLT - M12x75mm, HEX, GALVANISED	515466	46425	A/R
4	BOLT - M12, HEX, GALVANISED (LENGTH TO SUIT CABLE CLAMP)			3
3	INSULATOR - LONGROD, 132kV, POLYMERIC, 120N (EYE/EYE-CLEVIS FITTINGS)		178275	3
2	BAR - FLAT, 50.8x3 18mm, TINNED HD COPPER (SEE DETAIL 10)			2
1	POLE - CONCRETE (AS REQUIRED)			1

1	DATE: 18/09/2011 CORRECTED DETAIL 14 AND DETAIL 15.
2	DATE: 26/09/2017 OPTIONS ADDED TO ITEMS 22 & 51.
3	DATE: 28/11/2024 SEALING END BRACKET & CHEW MODIFIED MATERIAL LIST AMENDED.
4	DATE: 09/07/2025 EARTHING LUGS CHANGED

1	APPD by: GLENN FORD
2	DWN: P.R. CHKD: P.J.
3	DWN: PATRICIA ROS CHKD: PHILLIP JONES
4	DWN: P.R. CHKD: P.J.
5	APPD: G.F.

OPGW SPLICE BOX & COILED CABLE BRACKET MOUNTING ARRANGEMENT	565743
ASSOCIATED DRAWINGS	

NETWORK STANDARD  
**Ausgrid**

42 HONEYSUCKLE DRIVE,  
NEWCASTLE WEST NSW 2300

SCALE	NTS	STANDARD CONSTRUCTION 132kV TRANSMISSION LINE UGH TERMINATION DETAILS
DESIGNED	ADAM BRADFORD	
DRAWN	GARY HUGHES	SIZE: A1 DRAWING No: 221816
CHECKED	ADAM BRADFORD	
APPROVED	GLENN FORD	SHEET 2
DATE	21/06/2011	
PROJECT NUMBER	STD	REV 5
TRIM REF NUMBER	-	