



**TABLE 1 - ITEM 30**  
TERMINAL NUMBER FOR PALMS  
AS PER AS 62271.301

CONDUCTOR	ALUMINIUM	PLP PART No. (OR EQUIVALENT)
TRITON	5	CTA-293-35111
PLUTO	3	CTAW-188-FD712-3000
URANUS	5	CTA-293-35111

PALM ANGLE TO BE 30°

**TABLE 2**  
PHASE CONDUCTOR SURGE ARRESTER TAPPING P.G. CLAMP (OR EQUIVALENT)

PHASE CONDUCTOR	SURGE ARRESTER TAPPING	P.G. CLAMP (OR EQUIVALENT)
TRITON	PLUTO	APG-315-315-2
PLUTO	MERCURY	APG-263104-T
URANUS	PLUTO	APG-315-315-2

ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY
66	TE - CABLE, 250x7mm, BLACK, UV STABILISED, PVC (SEE NOTE 9)		179755	AR
65	COVER - CONDUCTOR, MEDIUM VOLTAGE, GREY (TO SUIT CONDUCTOR SIZE) (ITE CONNECTIVITY PART No. MVCC-G-XX00)			PURCHASE AR
64	INSULATOR - LONGROD, 33kV, DUAL CONDUCTOR, POLYMERIC STRING, ARRANGEMENT 2		150120	2
63	INSULATOR - LONGROD, 33kV, POLYMERIC STRING, ARRANGEMENT 2		158754	1
62	CROSSARM - MOUNTING ARRANGEMENT 2c (300x150x100x5mm GALVANISED STEEL CROSSARM)		514176	1
61	LUG - COMPRESSION, COPPER, DOUBLE BOLT Ø14mm HOLE (TO BE DRILLED ON SITE) (TO SUIT 185mm <sup>2</sup> Cu) (SEE NOTE 3)			1
60	INSULATOR - HORIZONTAL LINE POST, 66kV, DUAL CONDUCTOR, MOUNTING & BONDING, ARR-2		244699	1
59	INSULATOR - HORIZONTAL LINE POST, 66kV, MOUNTING & BONDING, ARR-2 (ONLY REQUIRED ON POLE HEAD TYPES 2 & 3)		514161	1
58	LUG - COMPRESSION, ALUMINIUM Ø18mm HOLE (TO SUIT TAPPING CONDUCTOR) (SEE NOTE 3)			3
57	LUG - COMPRESSION, BIMETALLIC Ø14mm HOLE (TO SUIT CABLE SCREEN) (SEE NOTE 3)			3
56	CONDUCTOR - SURGE ARRESTER TAPPING (SEE TABLE 2)			AR
55	BOLT - M12x30mm, HEX, GALVANISED		515466	46367
54	WASHER - FLAT, M12, GALVANISED		518081	177962
53	WASHER - SPRING, M12, GALVANISED		518082	H12047
52	BOLT & NUT, M10, HEX, GALVANISED (LENGTH TO SUIT POLE)		515466	8
51	BRACKET - SUPPORT, INSULATOR & SURGE ARRESTER, ITEM 1		202847	3
50	CLAMP - PARALLEL GROOVE (TO SUIT CONDUCTOR) (SEE TABLE 2)			6
49	LUG - TERMINAL, TYPE CS COPPER, D-CS28CT (PLP), TO SUIT Ø35mm STALK			3
48	LUG - COMPRESSION, COPPER, Ø14mm HOLE (TO SUIT 185mm <sup>2</sup> Cu) (SEE NOTE 3)			AR
47	CABLE - 19/2 14/70mm <sup>2</sup> COPPER, HD, PVC COVERED, BLACK		60111	AR
46	TE - CABLE, STAINLESS STEEL			AR
45	PALM - TERMINATION (TO SUIT CABAC LUGS & TYCO TORQUE CONTROLLED LUGS)		202854	3
44	LIMITER - SHEATH VOLTAGE (VOLTAGE RATING SPECIFIED BY NETWORK EARTHING)			1
43	REDUCER - CONDUIT, Ø83 TO Ø82, HD			3
42	VERSACLAMP - COPPER, TYPE RV5 (POWERLINE EQUIPMENT)			2
41	BRACKET - CABLE COIL, FIBRE OPTIC, FIBERLIGN			1
40	CASE - SPLICE ASSEMBLY, STAINLESS STEEL, COYOTE			1
39	WASHER - FLAT, STAINLESS STEEL, ITEM 3		223075	46
38	BRACKET - CABLE CLAMP AND COVER, TO SUIT K50/75 & K36/52 CLAMPS, ITEM 5		223074	18
37	BRACKET - CABLE CLAMP AND COVER, TO SUIT KR75/100 CLAMP, ITEM 5		223075	37
36	CLAMP - CABLE (ID-TECHNIK K50/75 & K36/52) (SEE NOTE 7)		235189	37
35	CLAMP - CABLE (ID-TECHNIK KR75/100) (SEE NOTE 7)		235189	3
34	BRACKET - CABLE CLAMP, TO SUIT K50/75 & K36/52 CLAMPS, ITEM 4		223074	13
33	BRACKET - CABLE CLAMP, TO SUIT KR75/100 CLAMP, ITEM 4		223075	3
32	TERMINATION - OUTDOOR, 33kV, XLPE, NON SELF SUPPORTING (TO SUIT CABLE)		202845	3
31	BRACKET - SUPPORT, CABLE		202845	3
30	INLAY - ELASTIC, ID-TECHNIK			AR
29	ARRESTER - SURGE, PEDESTAL, NON-EFFECTIVELY EARTHED SYSTEM		H32180	3
28	ARRESTER - SURGE, PEDESTAL, EFFECTIVELY EARTHED SYSTEM		H32181	3
27	INSULATOR - POLYMERIC, XLPE TYPE 18880/PT (WITH VERTICAL TRANNNON)		188445	3
26	LUG - EARTHING BOWRING, TINNED BRASS (Ø9mm HOLE)		13978	3
25	CABAC - STALK, Ø35mm, TINNED COPPER (TO SUIT CABLE SIZE)			7
24	PALM - COMPRESSION, AS SPECIFIED IN TABLE 1			3
23	CLAMP - DOWNLEAD CUSHION, FIBERLIGN (TO SUIT CONCRETE POLE)			9
22	INLAY - NEOPRENE (CUT TO SUIT)		179201	AR
21	BRACKET - EARTHING CABLE CLAMP, ITEM 4		223073	7
20	CLAMP - CABLE, UTILIX CBH08-100			AR
19	LUG - COMPRESSION, COPPER, Ø14mm HOLE (TYPE 4 TERMINAL AS PER 62771.301) (TO SUIT 185mm <sup>2</sup> Cu) (SEE NOTE 3)			2
18	CONDUCTOR - 185mm <sup>2</sup> , COPPER, PVC COVERED, BLACK		61432	AR
17	COVER - UPPER, EARTHING CABLE, ITEM 2 (SEE NOTE 6)		223073	1
16	COVER - LOWER, EARTHING CABLE, ITEM 1 (SEE NOTE 6)		223073	3
15	COVER - LOWER, CABLE PROTECTION, TO SUIT K50/75 & K36/52 CLAMPS, ITEM 1 (SEE NOTE 6)		223074	1
14	COVER - LOWER, CABLE PROTECTION, TO SUIT KR75/100 CLAMP, ITEM 1 (SEE NOTE 6)		223075	3
13	COVER - UPPER, CABLE PROTECTION, TO SUIT K50/75 & K36/52 CLAMPS, ITEM 2 (SEE NOTE 6)		223074	3
12	COVER - UPPER, CABLE PROTECTION, TO SUIT KR75/100 CLAMP, ITEM 2 (SEE NOTE 6)		223075	3
11	WASHER - FLAT, M20, GALVANISED		518081	177966
10	WASHER - SPRING, M20, GALVANISED		518082	175569
9	NUT - M20, HEX, GALVANISED		515466	175361
8	WASHER - SQUARE, 75x75x6mm (Ø22mm HOLE)		518081	H32921
7	ROD - THREADED, M20, GALVANISED (LENGTH TO SUIT POLE)			6
6	OPGW - TERMINATION, CONDUCTOR, MOUNTING, ARRANGEMENT 2B		565747	1
5	BAND - POLE, 3 BOLT (TO SUIT POLE SIZE)		507741	1
4	CONDUIT - CORRUGATED, Ø32mm, UV STABILISED, GREY (SEE NOTE 6)			AR
3	CONDUIT - HPVC, Ø83mm, ORANGE (SEE NOTE 8)			AR
2	NUT - M12, HEX, STAINLESS STEEL		515467	8987
1	WASHER - FLAT, M12, STAINLESS STEEL		518081	49429
	WASHER - SPRING, M12, STAINLESS STEEL		518082	143859
	SCREW - SET, M12x30mm, HEX, STAINLESS STEEL		515467	H38528
	BOLT - M12x65mm, HEX, STAINLESS STEEL		515467	157099
	LUG - CABAC TYPE CAL, STRAIGHT (TO SUIT CABLE) (SEE NOTE 3)			3
	LUG - TYCO, TORQUE CONTROLLED TYPE (TO SUIT CABLE) (SEE NOTE 3)			74
	BOLT - M12x150mm, HEX, STAINLESS STEEL			1
	INSULATOR - LONGROD, 33kV, DUAL CONDUCTOR, POLYMERIC STRING, ARRANGEMENT 3		250120	1
	INSULATOR - LONGROD, 33kV, POLYMERIC STRING, ARRANGEMENT 3		158754	1
	BAR - EARTH, TINNED COPPER (SEE DETAIL 9)			1
	POLE - CONCRETE (AS REQUIRED)			1

- 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.
  - QUANTITIES ARE SHOWN FOR A 23m/60K POLE. SOME QUANTITIES WILL 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.
  - TOP CABLE COVER MOUNTING BRACKET FERRULES FOR EACH CABLE COVER TO BE EARTH FERRULES IN POLE.
  - K SERIES CLEATS TO BE TIGHTENED TO 5Nm. KR SERIES CLEATS TO BE TIGHTENED TO 8Nm.
  - FOR COMPLETE COMMUNICATION REQUIREMENTS FOR SUBTRANSMISSION UG OH POLES, REFER TO DRG: 212386 SH2.
  - 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 D20/236927 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SHEET 1 & SHEET 3  
ALL THE DETAILS & MATERIAL LIST ON THIS SHEET ARE FOR TYPE 1 ONLY

NO	APPD BY	CHKD BY	DATE	DESCRIPTION
1	GLENN FORD	PATRICIA RIOS	02/09/2020	OPGW TERMINATION
2	GLENN FORD	PHILIP JONES	17/09/2020	BONDING DETAIL
3	GLENN FORD	PHILIP JONES	02/06/2020	TYPICAL BONDING ARRANGEMENT
4	GLENN FORD	PHILIP JONES	14/04/2021	OPGW COIL BRACKET DETAIL
5	GLENN FORD	PHILIP JONES	14/04/2021	OPGW COIL BRACKET DETAIL
6	GLENN FORD	PHILIP JONES	20/12/2021	OPGW COIL BRACKET DETAIL
7	GLENN FORD	PHILIP JONES	19/07/2022	OPGW COIL BRACKET DETAIL

<p><b>Associated Drawings</b></p> <ul style="list-style-type: none"> <li>OPGW CONDUCTOR SPLICE BOX AND COILED CABLE BRACKET MOUNTING ARRANGEMENT 565743</li> </ul>	<p><b>Scale</b> 1:25</p> <p><b>Designed</b> TERRY PERKINS</p> <p><b>Drawn</b> PATRICIA RIOS</p> <p><b>Checked</b> ADAM BRADFORD</p> <p><b>Approved</b> GLENN FORD</p> <p><b>Date</b> 04/11/14</p> <p><b>Project Number</b> STD</p> <p><b>Proj/Trak Number</b> -</p>	<p><b>Network Standard</b> <b>Ausgrid</b></p> <p>145 NEWCASTLE RD WALLSEND, NSW 2287</p> <p><b>Scale</b> 1:25</p> <p><b>Standard Construction</b> 33kV UG OH ON CONCRETE POLE 300mm<sup>2</sup> TO 1600mm<sup>2</sup> FLEXIBLE NON SELF SUPPORTING TERMINATION</p> <p><b>Details &amp; Material List</b></p> <p>SIZE: A1 DRAWING No: 232985 SHEET: 02 AMD: 7</p>
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