



- NOTES:**
- QUANTITIES SHOWN ARE FOR A TYPICAL UGOH 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.
 - THE POLE FERRULES FOR ATTACHING THE UPPERMOST CABLE COVER MOUNTING BRACKET FOR EACH CABLE COVER ARE TO BE EARTH FERRULES.
 - ONLY ONE ELECTRICAL CONNECTION PER BOLT PERMITTED.
 - THE CABLE CLAMPS ARE TO BE TIGHTENED TO THE MANUFACTURERS SPECIFICATIONS.
 - FOR COMPLETE COMMUNICATION REQUIREMENTS FOR SUBTRANSMISSION UGOH POLES, REFER TO DRG. 212386 SH2.
 - 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.
 - TIGHTEN PALM LUG BOLTS AS PER A.S.62271.301
 - 45Nm FOR M12
 - 90Nm FOR M16
 - 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 D20/239456 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH SHEETS 1 & 3. ALL THE DETAILS & MATERIAL LIST ON THIS SHEET ARE FOR TYPE 1 ONLY.**

ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY
67	TIE - CABLE, 250x7mm, BLACK, UV STABILISED, PVC (SEE NOTE 10)		179755	A/R
66	COVER - CONDUCTOR, MEDIUM VOLTAGE, GREY (TO SUIT CONDUCTOR SIZE) (TE CONNECTIVITY PART No. MVCC-G-XXXX)		PURCHASE	3
65	BRACKET - ADAPTER, TWIN CABLE SUPPORT	221571	179755	A/R
64	CLAMP - PARALLEL GROOVE, (TO SUIT CONDUCTOR)	514099		3
63	CONDUIT - HPVC, Ø63mm, ORANGE (SEE NOTE 7)			A/R
62	ROD - THREADED, M12, STAINLESS STEEL (LENGTH TO SUIT CABLE CLAMP)			A/R
61	CONDUIT - CORRUGATED, Ø32mm, UV STABILISED, GREY (SEE NOTE 7)			A/R
60	BRACKET - CLAMP, TWIN CABLE	221572		A/R
59	LUG - COMPRESSION, COPPER, Ø14mm HOLE (TO SUIT 70mm ² Cu) (SEE NOTE 2)			A/R
58	TIE - CABLE, STAINLESS STEEL			A/R
57	BRACKET - CABLE CLAMP, ITEM 5 (FOR USE WITH CABLE COVER)	223076		18
56	BOLT - M12x150mm, HEX., STAINLESS STEEL			12
55	VERSACLAMP - COPPER, TYPE RV5 (POWERLINE EQUIPMENT)			2
54	INSULATOR - LONGROD, 33kV, DUAL CONDUCTOR, POLYMERIC STRING, ARRANGEMENT 3	250120		1
53	INSULATOR - LONGROD, 33kV, POLYMERIC STRING, ARRANGEMENT 3	158754		1
52	INSULATOR - LONGROD, 33kV, DUAL CONDUCTOR, POLYMERIC STRING, ARRANGEMENT 2	150120		2
51	INSULATOR - LONGROD, 33kV, POLYMERIC STRING, ARRANGEMENT 2	158754		1
50	CROSSARM - MOUNTING ARRANGEMENT 2c (3000x150x100x5mm GALVANISED STEEL CROSSARM)	514176		1
49	INLAY - NEOPRENE (CUT TO SUIT)	179201	A/R	
48	INSULATOR - HORIZONTAL LINE POST, 66kV, DUAL CONDUCTOR, MOUNTING & BONDING, ARR-2 (ONLY REQUIRED ON POLE HEAD TYPES 2 & 3)	244699		1
47	INSULATOR - HORIZONTAL LINE POST, 66kV, MOUNTING & BONDING, ARR-2 (ONLY REQUIRED ON POLE HEAD TYPES 2 & 3)	514161		1
46	LUG - COMPRESSION, COPPER, DOUBLE BOLT (Ø14mm HOLE), (TO SUIT 185mm ² Cu) (SEE NOTE 2)			1
45	LUG - COMPRESSION, ALUMINIUM (Ø18mm HOLE) (TO SUIT TAPPING CONDUCTOR) (SEE NOTE 2)			3
44	CABLE - 19/2 14/70mm ² COPPER, HD, PVC COVERED, BLACK		60111	A/R
43	OPGW - TERMINATION, CONDUCTOR, MOUNTING, ARRANGEMENT 2B	565747		1
42	LUG - EARTHWIRE BONDING, TINNED BRASS (Ø28mm HOLE) (TO SUIT 185mm ² Cu) (SEE NOTE 2)	13978		7
41	LUG - COMPRESSION, COPPER, Ø14mm HOLE (TYPE 4 TERMINAL AS PER 62771-301)			2
40	CONDUCTOR - 185mm ² , COPPER, PVC COVERED, BLACK		61432	A/R
39	WASHER - SQUARE, 75x75x6mm (Ø22mm HOLE)	518081	H39231	36
38	BOLT - M12x65mm, HEX., STAINLESS STEEL (SEE NOTE 9)	515467	157099	A/R
37	BRACKET - CABLE CLAMP, ITEM 4	223076		A/R
36	CLAMP - CABLE (ID-TECHNIK K 28/36 UP TO K 66/90 AS REQUIRED) (SEE NOTE 6)		96149	A/R
35	BOLT - M12x75mm, HEX., STAINLESS STEEL	515467	H36594	A/R
34	BOLT & NUT - M20, HEX., GALVANISED (LENGTH TO SUIT POLE)	515466		10
33	BAND - POLE, 3 BOLT (TO SUIT POLE SIZE)	507741		1
32	WASHER - SPRING, M12, GALVANISED	518082	H12047	48
31	WASHER - FLAT, M12, GALVANISED	518081	177982	48
30	BOLT - M12x30mm, HEX., GALVANISED	515466	46367	48
29	CASE - SPLICE ASSEMBLY, STAINLESS STEEL, COYOTE			A/R
28	CLAMP - DOWNLEAD CUSHION, FIBERLIGN (TO SUIT CONCRETE POLE)			1
27	LUG - COMPRESSION, BI-METALLIC (Ø14mm HOLE) (TO SUIT CABLE SCREEN) (SEE NOTE 2)			6
26	COVER - UPPER CABLE PROTECTION, ITEM 2 (SEE NOTE 4)	223076		3
25	BAR - EARTH, TINNED COPPER (SEE DETAIL 9)			1
24	BRACKET - CABLE COIL, FIBRE OPTIC, FIBERLIGN			1
23	REDUCER - CONDUIT, Ø63 TO Ø32, HD			1
22	WASHER - FLAT, STAINLESS STEEL, ITEM 3	223073		48
21	PALM - TERMINATION (TO SUIT CABAC LUGS & TYCO TORQUE CONTROLLED LUGS)	202654		3
20	BRACKET - EARTHING CABLE CLAMP, ITEM 4	223073		A/R
19	COVER - UPPER, EARTHING CABLE, ITEM 2 (SEE NOTE 4)	223073		1
18	COVER - LOWER, EARTHING CABLE, ITEM 1 (SEE NOTE 4)	223073		1
17	PLATE - TERMINATION, TWIN CONNECTION	221570		3
16	INLAY - ELASTIC, ID-TECHNIK	179201	A/R	
15	NUT - M20, HEX., GALVANISED	515466	175361	24
14	WASHER - SPRINGS, M20, GALVANISED	518082	175569	A/R
13	WASHER - FLAT, M20, GALVANISED	518081	177986	A/R
12	ROD - THREADED, M20, GALVANISED (LENGTH TO SUIT POLE)			6
11	NUT - M12, HEX., STAINLESS STEEL	515467	8987	A/R
10	WASHER - SPRING, M12, STAINLESS STEEL	518082	143859	A/R
9	WASHER - FLAT, M12, STAINLESS STEEL	518081	49429	A/R
8	SCREW - SET, M12x30mm, HEX., STAINLESS STEEL	515467	H38528	A/R
7	LUG - COMPRESSION (TO SUIT CONDUCTOR) (SEE NOTE 2)			A/R
6	INSULATOR - POLYMERIC, KLINE TYPE KL69SV1 (WITH VERTICAL TRUNNION)	186445		3
5	LIMITER - SHEATH VOLTAGE (VOLTAGE RATING SPECIFIED BY NETWORK EARTHNG)			3
4	TERMINATION - OUTDOOR, 33kV, XLPE, NON SELF SUPPORTING (TO SUIT CABLE)			6
3	LUG - COMPRESSION, LONG BARREL, UTILUX, STRAIGHT (TO SUIT CABLE) (SEE NOTE 2)			6
2	ARRESTER - SURGE, PEDESTAL, NON-EFFECTIVELY EARTHED SYSTEM	H32190		3
1	ARRESTER - SURGE, PEDESTAL, EFFECTIVELY EARTHED SYSTEM	H32116		3
	BRACKET - SUPPORT, INSULATOR & SURGE ARRESTER, ITEM 1	202647		6
	BRACKET - SUPPORT, CABLE	202645		3
	COVER - LOWER, CABLE PROTECTION, ITEM 1 (SEE NOTE 4)	223076		3
	POLE - CONCRETE (AS REQUIRED)			1

NO.	DATE	BY	CHKD.	APPD.
1	20/05/2020	GLENN FORD	PATRICIA RIOS	GLENN FORD
2	17/09/2020	GLENN FORD	PATRICIA RIOS	GLENN FORD
3	14/04/2021	GLENN FORD	PATRICIA RIOS	GLENN FORD
4	19/07/2022	GLENN FORD	PATRICIA RIOS	GLENN FORD

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NETWORK STANDARD
 145 NEWCASTLE RD WALLSEND, NSW 2287

SCALE: DESIGNED NTS
 DRAWN: TERRY PERKINS
 CHECKED: PATRICIA RIOS
 APPROVED: TERRY PERKINS
 DATE: 24/07/12
 PROJECT NUMBER: STD
 PROJ TRAK NUMBER: -

STANDARD CONSTRUCTION
 33kV UGOH ON CONCRETE POLE
 300mm²-1600mm² - TWIN CABLES PER PHASE
 SCREEN EARTHED ASSEMBLY
 DETAILS & MATERIAL LIST

SIZE: A1
 DRAWING No: 229262
 SHEET: 02
 AMD: 4