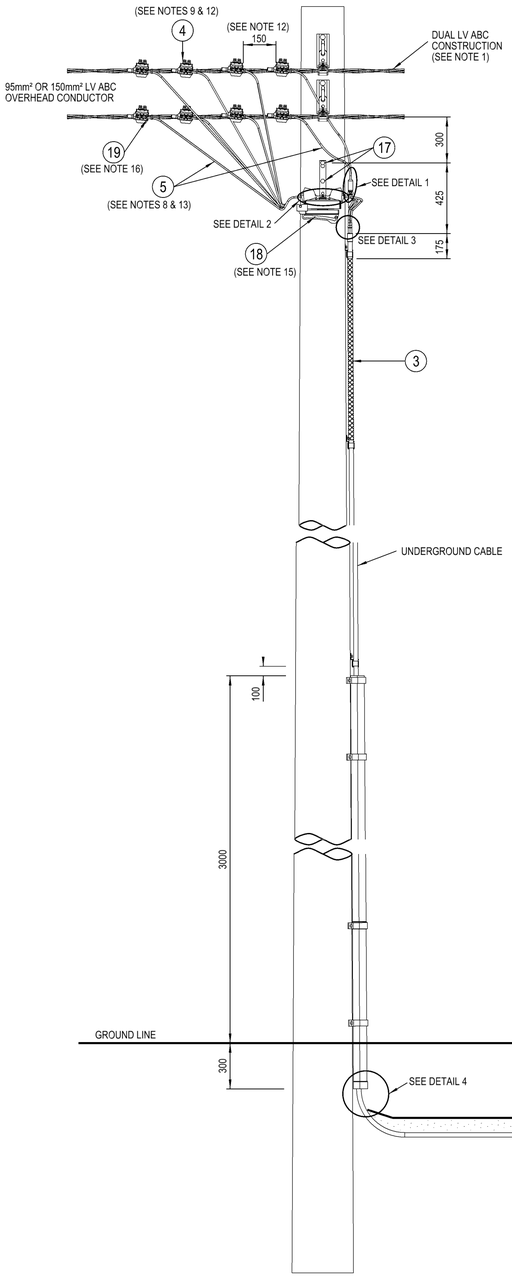
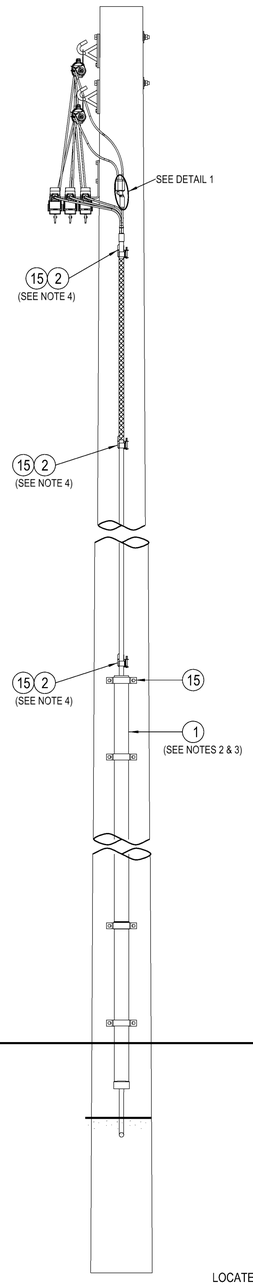
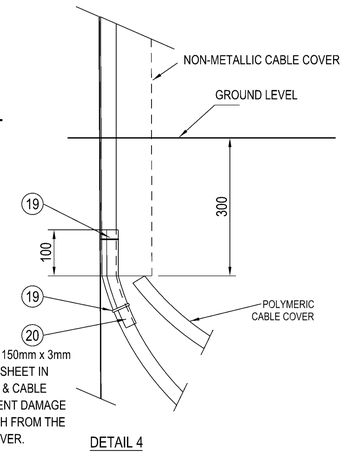


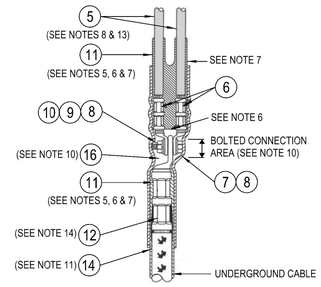




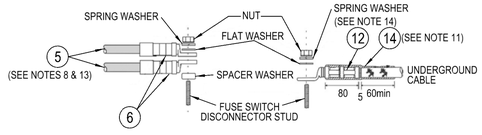
DETAIL 4

NOTES :

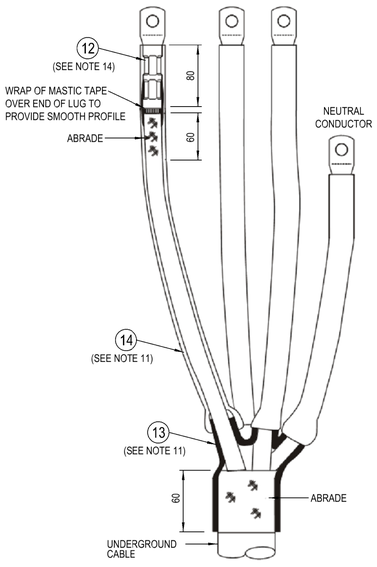
1. THE DUAL LV ABC INTERMEDIATE CONSTRUCTION HAS BEEN SHOWN FOR DIAGRAMATIC PURPOSES ONLY. THIS UGOH CONSTRUCTION CAN BE CONSTRUCTED ON ANY APPROPRIATE DUAL LV ABC STANDARD CONSTRUCTION
2. THE NON-METALLIC CABLE COVER IS TO BE INSTALLED TO A MINIMUM HEIGHT OF 3000mm ABOVE GROUND LEVEL. THE BASE OF THE CABLE COVER IS ALSO TO BE INSTALLED 300mm BELOW GROUND LEVEL. REFER TO NETWORK STANDARD NS127 FOR ADDITIONAL REQUIREMENTS REGARDING MECHANICAL PROTECTION OF UGOH CONSTRUCTIONS.
3. THE NON-METALLIC CABLE COVER KIT COMPRISES THE FOLLOWING ITEMS:
   a. 3 x U-SHAPED TYPE NON-METALLIC COVER PIECES.
   b. 2 x LARGE GALVANISED SADDLES.
   c. 4 x SMALL GALVANISED SADDLES.
   d. 1 x PRE-FIXED STAINLESS STEEL WHIPPER SNIPPER PROTECTION SHIELD.
4. THE UNDERGROUND CABLE MUST BE CLAMPED AT INTERVALS NOT EXCEEDING 1500mm.
5. THE HEATSHRINK COMPONENTS REQUIRED FOR THE BOLTED CONNECTIONS ARE PACKAGED INTO A SINGLE KIT. REFER TO ITEM 11 FOR DETAILS.
6. POSITION THE BASE OF THE TWO WAY MASTIC LINED GLOVE BODY LEVEL WITH THE INTERFACE BETWEEN THE LUG PALM AND THE LUG BARREL.
7. POSITION THE END OF THE MASTIC LINED HEATSHRINK SLEEVE WITH THE BASE OF THE MASTIC LINED GLOVE FINGERS. SHRINK THE SLEEVE STARTING AT THE GLOVE FINGERS AND WORKING TOWARDS THE FOUR CORE CABLE.
8. THE INDIVIDUAL CORES OF THE FOUR CORE LV ABC BONDING CONDUCTOR ARE TO BE SEPARATED PRIOR TO INSTALLATION.
9. INSULATION PIERCING CONNECTORS SHALL EITHER HAVE A GREASE FILLED CAP FITTED TO SEAL THE LV CABLE BOND CONDUCTOR ENDS OR THE LV CABLE BOND CONDUCTOR ENDS SHALL BE SEALED WITH A UV INHIBITED HEATSHINK CABLE CAP.
10. THE BOLTED CONNECTION AREA IS TO BE COVERED WITH FIBREGLASS TAPE TO KEEP IT FREE OF ANY ADHESIVES FLOWING FROM THE MASTIC LINED HEATSHRINK SLEEVE.
11. ABRADE THE PVC CABLE SHEATH TO THE DIMENSIONS SHOWN ON THE CABLE TERMINATION DETAIL.
12. A MINIMUM DISTANCE OF 150mm IS TO BE MAINTAINED BETWEEN INSULATION PIERCING CONNECTORS.
13. THE LV CABLE BOND CONDUCTOR IS TO BE INSTALLED WITH A LOOP AS SHOWN TO ALLOW MOISTURE TO DRAIN AWAY FROM THE CABLE CONNECTION TERMINALS.
14. THE CONDUCTOR OF THE 240 CU4 XQ Z CABLE MUST BE ROUNDED WITH ROUNDING DIES (S/C: 182051) BEFORE BEING INSERTED INTO A COMPRESSION LUG.
15. THE LV ABC FUSE SWITCH DISCONNECTOR KIT WILL COMPRISE THE FOLLOWING COMPONENTS:
   a. 3 x 400A SINGLE POLE FUSE SWITCHES.
   b. 3 x 400A CONNECTING LINKS.
   c. 1 x UNIVERSAL POLE MOUNTING BRACKET.
16. A UV RESISTANT CABLE TIE SHOULD BE USED TO MECHANICALLY CONNECT THE LV ABC BONDING CONDUCTOR TO THE LV ABC OVERHEAD CONDUCTOR WITHIN 150mm OF THE IPC.
17. REFER TO DESIGNER SAFETY REPORT D23/319873 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.



DETAIL 1
NOT TO SCALE



DETAIL 2
NOT TO SCALE



DETAIL 3
NOT TO SCALE

ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY
20	SHEET - NITRILE RUBBER, 200x150x3mm		127225	1
19	TIE - CABLE, 382x7.5mm, BLACK, UV STABILISED (SEE NOTE 16)		59907	A/R
18	DISCONNECTOR - KIT, FUSE SWITCH, LV ABC (SEE NOTES 15)		185818	1
17	SCREW - COACH, M16x100mm, GALVANISED		H40662	2
16	TAPE - FIBREGLASS (SEE NOTE 10)		69799	A/R
15	SCREW - COACH, M12x75mm, GALVANISED		50468	A/R
14	TUBE - HEATSHRINK, MASTIC LINED, MEDIUM-WALLED (4x1200mm LENGTHS) (SEE NOTE 11)		143776	4
13	GLOVE - HEATSHRINK, MASTIC LINED, 4-WAY (SEE NOTE 11)		78527	1
12	LUG - COMPRESSION, 240mm², TINNED COPPER (M12 HOLE) (TE CONNECTIVITY PART NO. UTX-H16036/1 OR ACCULEC POWER PART NO. CAL240LB-12) (SEE NOTE 14)		PURCHASE	4
11	CONNECTION - KIT, BOLTED, HEATSHRINK (SEE NOTES 5, 6 & 7)		90324	1
10	NUT - M12, HEX., STAINLESS STEEL	515467	8987	1
9	WASHER - SPRING, M12, STAINLESS STEEL	518082	143859	1
8	WASHER - FLAT, M12, STAINLESS STEEL	518081	49429	2
7	SCREW - SET, M12x35mm, STAINLESS STEEL	515467	45021	1
6	LUG - COMPRESSION, BI-METALLIC, PRE-INSULATED (FOR 150mm² LVABC)		150441	8
	LUG - COMPRESSION, BI-METALLIC, PRE-INSULATED (FOR 95mm² LVABC)		58743	
5	CONDUCTOR - 150mm² ABC, LV, 4C, ALUMINIUM, XLPE (SEE NOTES 8 & 13)		148080	A/R
	CONDUCTOR - 95mm² ABC, LV, 4C, ALUMINIUM, XLPE (SEE NOTES 8 & 13)		67959	
4	CONNECTOR - INSULATION PIERCING (95-150mm² LVABC/95-150mm² LVABC) (SEE NOTES 9 & 12)		176591	8
	CONNECTOR - INSULATION PIERCING (95mm² LVABC/95mm² LVABC) (SEE NOTES 9 & 12)		H19104	
3	CONDUIT - FLEXIBLE, 70mm, GREY, PVC		78329	1.5m
2	CLAMP - CABLE, STAINLESS STEEL BAND, ADJUSTABLE (WITH NITRILE RUBBER LINER) (SEE NOTE 4)		177651	A/R
1	COVER - CABLE, KIT, NON-METALLIC (SEE NOTES 2 & 3)		184571	1

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

CAD DRAWING DO NOT MANUALLY AMEND
AMENDMENTS

ASSOCIATED DRAWINGS

NETWORK STANDARD
Ausgrid
145 NEWCASTLE RD WALLSEND, NSW 2287

SCALE	1:20
DESIGNED	P.JONES
DRAWN	P.RIOS
CHECKED	B.WEBSTER
APPROVED	G.FORD
DATE	16/01/2025
PROJECT NUMBER	STD
PROJTRAK NUMBER	-

STANDARD CONSTRUCTION
DUAL LV ABC CONDUCTOR UGOH CONSTRUCTION
FOR 240 CU4 XQ Z CABLE
WITH FUSE SWITCH DISCONNECTOR
1-524 (LV1-49)

SIZE A1 | DRAWING No 255639 | SHEET 1 | AMD 0

20110901

255639-1.dgn 16/01/2025 2:59:00 PM