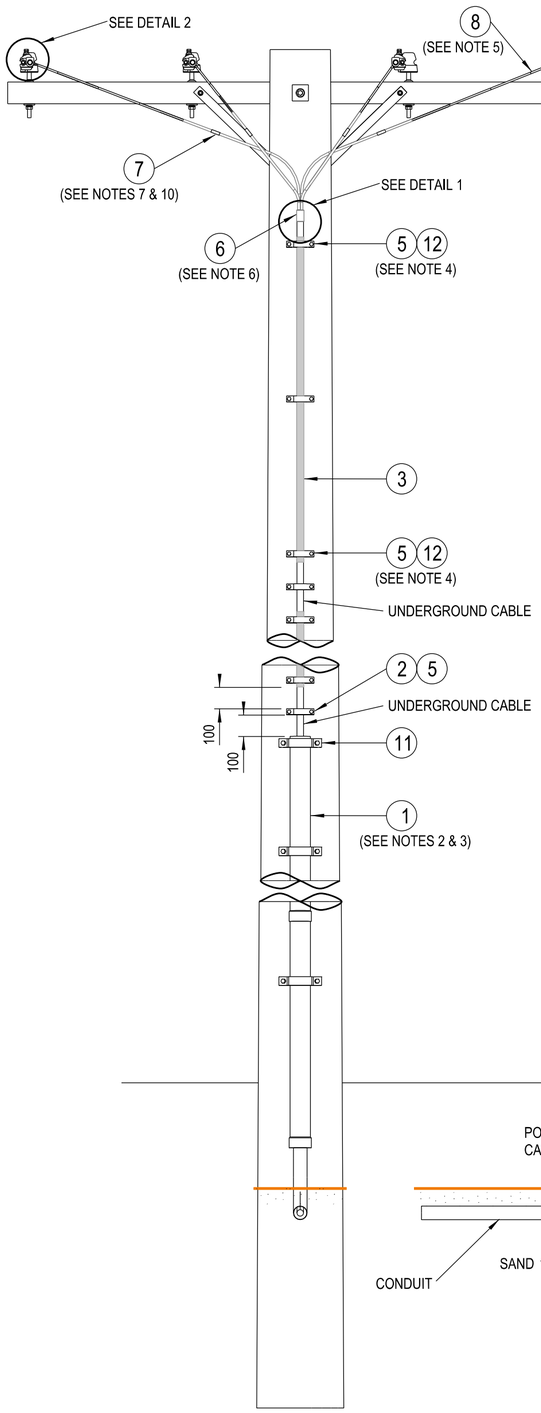
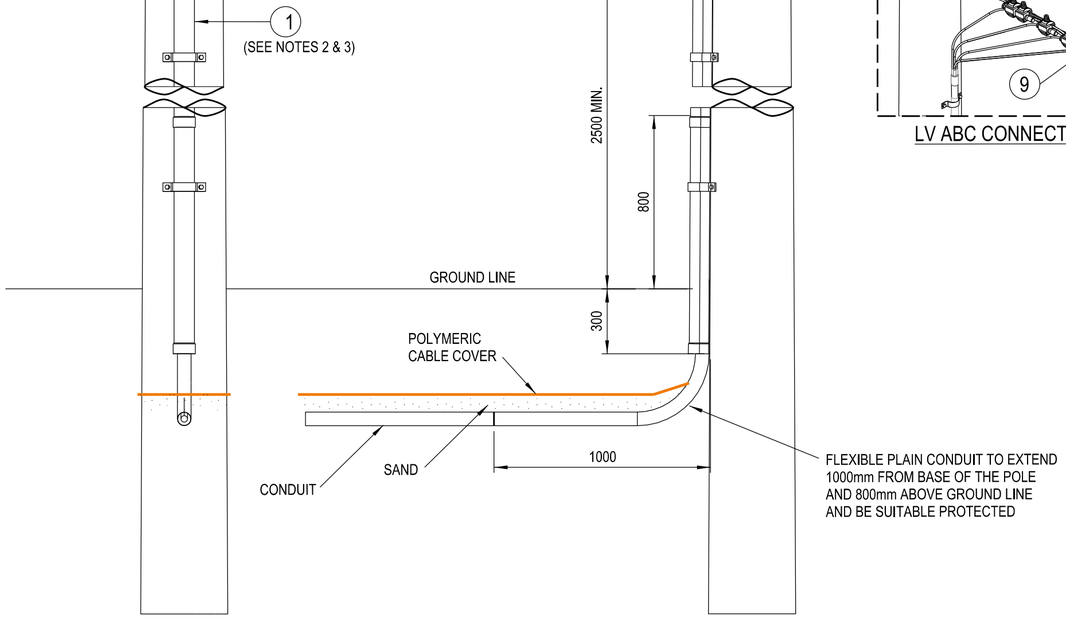
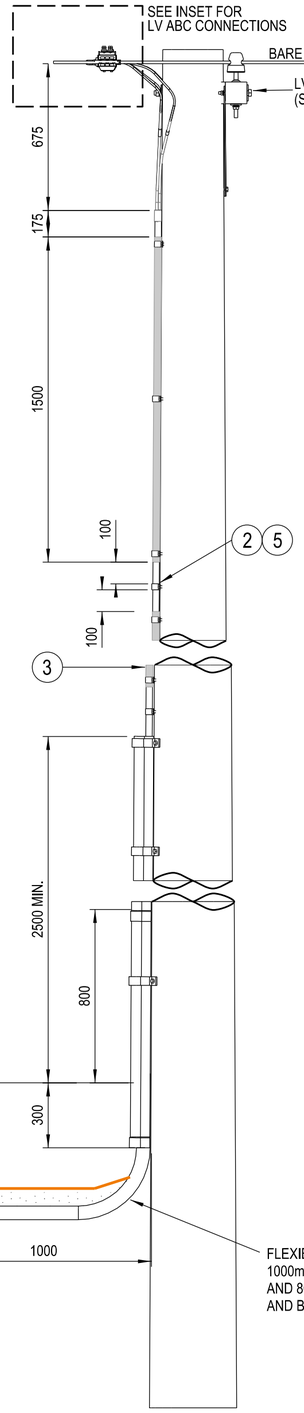
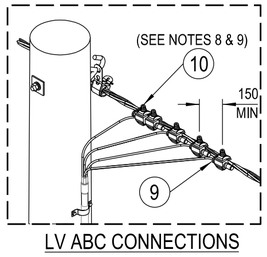
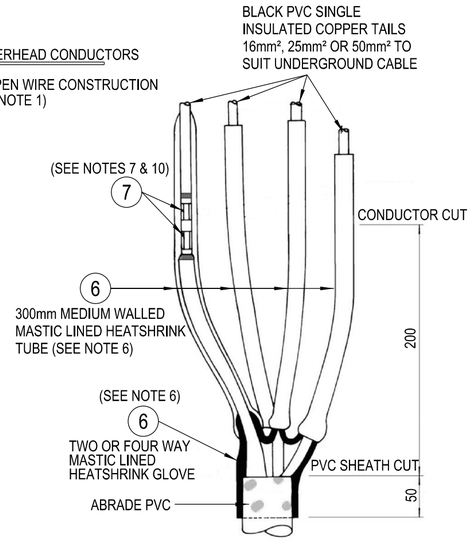








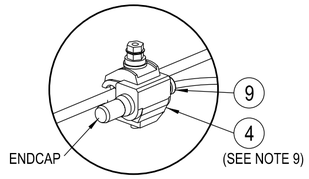
LV ABC CONNECTIONS



DETAIL 1
NOT TO SCALE
(ALSO APPLICABLE FOR TWO
CORE CABLE TERMINATION)

NOTES :

1. THE LV OPEN WIRE INTERMEDIATE CONSTRUCTION HAS BEEN SHOWN FOR DIAGRAMATIC PURPOSES ONLY. THIS MULTICORE SERVICE CABLE UGOH CONSTRUCTION CAN BE ERECTED ON ANY APPROPRIATE LV OPEN WIRE OR ABC STANDARD CONSTRUCTION.
2. THE NON-METALLIC CABLE COVER IS TO BE INSTALLED TO A MINIMUM HEIGHT OF 2500mm 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. CONDUIT SADDLES SHALL BE INSTALLED NO MORE THAN 1000mm APART.
5. THE PVC COVERED COPPER CABLE SHALL BE CIRCULAR STRANDED PLAIN ANNEALED COPPER COMPLYING WITH THE REQUIREMENTS OF AS1125. THE INSULATION SHALL BE BLACK V-90, AND BE UV STABILISED BY THE ADDITION OF A MINIMUM OF 1% CARBON BLACK. THE INSULATION THICKNESS SHALL COMPLY WITH THE REQUIREMENTS OF AS/NZ 5000.1 SECTION 6 AND BE MARKED V-90 UV.
6. ALL HEATSHRINK COMPONENTS ARE PACKAGED INTO A SINGLE TERMINATION KIT. REFER TO ITEM 6 FOR DETAILS.
7. POSITION THE COMPRESSIONS ON THE CRIMP LINKS SO AS NOT TO DEFORM THE SOLID BARRIER.
8. INSULATION PIERCING CONNECTORS SHALL EITHER HAVE A GREASE FILLED CAP FITTED TO SEAL THE SERVICE CABLE CORE ENDS OR THE SERVICE CABLE ENDS SHALL BE SEALED WITH A UV INHIBITED HEATSHINK CABLE CAP.
9. LV NETWORK SERVICE NEUTRAL CONNECTIONS SHALL INCORPORATE TWO BOLT CONNECTORS OR TWO SINGLE BOLT CONNECTORS.
10. THE 25mm² CRIMP LINK IS TO BE DIRECT PURCHASED FROM TE CONNECTIVITY (PART NO. CKB25/25) OR ACCULEC POWER (PART NO. CASB25).
11. REFER TO DESIGNER SAFETY REPORT D24/359539 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.



DETAIL 2
NOT TO SCALE

ITEM	DESCRIPTION		DRG. No	STOCK CODE	QTY
12	CLAMP - CONDUIT, GALVANISED (TO SUIT FLEXIBLE PVC CONDUIT) (SEE NOTE 4)				A/R
11	SCREW - COACH, M12 x 75mm, GALVANISED			50468	12
10	CONNECTOR - INSULATION PIERCING, LV ABC, 150mm² NEUTRAL (FOR USE WITH 50mm² 3Ø SERVICE) (SEE NOTES 8 & 9)			179845	2
	CONNECTOR - INSULATION PIERCING, LV ABC, 150mm² NEUTRAL (FOR USE WITH 16-25mm² 1 OR 3Ø SERVICES) (SEE NOTES 8 & 9)			143891	2
	CONNECTOR - INSULATION PIERCING, LV ABC, 150mm² ACTIVE (FOR USE WITH 50mm² 3Ø SERVICE) (SEE NOTE 8)			179845	3
	CONNECTOR - INSULATION PIERCING, LV ABC, 150mm² ACTIVE (FOR USE WITH 16-25mm² 3Ø SERVICE) (SEE NOTE 8)			143891	3
	CONNECTOR - INSULATION PIERCING, LV ABC, 150mm² ACTIVE (FOR USE WITH 16mm² 1Ø SERVICE) (SEE NOTE 8)			143891	1
	CONNECTOR - INSULATION PIERCING, LV ABC, 95mm² NEUTRAL (FOR USE WITH 50mm² 3Ø SERVICE) (SEE NOTES 8 & 9)			179843	2
	CONNECTOR - INSULATION PIERCING, LV ABC, 95mm² NEUTRAL (FOR USE WITH 16-25mm² 1 OR 3Ø SERVICES) (SEE NOTES 8 & 9)			73593	2
	CONNECTOR - INSULATION PIERCING, LV ABC, 95mm² ACTIVE (FOR USE WITH 50mm² 3Ø SERVICE) (SEE NOTE 8)			179843	3
	CONNECTOR - INSULATION PIERCING, LV ABC, 95mm² ACTIVE (FOR USE WITH 16-25mm² 3Ø SERVICE) (SEE NOTE 8)			73593	3
	CONNECTOR - INSULATION PIERCING, LV ABC, 95mm² ACTIVE (FOR USE WITH 16mm² 1Ø SERVICE) (SEE NOTE 8)			73593	1
9	TIE - CABLE, 370 x 7.6mm, BLACK, UV STABILISED, PVC			179755	A/R
8	CABLE - 50mm², CU, PVC INSULATED, BLACK, UV STABILISED (SEE NOTE 5)			H14594	A/R
	CABLE - 25mm², CU, PVC INSULATED, BLACK, UV STABILISED (SEE NOTE 5)			H14536	
	CABLE - 16mm², CU, PVC INSULATED, BLACK, UV STABILISED (SEE NOTE 5)			179762	
7	LINK - CRIMP (WITH SOLID BARRIER) (FOR USE WITH 50mm² 3Ø SERVICE) (SEE NOTE 7)			57174	4
	LINK - CRIMP (WITH SOLID BARRIER) (FOR USE WITH 25mm² 3Ø SERVICE) (SEE NOTES 7 & 10)				4
	LINK - CRIMP (WITH SOLID BARRIER) (FOR USE WITH 16mm² 3Ø SERVICE) (SEE NOTE 7)			90092	4
	LINK - CRIMP (WITH SOLID BARRIER) (FOR USE WITH 16mm² 1Ø SERVICE) (SEE NOTE 7)			90092	2
6	TERMINATION - HEATSHRINK, KIT (FOR USE WITH 50mm² 3Ø SERVICE) (SEE NOTE 6)			74229	1
	TERMINATION - HEATSHRINK, KIT (FOR USE WITH 16-25mm² 3Ø SERVICE) (SEE NOTE 6)			74104	
	TERMINATION - HEATSHRINK, KIT (FOR USE WITH 16mm² 1Ø SERVICE) (SEE NOTE 6)			186769	
5	SCREW - TYPE 17, 12gx45mm, SELF DRILLING, TIMBER, GALVANISED			175567	A/R
4	CONNECTOR - TEE-OFF (BARE CU NEUTRAL OH CONDUCTOR 7-100mm² TO SERVICE CABLE) (FOR USE WITH 50mm² 3Ø SERVICE) (SEE NOTE 9)			176580	2
	CONNECTOR - TEE-OFF (BARE CU NEUTRAL OH CONDUCTOR 7-100mm² TO SERVICE CABLE) (FOR USE WITH 16-25mm² 1 OR 3Ø SERVICES) (SEE NOTE 9)			182905	1
	CONNECTOR - TEE-OFF (BARE CU ACTIVE OH CONDUCTOR 7-100mm² TO SERVICE CABLE) (FOR USE WITH 50mm² 3Ø SERVICE)			176580	3
	CONNECTOR - TEE-OFF (BARE CU ACTIVE OH CONDUCTOR 7-100mm² TO SERVICE CABLE) (FOR USE WITH 16-25mm² 3Ø SERVICE)			H109694	3
	CONNECTOR - TEE-OFF (BARE CU ACTIVE OH CONDUCTOR 7-100mm² TO SERVICE CABLE) (FOR USE WITH 16mm² 1Ø SERVICE)			H109694	1
	CONNECTOR - TEE-OFF (BARE AL NEUTRAL OH CONDUCTOR 25-210mm² TO SERVICE CABLE) (FOR USE WITH 16-25mm² 1 OR 3Ø SERVICES) (SEE NOTE 9)			182904	1
	CONNECTOR - TEE-OFF (BARE AL ACTIVE OH CONDUCTOR 25-210mm² TO SERVICE CABLE) (FOR USE WITH 16-25mm² 3Ø SERVICE)			175051	3
	CONNECTOR - TEE-OFF (BARE AL ACTIVE OH CONDUCTOR 25-210mm² TO SERVICE CABLE) (FOR USE WITH 16mm² 1Ø SERVICE)			175051	1
3	CONDUIT - FLEXIBLE, GREY, PVC (SIZE TO SUIT SERVICE CABLE)				A/R
2	CLAMP - CABLE, GALVANISED, (WITH MINIMUM 3mm NITRILE RUBBER LINER) (TO SUIT SERVICE CABLE)				A/R
1	COVER - CABLE, KIT, NON-METALLIC (SEE NOTES 2 & 3)			184570	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	NET-STD
PROJTRAK NUMBER	-

STANDARD CONSTRUCTION
LV OVERHEAD CONDUCTOR
MULTICORE SERVICE CABLE UGOH CONSTRUCTION
1-500 (LV1-14)

SIZE A2 | DRAWING No 255623 | SHEET 1 | AMD 0

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