



- NOTES :
1. THE LV OPEN WIRE INTERMEDIATE CONSTRUCTION HAS BEEN SHOWN FOR DIAGRAMATIC PURPOSES ONLY. THIS UGOH CONSTRUCTION CAN BE CONSTRUCTED ON ANY APPROPRIATE LV OPEN WIRE STANDARD CONSTRUCTION.
 2. THIS CONSTRUCTION ARRANGEMENT IS TO BE USED WHERE THERE IS A HIGH LIKELIHOOD THAT THE BARE OVERHEAD CONDUCTORS WILL BE UPGRADED TO LV ABC.
 3. THE NON-METALLIC CABLE COVER IS TO BE INSTALLED TO A MINIMUM HEIGHT OF 300mm 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.
 4. 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.
 5. THE UNDERGROUND CABLE MUST BE CLAMPED AT INTERVALS NOT EXCEEDING 1500mm.
 6. THE HEATSHRINK COMPONENTS REQUIRED FOR THE BOLTED CONNECTIONS ARE PACKAGED INTO A SINGLE KIT. REFER TO ITEM 11 FOR DETAILS.
 7. POSITION THE BASE OF THE TWO WAY MASTIC LINED GLOVE BODY LEVEL WITH THE INTERFACE BETWEEN THE LUG PALM AND THE LUG BARREL.
 8. 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.
 9. THE HEATSHRINK COMPONENTS REQUIRED FOR THE MULTICORE CABLE TERMINATION ARE PACKAGED AS A SINGLE KIT. REFER TO ITEM 13 FOR DETAILS.
 10. THE INDIVIDUAL CORES OF THE FOUR CORE LV ABC BONDING CONDUCTOR ARE TO BE SEPARATED PRIOR TO INSTALLATION.
 11. ENSURE THE LV ABC BONDING CONDUCTORS ARE LONG ENOUGH TO ALLOW THEM TO BE TRANSFERRED TO ANY DUAL LV ABC CONSTRUCTION IN THE FUTURE.
 12. IF THE BARE OVERHEAD CONDUCTORS ARE A DOUBLE CIRCUIT, THEN CONNECT ONE SET OF LV ABC BONDING CONDUCTORS TO EACH CIRCUIT. REFER TO DRG: 255629 FOR GENERAL ARRANGEMENT.
 13. 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.
 14. 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.
 15. ABRABE THE PVC CABLE SHEATH TO THE DIMENSIONS SHOWN ON THE CABLE TERMINATION DETAIL.
 16. 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.
 17. THE LV ABC FUSE SWITCH DISCONNECTOR SHOULD BE INSTALLED SO THAT IT IS IN THE CORRECT POSITION WHEN THE BARE CONDUCTORS ARE REPLACED WITH DUAL LV ABC. THE SPECIFIED DIMENSION OF 600mm ASSUMES THE LOWER LV ABC CIRCUIT WILL BE INSTALLED 300mm BELOW THE KING BOLT OF THE CROSSARM, WHICH IS THEN 300mm ABOVE THE LV ABC FUSE SWITCH DISCONNECTOR TOP MOUNTING BOLT.
 18. 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.
 19. A UV RESISTANT CABLE TIE SHOULD BE USED TO MECHANICALLY CONNECT THE LV ABC BONDING CONDUCTOR TO THE BARE OVERHEAD CONDUCTOR WITHIN 150mm OF THE I.P.C.
 20. REFER TO DESIGNER SAFETY REPORT D23/315953 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

23	SHEET - NITRILE RUBBER, 200x150x3mm		127225	1
22	TIE - CABLE, 382x7 5mm, BLACK, UV STABILISED (SEE NOTE 19)		59907	10
21	DISCONNECTOR - KIT, FUSE SWITCH, LV ABC (SEE NOTES 17 & 18)		185818	1
20	SCREW - COACH, M16x100mm, GALVANISED		H40662	2
19	TAPE - FIBREGLASS (SEE NOTE 14)		69799	A/R
18	SCREW - COACH, M12x75mm, GALVANISED		50468	A/R
17	LINK - COMPRESSION, BI-METALLIC, 300mm²		186233	3
	LINK - COMPRESSION, BI-METALLIC, 240mm²		141804	
16	LUG - COMPRESSION, TINNED COPPER, 150mm² (M12 HOLE IN PALM)		179773	3
15	CABLE - 150mm², CU, PVC INSULATED, BLACK, UV STABILISED (SEE NOTE 15)		61408	A/R
14	SLEEVE - HEATSHRINK, MASTIC LINED (CUT TO 3x150mm LENGTHS)		60186	1
13	TERMINATION - KIT, HEATSHRINK (FOR USE WITH 240mm² OR 300mm² CABLE) (SEE NOTE 9)		60079	1
12	LUG - COMPRESSION, BI-METALLIC, 300mm²		186234	1
	LUG - COMPRESSION, BI-METALLIC, 240mm²		141770	
11	CONNECTION - KIT, BOLTED, HEATSHRINK (SEE NOTES 6, 7 & 8)		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 95mm² LVABC)		58743	8
5	CONDUCTOR - 95mm² ABC, LV, 4C, ALUMINIUM, XLPE (SEE NOTES 10, 11, 12 & 16)		67959	A/R
4	CONNECTOR - INSULATION PIERCING (95 LVABC/7-120mm² BARE COPPER CONDUCTOR) (SEE NOTE 13)		176580	8
	CONNECTOR - INSULATION PIERCING (95-150mm² LVABC/50-150mm² BARE COPPER CONDUCTOR) (SEE NOTE 13)		148387	
	CONNECTOR - INSULATION PIERCING (95-150mm² LVABC/50-240mm² BARE ALUMINIUM CONDUCTOR) (SEE NOTE 13)		73569	
3	CONDUIT - FLEXIBLE, 70mm, GREY, PVC		78329	1.5m
2	CLAMP - CABLE, STAINLESS STEEL BAND, ADJUSTABLE (WITH NITRILE RUBBER LINER) (SEE NOTE 5)		177851	A/R
1	COVER - CABLE, KIT, NON-METALLIC (SEE NOTES 3 & 4)		184571	1
ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY



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
PROJ TRAK NUMBER	-

STANDARD CONSTRUCTION			
BARE LV OVERHEAD CONDUCTOR UGOH CONSTRUCTION			
FOR 240 OR 300 AL4 XQ Z/SAC CABLE			
WITH FUSE SWITCH DISCONNECTOR			
1-503 (LV1-5)			
SIZE	DRAWING No	SHEET	AMD
A1	255626	1	0