



JOINT INSTALLATION INSTRUCTIONS

1. COMPONENTS TO COMPLETE A CABLE JOINT ARE -
 - i) CABLE JOINT KIT (DRG. No. S2-1-2-3)
 - ii) JOINT BOX AND COMPRESSION LINK (DRG. No. S2-2-2-17)
 - iii) CABLE JOINTING GROUT (STOCK CODE 11056)
2. PREPARE CABLE FOR JOINTING TO STRIP-BACK LENGTHS SHOWN ON DRG. No. S2-2-2-15.
3. CLEAN ONE CABLE END OR SLIDE THE PLASTIC BAG OVER IT TO KEEP THE TUBING SET CLEAN. SLIDE THE TUBING SET, INCLUDING ORANGE CONDUIT AND ONE END CAP OVER THE CABLE. SLIDE OTHER END CAP OVER OTHER CABLE END.
4. JOINT THE CONDUCTORS BY CRIMPING ALONG LENGTH OF LINK. REMOVE ANY SHARP EDGES. CLEAN AND DEGREASE THE INSULATION. REMOVE THE RELEASE PAPERS FROM THE SHORT LENGTH OF VOID FILLING STRIP (YELLOW) WITH THE POINTED END. WRAP IT AROUND THE END OF THE SEMI-CONDUCTING SCREEN STARTING 20mm FROM THE END OF THE SCREEN AND CONTINUE ONTO THE INSULATION FOR 10mm. STRETCH THE STRIP TO HALF ITS ORIGINAL WIDTH TO ACHIEVE A FINE, THIN EDGE ONTO THE INSULATION.
5. REMOVE ONE RELEASE PAPER FROM THE VOID FILLING TAPE AND ROLL IT UP. WRAP IT AROUND THE CONDUCTOR WITH 50% OVERLAP STRETCHING IT TO ABOUT HALF ITS ORIGINAL WIDTH. FILL UP THE CONNECTOR AREA CONTINUING ONTO THE INSULATION FOR NOT MORE THAN 5mm. DO NOT USE TOO MUCH VOID FILLING TAPE. THE FINAL DIAMETER SHOULD BE ONLY SLIGHTLY GREATER THAN THE CORE OR CONNECTOR DIAMETER, WHICHEVER IS LARGER.
6. PULL THE STRESS CONTROL TUBING FROM THE INSIDE OF THE TUBING SET AND POSITION IT CENTRALLY OVER THE CONDUCTOR. START SHRINKING IN THE CENTRE WORKING TOWARDS THE ENDS. THE TUBING SHOULD BE FULLY SHRUNK AND WRINKLE FREE.
7. POSITION THE SCREENED INSULATING SLEEVE CENTRALLY OVER THE HOT STRESS CONTROL TUBING. START SHRINKING IN THE CENTRE WORKING TOWARDS ONE END AND STOPPING ABOUT 50mm FROM THE END. SHRINK THE OTHER HALF OF THE SLEEVE IN THE SAME WAY. THEN SHRINK DOWN THE FIRST END AND FINALLY THE SECOND.
8. WRAP TWO LAYERS OF COPPER BRAID AROUND THE JOINT WITH A 50% OVERLAP SO THAT THE WHOLE JOINT AREA IS COVERED. JOINT THE EARTH CONDUCTOR BY CRIMPING ALONG LENGTH OF LINK. REMOVE ONE RELEASE PAPER FROM ONE OF THE BLACK PROFILING MASTIC STRIPS, AND ROLL IT UP ON THE REMAINING RELEASE PAPER. WRAP THE MASTIC OVER THE END OF THE SHRUNK TUBING, CONTINUING ON TO THE CABLE SHEATH NOT MORE THAN 10mm, LEAVING A SMOOTH RAMP PROFILE. REPEAT OVER THE OPPOSITE END. USE THE REMAINING MASTIC TO LEAVE A SMOOTH PROFILE OVER THE SCREEN WIRE CONNECTOR.
9. CLEAN AND DEGREASE THE ENDS OF THE OVERSHEATH FOR A LENGTH OF ABOUT 150mm. CENTRE THE OUTER SEALING SLEEVE OVER THE JOINT AREA. START SHRINKING IN THE CENTRE WORKING TOWARDS THE ENDS.
10. CENTRE CONDUIT OVER COMPLETED JOINT AND GLUE ON END CAPS AROUND CABLE. MIX UP SUFFICIENT CABLE JOINTING GROUT TO FILL CONDUIT, USING ENOUGH WATER TO MAKE A SLOPPY MIX AND POUR IN SLOWLY, MAKING SURE IT COMPLETELY FILLS THE JOINT BOX AND LEAVES NO VOIDS.
11. JOINT COMPLETED - ALLOW TO COOL AND SET BEFORE APPLYING MECHANICAL STRAIN.

1	INSTRUCTIONS MODIFIED. DRAWING REVISED TO SUIT.	gmck	N.S.	B.T.K.	APR'93		DES	-	N.T. STANDARD DRAWING CABLE JOINTING AND TERMINATIONS RAYCHEM JOINTING INSTRUCTIONS 11/22kV XLPE		
							DRN	pmc			
No.	AMENDMENT	DRN	CKD	APPD	DATE	NORTHERN TERRITORY	APPD	B.T.KENT	A3	DRAWING NUMBER	S2-2-2-16
							SCALE	n.t.s.			
							ISSUED	APRIL '91			
							ALL DIM. IN	mm			
							DRAFTING STANDARD TO AS 1100		CAD PRODUCT — DO NOT AMEND MANUALLY		AMDT