QT III COLDSHRINK TERMINATION FOR OUTDOOR APPLICATION 94-EP612-2 to 94-EP642-2

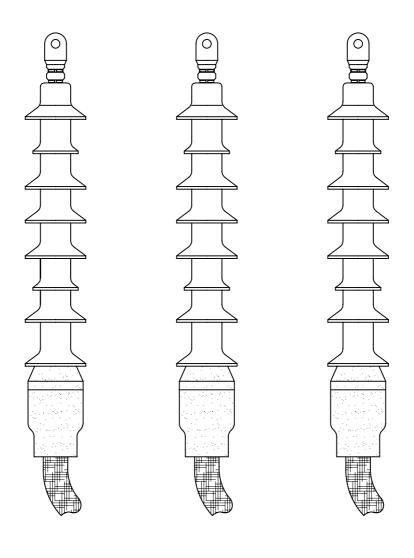
FOR SINGLE CORE POLYMERIC INSULATED COPPER TAPE SCREENED, ALUMINIUM WIRE ARMOURED CABLE, AND/OR LEAD SHEATHED CABLE, WITH OR WITHOUT A COPPER TAPE SCREEN, 19/33kV

3M U.K. PLC. @ 3M CENTRE, CAIN ROAD BERKS. RG12 8HT,	, BRACKNELL	2 1 ISSUE	LATEST REQUIREMENT. RELEASED. DESCRIPTION / ECO	ERH ADP BY	06.11.06 04.11.03 DATE	
ALL STATEMENTS, TECHNICAL INFORMATION AND R BASED ON TESTS WE BELIEVE TO BE RELIABLE. H AND THE APPLICATION ARE BEYOND OUR CONTRO PERFORMANCE OF THE SPLICES AND TERMINATION DATA OR SUGGESTIONS STATED HEREIN.	94-EP612-2 TO 94	COLDSHRINK TERM. FOR OUTDOORS 94-EP612-2 TO 94-EP642-2 FOR SINGLE CORE POLYMERIC AI.				
MOD ENG :	DES.ENG. : A.RUSSELL			WIRE ARMOURED CABLE AND/OR LEAD SHEATHED CABLE		
DRAWN : A. PARKER	CHECKED :					
CAD FILE: XE-0091-2908-3	RELEASED :		LEAD SHEATHED			

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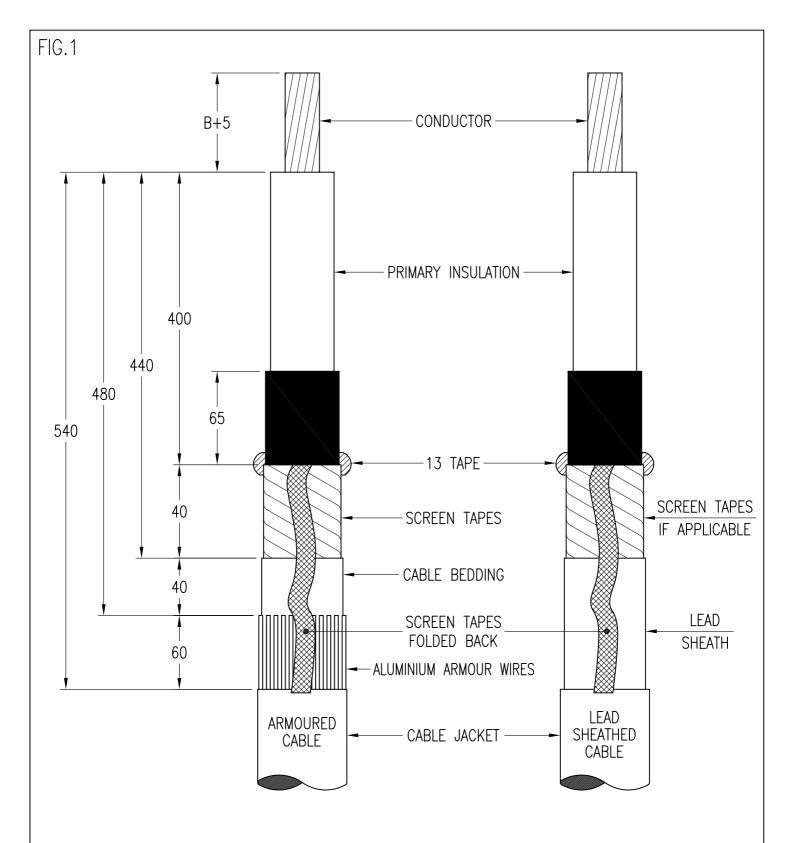
ELECTRICAL PRODUCTS



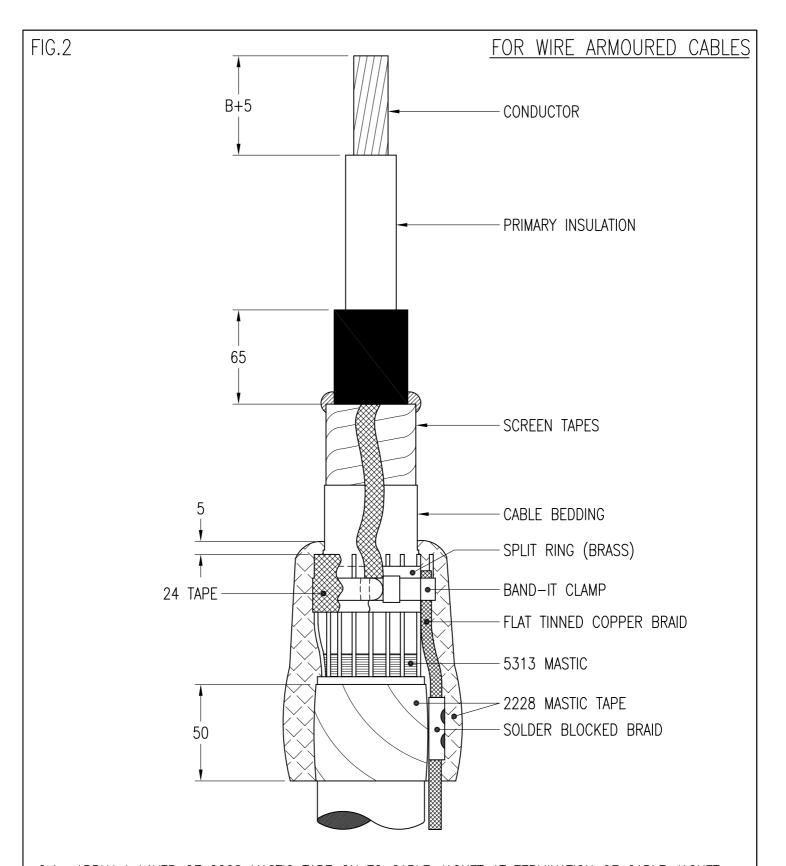
KIT REF.	94-EP612-2	94-EP622-2	94-EP632-2	94-EP642-2
PRODUCT No.	R-8S	S-8S	T-8S	U-8S
CROSS SECTION (mm.²)	50-120	70-240	185-400	400-630
DIAMETER OVER PRIMARY INSULATION D (mm.)	18.3-32.8	21.1-38.9	26.7-45.7	38.9-58.9
DIAMETER OVER CABLE JACKET K (mm.)	26.3-40.7	28.4-47.5	35.3-61.0	46.8-71.1

IMPORTANT NOTICE

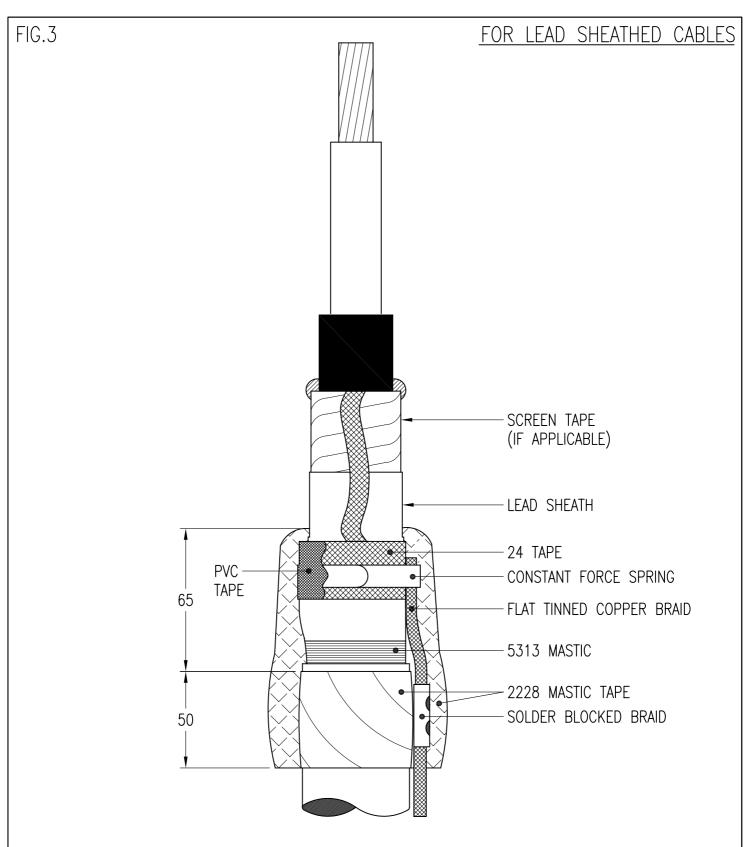
CROSS SECTIONAL AREA IS STATED AS A GUIDE ONLY. PLEASE SELECT THE KIT BASED UPON THE PRIMARY INSULATION DIAMETER OF THE CABLE, ALSO TAKING INTO ACCOUNT THE CHOSEN CONNECTOR OR LUG DIMENSIONS.



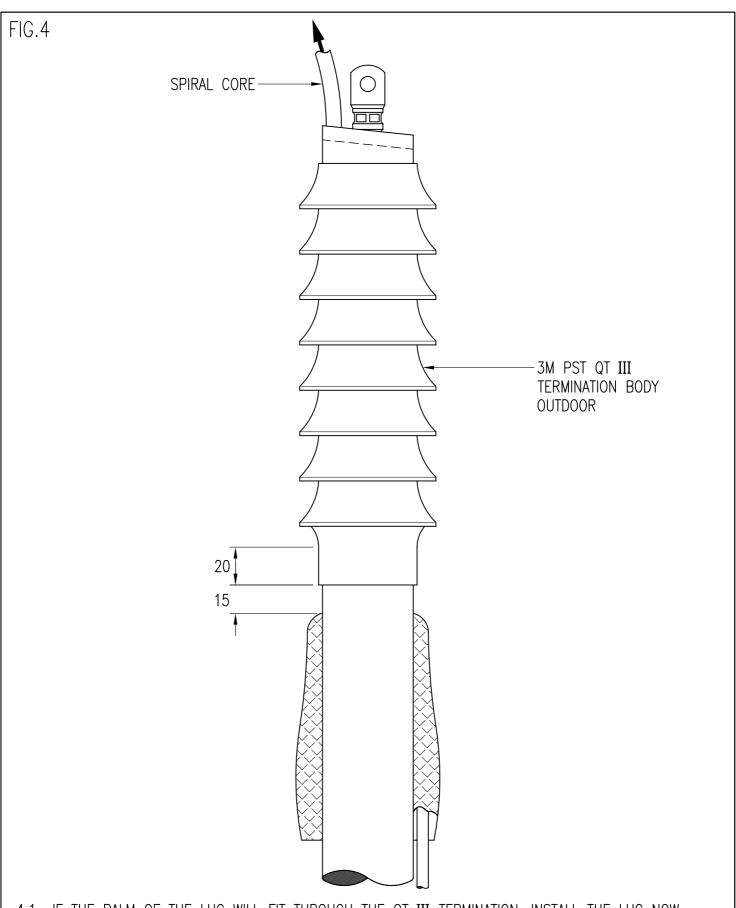
- 1.1 THOROUGHLY CLEAN CABLE JACKET FOR A DISTANCE OF 800mm FROM THE END OF THE CABLE, TO REMOVE ANY GRAPHITE COATING.
- 1.2 REMOVE THE CABLE JACKET AS ABOVE, (B = INTERNAL DEPTH OF LUG BARREL).
- 1.3 PREPARE CABLE AS PER DIMENSIONS ABOVE.
- 1.4 UNWIND THE COPPER TAPE (IF APPLICABLE) LEAVING 40mm IN FRONT OF THE CABLE BEDDING/ LEAD SHEATH, AND ENSURE A SMOOTH PROFILE.
- 1.5 BIND END OF COPPER TAPE SCREEN WITH 2 HALF LAPPED LAYERS OF HIGHLY STRETCHED No.13 TAPE.
- 1.6 REMOVE THE SEMI-CON OUTER CABLE SCREEN, LEAVING 65mm IN FRONT OF THE COPPER TAPE SCREEN.
- 1.7 REMOVE THE PRIMARY INSULATION FOR B+5mm, (B = DEPTH OF LUG BARREL)



- 2.1 APPLY A LAYER OF 2228 MASTIC TAPE ON TO CABLE JACKET AT TERMINATION OF CABLE JACKET.
- 2.2 LIFT ALUMINIUM WIRES UP AND INSTALL A LAYER OF 5313 MASTIC BELOW ARMOURS.
- 2.3 INSTALL SPLIT RING UNDER WIRE ARMOURS.
- 2.4 OVERTAPE ARMOURS AND SUPPORT RINGS WITH 2 LAYERS OF No. 24 TAPE.
- 2.5 LAY COPPER TAPE SCREEN ON TO No. 24 TAPE, OVER SUPPORT RING AND CUT TO LENGTH.
- 2.6 LAY SOLDER BLOCKED BRAID UP ON TO ARMOURS AND CONNECT BRAID TO WIRE ARMOURS AND SCREEN TAPE USING BAND-IT CLAMP. POSITION SOLDER BLOCK ON 2228 TAPE AND TRIM ANY EXTRA BRAID IN LINE WITH END OF ARMOURS.
- 2.7 OVERTAPE ARMOUR AREA WITH ANOTHER HALF LAPPED LAYER OF 2228 TAPE. OVERLAP ON TO CABLE BEDDING BY 5mm.



- 3.1 APPLY A LAYER OF 2228 MASTIC TAPE ON TO CABLE JACKET AT TERMINATION OF CABLE JACKET.
- 3.2 INSTALL A LAYER OF 5313 MASTIC TAPE ON TO THE LEAD SHEATH, AT THE END OF THE CABLE JACKET.
- 3.3 5mm BEYOND THE 5313 MASTIC, WRAP 3 LAYERS OF 24 TAPE ON TO THE LEAD SHEATH.
- 3.4 ATTACH THE COPPER SCREEN TAPE (IF APPLICABLE) AND THE FLAT TINNED COPPER BRAID BY MEANS OF A CONSTANT FORCE SPRING APPLIED DIRECT ON THE BEDDING OF SCOTCH 24 TAPE.
- 3.5 TIGHTEN SPRING AND OVERTAPE WITH HIGHLY STRETCHED PVC TAPE, APPLIED IN THE SAME DIRECTION AS THE SPRING.
- 3.6 OVERTAPE THE AREA WITH ANOTHER HALF LAPPED LAYER OF 2228 TAPE, COMMENCING 50mm OVER THE EXISTING 2228 TAPE, ON THE CABLE JACKET FOR A FURTHER 65mm AS PER FIG.3.



- 4.1 IF THE PALM OF THE LUG WILL FIT THROUGH THE QT **III** TERMINATION, INSTALL THE LUG NOW, CLEAN AND DEGREASE, AND CONTINUE THE INSTALLATION, LEAVING OUT INSTRUCTION 4.4, IF NOT, FOLLOW ALL INSTALLATION INSTRUCTIONS.
- 4.2 REMOVE RED SHIPPING CORE FROM THE QT III TERMINATION.
- 4.3 SLIDE THE TERMINATION OVER THE CABLE END.
- 4.4 INSTALL THE LUG, CLEAN AND DEGREASE.
- 4.5 INSTALL QT III AT A POINT 20mm ON TO THE CABLE BEDDING.

FIG.5 -3M PST QT III TERMINATION BODY - SILICONE PST.

- 5.1 INSTALL SILICONE PST, COMMENCE SHRINKING 30mm ON TO THE QT III BODY.
- 5.2 CAREFULLY TRIM OFF ANY EXCESS PST FROM THE BOTTOM OF THE TERMINATION IF REQUIRED. ENSURE THE PST COVERS THE 2228 TAPE.

FIG.6 -3M PST QT III TERMINATION BODY - GROUNDING CLIP DRAIN WIRE --SILICONE PST 6.1 INSTALL GROUNDING CLIP AND CONNECT DRAIN WIRE. ELECTRICAL PRODUCTS SHEET 8 OF 8 XE 0091 2908 3 ISS. 2