3M QUICK SPLICE 1000

11kV INLINE TRIFURCATING COLDSHRINK JOINT FOR POLYMERIC 3 CORE CABLE WITH COPPER TAPE SCREEN AND SWA TO 3 SINGLE CORE CABLES 70 TO 240mm² 92 MV (UK)

Kit No.	Diameter over Primary Insulation [E] MM	Cross Section (mm²)	Diameter over Connection (MM)	Connector Length Max (mm)
92-MV610-3	17.7 - 26.0	50 - 95	14.2 - 26.0	135
92-MV620-3	22.3 - 33.2	120 - 185	18.0 - 33.2	145

TECHNICAL CENTRE. EASTHAMPSTEAD Rd,
BRACKNELL, BERKS. RG12 1JE. ENGLAND

ISSUE	DESCRIPTION / ECO	BY	DATE
1	RELEASED	ADP	24.06.02

INSTALLATION INSTRUCTIONS

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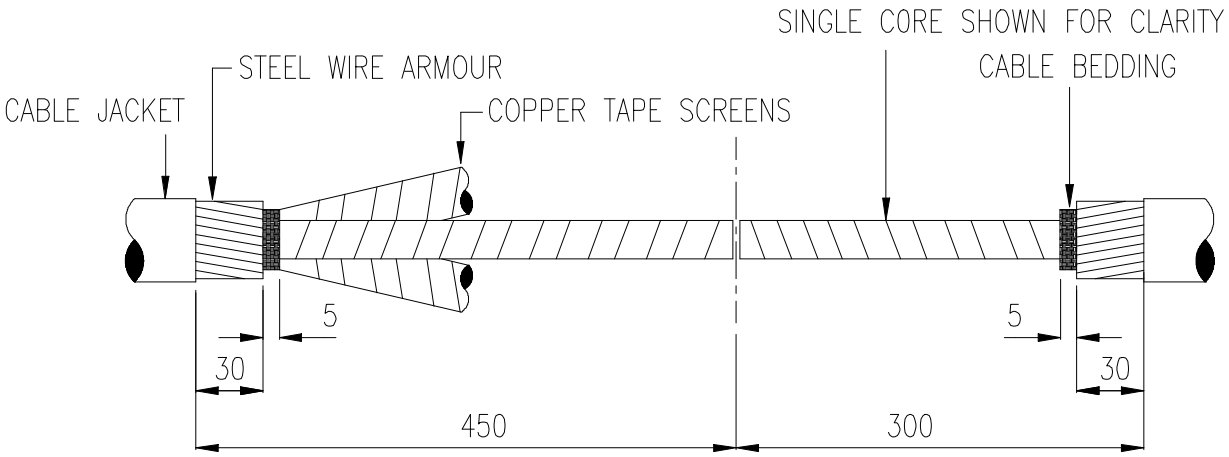
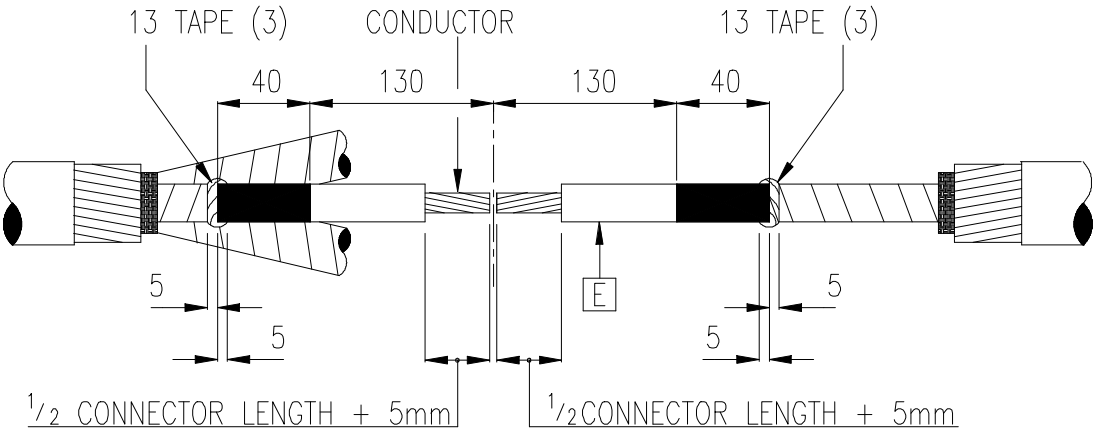
DRAWN : A.D.PARKER	CHECKED :
CAD FILE : 2805 1	RELEASED :

3M ELECTRICAL PRODUCTS | XE 0091 2805 1 | SHEET 1 OF 5 | A4



1.1 PREPARE CABLES AS PER FIG.1 ABOVE, CLEAN AND ROUGHEN OUTER CABLE JACKETS FOR 50mm.

FIG.1

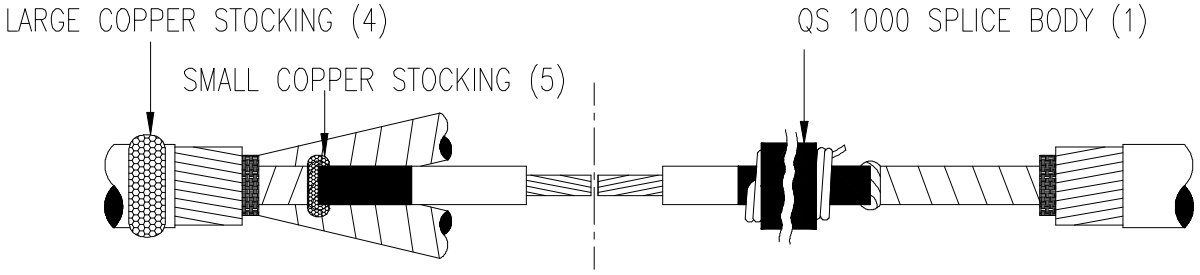


2.1 PARK THE TREFOIL END CAP ALONG 3 SINGLE CORES ENSURING WHITE SEAL IS TOWARDS CENTRE OF JOINT.

2.1 PREPARE CABLE AS PER DIMENSIONS SHOWN.

2.2 FIX THE COPPER TAPE SCREEN WITH HIGHLY STRETCHED BINDER OF SCOTCH 13 TAPE AS SHOWN.

FIG.2

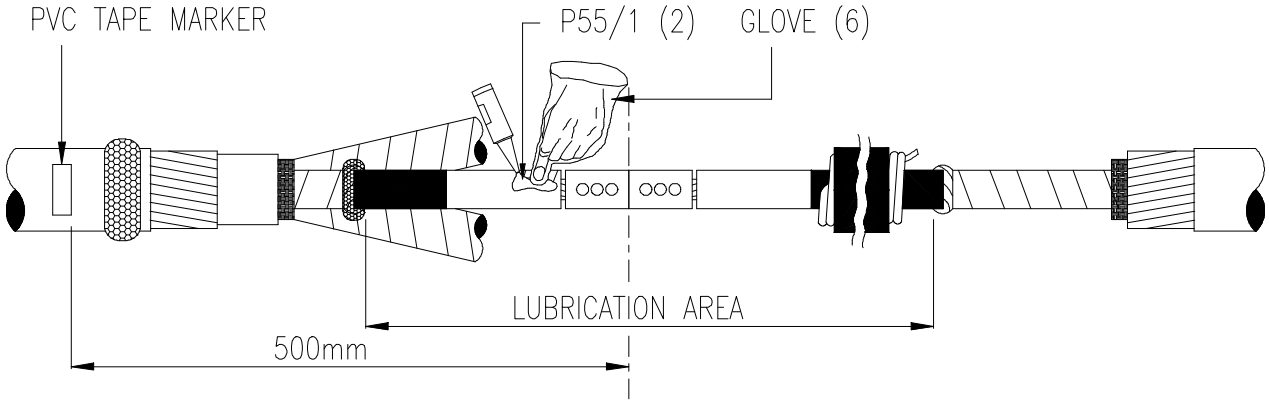


3.1 PARK THE QS 1000 SPLICE BODY, ON THE SINGLE CORE CABLES.

3.2 PARK LARGE COPPER STOCKING ON THE 3 CORE SIDE.

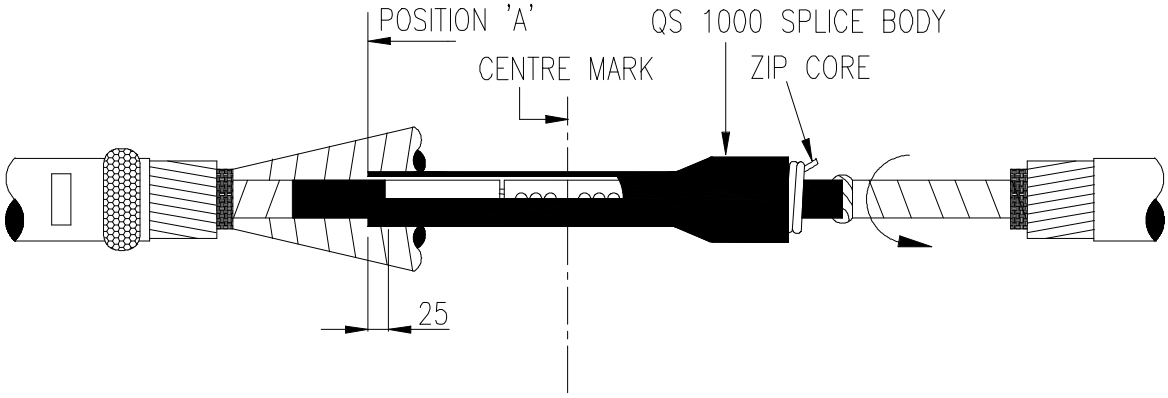
3.3 PARK SMALL INDIVIDUAL STOCKINGS ONE ON EACH CORE.

FIG.3



4.1 CONNECT CORES USING APPROPRIATE CONNECTOR.
4.2 APPLY A LIBERAL AMOUNT OF P55/1 OVER THE END OF THE SEMI-CONDUCTIVE LAYER, ONTO THE EXPOSED PRIMARY INSULATION AND CONNECTOR USING THE PROVIDED PLASTIC GLOVE.
4.3 PLACE A PVC TAPE MARKER ON THE CABLE SHEATH AT A DISTANCE OF 500mm FROM THE CONNECTOR CENTRE.

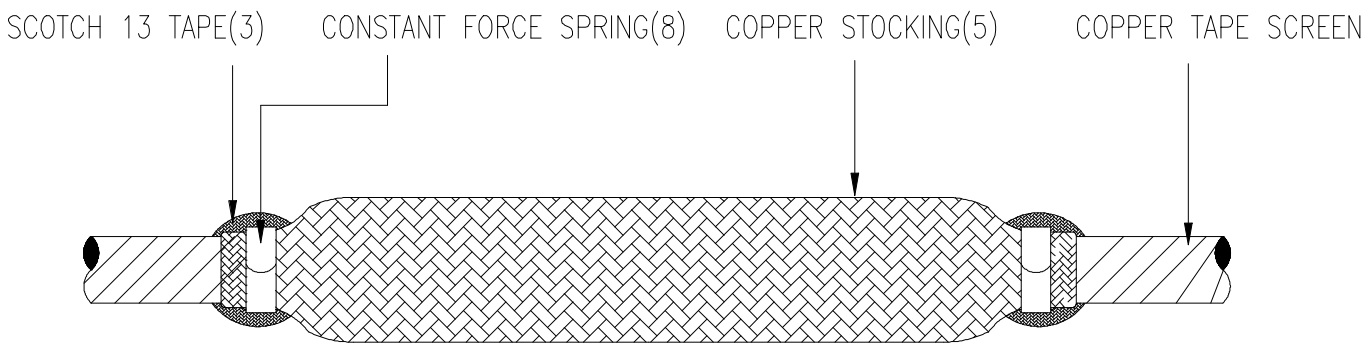
FIG.4



5.1 SLIDE THE QS 1000 SPLICE BODY OVER THE CONNECTOR UP TO POSITION 'A'
5.2 USING POSITION 'A' AS A STARTING POINT, SHRINK THE BODY ONTO THE CORE BY UNWINDING THE SPIRAL, ONCE THE BODY HAS BEEN SHRUNK PAST IT,S CENTRE MARK, AND BEFORE IT HAS BEEN SHRUNK FULLY ACROSS THE CONNECTOR, ENSURE THAT THE BODY IS IN POSITION USING THE PVC TAPE AND CENTER MARKERS. IF NOT CORRECTLY POSITIONED, MAKE CORRECTION BY DISPLACEMENT.
** PLEASE NOTE THE POSITION OF THE SPLICE BOIDY IS CRITICAL **
5.3 COMPLETE OTHER PHASES.

FIG.5

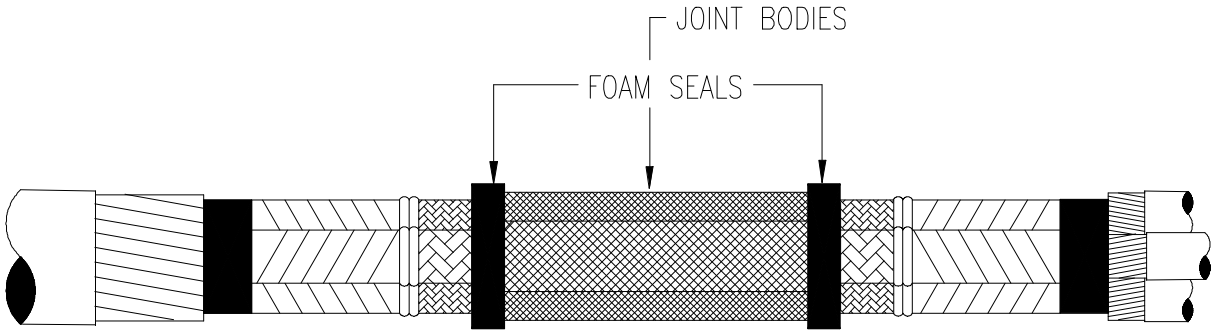
ONE CORE SHOWN FOR CLARITY.



6.1 SLIDE THE INDIVIDUAL COPPER SCREEN STOCKINGS OVER EACH CORE AND FIX THEM BY MEANS OF A CONSTANT FORCE SPRING ON THE METALLIC SCREEN. CUT OFF THE REMAINING STOCKING.

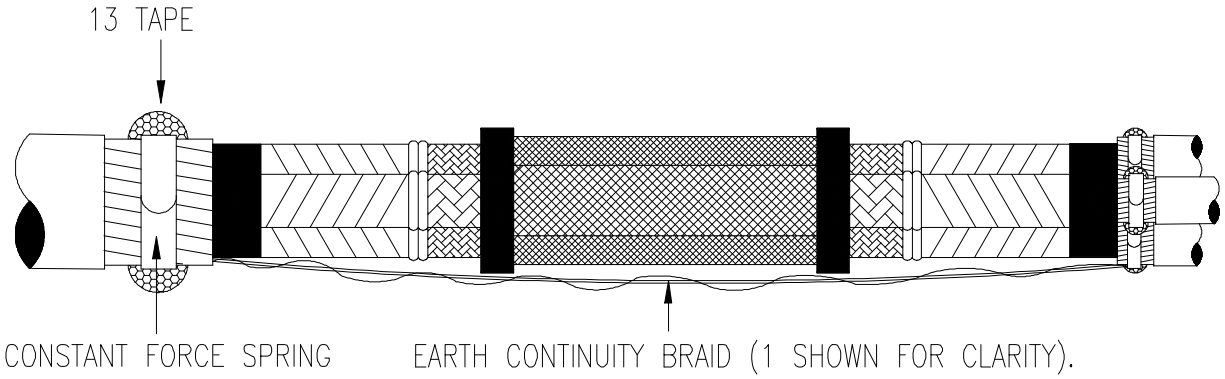
6.2 OVERWRAP THE CONSTANT FORCE SPRINGS WITH TWO HALF-LAPPED LAYERS OF SCOTCH 13 TAPE APPLIED IN SAME DIRECTION AS SPRING, AS SHOWN.

FIG.6



7.1 FIT A FOAM SEAL AT BOTH ENDS OF THE SPLICE BODIES.

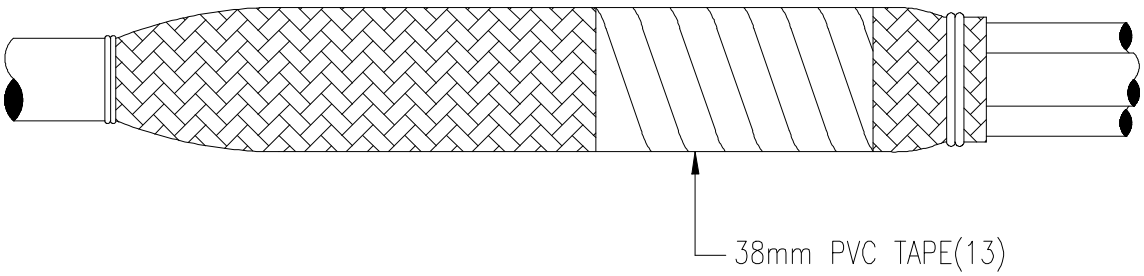
FIG.7



8.1 APPLY 3 EARTH CONTINUITY BRAIDS USING CONSTANT FORCE SPRINGS.

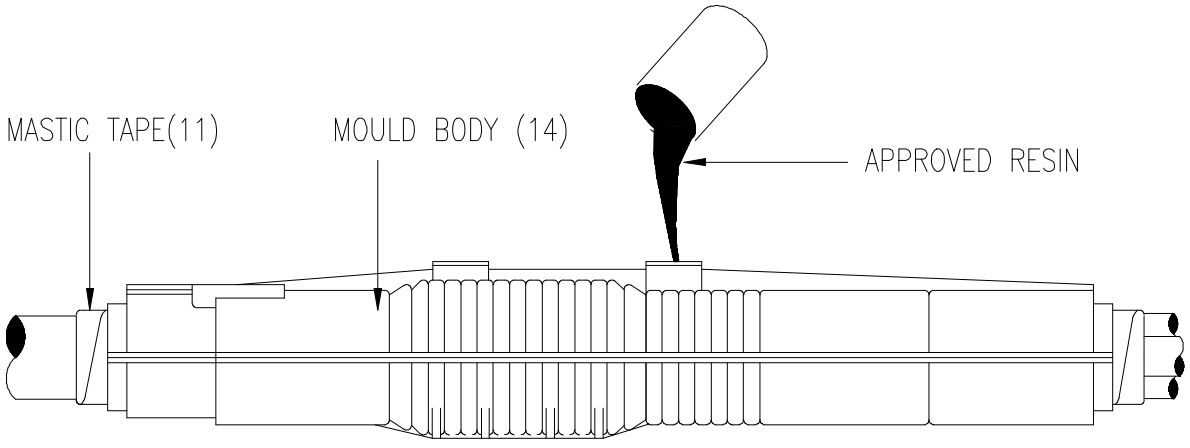
8.2 COVER THE CONSTANT FORCE SPRINGS WITH SCOTCH 13 TAPE, APPLY IN THE SAME DIRECTION AS THE SPRINGS.

FIG.8



9.1 SLIDE THE COPPER STOCKING OVER THE JOINT AND TAPE DOWN EACH END AT THE WIRE ARMOURS.
9.2 OVERTAPE COPPER STOCKING OVER THE AREA OF THE SPLICE BODIES WITH ONE HALF LAPPED LAYER OF PVC TAPE.

FIG.9



10.1 POSITION MOULD AROUND JOINT.
10.2 APPLY LAYER OF MASTIC AROUND CABLE ENTRIES TO FORM SEAL.
10.3 POSITION CLIPS AROUND MOULD.
10.4 SUPPORT JOINT AND FILL MOULD WITH APPROPRIATE RESIN.
10.5 DO NOT MOVE THE JOINT FOR AT LEAST TWO HOURS.

FIG.10