

3M QT III COLDSHRINK TERMINATION
 FOR 11kV INDOOR APPLICATION
 92-EP629-1 to 92-EP649-1
 FOR SINGLE CORE XLPE INSULATED,
 COPPER TAPE SCREENED CABLE

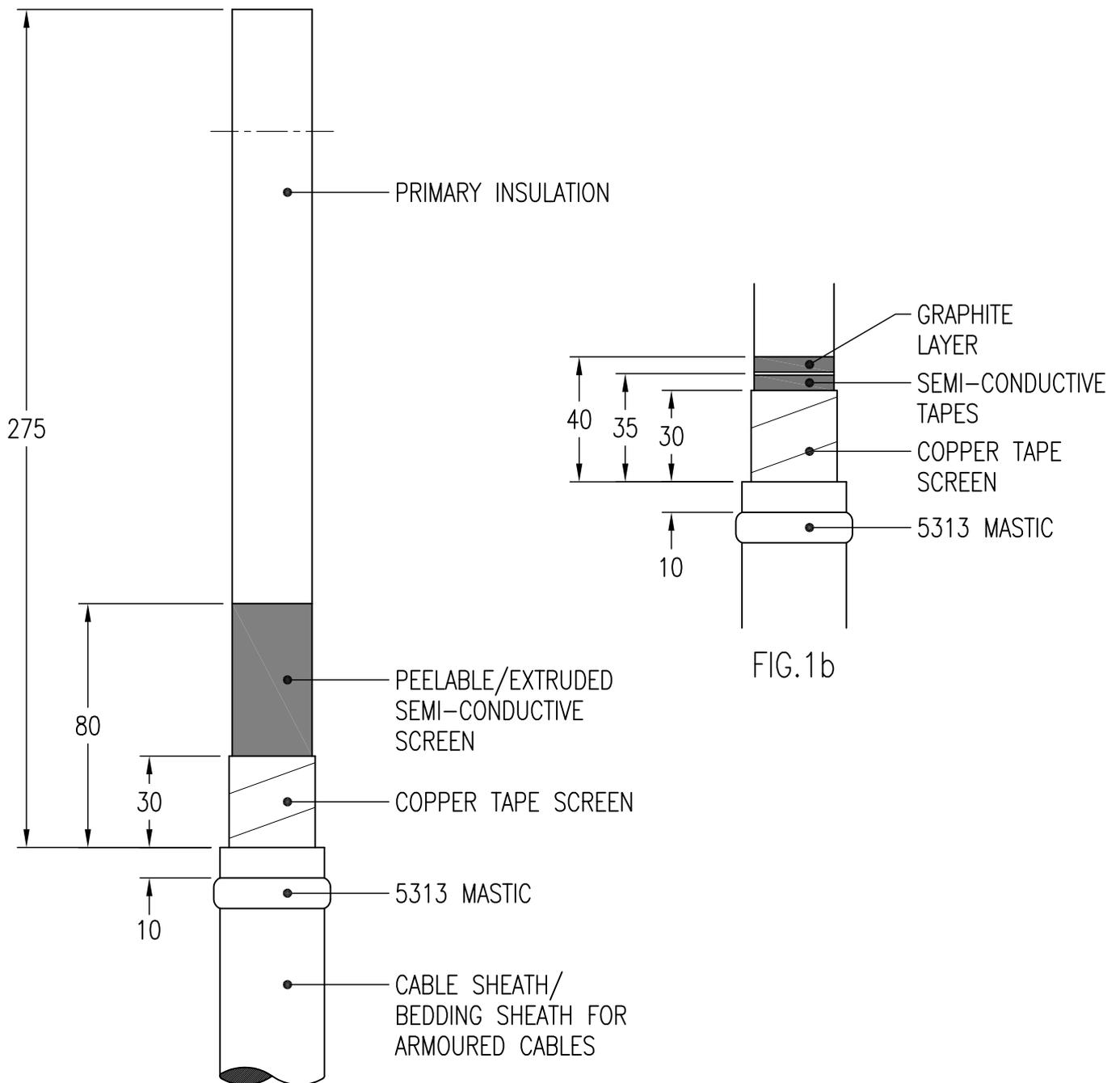
KIT REF.	92-EP629-1	92-EP639-1	92-EP649-1
RANGE CSA (mm ²)	50 - 95	120 - 300	400 - 630
INSULATION DIAMETER (mm)	16.3 - 27.4	21.1 - 38.9	26.7 - 45.7
MAX. LUG DIAMETER (mm)	30	39	45

IMPORTANT NOTES

1. 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 LUG DIMENSIONS.
2. FOR CABLES WITH ARMOUR, CONNECT ARMOUR TO CABLE END BOX BY THE APPROPRIATE METHOD.

3M UNITED KINGDOM PLC © 2009 3M CENTRE, CAIN ROAD, BRACKNELL BERKS. RG12 8HT, ENGLAND	2	LATEST REQUIREMENT.	ERH	30.07.09
	1	FOR RELEASE.	ERH	14.07.09
	ISSUE	DESCRIPTION / ECO	BY	DATE
ALL STATEMENTS, TECHNICAL INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED ON TESTS WE BELIEVE TO BE RELIABLE. HOWEVER, SINCE THE CONDITIONS OF USE AND THE APPLICATION ARE BEYOND OUR CONTROL, THE PURCHASER IS RESPONSIBLE FOR THE PERFORMANCE OF THE JOINTS AND TERMINATIONS MADE IN CONNECTION WITH THE USE OF DATA OR SUGGESTIONS STATED HEREIN.	3M QTIII COLDSHRINK TERMINATION 11kV FOR INDOOR APPLICATION 92-EP629-1 to 92-EP649-1 FOR SINGLE CORE XLPE INSULATED, COPPER TAPE SCREENED CABLE INSTALLATION INSTRUCTIONS			
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Cad File: XE-0091-3409-1	Checked:			
3M ELECTRICAL PRODUCTS	AA-BBCC-6944-5	XE-0091-3409-1	SHEET 1 OF 6	A4

FIG.1



- 1.1 REMOVE THE CABLE SHEATH/BEDDING SHEATH TO LENGTH 275mm.
- 1.2 APPLY A LAYER OF 5313 MASTIC OVER THE CABLE SHEATH/BEDDING SHEATH.
- 1.3 REMOVE THE COPPER TAPE SCREEN LEAVING 30mm IN FRONT OF THE CABLE SHEATH/BEDDING SHEATH.
- 1.4 REMOVE THE SEMI-CON OUTER CABLE SCREEN:

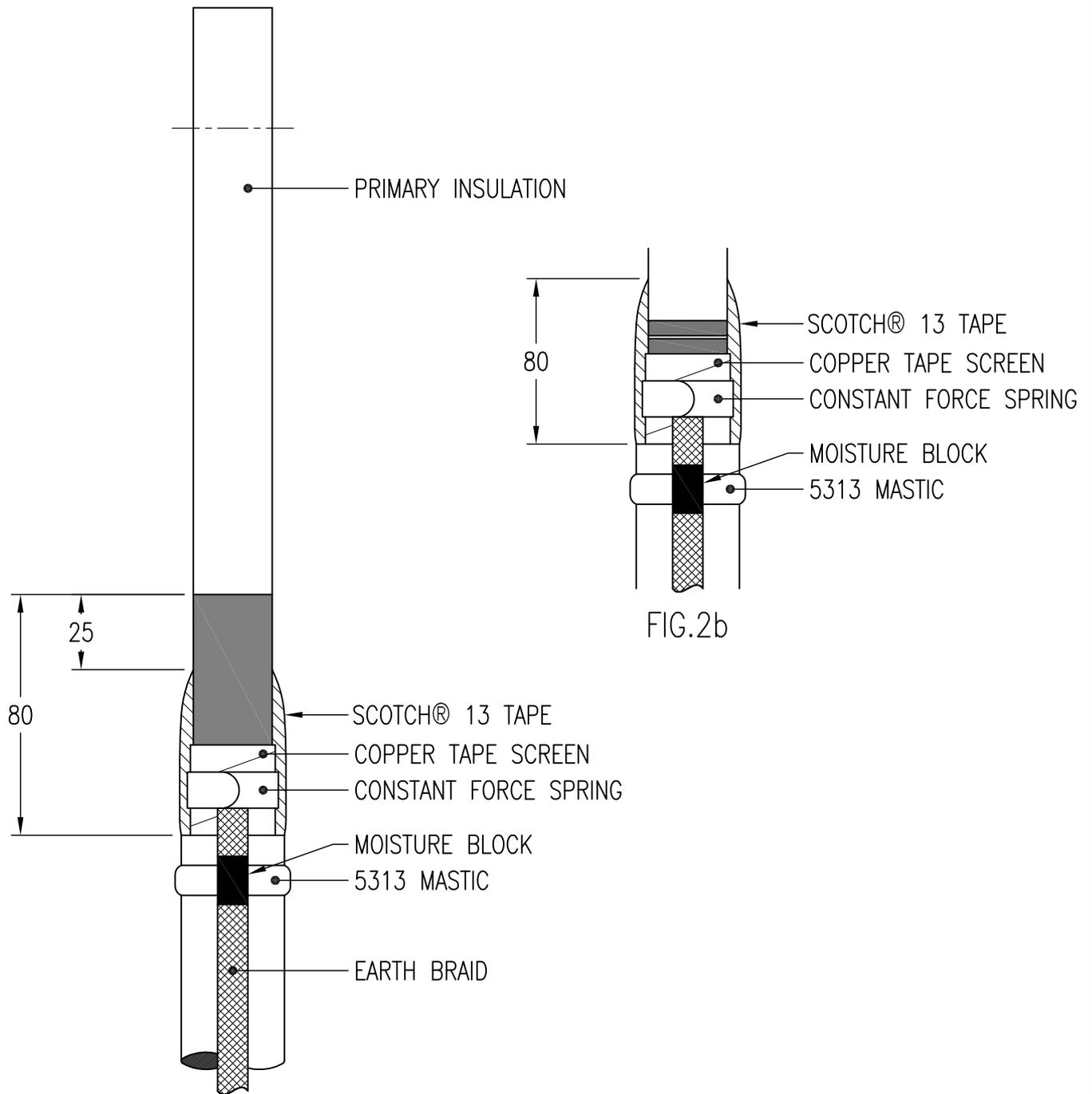
FIG.1 CABLE WITH PEELABLE/EXTRUDED SEMI-CON SCREEN:

LEAVE 80mm IN FRONT OF THE CABLE SHEATH/BEDDING SHEATH.

FIG.1b CABLE WITH GRAPHITE LAYER AND SEMI-CON TAPES:

LEAVE THE SEMI-CON TAPES 35mm IN FRONT OF THE CABLE SHEATH/BEDDING SHEATH.
LEAVE THE GRAPHITE LAYER 40mm IN FRONT OF THE CABLE SHEATH/BEDDING SHEATH.

FIG.2

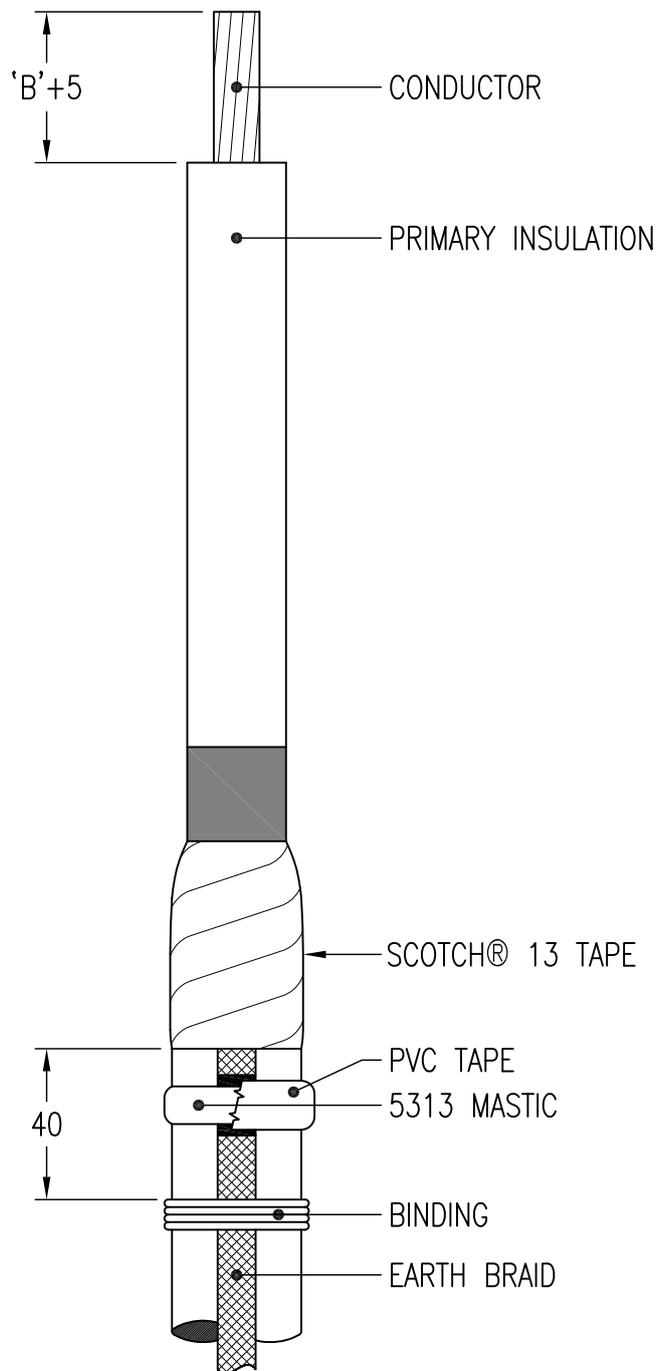


- 2.1 CONNECT THE EARTH BRAID WITH THE COPPER TAPE SCREEN BY MEANS OF A CONSTANT FORCE SPRING. ENSURE MOISTURE BLOCK OF BRAID SITS DIRECTLY ON 5313 MASTIC SEAL.
- 2.2 WRAP ONE HALF-LAPPED LAYER OF SCOTCH® 13 TAPE, STARTING IN FRONT OF THE CABLE SHEATH/ BEDDING SHEATH COVERING THE CONSTANT FORCE SPRING ON TO THE SEMI-CON SCREEN ACC. TO THE GIVEN DIMENSION AND BACK AGAIN. APPLY THE SCOTCH® 13 TAPE IN THE SAME DIRECTION AS THE CONSTANT FORCE SPRING.

FIG.2b

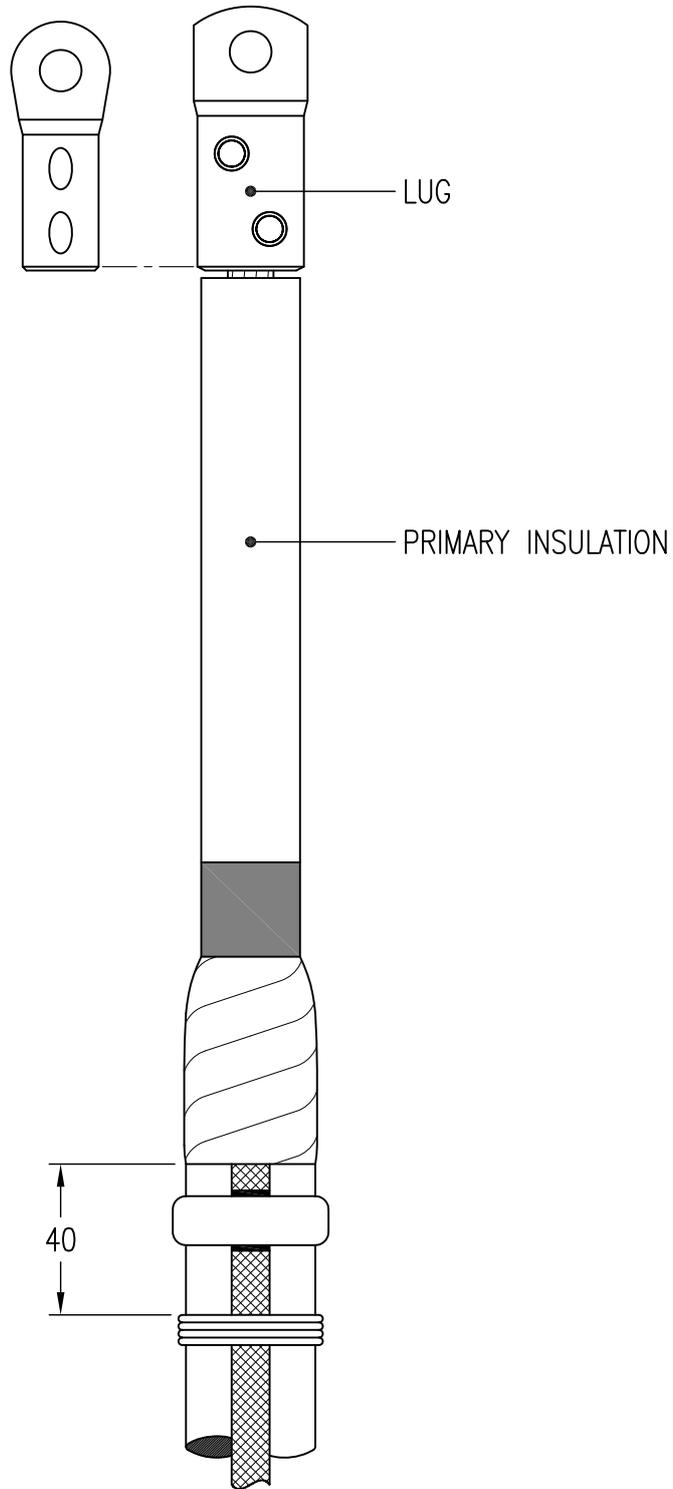
2b.2 CABLE WITH GRAPHITE LAYER AND SEMI-CON TAPES.

FIG.3



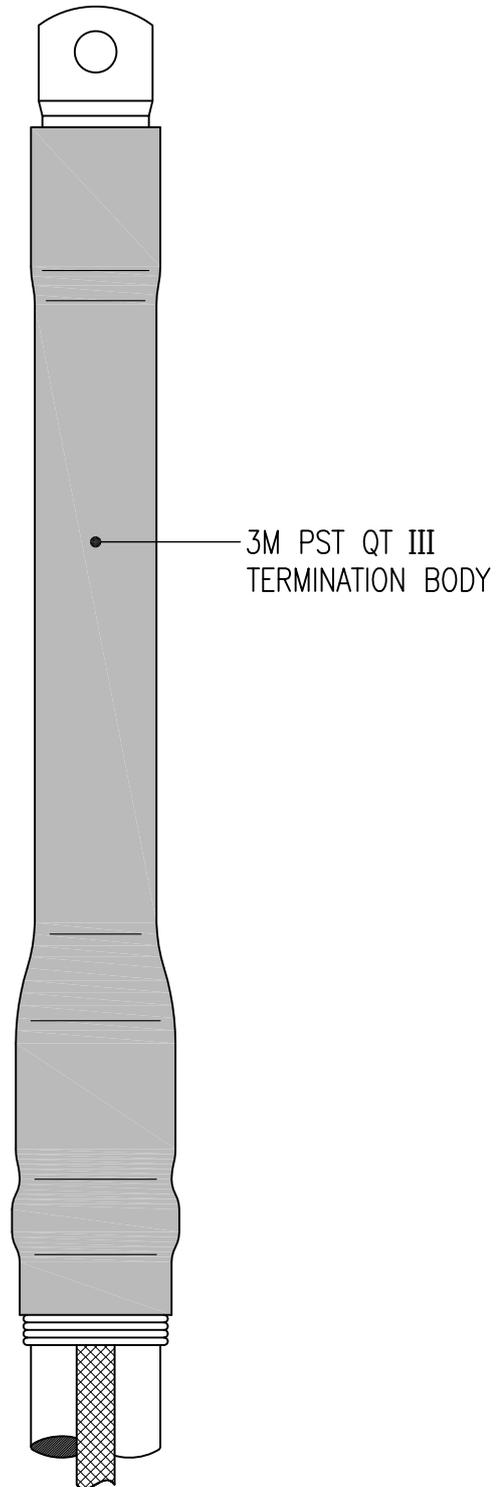
- 3.1 APPLY A SEAL OF 5313 MASTIC OVER THE EARTH BRAID.
- 3.2 COVER THE SEAL WITH 2 LAYERS OF PVC TAPE.
- 3.3 FIX THE EARTH BRAID WITH A BINDING, 40mm FROM "SHEATH OFF" POSITION.
- 3.4 REMOVE THE PRIMARY INSULATION ACC. TO DIMENSION :-
B + 5mm. (WHERE B = INTERNAL LENGTH OF LUG BARREL).

FIG.4



4.1 ATTACH THE LUG AND ROUND OFF ANY SHARP EDGES. THOROUGHLY CLEAN THE LUG.

FIG.5



- 5.1 REMOVE THE RED SHIPPING CORE.
- 5.2 SLIDE THE QT III BODY INTO POSITION. REMOVE THE COLAPSIBLE ZIP CORE BY UNWINDING IT IN A COUNTER CLOCKWISE DIRECTION. START TO SHRINK AT THE BINDING.