

## **NorthernPowerGrid**

### **Bill Of Materials**

### **Kit: NPG163662**

### **11kv XLPE Indoor Termination 300/400mm<sup>2</sup>** **1Core Copper – CWS**

### **TRIPLEX Set of 3**

SED Code	Description	Quantity
T110-T	3M Termination Body	3
NEDL80	ML4/14-12 Earth Lug	3
NEDL19	HVTM1/3-12B Brass Phase Lug	3
	Jointing Instruction 2919-0	1
	SEDD Bill of Materials	1
	SEDD Box	1

# 3M QTHI COLD SHRINK 11kV

TERMINATIONS FOR SINGLE CORE  
POLYMERIC, COPPER WIRE SCREENED CABLE  
(INDOOR)

KIT REF.	92-EP621-1-NY43	92-EP631-1-NY44	92-EP641-1-NY45	92-EP641-1-NY52
CATALOGUE No.	163660	163661	163662	163663
RANGE CSA (mm. <sup>2</sup> )	95	185 - 300	400	630
(D)INSULATION DIAMETER(mm.)	16.3 - 27.4	21.1 - 38.9	26.7 - 45.7	26.7 - 45.7

4	RANGE CSA REVISED-SHT.1	ERH	28.10.04
3	LATEST REQUIREMENT.	ERH	12.08.04
2	LATEST REQUIREMENT.	ERH	21.07.04
1	RELEASED.	ADP	12.05.04
ISSUE	DESCRIPTION / ECO	BY	DATE

**3M** U.K. PLC. © 2004  
3M CENTRE, CAIN ROAD, BRACKNELL  
BERKS. RG12 8HT, ENGLAND

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 SPLICES AND TERMINATIONS MADE IN CONNECTION WITH THE USE OF DATA OR SUGGESTIONS STATED HEREIN.

MOD ENG :	DES.ENG. : M.L.GLEDHILL.
DRAWN : A.D.PARKER.	CHECKED :
CAD FILE : 2919-0	RELEASED :

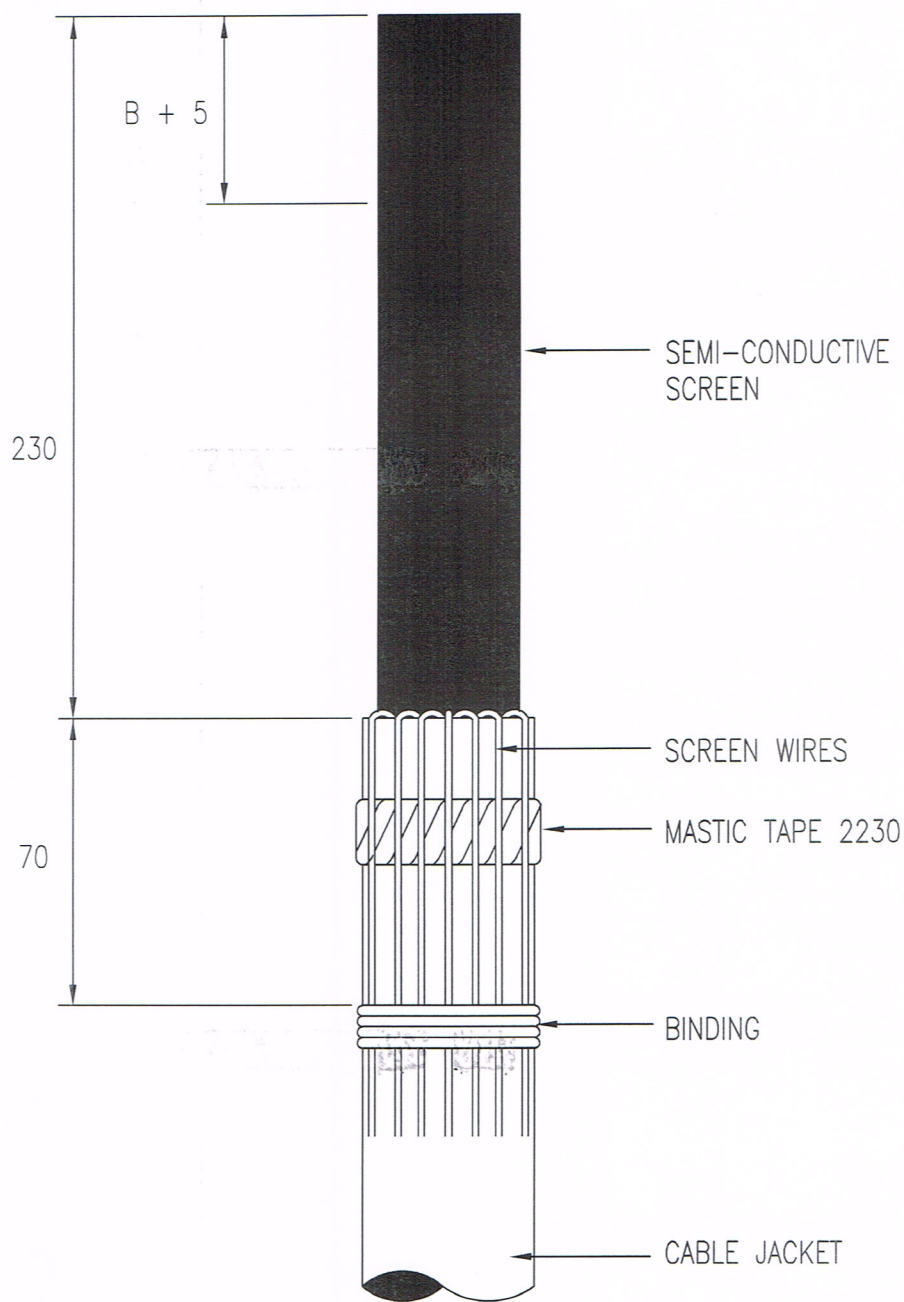
## INSTALLATION INSTRUCTIONS

**3M** ELECTRICAL PRODUCTS

XE 0091 2919 0

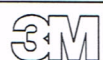
SHEET  
1 OF 4

A4



- 1.1 REMOVE THE CABLE JACKET ACCORDING TO LENGTH, WHERE  $B$  = INTERNAL DEPTH OF LUG BARREL.
- 1.2 APPLY A SEAL WITH SCOTCH 2230 MASTIC TAPE OVER CABLE JACKET, ONE LAYER ONLY.
- 1.3 BEND THE SCREENING WIRES BACK OVER THE SEAL AND THE CABLE JACKET AND FIX THEM WITH A BINDING 70mm. BELOW THE SHEATH CUT. LEAVE ENOUGH COPPER WIRE TO REACH EARTH POINT.

FIG.1



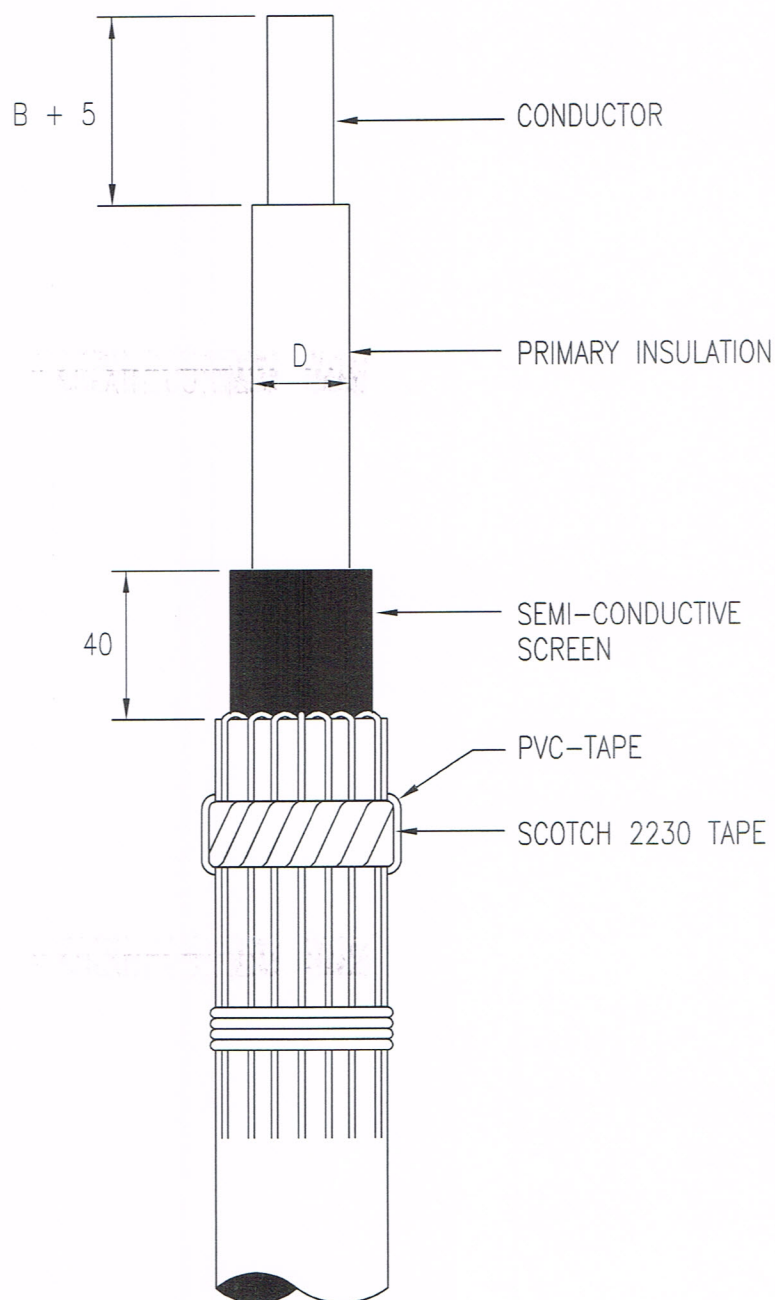
ELECTRICAL PRODUCTS

XE 0091 2919 0

SHEET  
2 OF 4

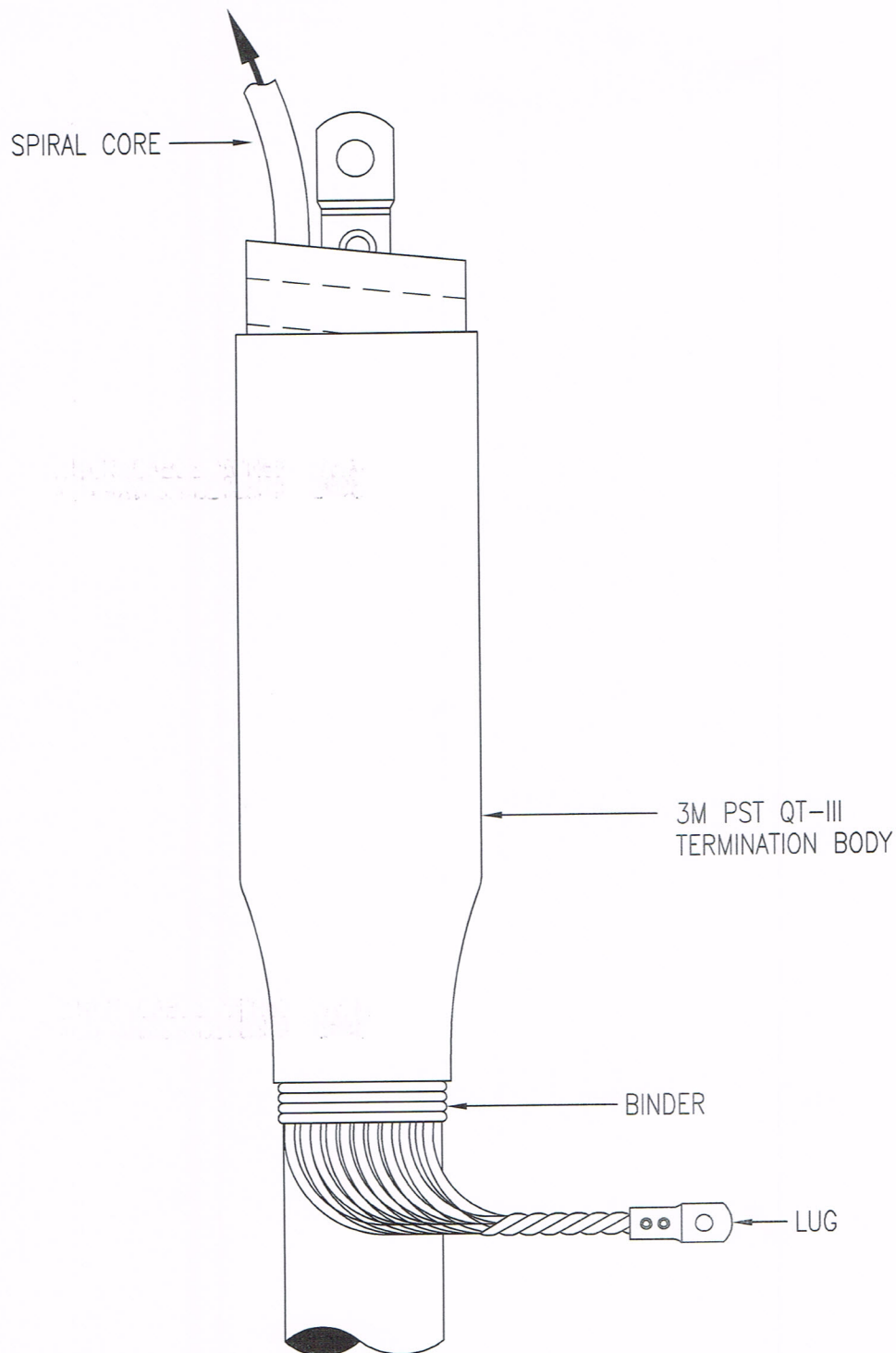
ISS. 4





- 2.1 APPLY A SECOND LAYER OF MASTIC OVER THE COPPER WIRES, ONE LAYER ONLY.
- 2.2 COVER THE SEAL WITH 2 LAYERS OF PVC TAPE.
- 2.3 REMOVE THE SEMI-CON OUTER CABLE SCREEN LEAVING 40mm. IN FRONT OF THE CABLE JACKET.
- 2.4 REMOVE THE PRIMARY INSULATION FOR  $B+5$ mm. WHERE  $B$ = DEPTH OF LUG BARREL.

FIG.2



- 3.1 INSTALL MECHANICAL PHASE LUG IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 3.2 DEBURR AND DEGREASE.
- 3.3 CLEAN AND DEGREASE PRIMARY INSULATION.
- 3.4 REMOVE THE RED SHIPPING CORE.
- 3.5 SLIDE THE TERMINATION OVER THE CABLE END.
- 3.6 UNWIND THE SPIRAL CORE ANTI-CLOCKWISE, START TO SHRINK FROM THE BINDING.
- 3.7 TWIST THE SCREEN WIRES AND FORM INTO A CONDUCTOR.
- 3.8 INSTALL EARTH LUG IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION.

FIG.3