



W T HENLEY LIMITED

JOINTING INSTRUCTION 1680M

(JOINTING ON DEAD/DE-ENERGISED CABLE ONLY)

FOR

600/1000v STRAIGHT THROUGH JOINTS 4 CORE XLPe OR PVC/SWA/PVC
CABLES 95mm² to 300mm²

NOTES:

1. This joint must be installed by a skilled joiner who is fully conversant with the required installation techniques.
2. HEALTH & SAFETY: All personnel should observe the relevant Health & Safety regulations that are in force.
- 3 All joints must be made colour to colour unless otherwise instructed by a responsible engineer
4. A radial clearance of 10mm is required between any part of the completed joint and the inside of the joint shell. In carrying out the following operations this requirement should be continually checked

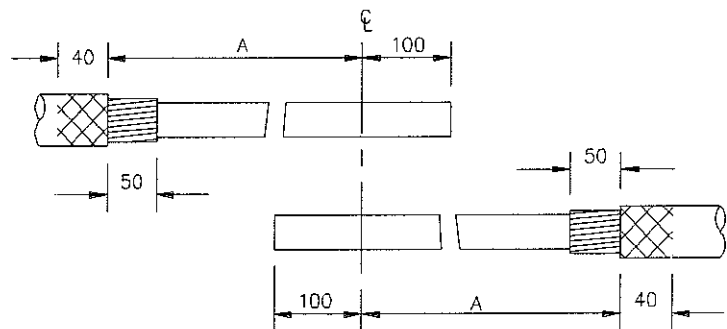
BEFORE COMMENCING JOINTING CHECK THAT ALL COMPONENTS ARE AVAILABLE !

COMPONENT PARTS CHECK LIST:

	JOINT SIZE	QTY	JOINT SIZE	QTY	JOINT SIZE	QTY
	95 - 120mm ²		150 - 185mm ²		240 - 300mm ²	
JOINT SHELL SET	50601 (S120)	1	IWST18 (S185)	1	51155 (S300)	1
ACCESSORY KIT	S120	1	S185	1	S300	1
ARMOUR TERMINATIONS	S120	1	S185	1	S300	1
EARTH BOND	35mm ² (500mm long)	2	50mm ² (620mm long)	2	50mm ² (700mm long)	2
CONNECTORS	52483-17	4	52483-18	4	52483-19	4
RE-INSULATION	S120	1	S185	1	S300	1
MIXING INSTRUCTIONS	3986-047	1	3986-047	1	3986-047	1
PLASTIC GLOVES	-	4	-	4	-	4
COMPOUND	2.0 litre	4	2.0 litre	5	2.0 litre	6

PREPARATION OF CABLES

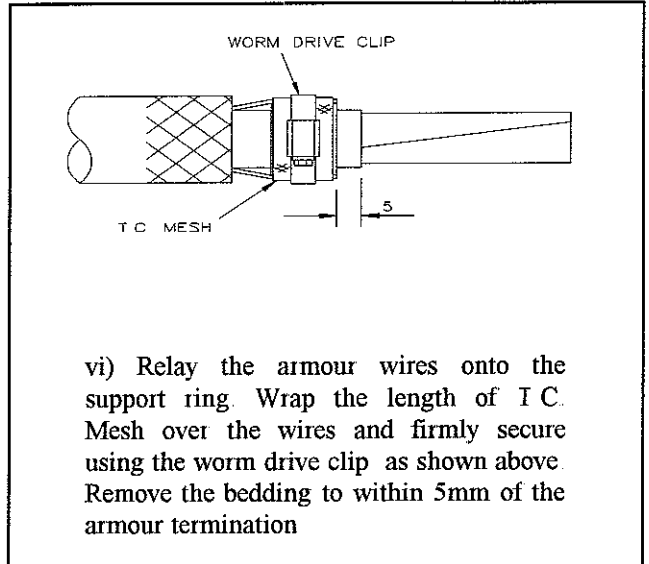
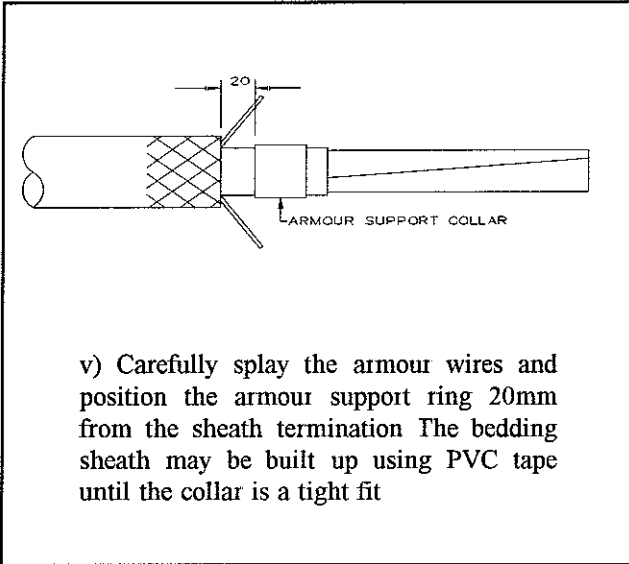
- i) Align and support the cables at the jointing position ensuring they are level
- ii) Mark the centre of the joint, allow the cable to overlap the centre mark by 100 mm.
- iii) Strip the cables to the dimensions shown.
- iv) Abrade the cable outersheath for a minimum distance of 40mm from the sheath termination



SHELL REF.	A
50601 (S 120)	250
TWST 18 (S 185)	310
51155 (S 300)	350

ROUGHEN OUTER SHEATH WHERE SHOWN THUS





SETTING THE CORES

i) Open the cores of the cables for jointing and set into the correct jointing position.

NOTE: IF IT IS NECESSARY TO CROSS THE CABLE CORES THEN THE CONNECTORS MAY BE OFFSET FROM THE JOINT CENTRE LINE.

SHELL REF	B
50601 (S 120)	200
TWST 18 (S 185)	260
51155 (S 300)	300

ii) Cut the cores at the connector centre line.

FITTING THE CONNECTORS

i) Remove the insulation for a distance equal to the length of the pressure plate + 5mm

ii) Lightly abrade all conductors.
WRAP BRASS GAUZE AROUND ANY COPPER CONDUCTORS

iii) Dismantle the connectors and position the conductors in the connector body. NOIE The conductor may need to be re-formed

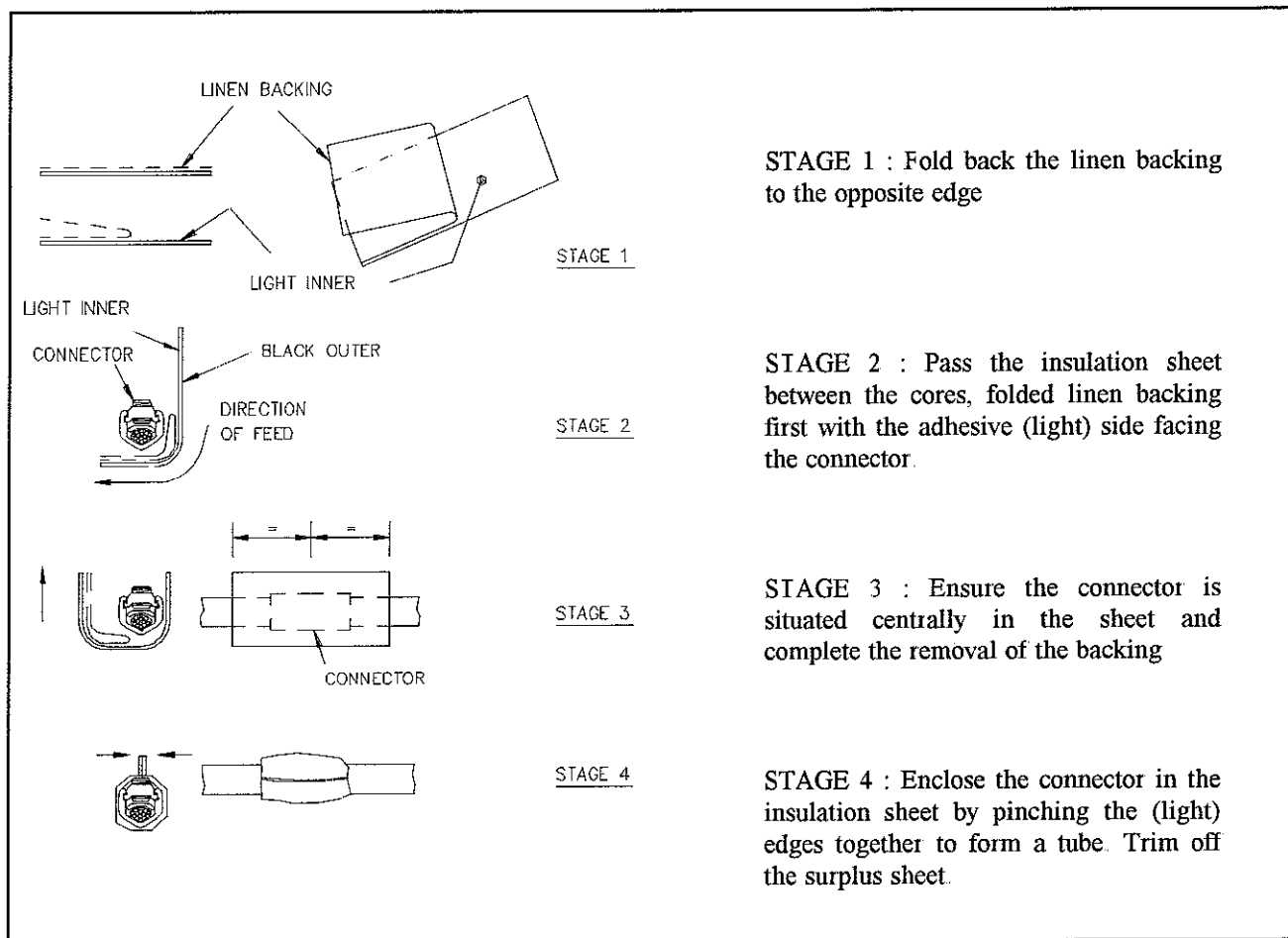
iv) Position the pressure plate on top of the conductors

v) Slide the bridge pieces into the connector body

vi) Tighten the screws consecutively half a turn at a time until all the heads have sheared.

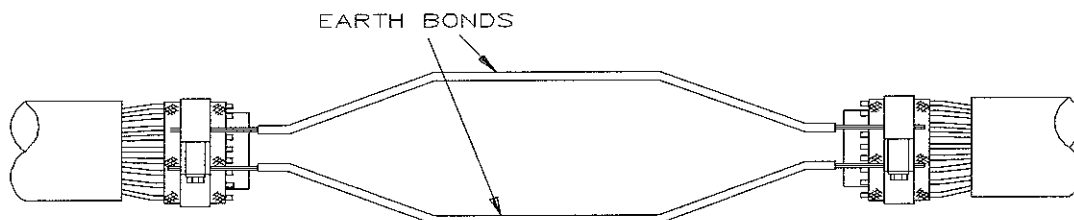
THE CONNECTOR MUST BE HELD FIRMLY IN POSITION USING A SUITABLE TOOL WHILSI THE SCREW HEADS ARE BEING SHEARED.

RE-INSULATING THE CONNECTORS



FITTING THE ARMOUR BOND

- i) Remove the insulation from the end of the earth bonds for a distance of 30mm and fan out the strands
- ii) At each end of the joint loosen the worm drive clip and insert the exposed end of the bonds between the mesh and the clip. Retighten the clip securely.
- iii) Set the bonds to allow a minimum of 10mm between them and the cable cores/connectors.



COMPLETING THE JOINT

- i) Using the bottom half of the joint shell as a template mark the cable entry positions. Remove the paper backing from the foam strip and apply to the cable at the entry positions so that the joint shell cable entries are a snug fit
- ii) Support the bottom half of the joint shell in its final position, check the clearances between the joint shell and any internal parts of the joint are a minimum of 10mm, if necessary adjust the joint to achieve the correct clearance. Position the top half of the joint shell, again checking the clearances
- iii) Secure the top half of the joint shell to the bottom by fitting metal clips adjacent to the cable entries. Fit the plastic edge strips and check the seals
- iv) **ENSURE THE JOINT SHELL AND CABLES ARE FIRMLY SUPPORTED** Mix the compound in accordance with the instructions provided and pour **STEADILY** into the joint shell to a level 6mm below the top of the turret. Care should be taken to avoid trapping air at the cable crotch or at the centre of the joint.
- v) When the shell is completely full fit the lid(s)

BACK FILLING

Care should be taken to ensure that the joint shell is not disturbed, particularly when back filling, before the compound has set

Ensure that no stones or other sharp objects are included in the vicinity of the joint. The soil should be packed firmly around the joint before completing back filling.

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