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TERMINATION INSTRUCTIONS FOR USE WITH;

- **FREEZSTOP MICRO, LITE, REGULAR, EXTRA, PLUS & SUPER**
- **HOTWAT LITE, REGULAR & PLUS**
- **G-TRACE, FLOORWARM & SNOMELT**

ANNEX B

PLEASE READ THE INSTRUCTIONS BEFORE PROCEEDING

Ref TK/FS*/U
Issue 7
Date 21 Aug 2001

Recommended Tools:
'Stanley' Knife, Long-nose Pliers, Side Cutters, Screw Driver, Crimping Tool, Adjustable Spanner, Rule/Tape, Tissue/Rag.

Scope:
These instructions cover the termination of ***Freezstop Micro, Lite, Regular, Extra, Plus & Super***; ***Hotwat Lite, Regular & Plus, G-Trace, Floorwarm*** and ***Snomelt*** heating tapes for both **POWER** and **END SEALS**.

POWER SEAL

1. Place the gland components on the tape (see Fig.2); Continue as follows.

2. PREPARATION

   BRAID AND OUTER JACKET - Strip back the outer jacket by 100mm.

   BRAID - Carefully unpick the braid for 100mm. Twist into a braid tail and trim loose strands.

   BASE HEATER - Carefully strip back the outer sheath (and intermediate sheath if present) by 55mm so that the black plastic conductive core is completely exposed. Then carefully strip the conductive core off the two stranded wire current carrying conductors over the whole exposed area (Fig. 1). It is essential that the wire conductors are not damaged, so great care should be taken when removing the conductive core.

   IF THE AREA CLASSIFICATION PERMITS, it may be easier to remove the conductive core if a gentle heat source is applied prior to stripping.

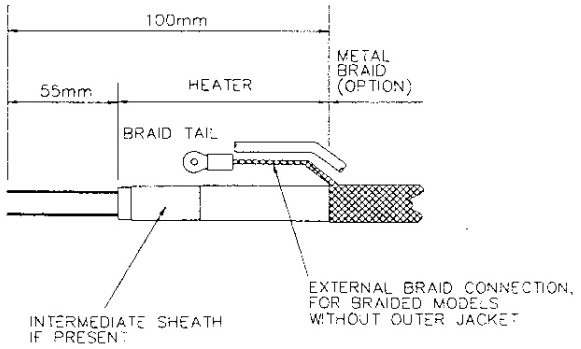

FIG. 1a

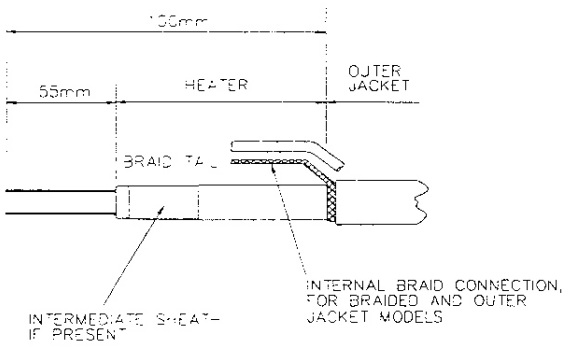

FIG. 1b

continued ...

3. BRAID & EARTHING

BRAID AND OUTER JACKET TAPES - The gland should seal on the outer jacket with the braid terminated into the junction box. You do not need to use the external ring crimp.

BRAIDED TAPES - Terminate braid externally using the earth braid sleeve and ring crimp provided.

BASE HEATER ONLY - There is no need for the braid sleeve or ring crimp. The incoming power supply cable will be provided with an earth core or protective armour which must be bonded to any earth terminal and metallic mounting bracket provided with the terminal enclosure.

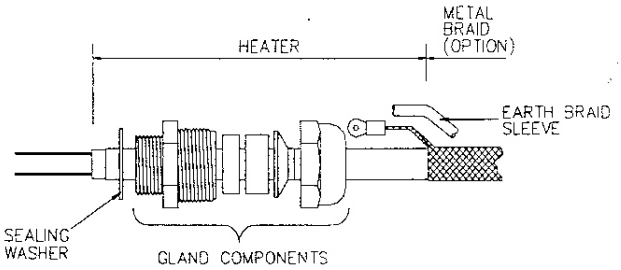

FIG. 2a

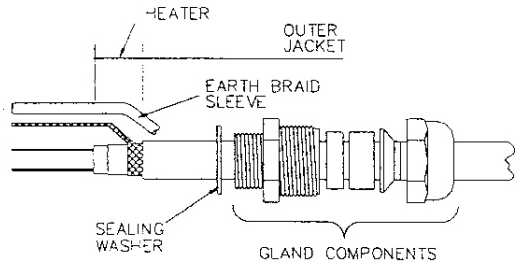

FIG. 2b

Application Note: Local Regulations may require the use of a Residual Current Device at the source of electrical supply.

4. INSULATING BOOT

Apply RTV sealant to both the exposed wires and to the inside of the Power Boot. Then, slide the boot over the exposed wires so that only the end 12mm of wire remains exposed as per Fig. 3. Wipe excess from exposed wires and from around power boot. Allow to cure (in situ).

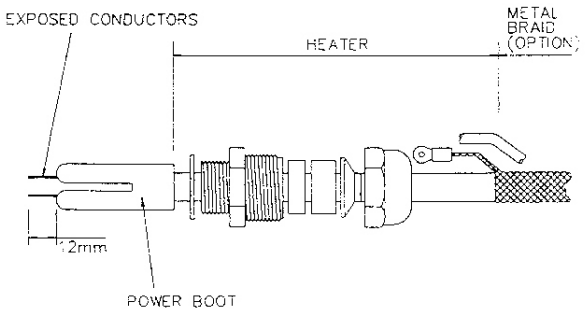

FIG. 3a

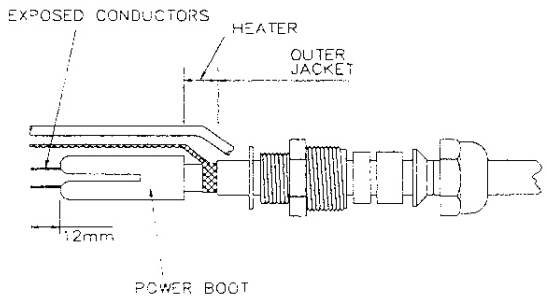

FIG. 3b

continued ...

5. TERMINATIONS

Feed the end of the tape through the junction box entry and through the gland assembly until it is convenient to enter the exposed conductors into the terminal block (Fig. 4). Tighten the terminal connectors.

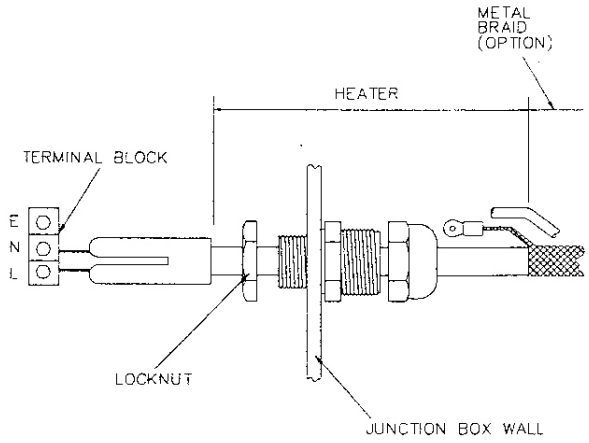

FIG. 4a

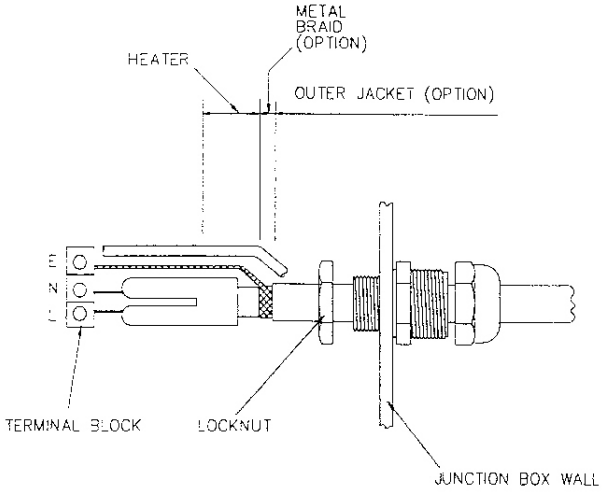

FIG. 4b

6. TERMINAL GLAND

Tighten the gland components. (Fig. 5).

BRAID AND OUTER JACKET TAPES - Fasten the braid tail to the earth terminal inside the junction box.

BRAIDED TAPES - Connect the braid tail to an external earth terminal.

BASE HEATER ONLY - You do not need to do anything at this point.

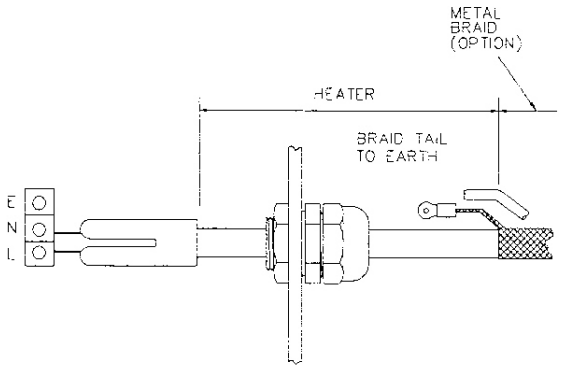

FIG. 5a

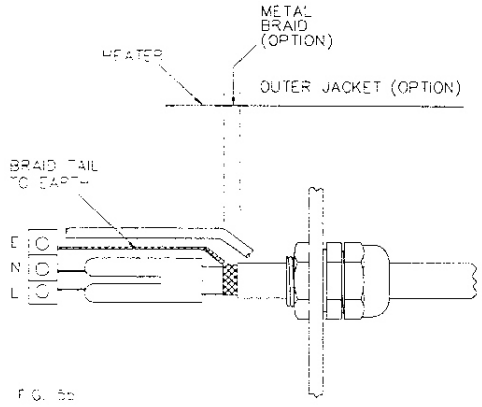

FIG. 5b

continued ...

END SEAL

1. PREPARATION

Cut the heating tape to the required length (+ 50mm).

BRAID AND OUTER JACKET TAPES - Strip off the outer jacket for 75mm. Carefully remove the braid leaving no stray strands.

BRAIDED ONLY TAPES - Push back the braid to expand the braid and hold into position.

BASE HEATER - Cut 50mm from the end of the tape.

DO NOT CONNECT THE BUS CONDUCTORS TOGETHER!

Seal the end of the heating tape by filling the End Boot provided with RTV sealant and fit the boot over the end of the tape. (Fig. 6).

Wipe off excess RTV sealant. Allow to cure (in situ).

BRAIDED ONLY - Release the previously expanded braid and push it over the end of the boot so that it completely engulfs the boot. Twist the strands and fit the crimp provided. Snip off any spare strands of braid.

Strap the end of the tape securely to the pipe.

EXTERNAL BRAID CONNECTION,
STRAPPED TO PIPE
FOR OVER-BRAIDED MODELS
WITHOUT OUTER JACKET

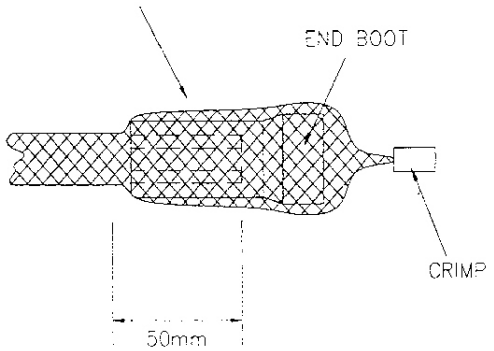

FIG. 6a

FOR OVER-BRAIDED MODELS
WITH OUTER JACKET

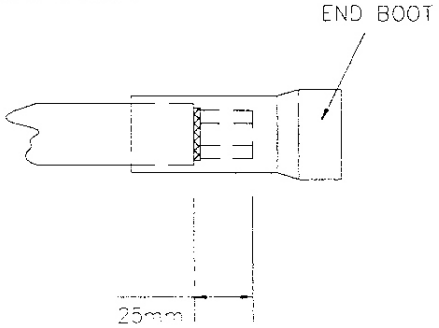

FIG. 6b

FURTHER READING

Please consult the appropriate product data sheet and the Installation, Testing and Maintenance Manual (IMEHT010) for further details.