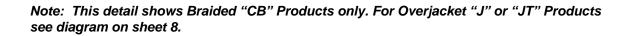
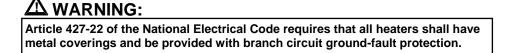
DESCRIPTION

The PLT-CMD continuity monitor device is used to monitor bus continuity on a parallel type heater cable. After the heater cable is installed on the pipe, connect the PLT-CMD to the opposite end of the power connection kit.

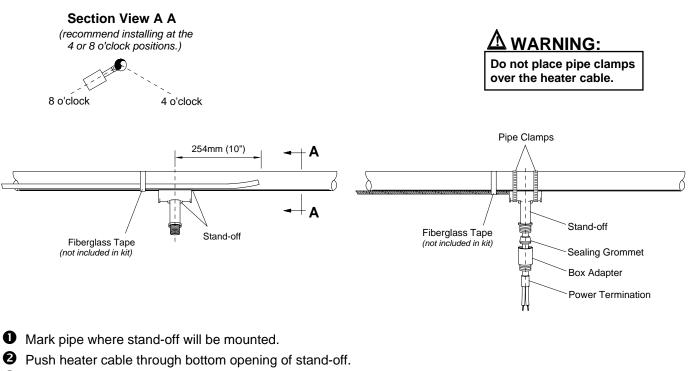
KIT CONTENTS

- 1 CMD Device
- 1 Conduit Locknut
- 1 Sealing Grommet
- 1 Stand-off
- 1 Label
- 2 Wire Nuts
- 1 Power Termination
- 1 Box Adapter
- 1 Gasket
- 1 Tube of Silicone
- 2 Pipe Clamps
- Silicone ſ **CMD** Device Box Cover Gasket Box Cover Power Termination Q. Conduit Locknut Gasket Label Box Adapter Sealing Grommet J-Grommet - Overjacket Product Ô B-Grommet - Base Product U-Grommet - non-standard construction Stand-off *Heater Cable (see warning below) Fiberglass Tape ***ITEMS NOT INCLUDED IN KIT Pipe Clamps**





STAND-OFF POSITIONING



3 Slide the sealing grommet over the heater cable and position inside stand-off opening:

for Braided "CB" Products:

See "Grommet Installation for Braided "CB" Products", sheet 3.

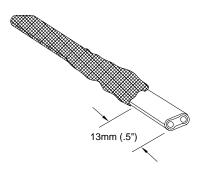
for Overjacket "J" or "JT" Products Proceed with step 4 below.

Apply silicone around the heater cable on top of the sealing grommet and fill any voids in sealing grommet.

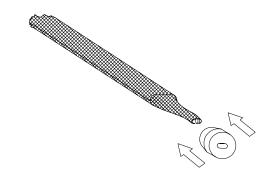
6 Slide the box adapter over the heater cable and tighten securely to stand-off.

- Prepare heater cable for power termination: for Braided "CB" Products, see sheet 3. for Overjacket "J" or "JT" Products, see sheet 4.
- Terminate heater cable, see sheet 7.

SEALING GROMMET INSTALLATION FOR BRAIDED "CB" PRODUCTS

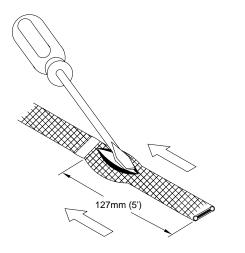


- Slide braid back, allowing at least 13mm (.5") of heater cable exposed.
- **2** Cut and remove 13mm (.5") of heater cable.

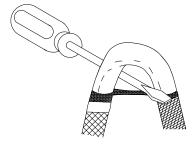


- Slide braid back over heater cable and twist excess braid into a pigtail.
- Slide the sealing grommet over the heater cable and position inside stand-off opening.
- **6** Continue with step 4 on sheet 2.

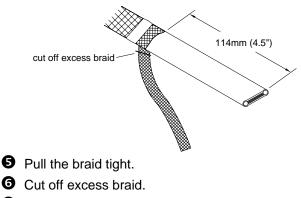
BRAIDED "CB" PRODUCTS



- Secure cable braid with fiberglass tape.
- 2 Slide braid back 127mm (5") to create a bulge.
- At the bulge, separate the braid to make an opening.

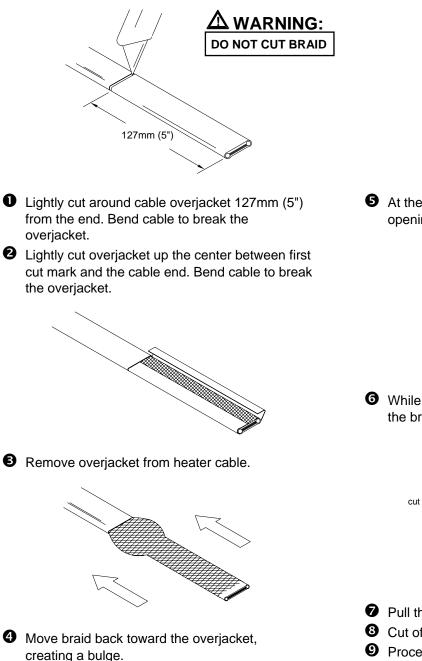


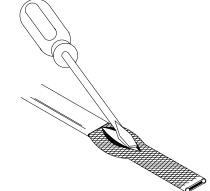
• While bending the heater cable, work it through the braid opening.



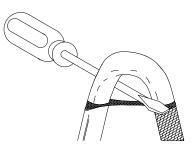
Proceed to "LT, CLT & HLT Products", sheet 5

OVERJACKET "J or "JT" PRODUCTS

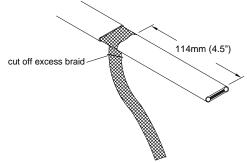




• At the bulge, separate the braid to make an opening.



• While bending the heater cable, work it through the braid opening.



- Pull the braid tight.
- 8 Cut off excess braid.

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9 Proceed to "LT, CLT & HLT Products", sheet 5.

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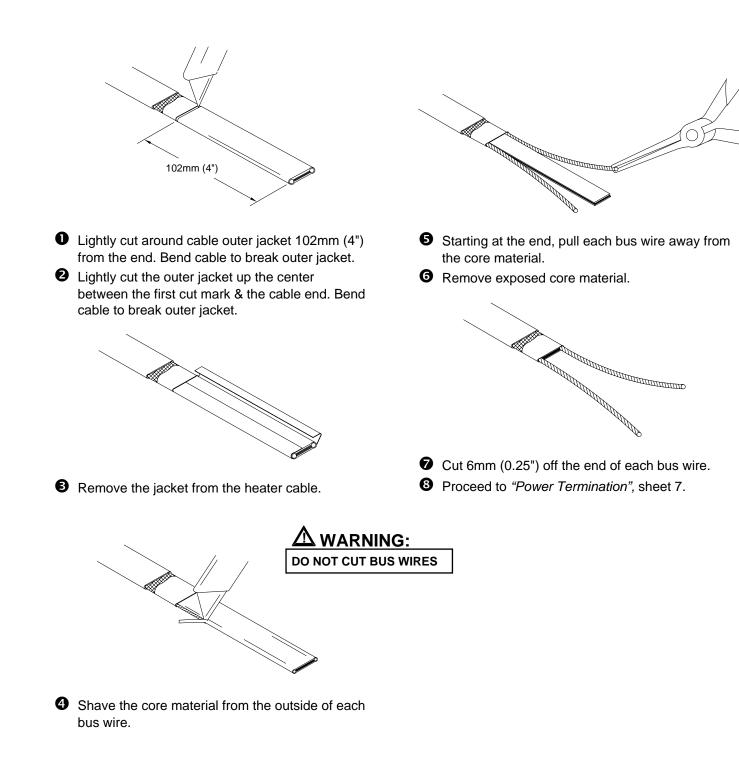
P.O. BOX 726

TULSA, OK 74101

TEL 918-627-5530

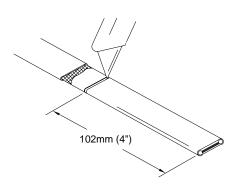
FOR ALL NELSON LT, CLT & HLT PRODUCTS

(See sheet 6 for an alternate stripping method for HLT products.)

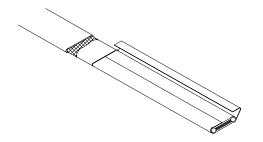


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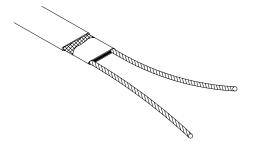
HLT PRODUCTS ALTERNATE STRIPPING METHOD



- Lightly cut around cable outer jacket 102mm (4") from the end. Bend cable to break outer jacket.
- Lightly cut the outer jacket up the center between the first cut mark & the cable end. Bend cable to break outer jacket.



3 Remove the jacket from the heater cable.

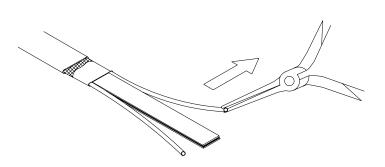


TULSA, OK 74101

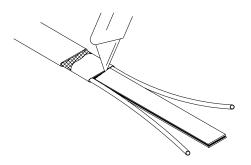
TEL 918-627-5530

FAX 918-641-7336

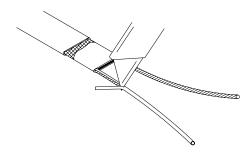
• Make a cut inside each bus wire.



Starting at the end, in the same plane as the cable, pull each bus wire away from the core material.



6 Remove the exposed core material.

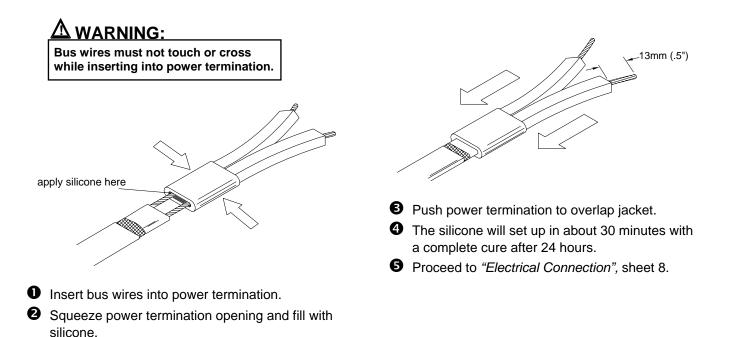


- Remove the remaining core material off the outside of each bus wire.
- **8** Cut 6mm (0.25") off the end of each bus wire.

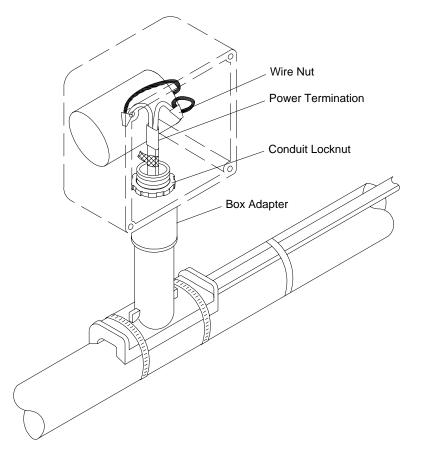
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9 Proceed to *"Power Termination",* sheet 7.

POWER TERMINATION



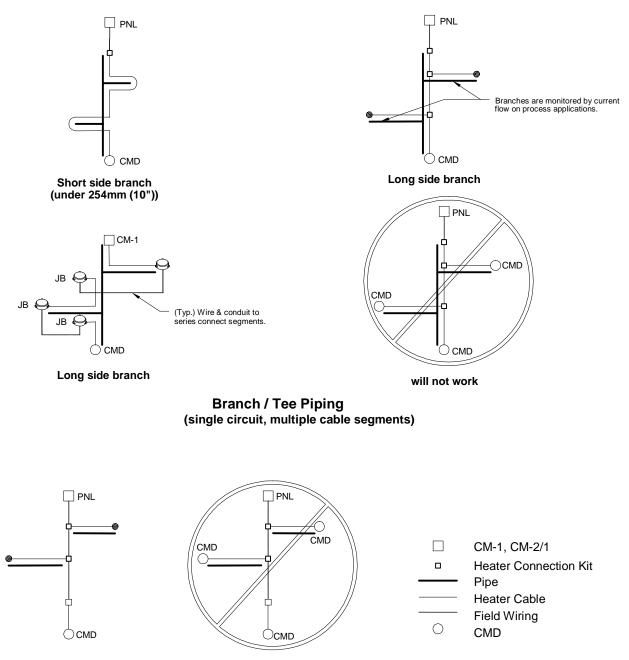
CMD DEVICE CONNECTION



Note: This detail shows Overjacket "J" or "JT" Products only. For Braided "CB" Products see diagram on sheet 1.

- Place gasket onto the box adapter.
- **2** Position the CMD device onto the box adapter and secure it with the conduit locknut.
- 6 Connect heater bus wires together with the CMD lead wires using the wire nuts. (See diagram above.)
- Make sure all wires are placed inside the CMD device.
- Place the box cover and box cover gasket onto the CMD device.
- 6 See sheet 9 for "CMD Cable Connections to CM-1 and CM-2/1".

CMD CABLE CONNECTIONS TO CM-1 & CM-2/1



will not work

Grouped Segments (several separate cables through single monitor point)

Nelson Heat Tracing Systems products are supplied with a limited warranty. Complete Terms and Conditions may be found on Nelson's website at <u>www.nelsonheaters.com</u>.