

Power Connection Kit Installation Instructions

Terminator DP-M

for use with TEK and HTEK series constant watt heating cables

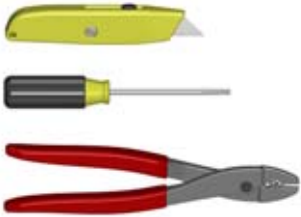


For Power Connection (1 Cable), In-Line Splice Connection,
or End Termination (1 Cable) Applications

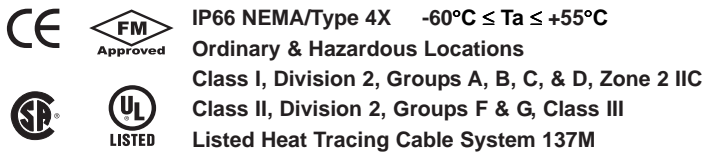
Item	Qty	Description
1	1	Support Cap w/ O-ring
2	1	Threaded Grommet Compressor
3	3	Grommets (GRW-L, GRW-G, and GRW-F)
4	1	Support Base w/ O-ring
5	1	Junction Box Lid
6	1	Junction Box Base w/ O-ring
7	1	Nut
8	1	Banding
9	1	Banding Guide
10	1	Terminal Block Jumper
11	1	Terminal Blocks w/ DIN Rail <small>(Refer to terminal specifications for maximum allowable wire size)</small>
12	1	Junction Box Cord



Tools Required



Certifications/Approvals

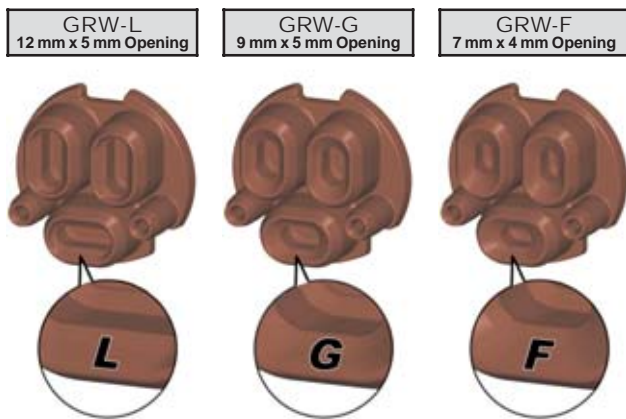


Warnings

- Due to the risk of electrical shock, arcing and fire caused by product damage or improper usage, installation or maintenance, a ground-fault protection device is required.
- Installation must comply with Thermon requirements and be installed in accordance with the NEC, CEC, or any other applicable national and local codes.
- Install correct heating cable lengths indicated in the design. Any deviations from these lengths will result in a change in outputs.

- Component approvals and performance ratings are based on the use of Thermon specified parts only. User supplied power connection fittings must be UL Listed or certified for intended use.
- De-energize all power sources before opening enclosure.
- Keep ends of heating cable and kit components dry before and during installation.

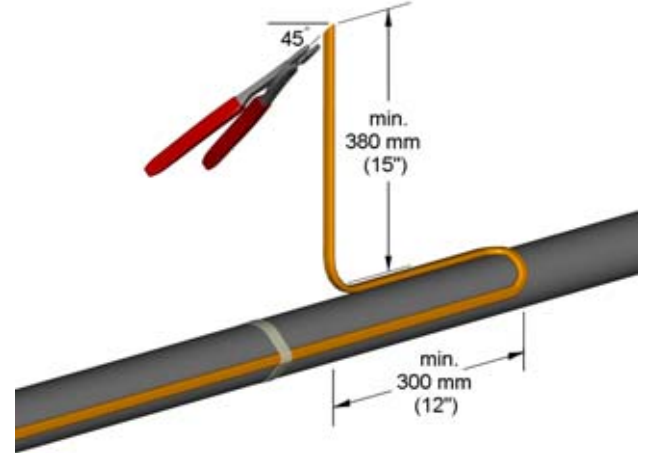
Cable Type	Cable Type	Cable Type
HTEK 3C60	HTEK 3C40	HTEK 2C50
HTEK 3C50	HTEK 3C30	HTEK 2C40
TEK 3C70	HTEK 2C70	HTEK 2C30
	HTEK 2C60	TEK 3C40
	TEK 3C60	TEK 3C30
	TEK 3C50	TEK 2C60
	TEK 2C70	TEK 2C50
		TEK 2C40
		TEK 2C30



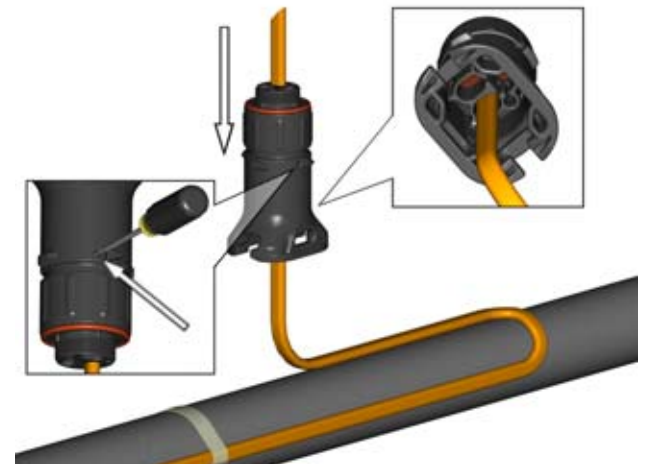
1. Select appropriate grommet for specific cable type.



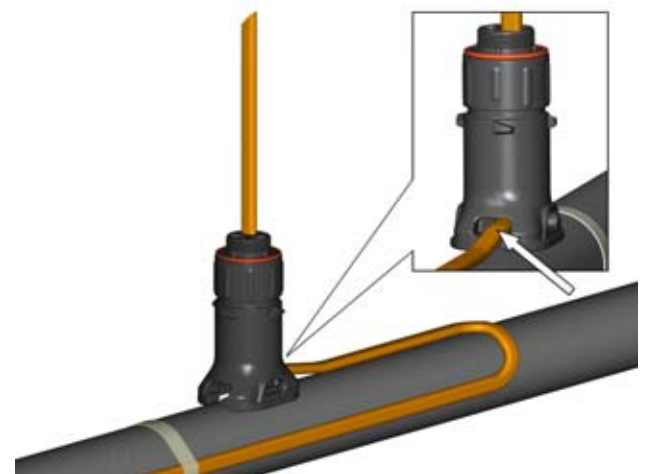
2. Put together expeditor assembly. Place grommet in support base. Snap threaded grommet compressor into support base. Screw support cap onto support base.



3. Cut end of cable at angle (or use screwdriver) to aid in piercing grommet. Leave additional cable for expansion loop. See page 11 for in-line splice (two cable) installation tips.



4. Insert cable into expeditor. If mounted on bottom of pipe, punch out weep hole.



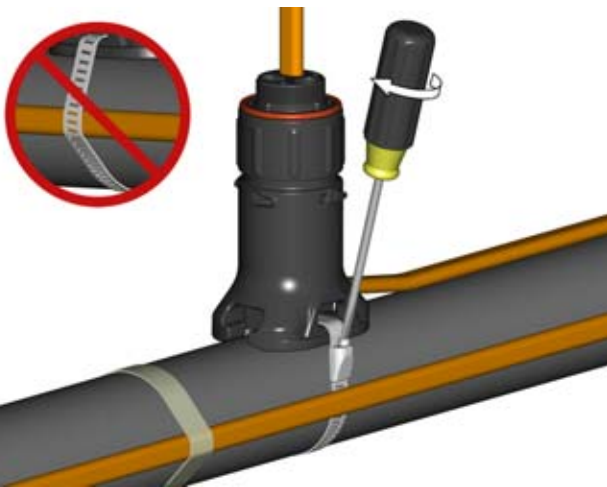
5. Slide expeditor toward pipe and route cable through support base entry.



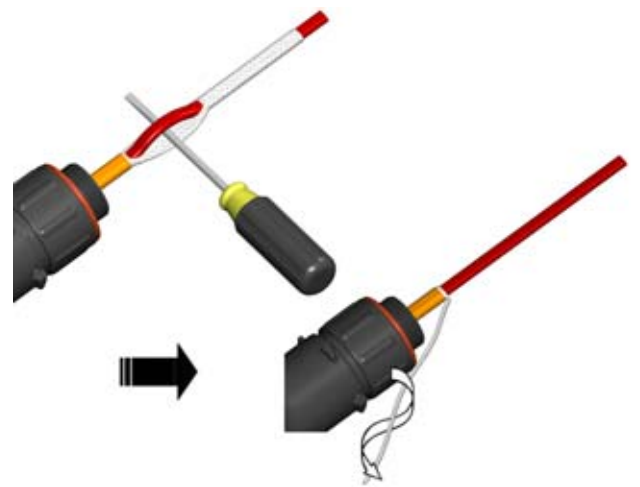
6. Insert banding guide into expediter and snap into place.



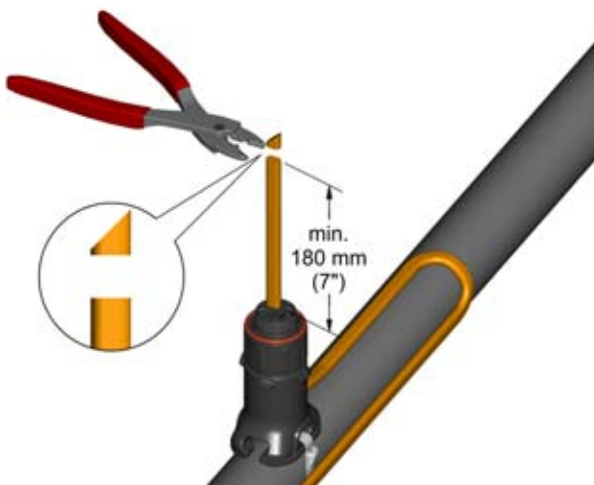
9. Cut and remove overjacket by scoring overjacket and bending cable. Do not cut metallic braid.



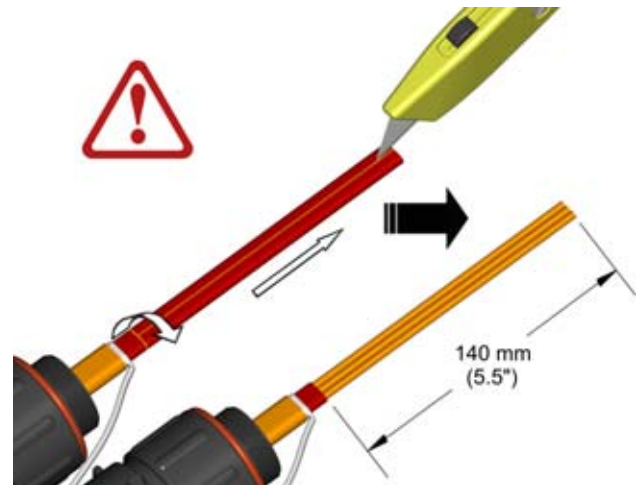
7. Mount expediter to pipe using pipe band. Do not band over cable.



10. Separate braid strands at edge of overjacket and pull cable through opening in braid. Twist braid into a pigtail. Trim ends of braid.

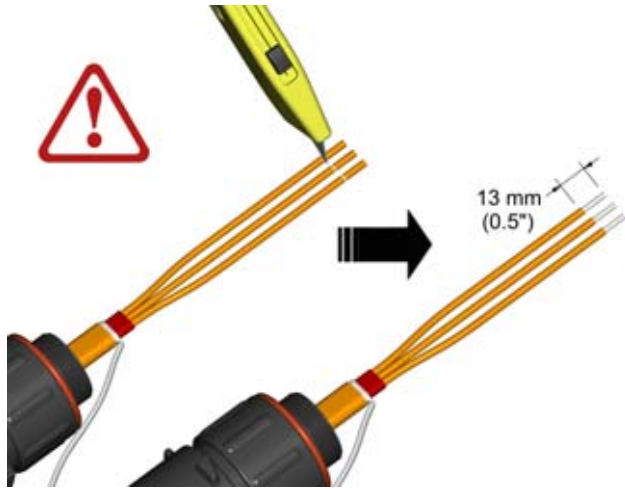


8. Cut off end of cable.

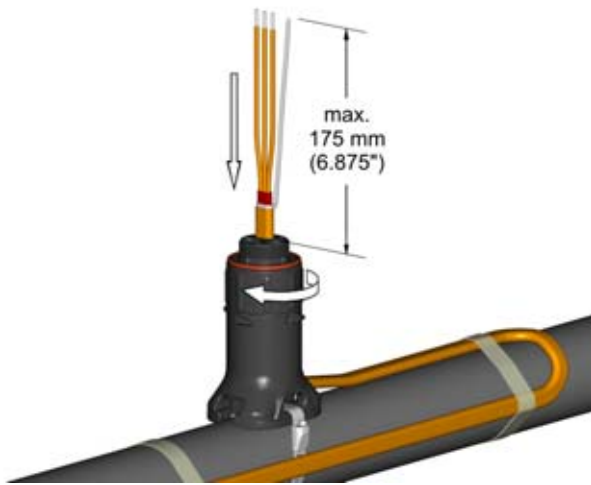


11. Cut and remove pairing jacket by scoring pairing jacket and bending cable. Do not cut insulation on conductors.

Note: Three (3) conductor cable is shown in the instructions and is representative of two (2) conductor cable installations.



12. Remove insulation and fiberglass braid (HTEK only) from ends of each conductor. Do not cut bus wire strands.



13. Push excess cable back through expediter. Tighten cap securely. Tape cable expansion loop to pipe.



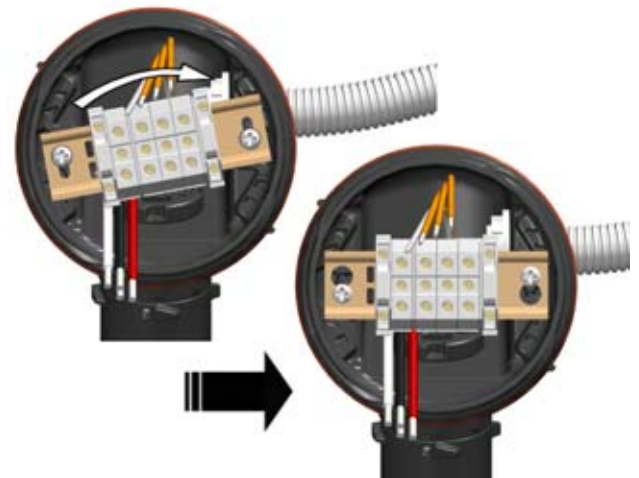
14. Using dimple molded into side of junction box base to locate center of hole, drill for user supplied power connection fittings per manufacturer's recommendations (if necessary).



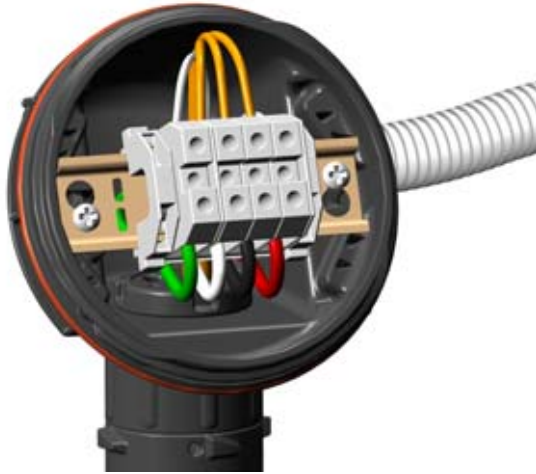
15. Mount junction box base on expediter. Make sure to align slots to properly orient junction box base.



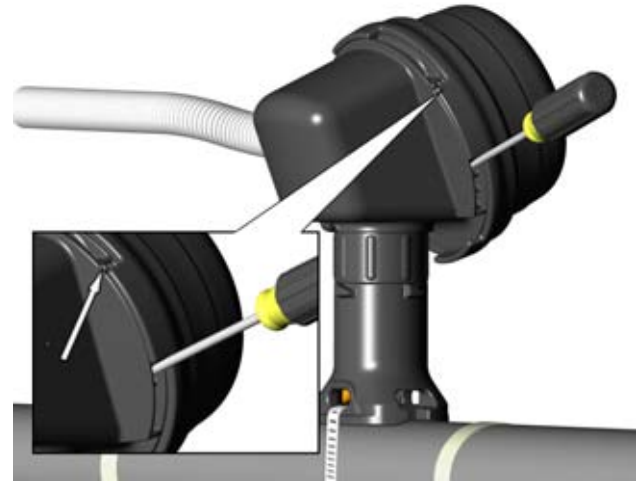
16. Install power connection fittings (user supplied) and pull in power and ground wires (if necessary).



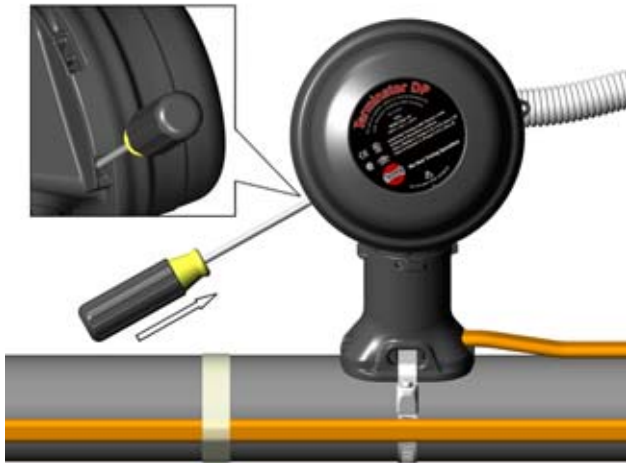
17. Install quick mount terminal blocks.



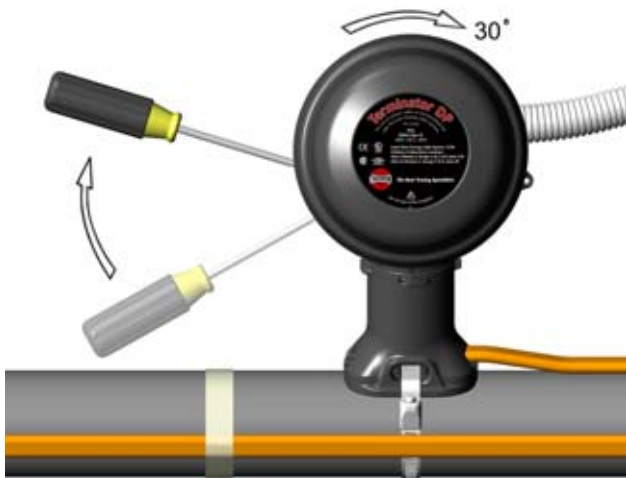
18. Complete system wiring. See page 12 for wiring details for two conductor cables and page 13 for three conductor cables.



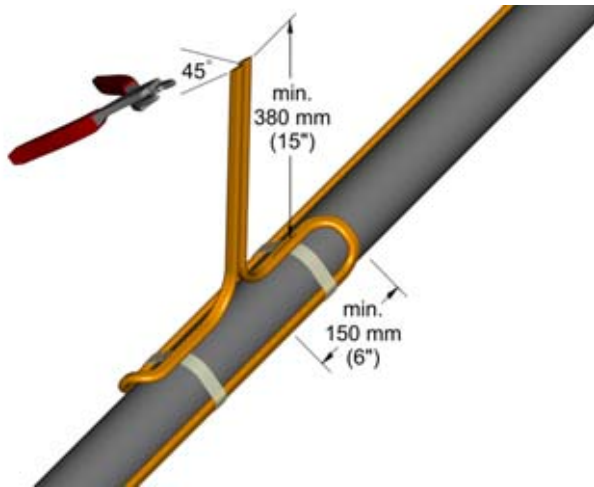
21. Lid latch mechanism fully engaged.



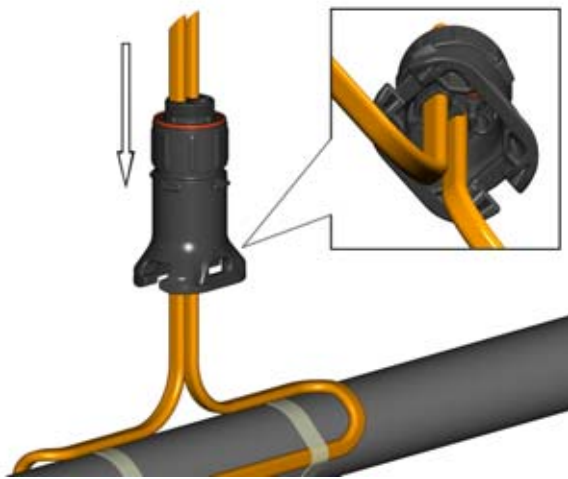
19. Install junction box lid and twist hand tight. Insert screwdriver into ratchet slots located on side of junction box base.



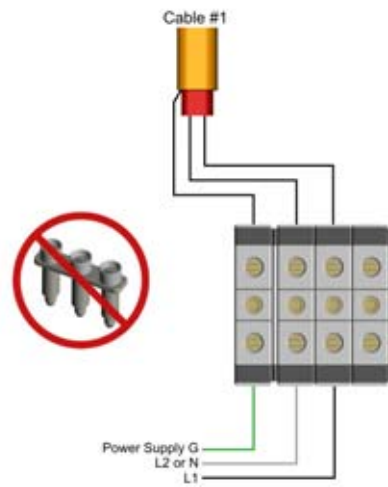
20. Use screwdriver to ratchet on junction box lid. Lid will rotate 30 degrees.



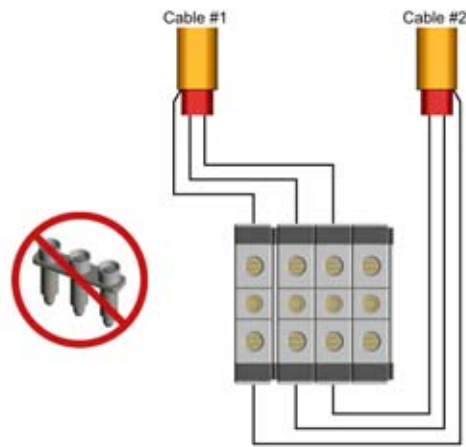
A1. Cut end of cable at angle (or use screwdriver) to aid in piercing grommet. Leave additional cable for expansion loop.



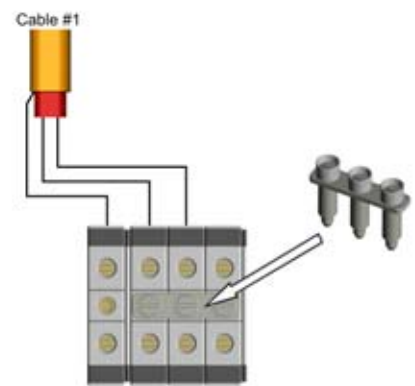
A2. Insert two cables into expediter.



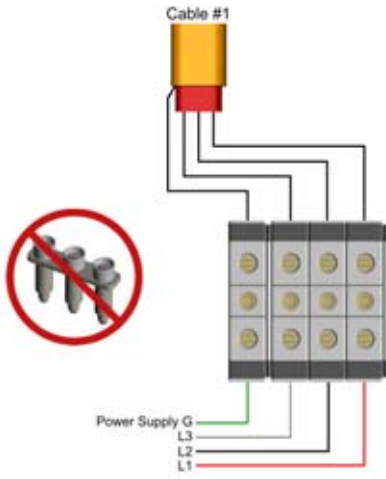
B1. Power Connection (1 Cable)



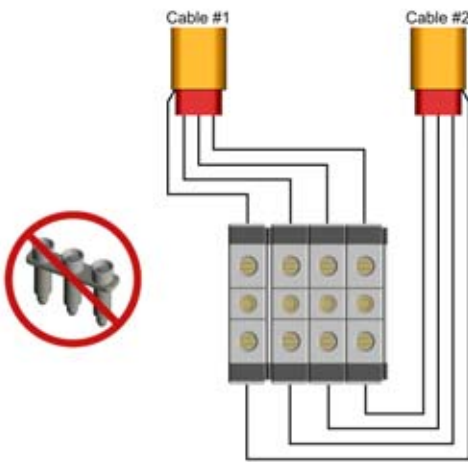
B2. In-Line Splice



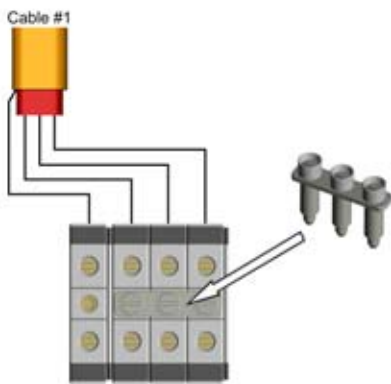
B3. End Termination (1 Cable Only)
Install jumper to terminal blocks.



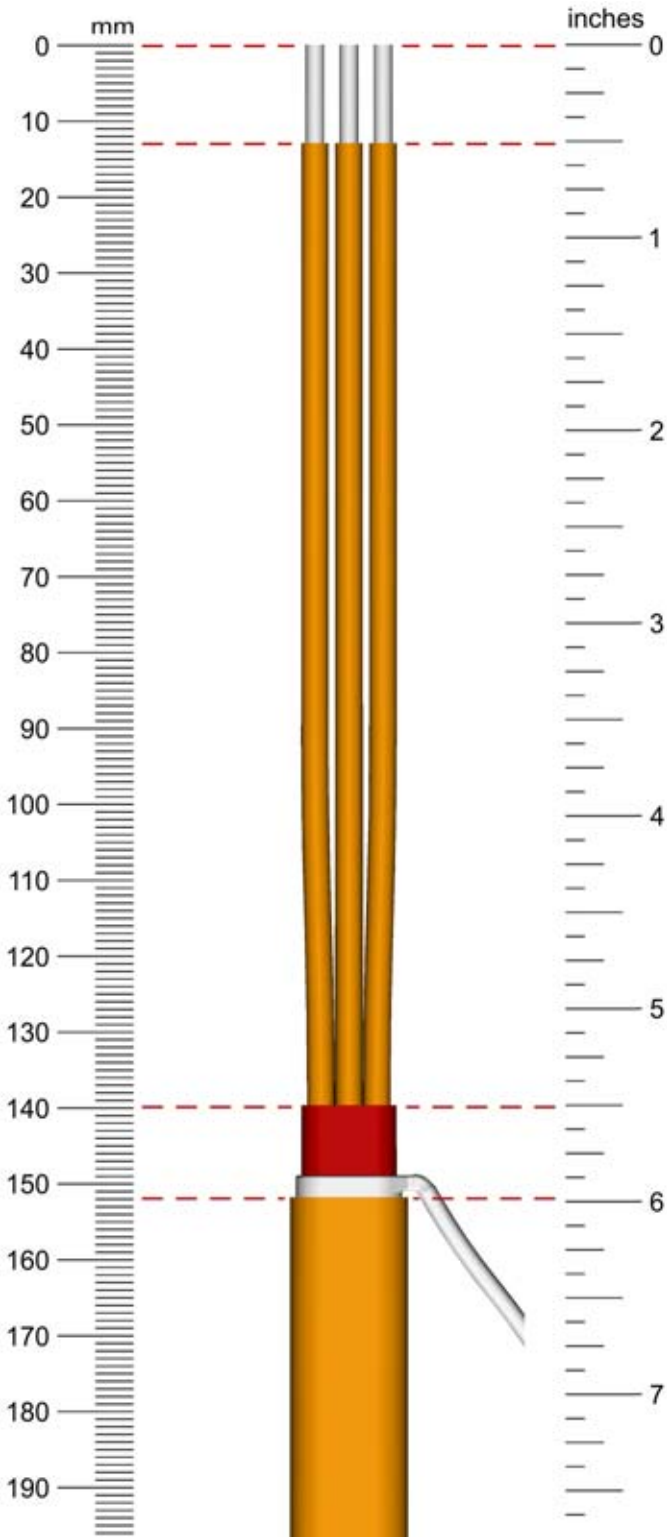
C1. Power Connection (1 Cable)



C2. In-Line Splice



C3. End Termination (1 Cable)
Install jumper to terminal blocks.



Form No. 50826 (08/25/04)



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