Power Connection Kit
Installation Instructions

Terminator ZP-S

for use with HPT power-limiting and FP constant watt heating cables

For Power Connection (1-3 Cables), In-Line Splice Connection,
T-Splice Connection, or End Termination (1-2 Cables) Applications

Kit Contents

Item	Qty	Description
1	1	**Expediter Assembly** Support Cap w/ O-ring Threaded Grommet Compressor Grommet Support Base w/ O-ring
2	1	**Junction Box Lid**
3	1	**Junction Box Base w/ O-ring**
4	1	**Nut**
5	1	**Banding**
6	1	**RTV Tube**
7	3	**Power Connection Boots**
8	1	**Banding Guide**
9	1	**Terminal Blocks w/ DIN Rail** (Refer to terminal specifications for maximum allowable wire size)
10	3	**Ground Sleeves**
11	1	**Junction Box Cord**

Tools Required

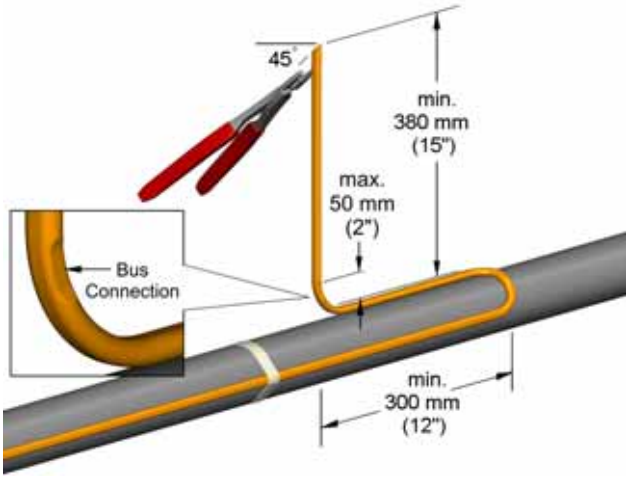
Certifications/Approvals

IP66 NEMA/Type 4X -60°C ≤ Ta ≤ +55°C
Listed Heat Tracing Cable System 137M
Ordinary & Hazardous Locations
Class I, Division 2, Groups A, B, C & D
Class II, Division 2, Groups F & G, Class III
Class I, Zone 1, AEx e II T4/T6
Ex e II T4/T6

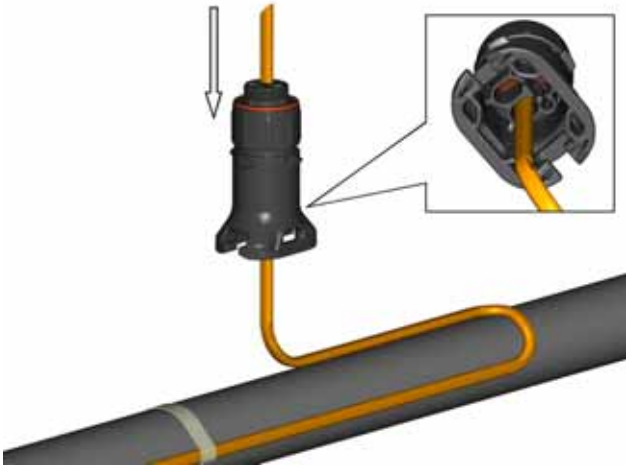
CE 0539 Ex II 2 G & D EEx e II T4/T6 D 01ATEX0021995

Warnings

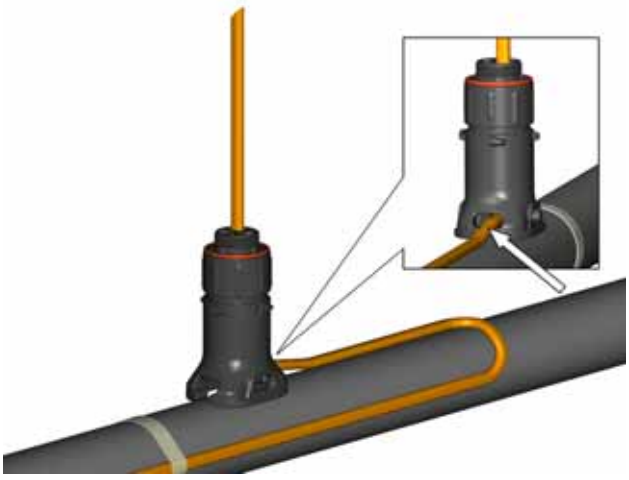
- Due to the risk of electrical shock, arcing and fire caused by product damage or improper usage, installation or maintenance, a ground-fault protection device is required.
- Installation must comply with Thermon requirements and be installed in accordance with the NEC, CEC, or any other applicable national and local codes.
- Component approvals and performance ratings are based on the use of Thermon specified parts only. User supplied power connection fittings must be European certified for EEx e or UL Listed or certified for AEx e (North America only).
- De-energize all power sources before opening enclosure.
- Keep ends of heating cable and kit components dry before and during installation.



1. **Locate bus connection and cable as shown. Cut end of cable at angle to aid in piercing grommet. Leave additional cable for expansion loop. See pages 11-12 for multiple cable installation tips.**

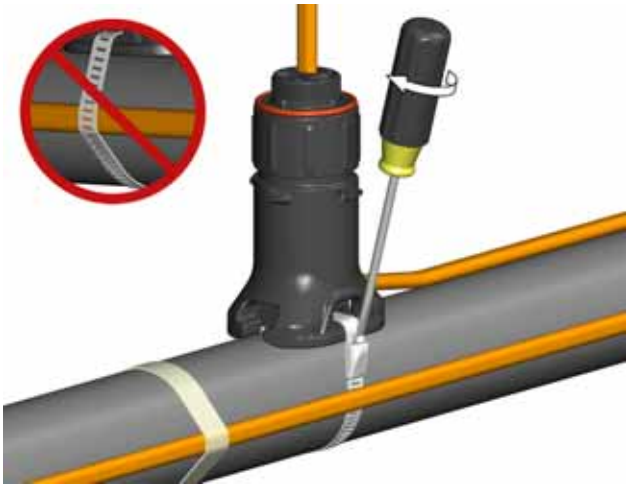


2. **Insert cable into expediter. If mounted on bottom of pipe, punch out weep hole.**

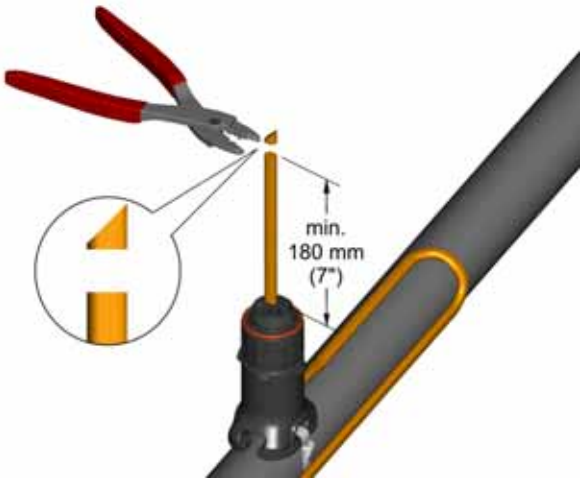


3. **Slide expediter toward pipe and route cable through support base entry.**

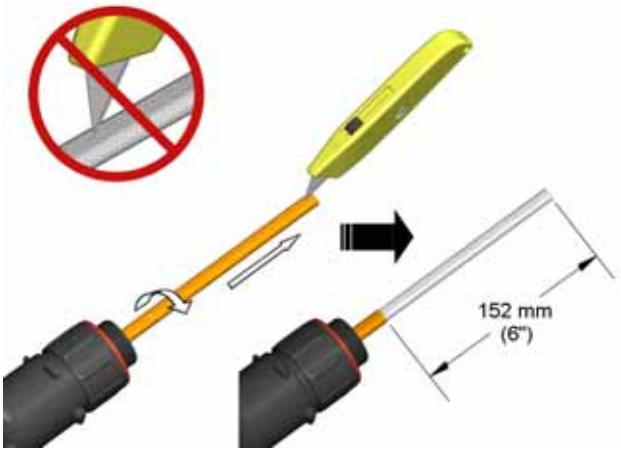
4. **Insert banding guide into expediter and snap into place.**



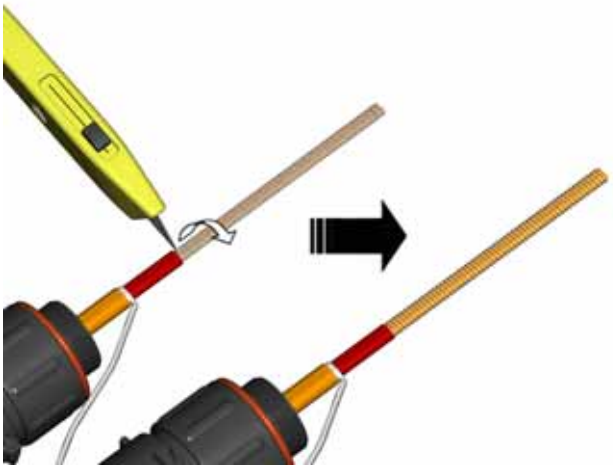
5. **Mount expediter to pipe using pipe band. Do not band over cable.**



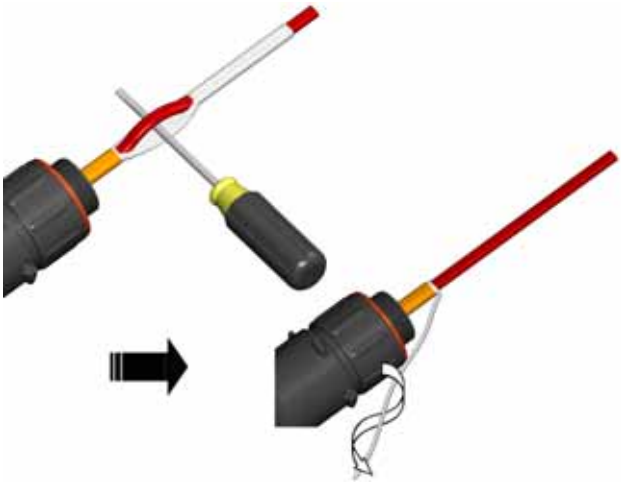
6. **Cut off end of cable.**



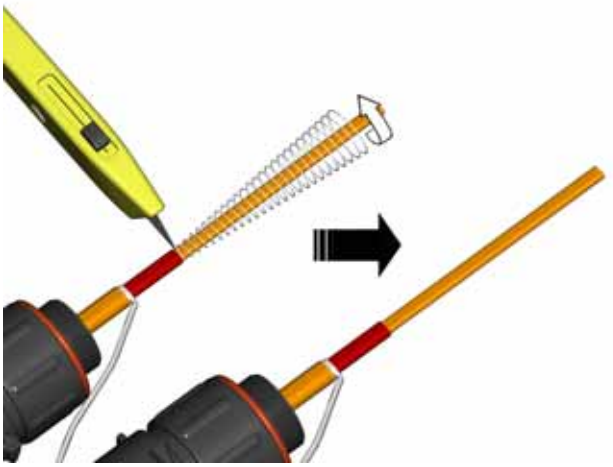
7. **Cut and remove overjacket. Do not cut metallic braid.**



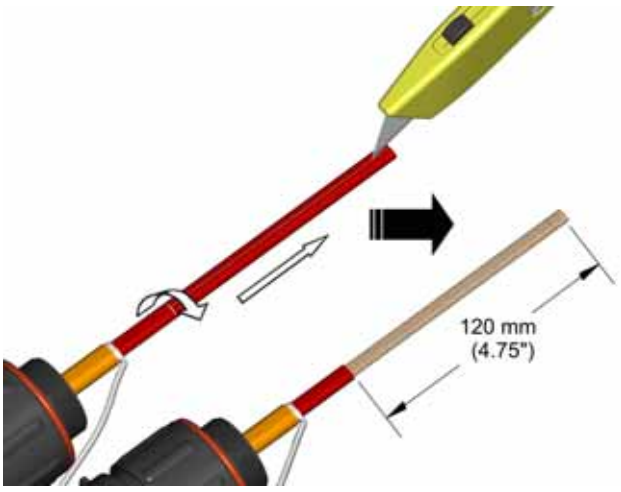
10. **Cut and remove fiberglass braid. Omit this step for FP cable.**



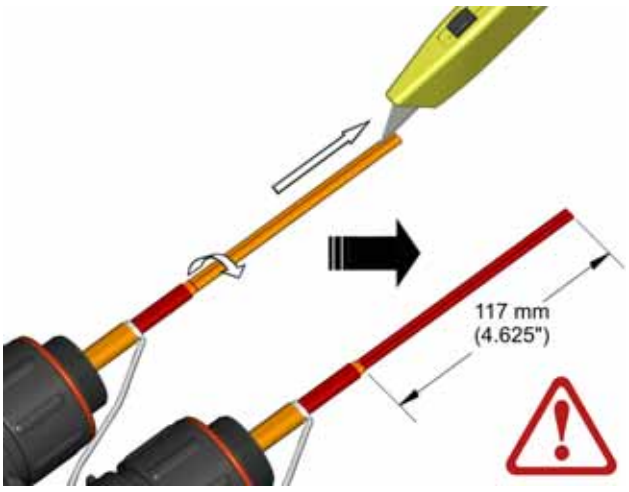
8. **Separate braid strands at edge of overjacket and pull cable through opening in braid. Twist braid into a pigtail. Trim ends of braid.**



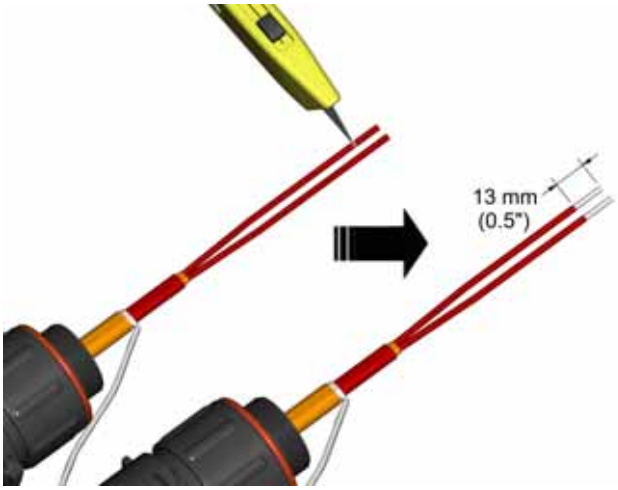
11. **Cut and remove heating element and fiberglass overlay (FP cable only). Push any remaining heating element wire under the primary insulation jacket.**



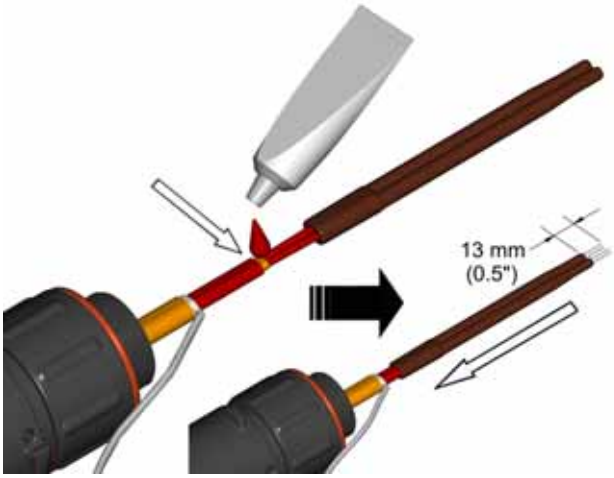
9. **Cut and remove primary insulation jacket.**



12. **Cut and remove pairing jacket. Do not cut bus wire insulation.**

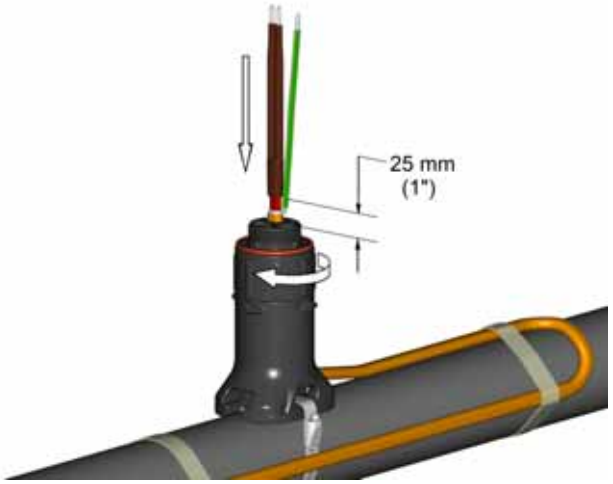


13. **Remove insulation from ends of bus wires.**



14. **Apply a liberal amount of RTV sealant to cable. Slide boot onto the end of the cable.**

15. **Slide green/yellow ground sleeve over twisted braid.**

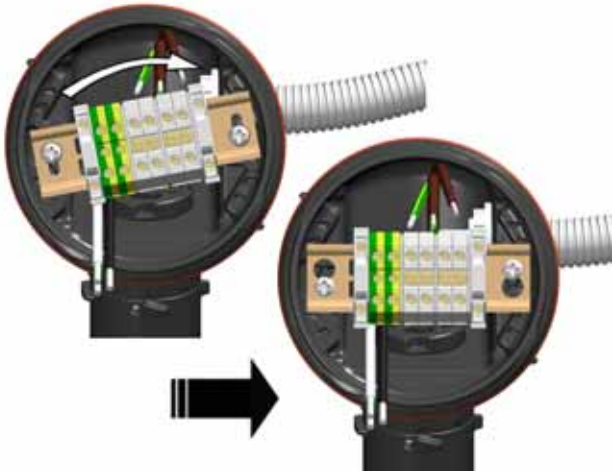


16. **Push excess cable back through expediter. Tighten cap securely. Tape cable expansion loop to pipe.**

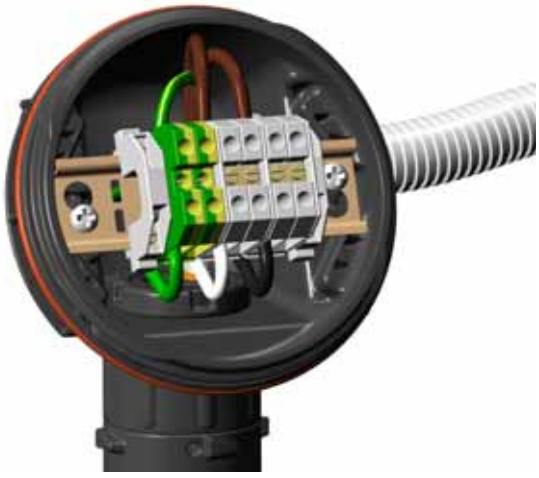
17. **Using dimple molded into side of junction box base to locate center of hole, drill for user supplied power connection fittings per manufacturer's recommendations (if necessary).**

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

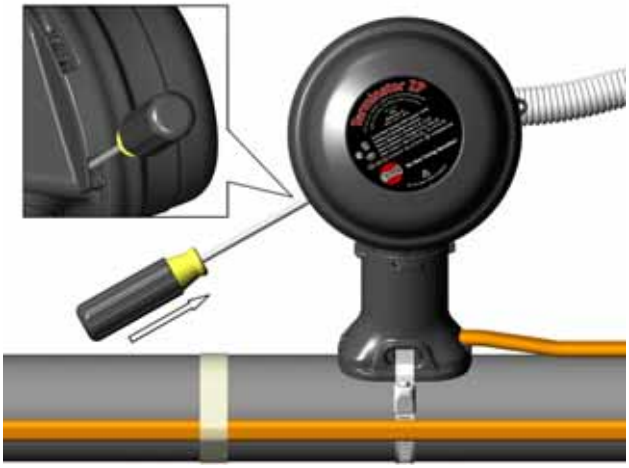
19. **Install power connection fittings (user supplied) and pull in power and ground wires (if necessary).**



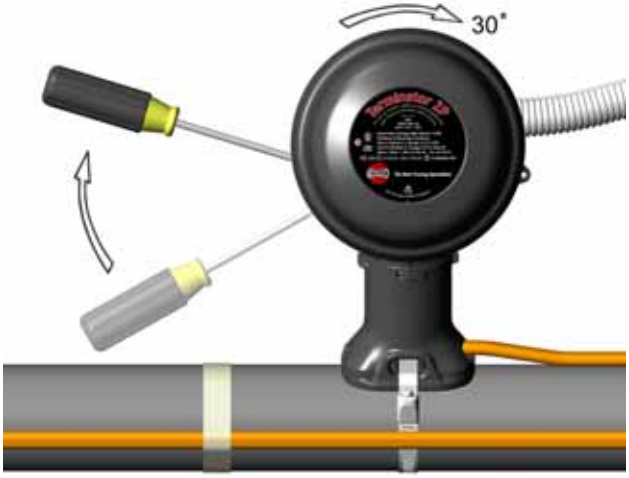
20. **Install quick mount terminal blocks.**



21. **Complete system wiring. Terminal set screws shall be tightened to a torque value of 1.4 Nm (12.4 lb-in).**
See page 13 for wiring details.

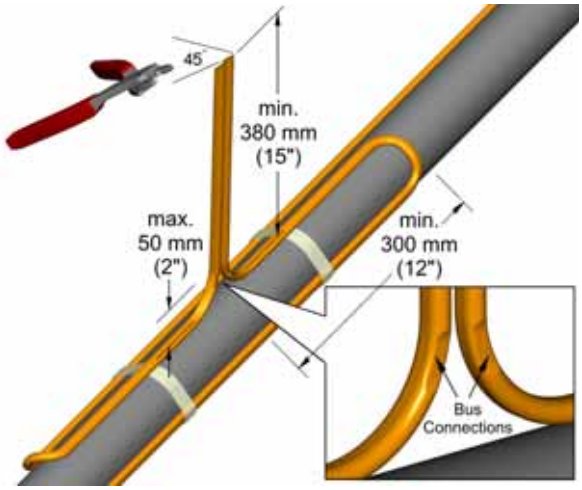


22. **Install junction box lid and twist hand tight. Insert screwdriver into ratchet slots located on side of junction box base.**

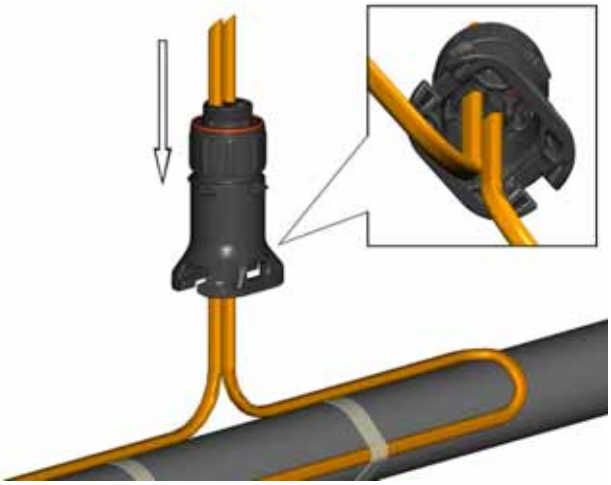


23. **Use screwdriver to ratchet on junction box lid. Lid will rotate 30 degrees.**

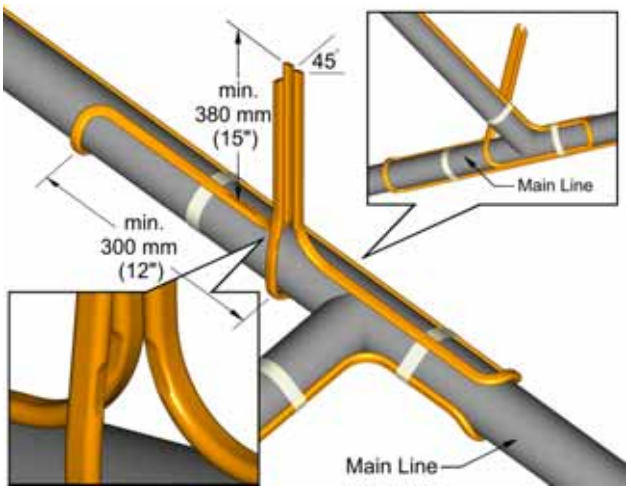
24. **Lid latch mechanism fully engaged.**



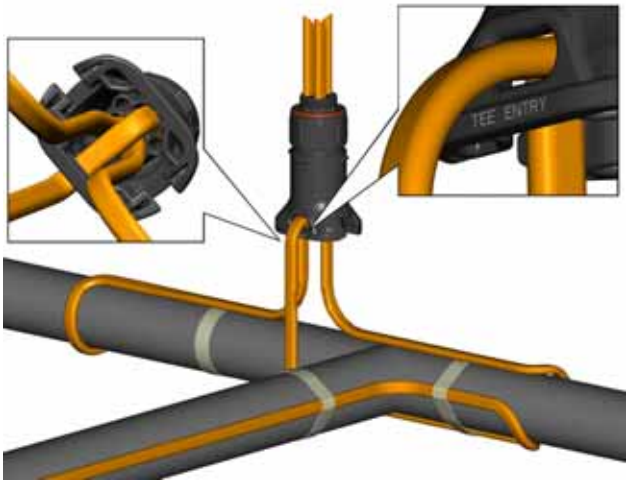
A1. **Locate bus connection and cable as shown. Cut end of cable at angle to aid in piercing grommet. Leave additional cable for expansion loop.**



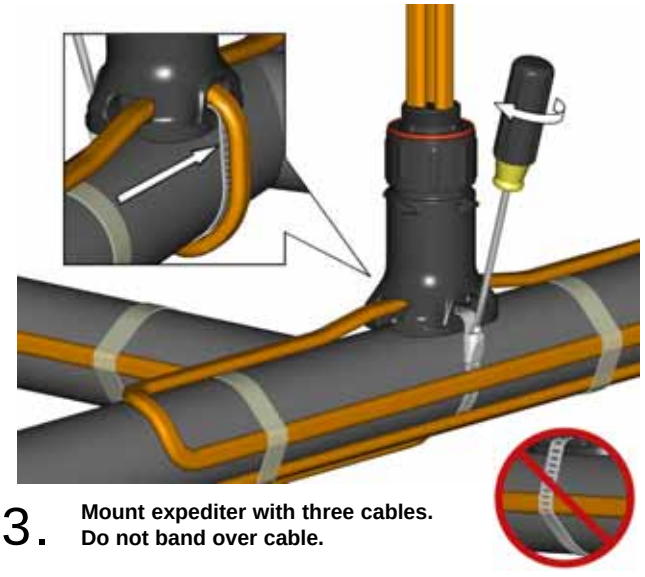
A2. **Insert two cables into expediter.**



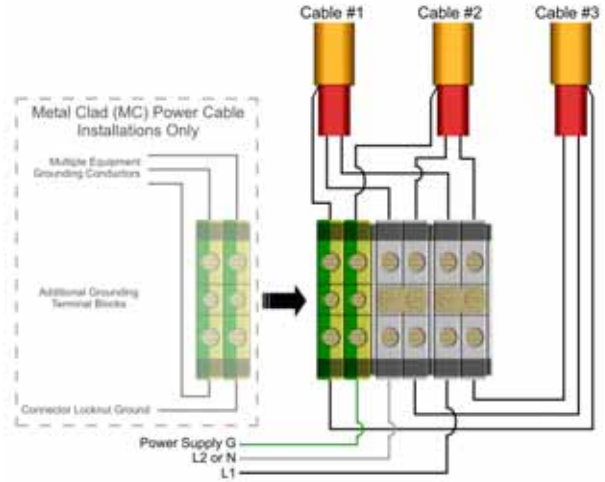
B1. **Locate bus connection and cable as shown. Cut end of cable at angle to aid in piercing grommet. Leave additional cable for expansion loop.**



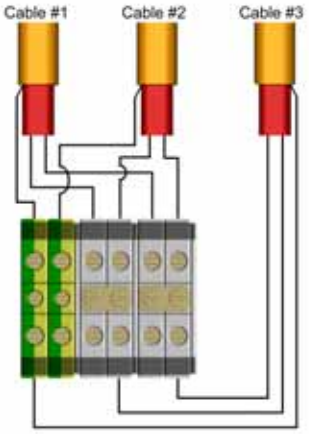
B2. **Insert three cables into expediter.**



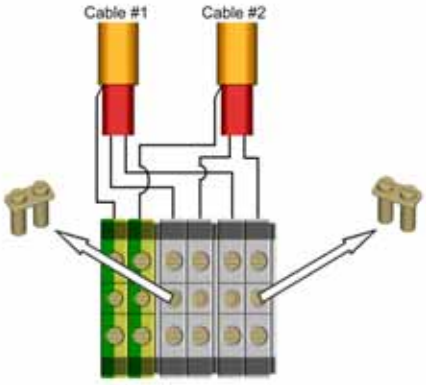
B3. **Mount expediter with three cables. Do not band over cable.**



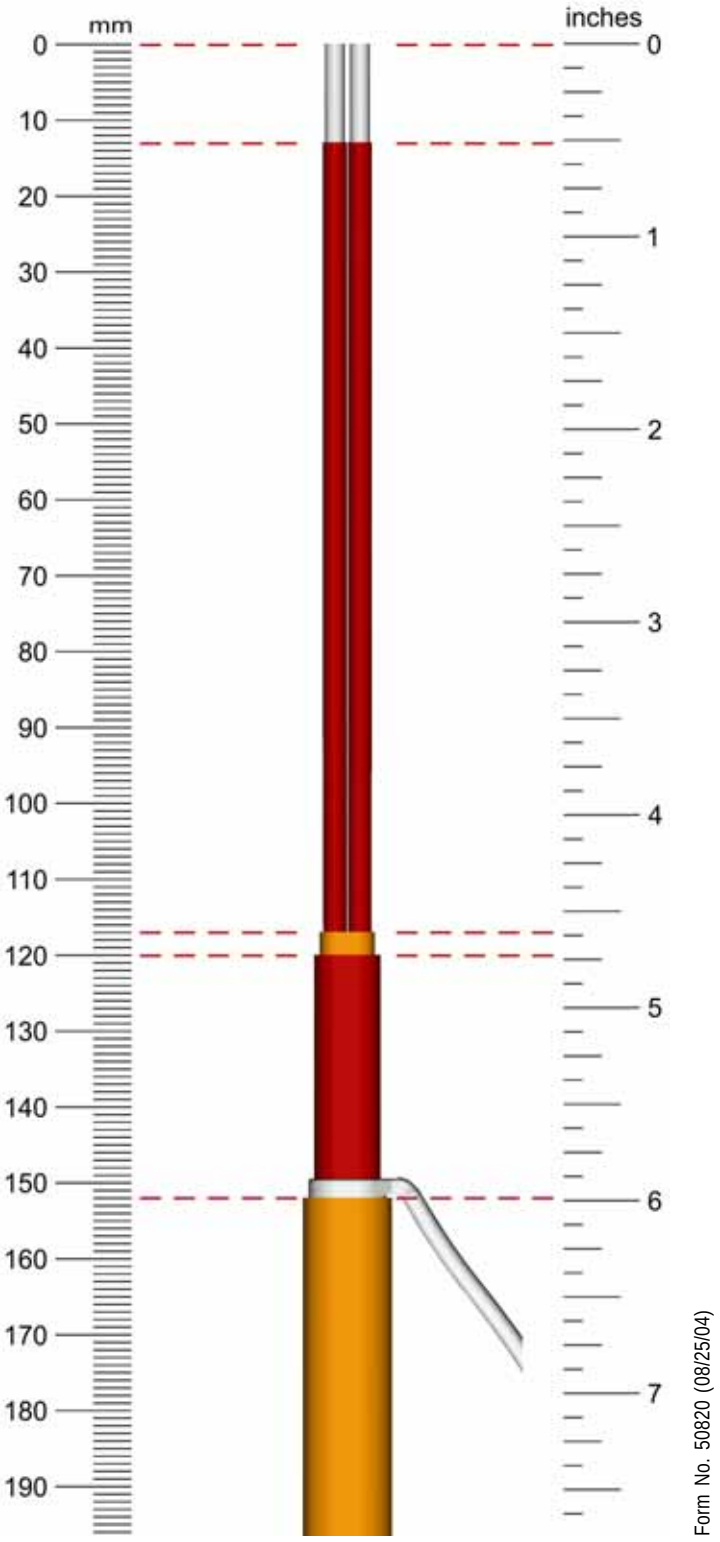
C1. **Power Connection (1 to 3 Cables)**



C2. **In-Line Splice and T-Splice**



C3. **End Termination (1 to 2 Cables)**
Remove jumpers for 2 cable terminations.



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