

Terminator™ DP-MS

SPLICE CONNECTION KIT



INSTALLATION GUIDE

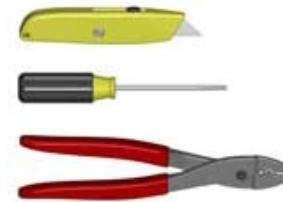
Terminator™ DP-MS Splice Connection Kit

Kit Contents



Item	Qty.	Description
1	2	Support Cap W/O-Ring
2	2	Threaded Grommet Compressor
3	6	Grommets (GRW-L, GRW-G, and GRW-F)
4	2	Support Base W/O-Ring
5	2	Junction Box Lid
6	2	Junction Box Base W/O-Ring
7	2	Nut
8	2	Banding
9	2	Banding Guide
10	2	Terminal Block Jumper
11	2	Terminal Block W/ DIN Rail ^{1, 2}
12	2	Junction Box Cord
13	2	Flex Tube Fitting
14	1	Flex Tubing
15	3	Lead Wire, PFAH 48"
16	1	Ground Wire, Green 48"

Tools Required



Certifications/Approvals

CE	FM APPROVED	IP66 NEMA/Type 4X -60°C Ta +55°C Ordinary & Hazardous Locations Class I, Division 2, Groups A, B, C, & D, Zone 2 IIC Class II, Division 2, Groups F & G, Class III
SP	UL LISTED	Listed Heat Tracing Cable System 137M

Installation Precautions

- 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.



WARNING! Terminals must be tightened to the correct torque specifications as noted in the instruction steps.

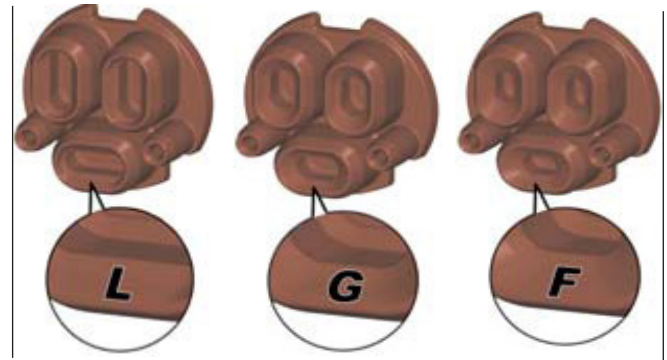
Notes

1. Maximum Conductor Size:
 - a. Rigid 25 mm² (4 AWG)
 - b. Flexible 16 mm² (6 AWG)
2. For alternate Terminal Block configurations, contact factory.

Installation Instructions

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

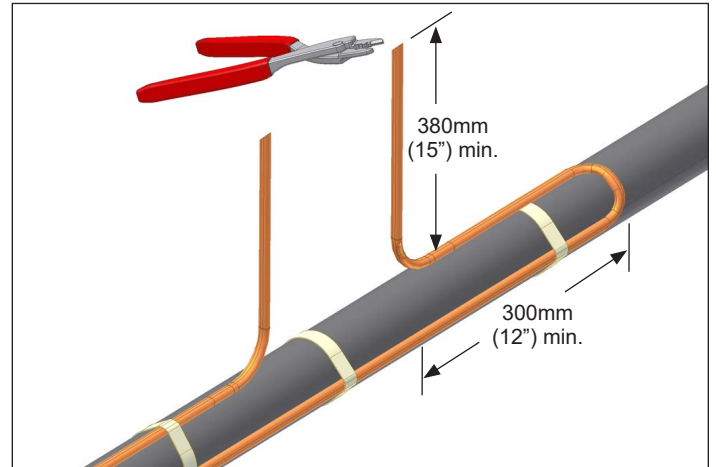
GRW-L	GRW-G	GRW-F
12mm X 5mm (.5" X .2") Opening	9mm X 5mm (.35" X .2") Opening	7mm X 4mm (.27" X .16") Opening



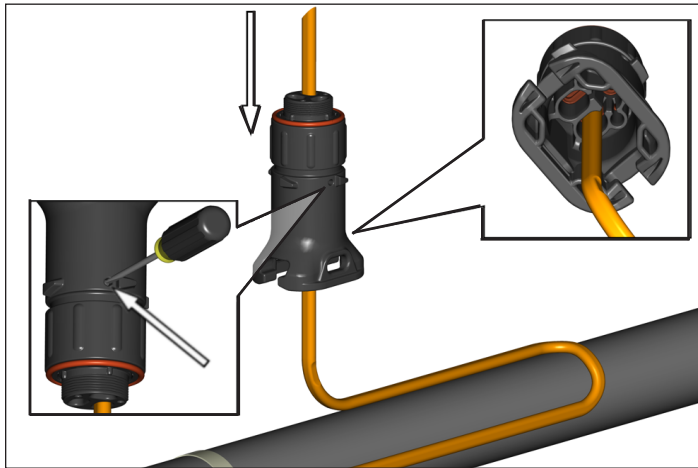
1 Select appropriate grommet for specific cable type.



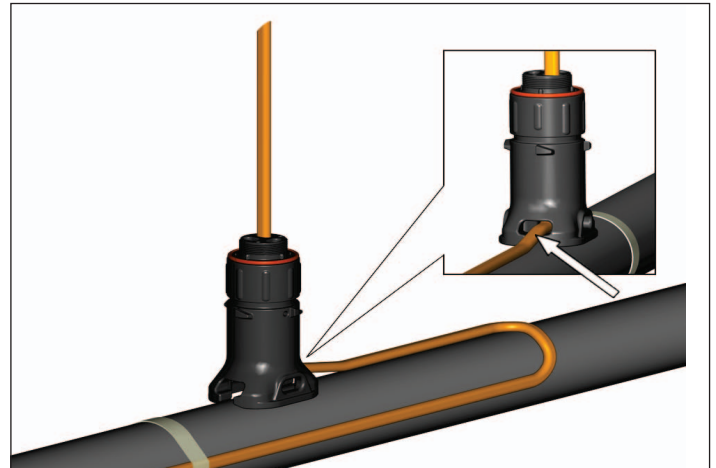
2. Put together expediter assembly. Place grommet in support base. Snap threaded grommet compressor into support base. Screw support cap onto support base.



3. Cut end of cable at angle (or use screwdriver) to aid in piercing grommet. Leave additional cable for expansion loop. For cable types not included in chart above, supplemental instructions may be included.

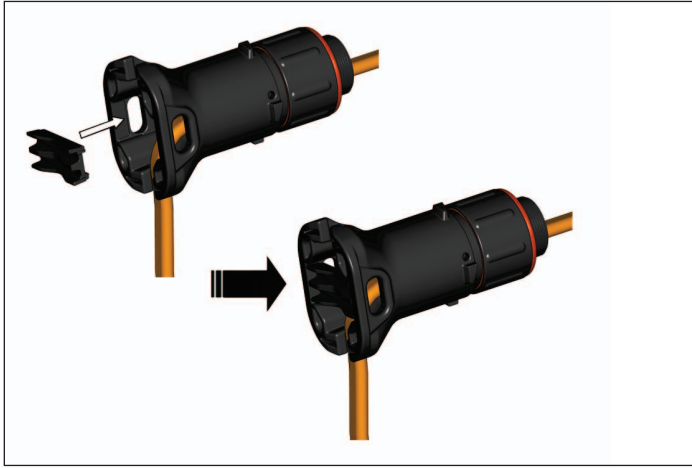


4. Insert cable into expediter. If mounted on bottom of pipe, punch out weep hole.

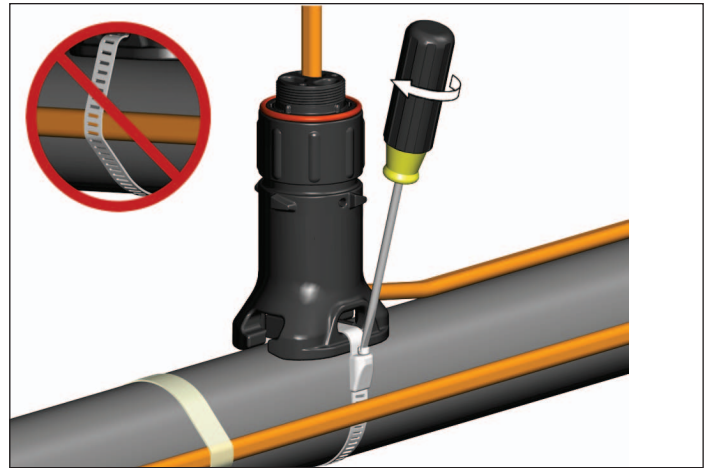


5. Slide expediter toward pipe and route cable through support base entry.

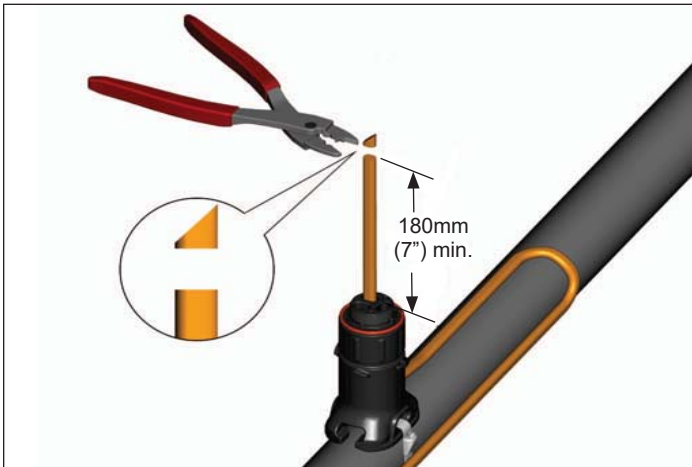
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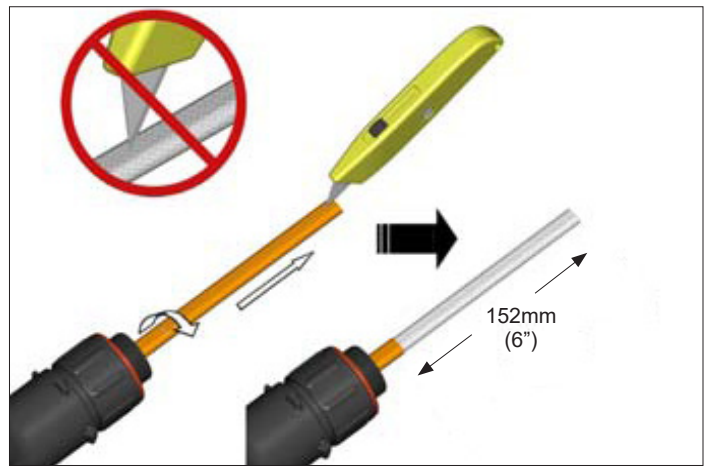
6. Insert banding guide into expediter and snap into place.



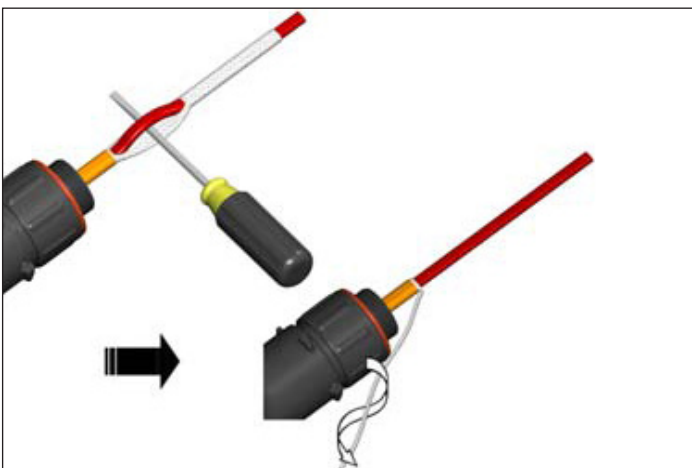
7. Mount expediter to pipe using pipe band. Do not band over cable.



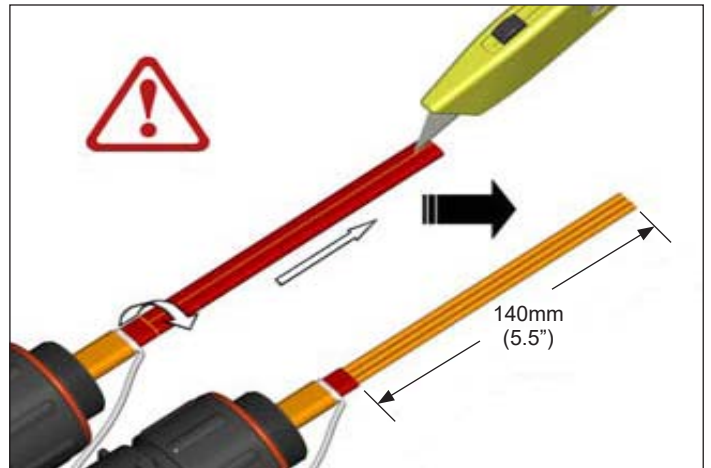
8. Cut off end of cable.



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

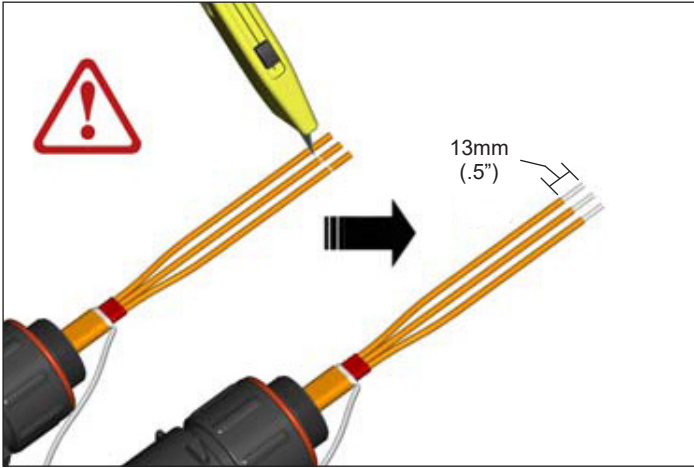


10. Separate braid strands at edge of overjacket and pull cable through opening in braid. Twist braid into a pigtail. Trim ends of braid.

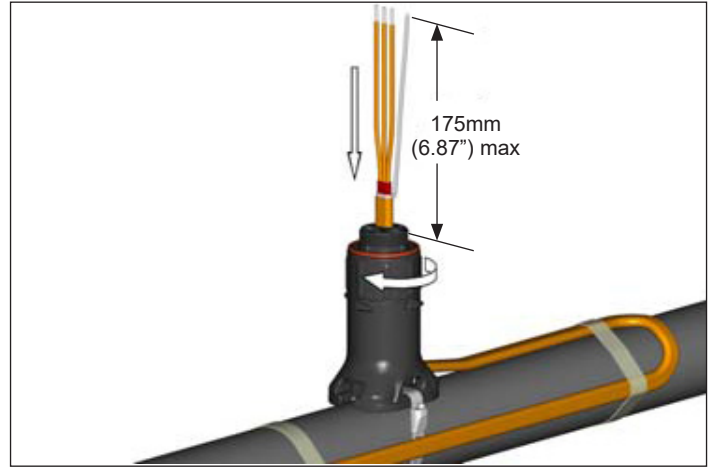


11. Cut and remove pairing jacket by scoring pairing jacket and bending cable. Do not cut insulation on conductors.

Note: Three conductor cable is shown in the instructions and is representative of two 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.

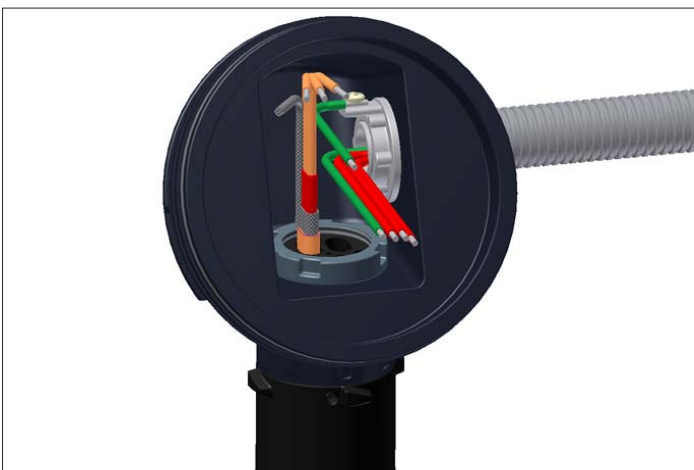


14. Using dimple molded into side of junction box base to locate center of hole, drill for supplied connection fittings per manufacturer's recommendation.

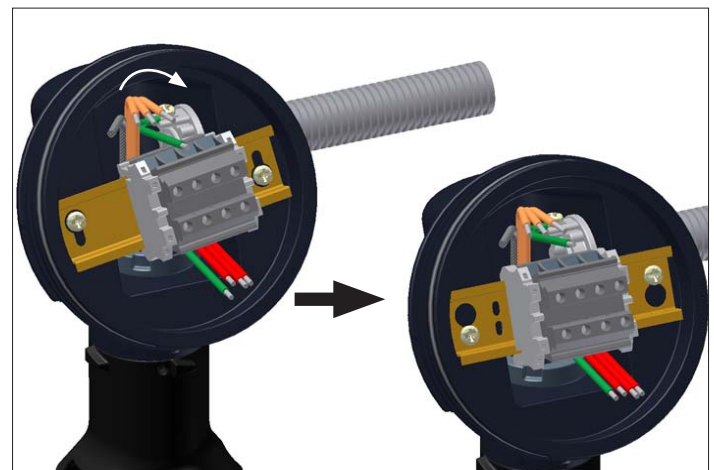


15. Mount junction box base on expediter. Make sure to align slot to properly orient junction box base.

Note: Repeat Steps 1-15 on the second unit.



16. Install connection fitting and pull in power and ground wires. Attach approximately 152mm (6") of green wire to ground lug on connection fitting.

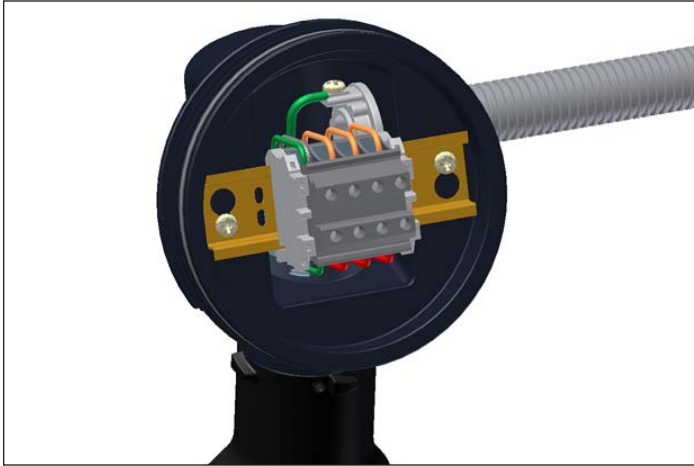


17. Install quick mount terminal blocks.



Warning: Interconnecting cable (customer supplied) shall be at least same size as power cable used to connect main power to unit.

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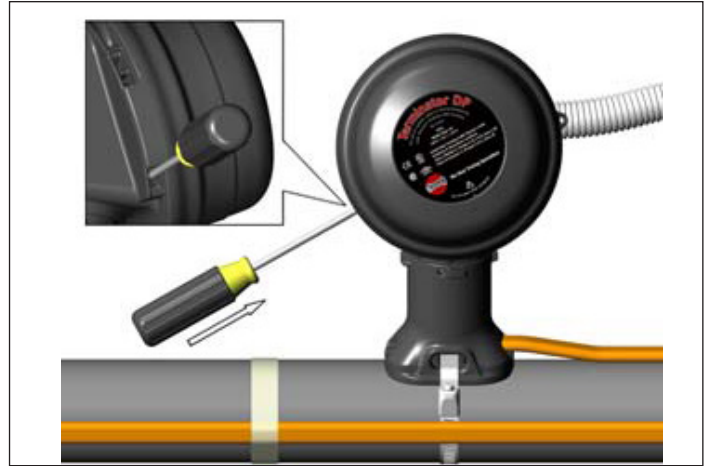


18. Complete system wiring. See wiring details.

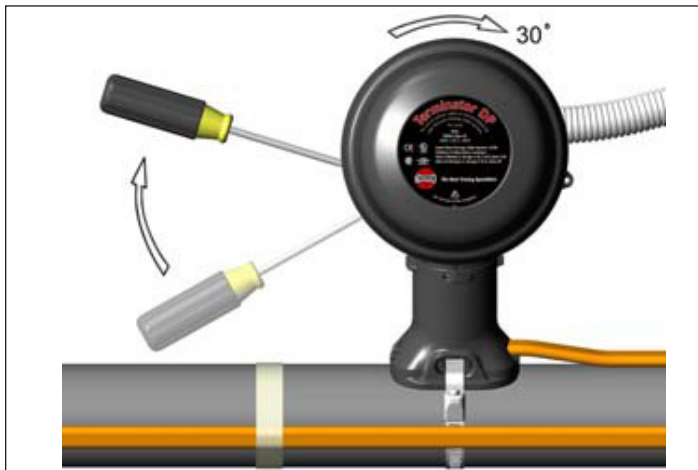
Terminal set screws shall be tightened to a torque value of between 1.5 Nm to 1.8 Nm (13.3 in-lb to 15.9 in-lb) on all terminals.



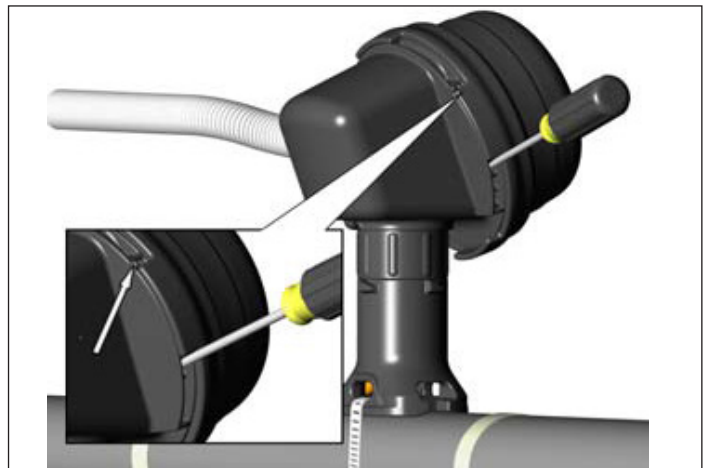
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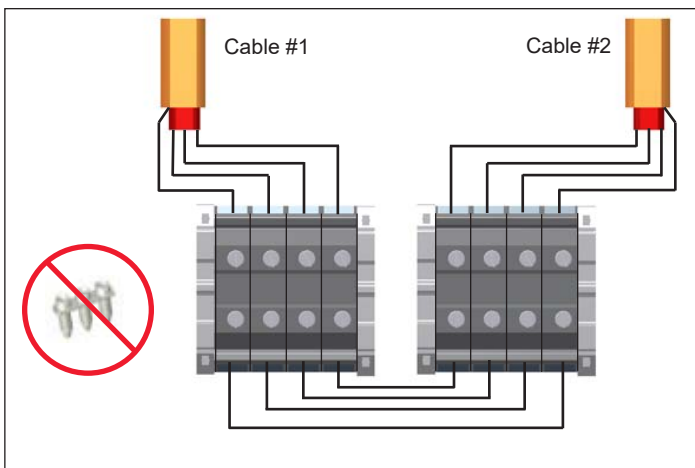
19. Install junction box lid and twist hand tight. Insert screwdriver into ratchet slots located on side of junction box base.



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



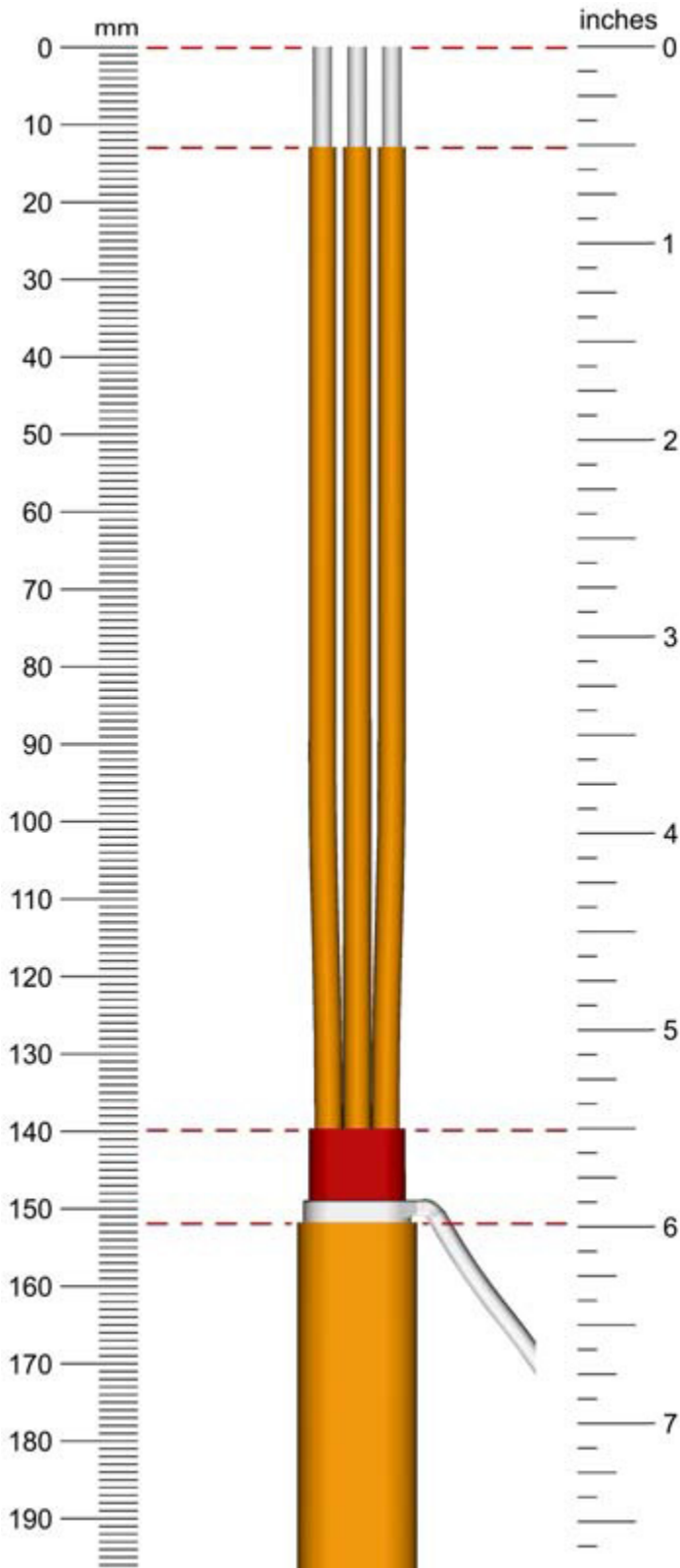
21. Lid latch mechanism fully engaged.



Typical Wiring Detail



Typical Assembly



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