



THERMON Terminator ZP-MI-WP Power Connection Kit Installation Guide

[Home](#) » [THERMON](#) » THERMON Terminator ZP-MI-WP Power Connection Kit Installation Guide

Contents [[hide](#)]

- [1 THERMON Terminator ZP-MI-WP Power Connection Kit](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 Kit Contents](#)
- [5 Dimensions](#)
- [6 Tools Required](#)
- [7 Installation Details](#)
- [8 Wiring Details](#)
- [9 Documents / Resources](#)
 - [9.1 References](#)
- [10 Related Posts](#)



THERMON Terminator ZP-MI-WP Power Connection Kit



Product Information

The Terminator™ ZP-MI-WP Power Connection Kit is a heat tracing cable system that can be used for power connection, in-line splice connection, or T-splice connection with MI – Mineral Insulated Heating Cable Sets. The kit includes various components such as wire pins, an expediter assembly, a support cap with an O-ring, a threaded grommet compressor, a grommet, a support base with an O-ring, a junction box lid, a junction box base with O-ring, a nut, banding, terminal blocks with DIN rail, jumpers, junction box cord, blind plug, bracket, screws, washers, and wire pins.

The kit is certified and approved for use in ordinary and hazardous locations such as 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. The product must be cleaned only with a damp cloth to avoid the electrostatic charge.

Product Usage Instructions

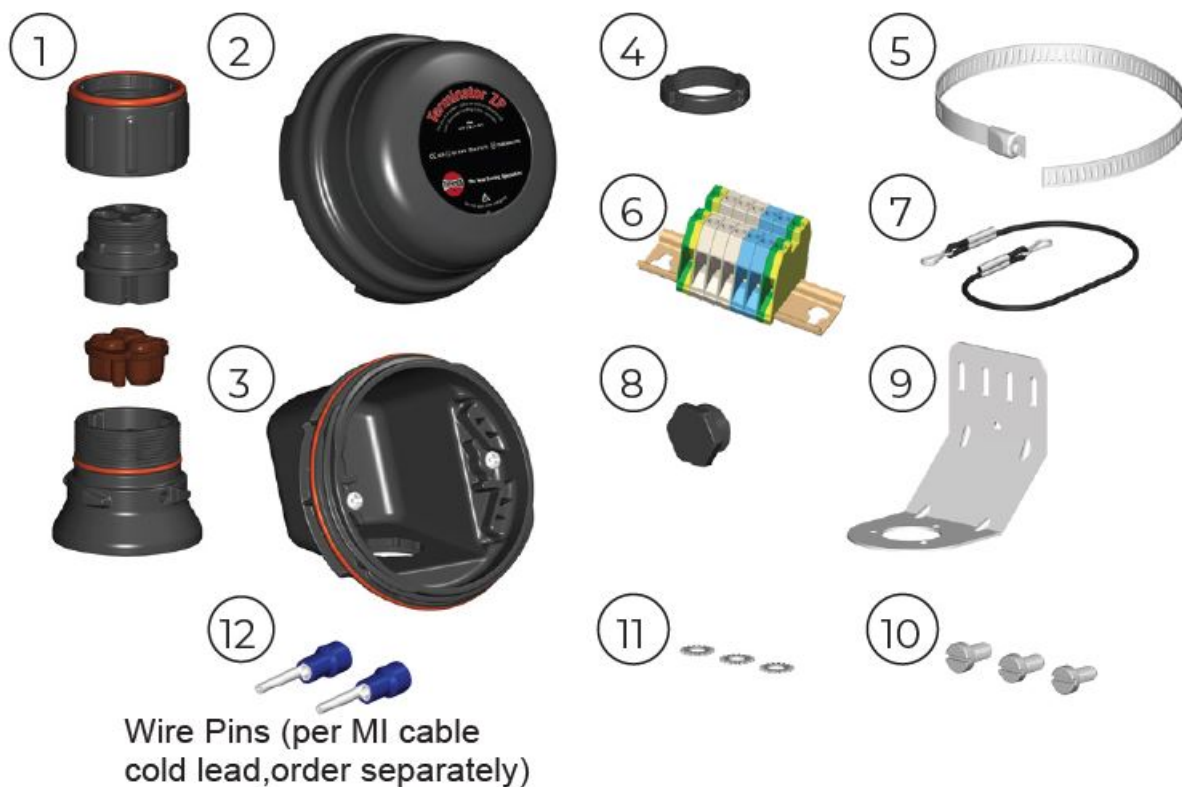
1. Choose a mounting method:
 - **Method 1:** Secure the wall mount bracket to the mounting surface using a pipe band.
 - **Method 2:** Secure the wall mount bracket to the mounting surface using screws, washers, and nuts (customer provided).
2. Mount the expediter to the bracket using M5 screws and lock washers.
3. Crimp-appropriate wire pins (2.5 mm² or 6 mm²) on MI cable cold lead wires if required as per client/project specification (order separately).
4. Route MI cable cold leads through M20 threaded entries. Screw cable glands into the junction box. Do not overtighten to ensure the O-ring is not damaged during installation.
5. Center cold lead sleeve inside cable gland. Tighten cable glands until ferrule begins to make contact with cold lead sleeve and a cold lead sleeve cannot be moved by hand. Tighten cable gland 1/8 additional turn or a torque value of 16 Nm (142 lb-in).
6. Install user-supplied M20 Earth Tag and Lock Nut to threaded M20 Gland.
7. Install M20 blind plug in the remaining M20 threaded entry (if necessary). Additional M20 blind plugs (order M20-B-EXE) will be required if only installing one gland.

8. Install M25 power gland (customer supplied) in M25 threaded entry. For in-line splice or 3-phase wye connection, install M25 blind plug (order M25-B-EXE separately) instead of an M25 power gland.
9. Mount junction box based on expediter. Make sure to align slots to properly orient the junction box base.
Tighten the nut with Terminator-LN-Tool. If mounting horizontally, threaded gland holes must face downward.
10. Install power cable (if necessary).
11. Install quick-mount terminal blocks and tighten screws (if necessary).

Terminator™ ZP-MI-WP

The following installation procedures are suggested guidelines for the installation of the Terminator ZP-MI-WP Kit. For translations other than English and local language translation provided here, please contact Thermon. The English language installation procedure shall govern.

Kit Contents



Item	Quantity	Description
1	1	Expediter Assembly Support Cap with O-Ring Threaded Grommet Compressor Grommet Support Base with O-Ring
2	1	Junction Box Lid
3	1	Junction Box Base with O-Ring
4	1	Nut
5	1	Banding
6	1	Terminal Blocks with DIN Rail (Refer to terminal specifications for maximum allowable wire size.) Jumpers loose supplied.
7	1	Junction Box Cord
8	2	Blind Plug
9	1	Bracket
10	3	Screws
11	3	Washers
12	2	Wire Pins

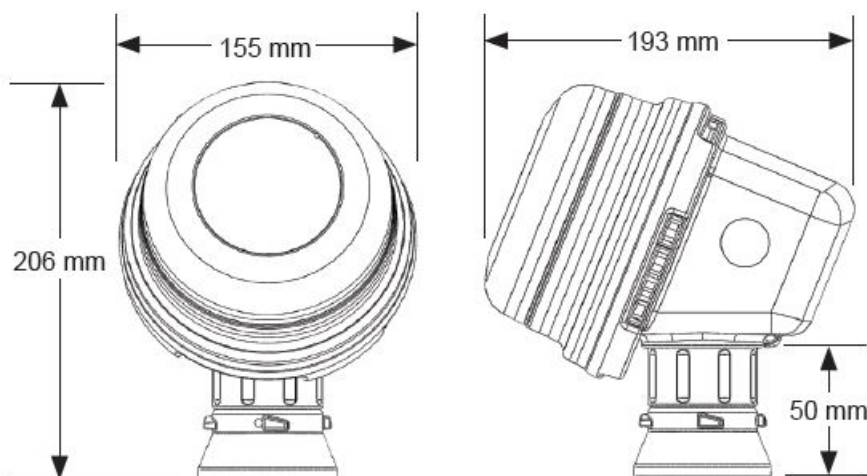
Certifications/Approvals

- IP66 -60°C ≤ Ta ≤ +55°C
- Ordinary & Hazardous Locations
- FMG 10.0022X Ex eb IIC T6...T4 Gb
- Ex tb IIC T85°C...T135°C Db
- II 2 GD Ex eb IIC T6...T4 Gb, Ex tb IIC T85°C...T135°C Db FM 10ATEX0058X

Specific Conditions of Use

Avoid electrostatic charge. Clean only with a damp cloth.

Dimensions



Warnings

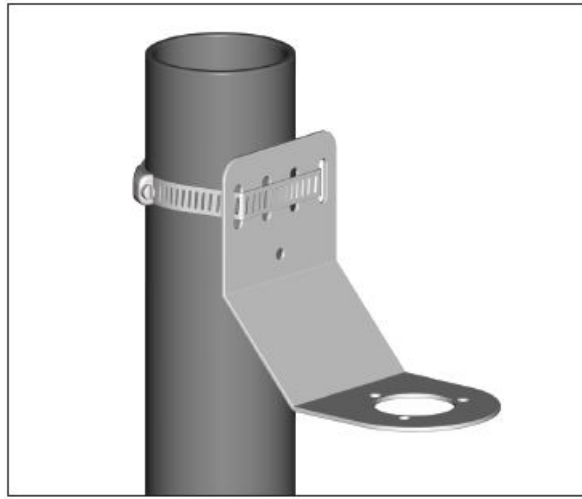
- Due to the risk of electrical shock, arcing, and fire caused by product damage or improper usage, installation or maintenance, a ground-fault protection device is required.
- Installation must comply with Thermon requirements (including form PN 50207U for Ex systems) and be installed in accordance with the regulations as per the norm EN IEC 60079-14 for hazardous areas (where applicable), or any other applicable national and local codes.
- Component approvals and performance ratings are based on the use of Thermon-specified parts only.
- De-energize all power sources before opening the enclosure.
- Avoid electrostatic charge. Clean only with a damp cloth.
- Keep the ends of the heating cable and kit components dry before and during installation.
- The minimum bending radius of the heating cable is 6 times the cable's outer diameter.
- Individuals installing these products are responsible for complying with all applicable safety and health guidelines. Proper Personal Protective Equipment (PPE) should be utilized during installation. Contact Thermon if you have any additional questions.

Tools Required

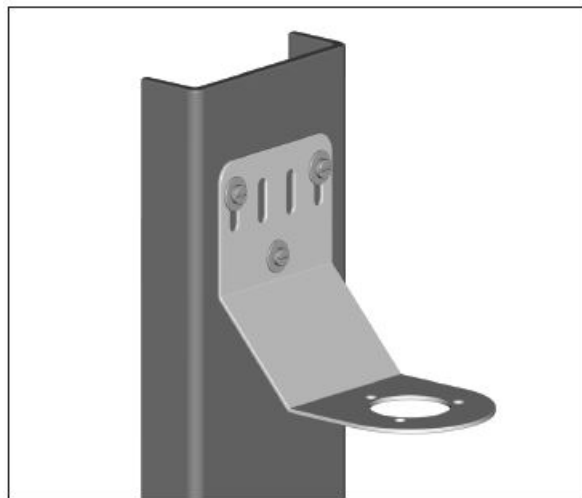


Installation Details

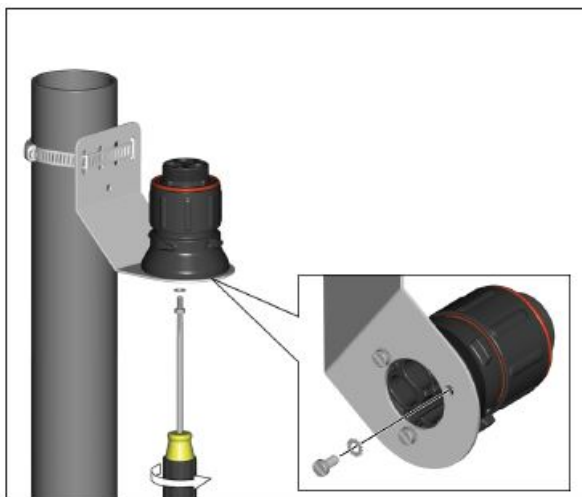
1. **a. Mounting Method 1:** Secure the wall mount bracket to the mounting surface using a pipe band.



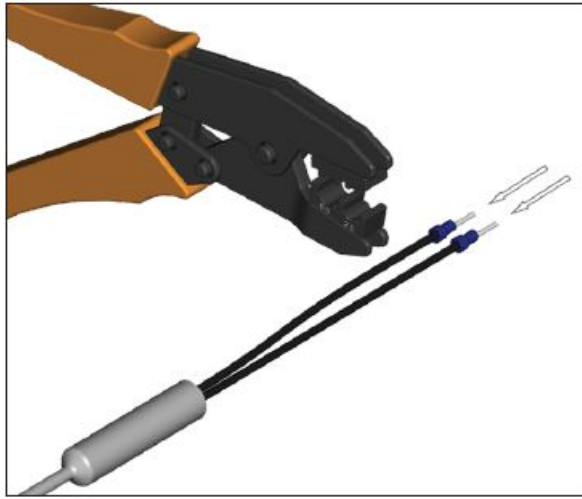
1b. Mounting Method 2: Secure the wall mount bracket to the mounting surface using screws, washers, and nuts (customer provided)



2. Mount the expediter to the bracket using M5 screws and lock washers.



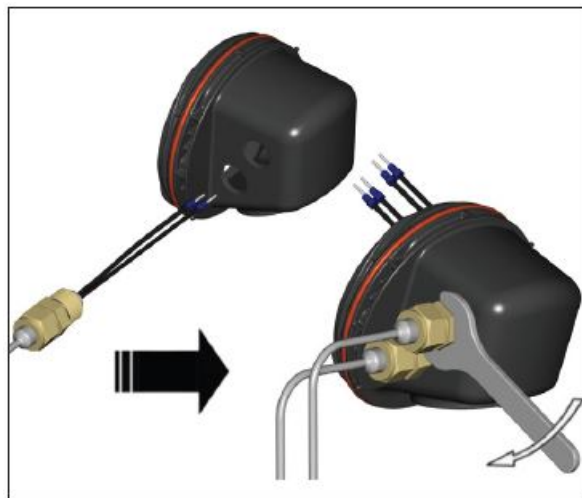
3. Crimp-appropriate wire pins (2.5 mm² or 6 mm²) on MI cable cold lead wires if required as per client/project specification (order separately).



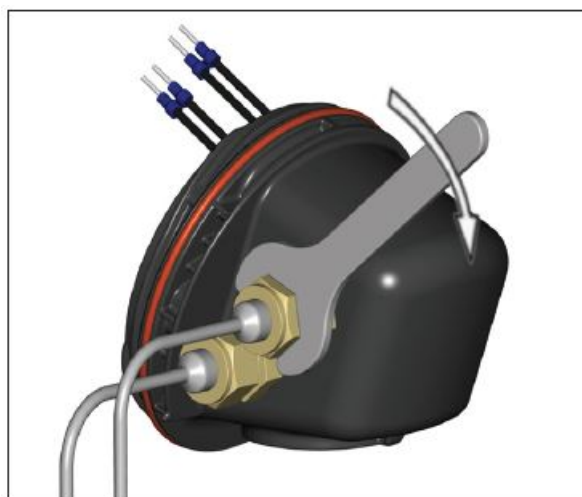
4. Route MI cable cold leads through M20 threaded entries. Screw cable glands into the junction box.

CAUTION

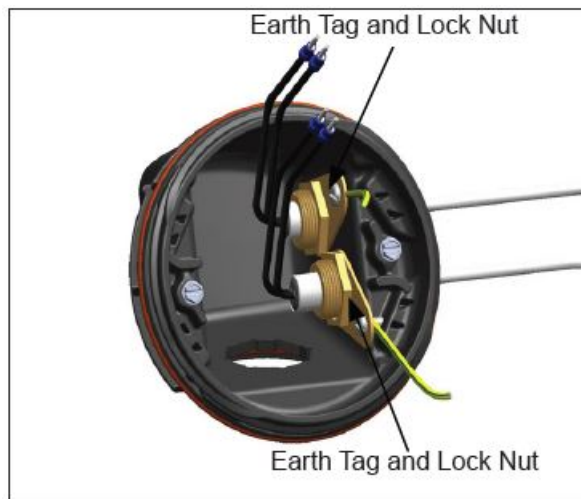
Do not overtighten to ensure the O-ring is not damaged during installation.



5. Center cold lead sleeve inside cable gland. Tighten cable glands until ferrule begins to make contact with cold lead sleeve and a cold lead sleeve cannot be moved by hand. Tighten cable gland 1/8 additional turn or to a torque value of 16 Nm (142 lb-in).



6. Install user-supplied M20 Earth Tag and Lock Nut to threaded M20 Gland.



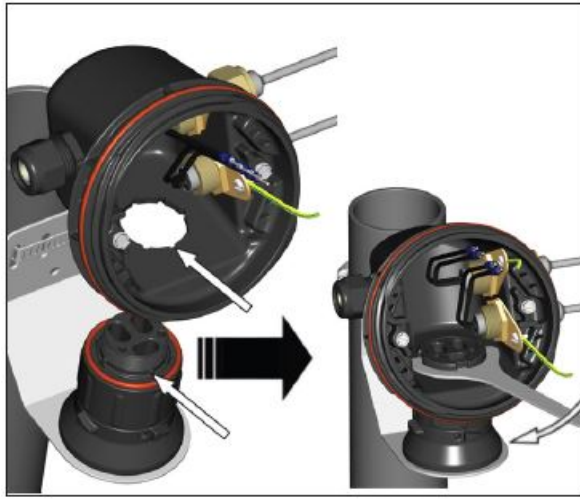
7. Install M20 blind plug in the remaining M20 threaded entry (if necessary). Additional M20 blind plugs (order M20-B-EXE) will be required if only installing one gland.



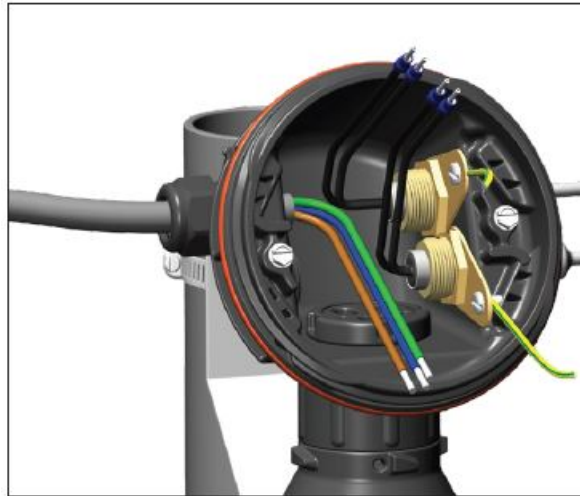
8. Install M25 power gland (customer supplied) in M25 threaded entry. For in-line splice or 3-phase wye connection, install M25 blind plug (order M25-B-EXE separately) instead of M25 power gland.



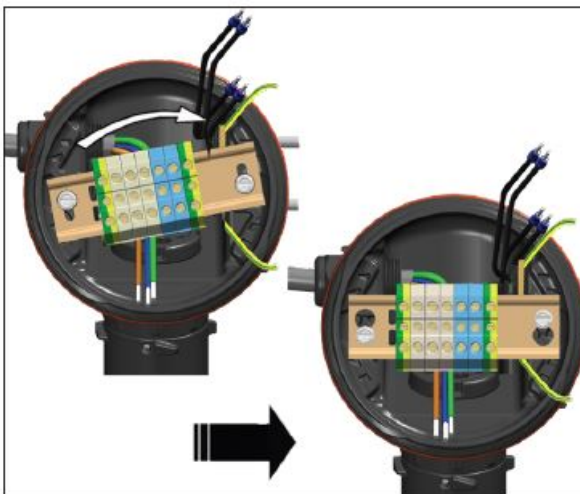
9. Mount junction box based on expediter. Make sure to align slots to properly orient the junction box base. Tighten the nut with Terminator-LN-Tool. If mounting horizontally, threaded gland holes must face downward.



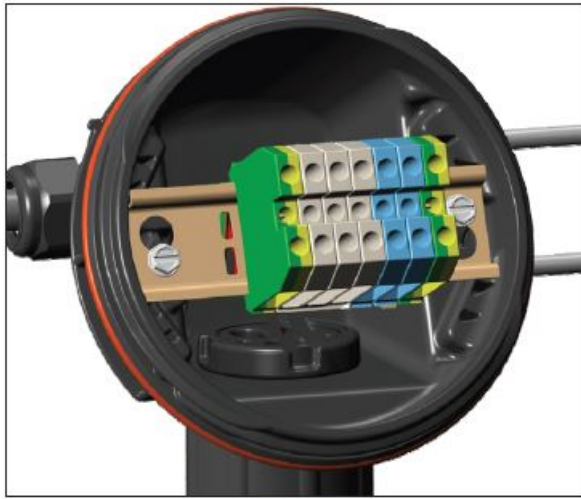
10. Install power cable (if necessary).



11. Install quick-mount terminal blocks and tighten screws (if necessary).



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



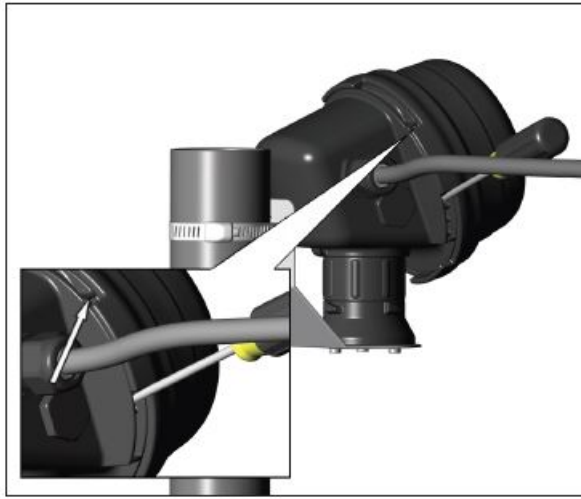
13. Install the junction box lid and twist the hand tight. Insert a screwdriver into ratchet slots located on the side of the junction box base.



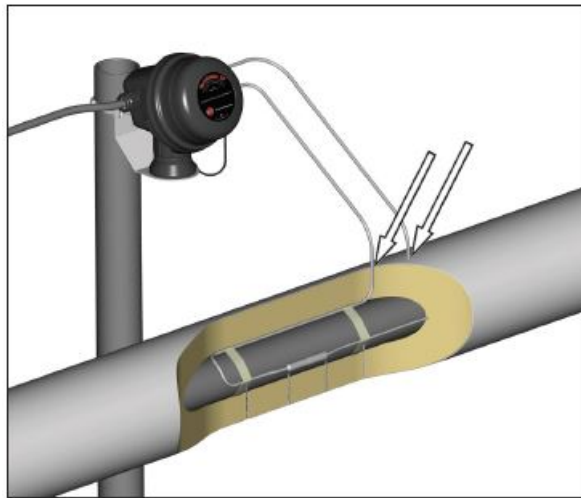
14. Use a screwdriver to ratchet the junction box lid. The lid will rotate 30 degrees.



15. The lid latch mechanism is fully engaged. To remove the lid, repeat steps 12 and 13 but in the opposite direction.



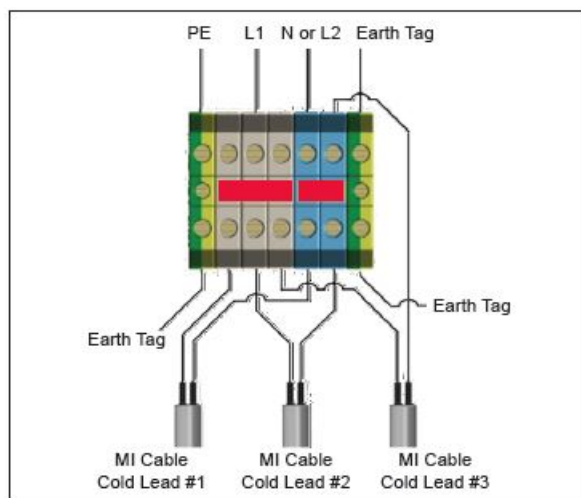
16. Seal penetration through insulation cladding.



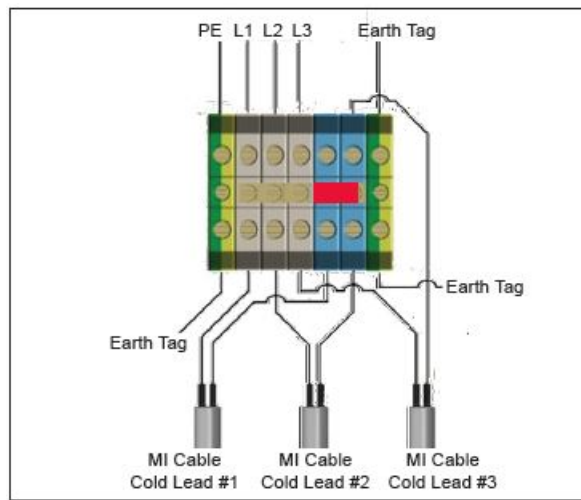
Wiring Details

Wiring Details (Two Conductors)

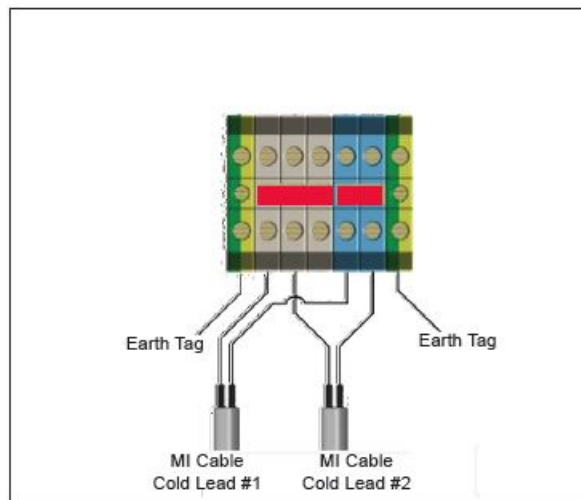
- **A1.** Single-phase or phase-phase power connection. Install jumpers as shown.



- **A2.** 3-phase power and Wye connection. Install a jumper to create a Wye connection as shown.

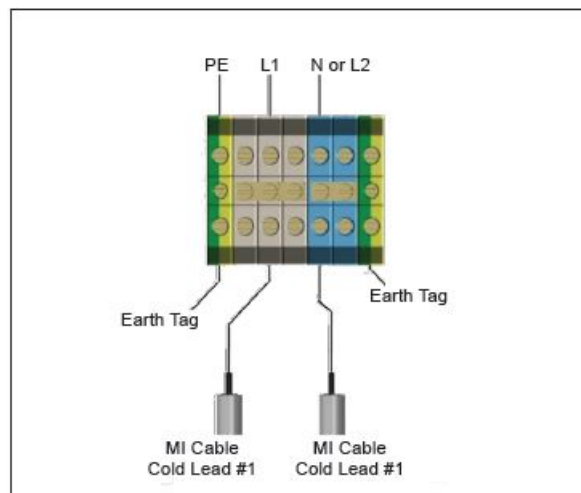


- **A3.** In-line splice. Install jumpers as shown.

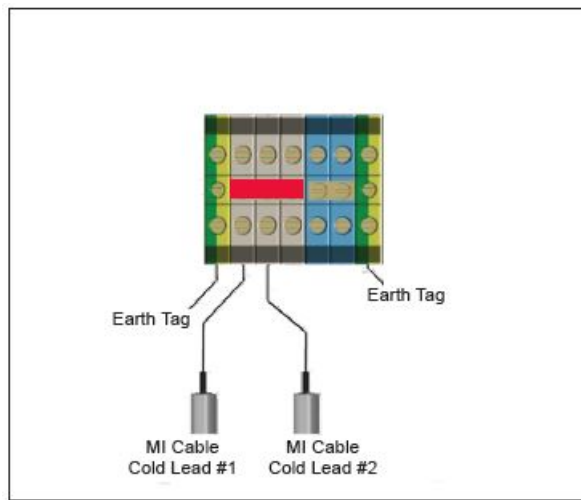


Wiring Details (Single Conductor)

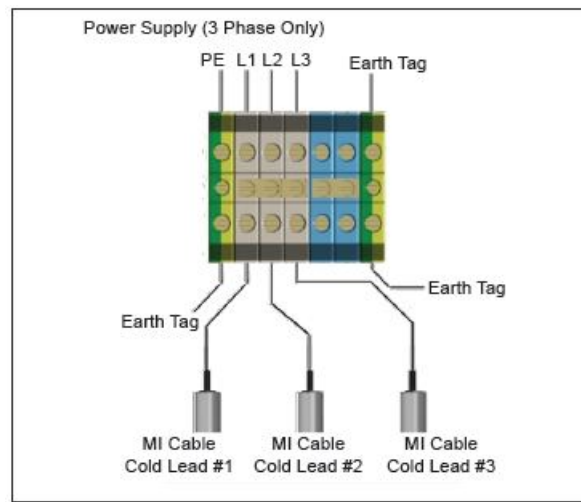
- **A1.** Single-phase or phase-phase power connection. Do not install jumpers.



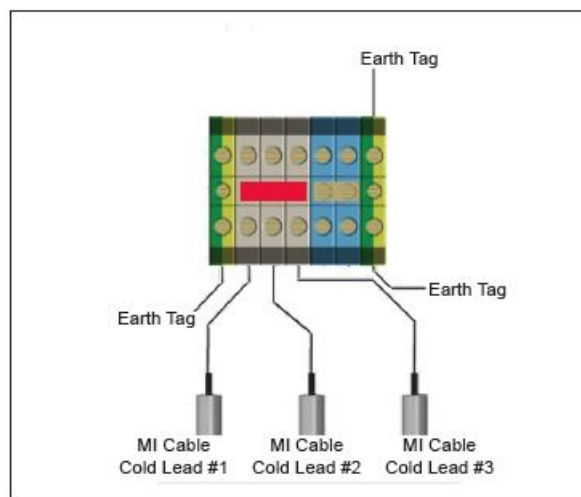
- **A2.** In-line splice. Install jumpers as shown.



- **A3-1.** 3-phase power connection. Do not install jumpers.



- **A3-2.** 3-phase Wye connection. Install jumpers as shown.



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Thermon, Inc. • Printed in the U.S.A. • Information subject to change.

Documents / Resources



[THERMON Terminator ZP-MI-WP Power Connection Kit](#) [pdf] Installation Guide
Terminator ZP-MI-WP Power Connection Kit, Terminator ZP-MI-WP, Power Connection Kit, Connection Kit

References

-  [World Leader in Industrial Process Heating | Thermon](#)