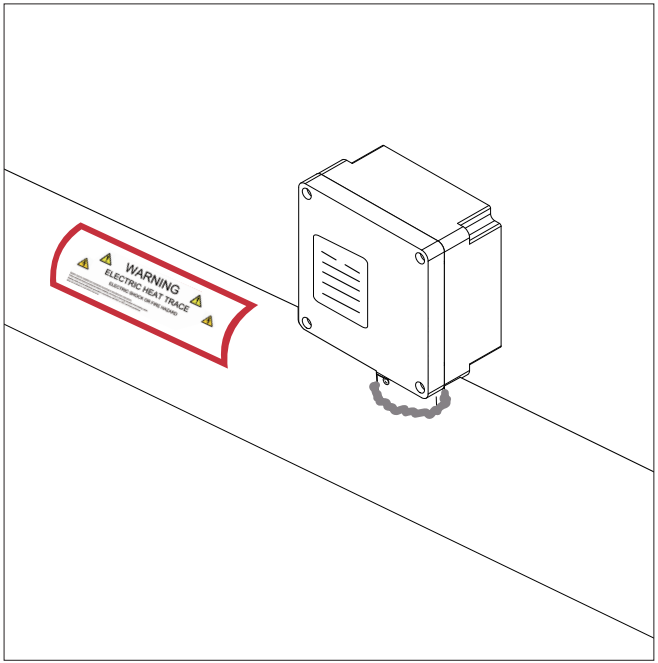
MEP-HT-IST-1

Installation Instructions

Splice, Tee Connection or End Termination Kit with Junction Box.



Description

- MEP–HT–IST–1 series is an above insulation connection kit for use with Marley Engineered Products QM–CRGX, BK–CRGX, QM–LSRX, BK–LSRX, QM–MSRX, BK–MSRX and QM–HSRX, BK–HSRX self–regulating heating cables.
- This kit can be used to splice or tee up to three heating cables, and end terminations up to two heating cables.
- MEP–HT–IST–1 junction box has the same dimensions as that of MEP–IMC–3, but does not have through–hole.

Approvals

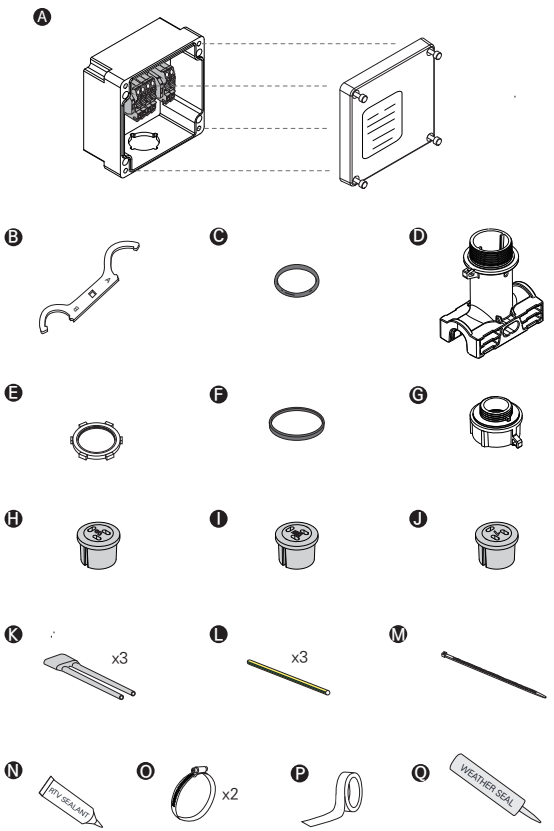
MEP–HT–IST–1



FM26US0013X, FM26CA0003X
Hazardous (classified) locations,
indoors and outdoors
Class I, Division 2, Groups A, B, C and D T*;
Class II/III, Division 2, Groups F and G T*;
Class I, Zone 1, AEx/Ex eb IIC T* Gb;
Zone 21, AEx/Ex tb IIIC T* °C Db;
Type 4X, IP66
Ta = −40°C to +55°C

- T* = For T–rating, please refer to cable documentation

Kit Contents



Item	Description	Qty.
A	Junction Box Assembly	1
B	Wrench	1
C	Stand O–ring	1
D	Pipe Stand	1
E	Lock Nut	1
F	Square–Ring for Compression Cap	1
G	Compression Cap	1
H	S Grommet for a*–CRGX–CT, a*–LSRX–CT, a*–MSRX	1
I	M Grommet for a*–CRGX–CR, a*–LSRX–CR	1
J	L Grommet for a*–HSRX	1
K	Core Sealer	3
L	Insulation Tube (Y/G)	3
M	Cable Tie	1
N	RTV Sealant	1
O	Pipe Strap (Sold Separately)	2
P	Fixing Tape (Sold Separately)	1
Q	Weather Seal (Sold Separately)	1

· a* = “QM” for QMARK, or “BK” for BERKO

Tools Required

- Wire cutters
- Marking pen
- Adjustable pliers
- Needle nose pliers
- Utillity knife
- Large slotted screwdriver
- 3/16" (or 5mm) hex key

Additional Materials Required

- Pipe Straps

Model	Pipe Size	Unit Qty.
HTPS-6	Up to 6" Outer Diameter	1 each
HTPS-10	Up to 10" Outer Diameter	1 each

- Small Pipe Adapter

  For installation on small pipes (<1" or 25mm diameter), contact Marley Engineered Products for small pipe adapter, model HTSPA-1.

- Fixing Tapes

  - HTFT-1 Fiberglass Tape: 3/8" x 66ft. roll
  - HTAT-1 Aluminum Tape: 2" x 180ft. roll

CAUTION

- The minimum installation temperature is -40°F (-40°C). For more convenient installation, we recommend performing the installation at a temperature above freezing. Store the kit at a temperature above freezing until installation.

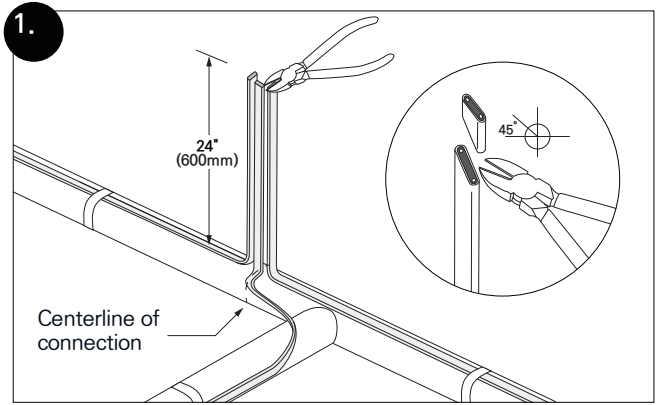
WARNING

- Marley Engineered Products heat-tracing systems must be installed correctly to ensure proper operation and to prevent shocks and fires. Pay attention to warnings and carefully follow applicable installation instructions.
- For two or more heating cables powered by a single circuit,the total length of all heating cables should not exceed the maximum circuit length allowed in the chart published in the Marley Engineered Products self-regulating heating cables datasheets or design guide. Additionally, the total current of all heating cables should not surpass 80% of the circuit breaker rating.
- **Electrical Shock or Fire Hazard :** Follow Marley Engineered Products requirements and comply with NEC, CEC, and all relevant local codes.
  Ground-fault equipment protection set at 30 mA must be used on each heating cable branch circuit. Arcing may not be stopped by conventional circuit breakers.
- The approvals and performance of the heat tracing systems are based exclusively on the use of Marley Engineered Products specified parts. It is imperative that parts are not substituted and electrical tape is not used.
- Damaged bus wires have the potential to overheat or cause short circuits. When scoring the jacket or core, it is essential to avoid breaking the bus wire strands.
- Both components and cable ends must be kept dry before and throughout the installation process.
- The potential for bus wires to overheat or short circuit exists if the bus wire strands are broken while preparing the cable for connection. Reuse of grommets or use of the wrong grommet can result in leaks, cracked components, shocks, or fires. Ensure the type or opening size of grommet is correct for the heating cable being installed. A new grommet is recommended whenever the cable has been pulled out of the component.
- Before and during installation or servicing, all power circuits must be de-energized.
- Read the MSDS for RTV and components carefully.
- Use thermal insulation and attachment tape suitable for the specific application and heat-tracing temperature. Do not secure heating cables with metal straps or wire, as this may damage the cables.

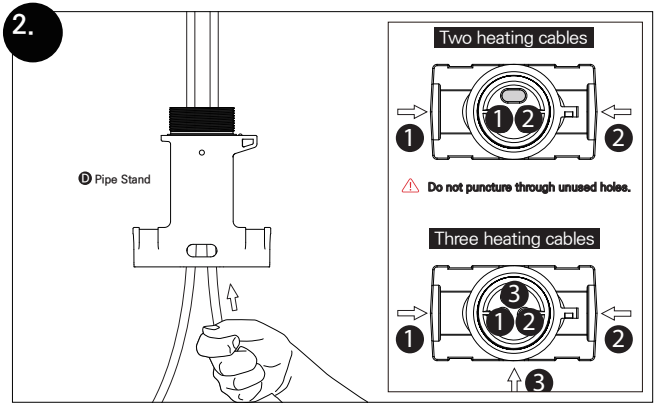
Specific Conditions of Use

- Marley Engineered Products MEP-HT-IST-1 Series Connection Kits must be installed using Marley Engineered Products QM-CRGX, BK-CRGX, QM-LSRX, BK-LSRX, QM-MSRX, BK-MSRX and QM-HSRX, BK-HSRX Series Heating Cables.
- Refer to the installation instructions to reduce the potential of an electrostatic charging hazard on the enclosures of the connection kits.
- The end-user shall mount the equipment per Marley Engineered Products instructions.

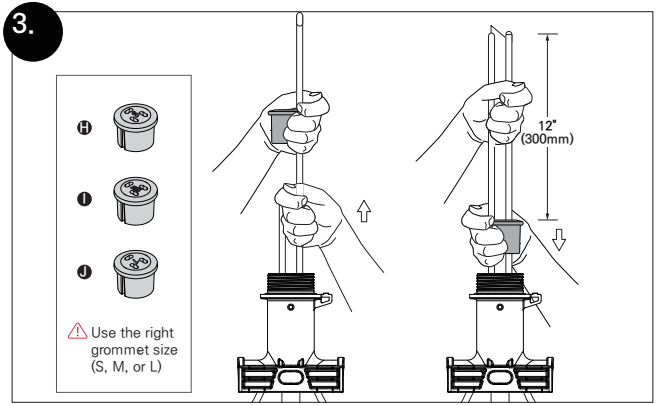
1.


24"
(600mm)
45°
Centerline of
connection

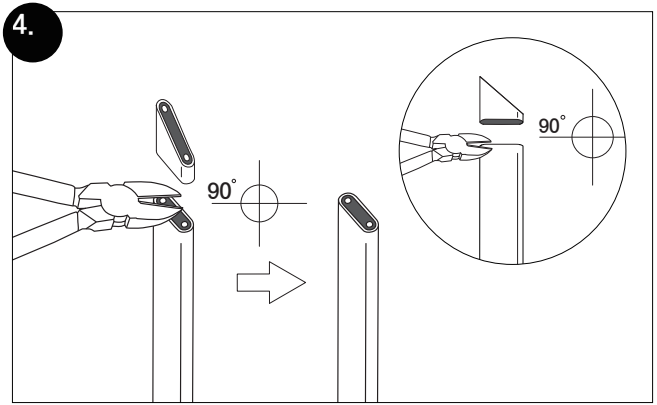
2.


Pipe Stand
Two heating cables
1
2
Do not puncture through unused holes.
Three heating cables
3
1
2
3

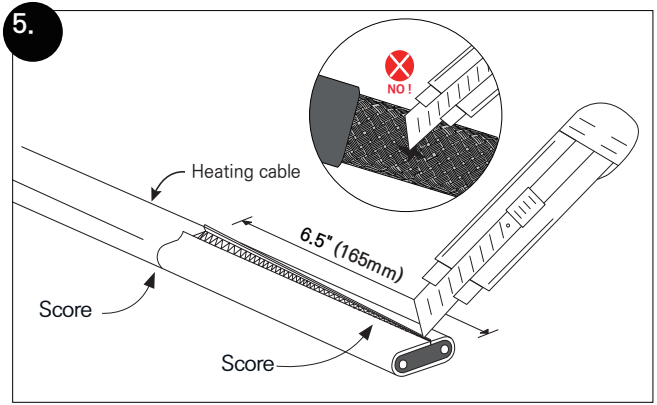
3.


H
I
J
Use the right
grommet size
(S, M, or L)
12"
(300mm)

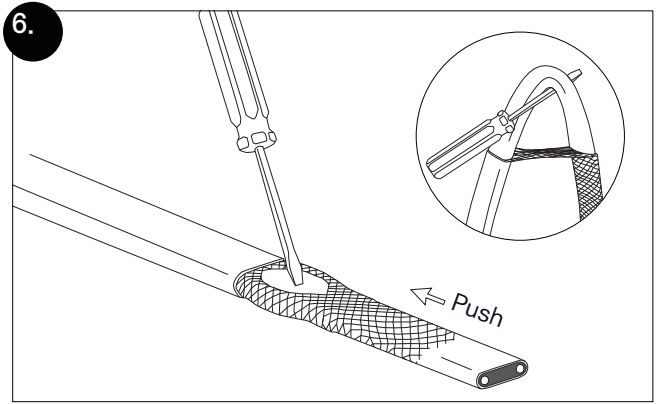
4.


90°
90°

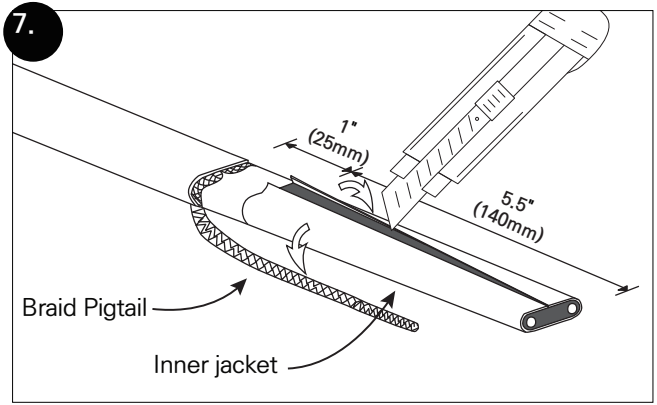
5.


NO !
Heating cable
6.5" (165mm)
Score
Score

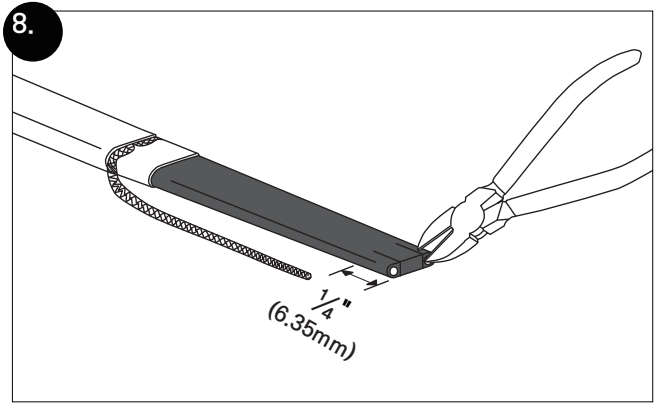
6.


Push

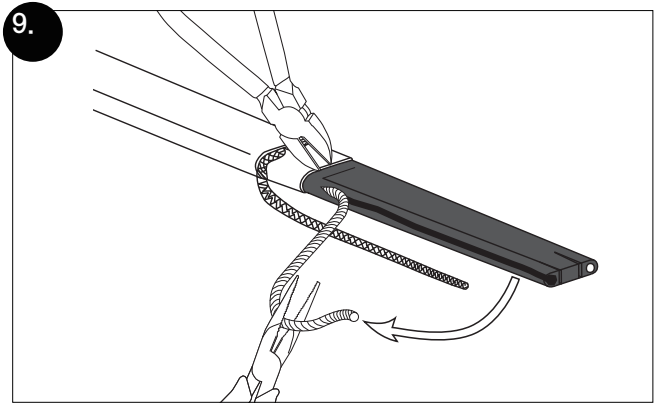
7.


1"
(25mm)
5.5"
(140mm)
Braid Pigtail
Inner jacket

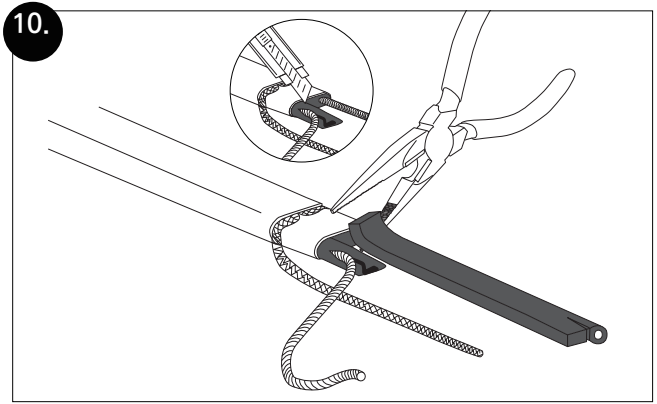
8.


1/4"
(6.35mm)

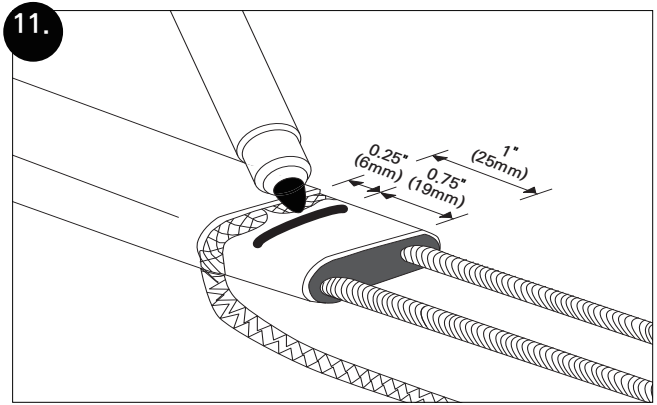
9.



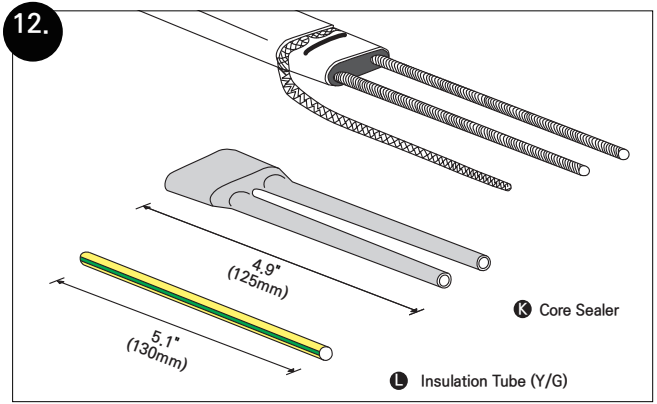
10.



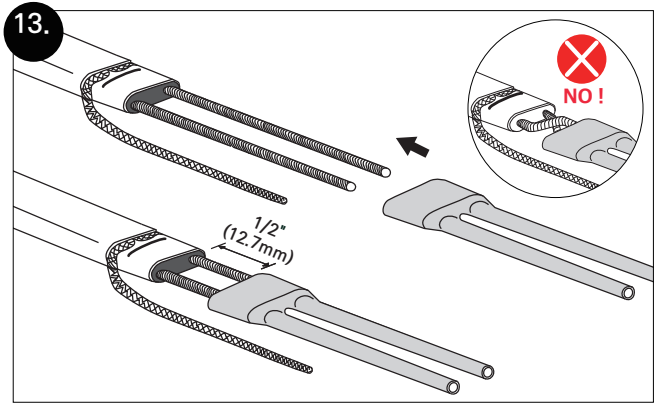
11.


0.25"
(6mm)
0.75"
(19mm)
1"
(25mm)

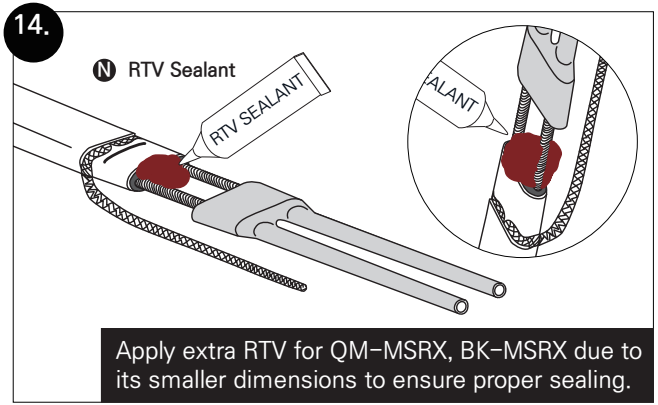
12.


4.9"
(125mm)
5.1"
(130mm)
K Core Sealer
L Insulation Tube (Y/G)

13.

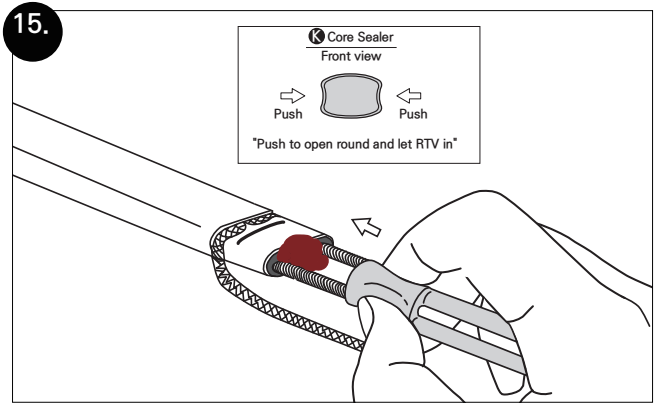


14.

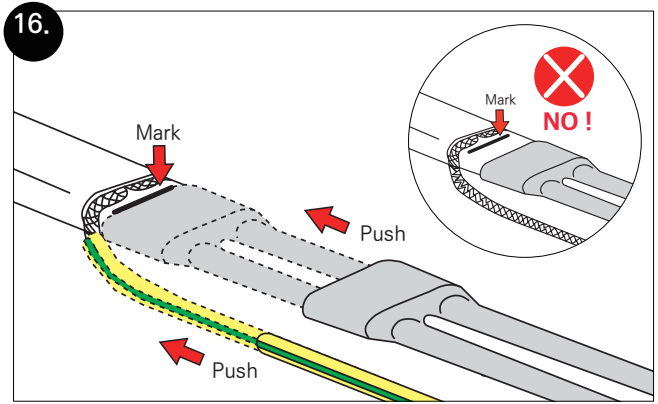


Apply extra RTV for QM-MSRX, BK-MSRX due to its smaller dimensions to ensure proper sealing.

15.

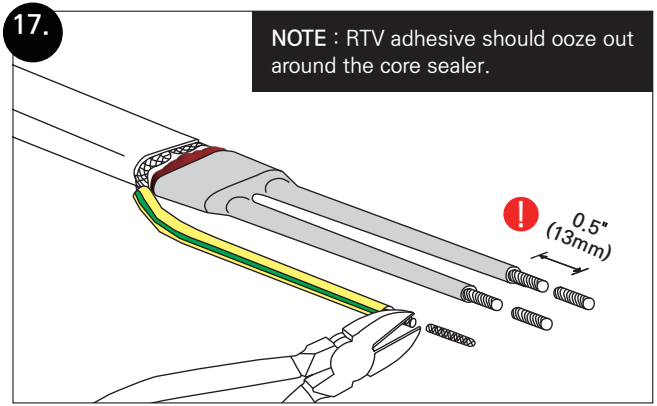


16.

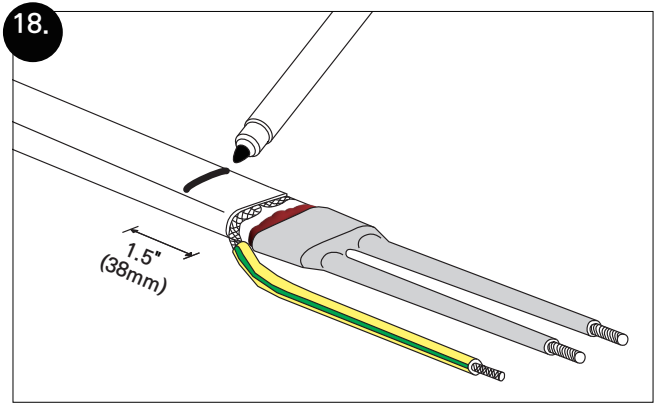


Heating Cable

17.

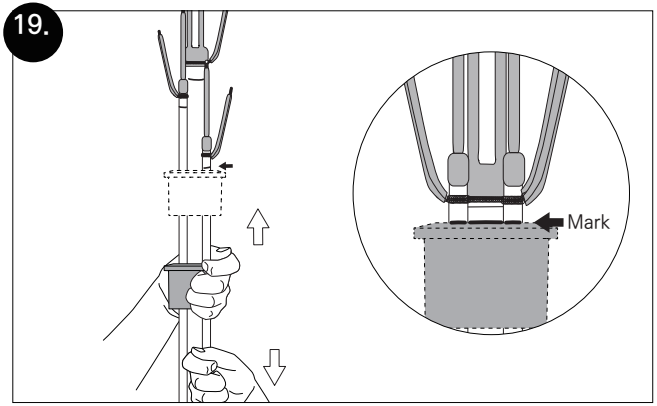


18.

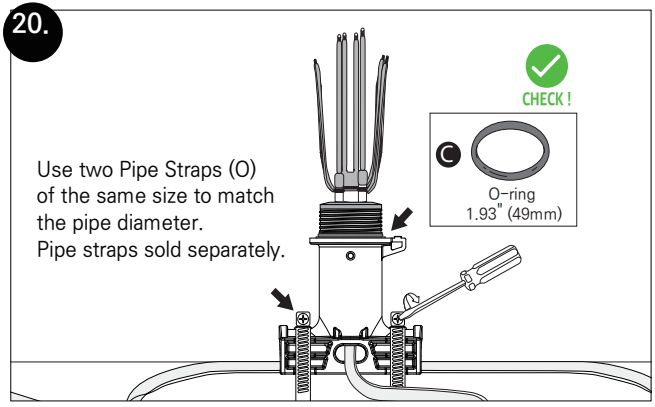


MEP-HT-IST-1 Kit

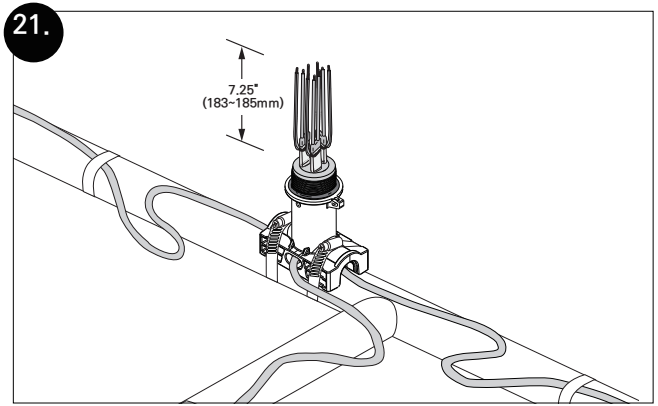
19.



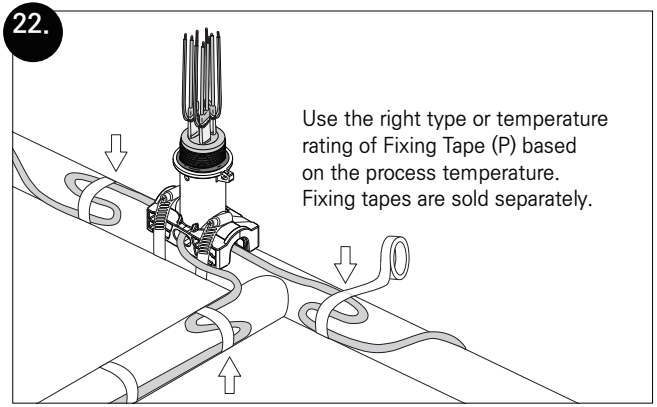
20.



21.

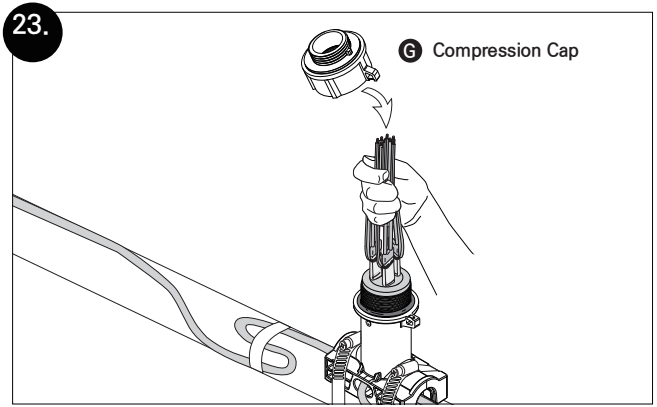


22.

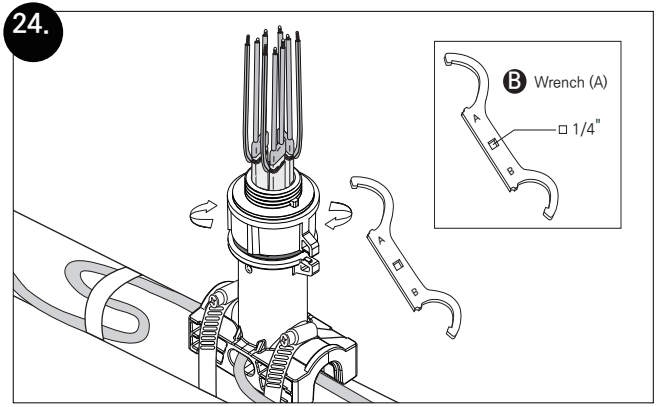


Use the right type or temperature rating of Fixing Tape (P) based on the process temperature. Fixing tapes are sold separately.

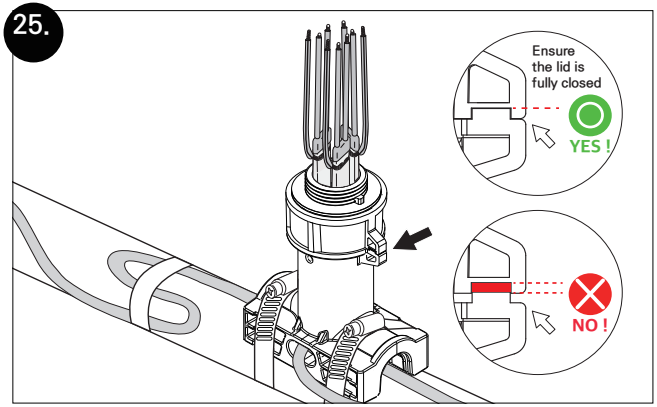
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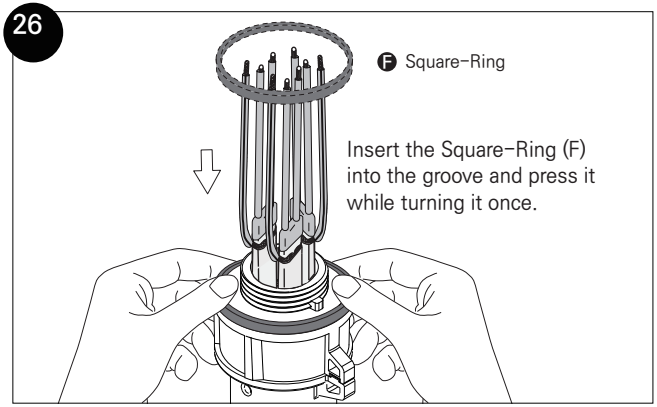
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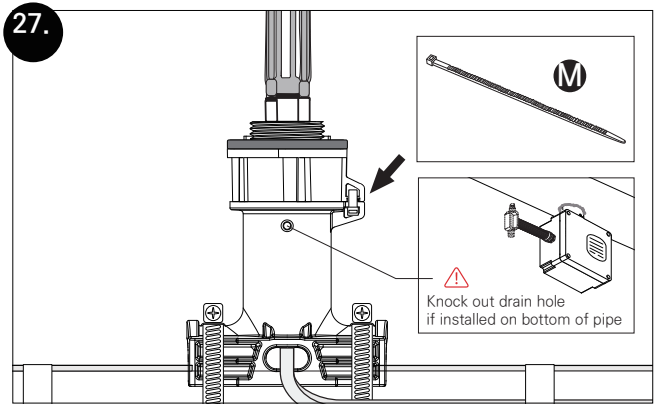
25.


Ensure
the lid is
fully closed
YES !
NO !

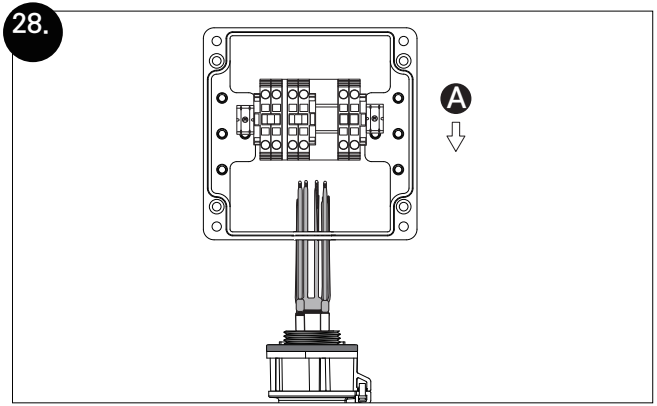
26


F Square-Ring
Insert the Square-Ring (F)
into the groove and press it
while turning it once.

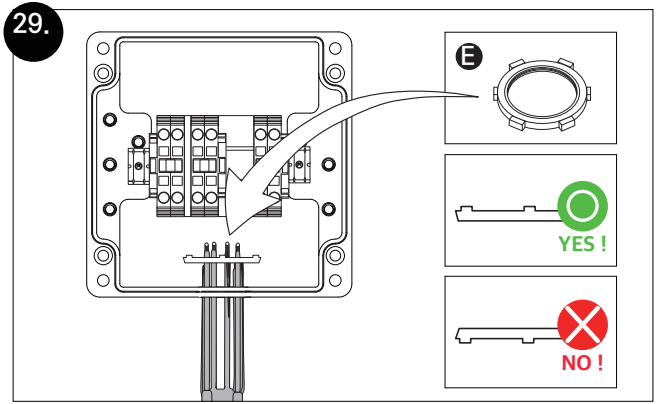
27.


M
Knock out drain hole
if installed on bottom of pipe

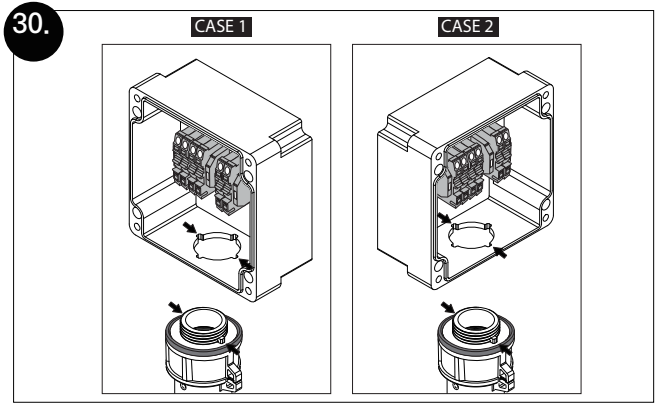
28.


A

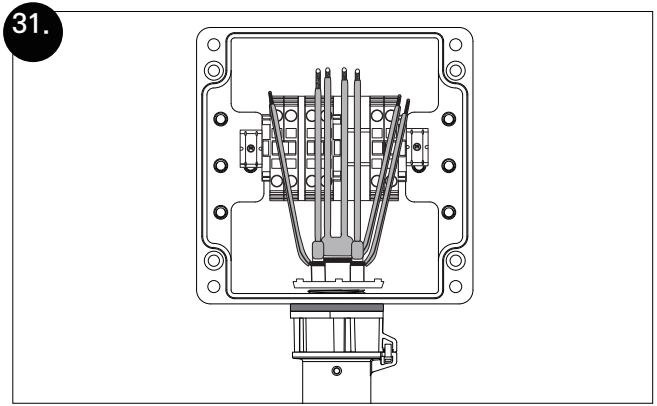
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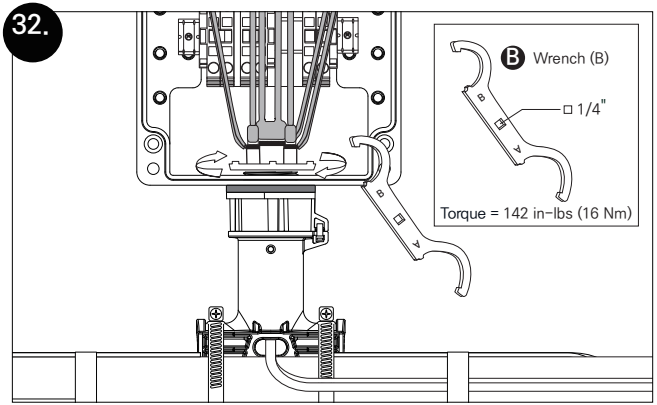
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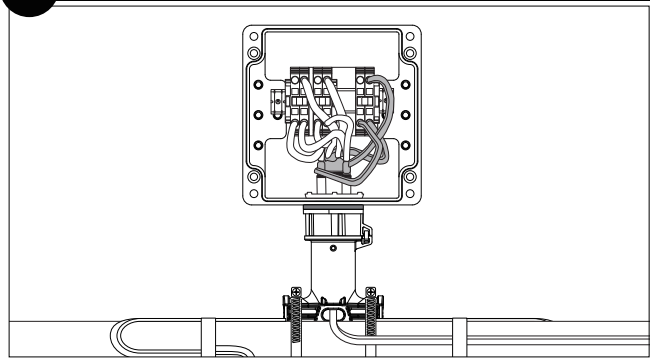
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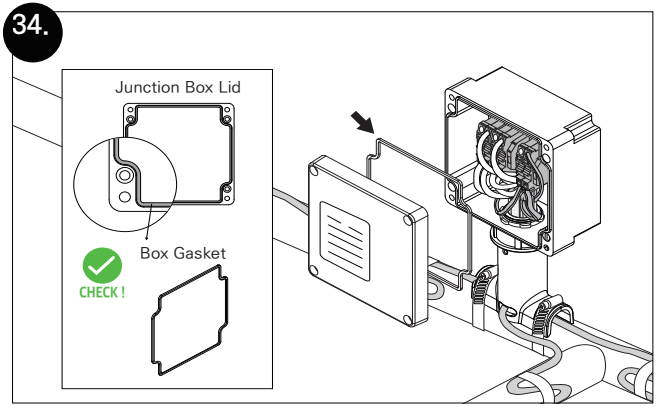
32.



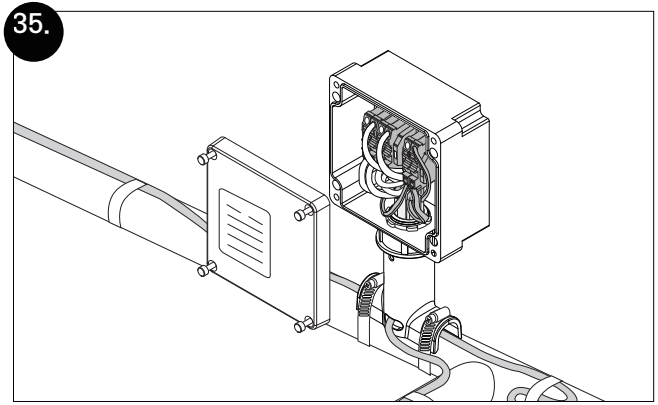
33. Splice or Tee Connection



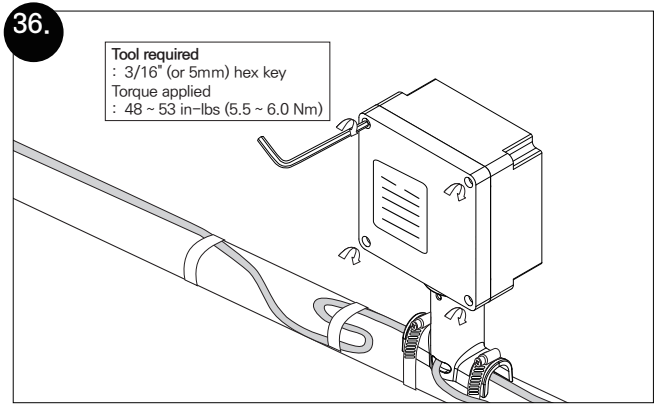
34.



35.

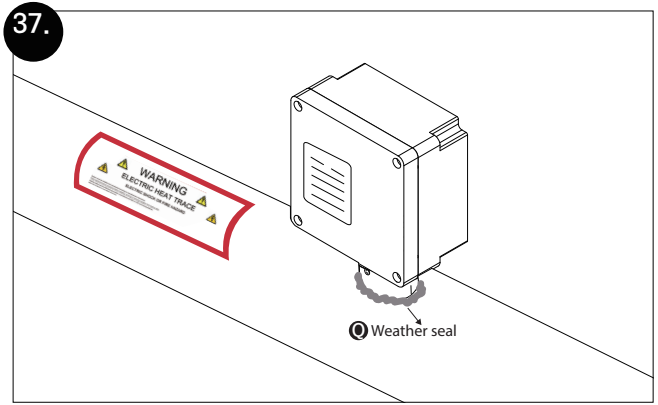


36.



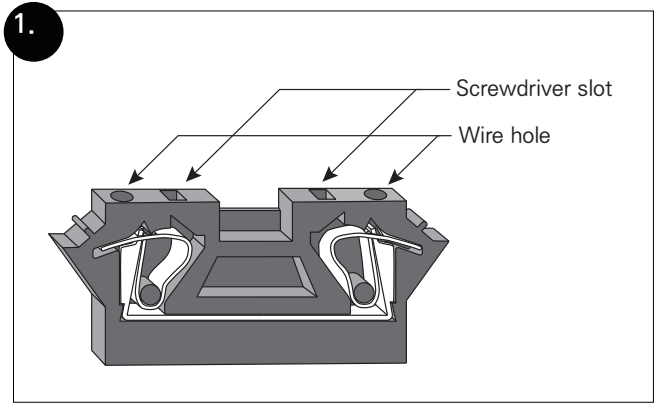
MEP-HT-IST-1 Kit

37.

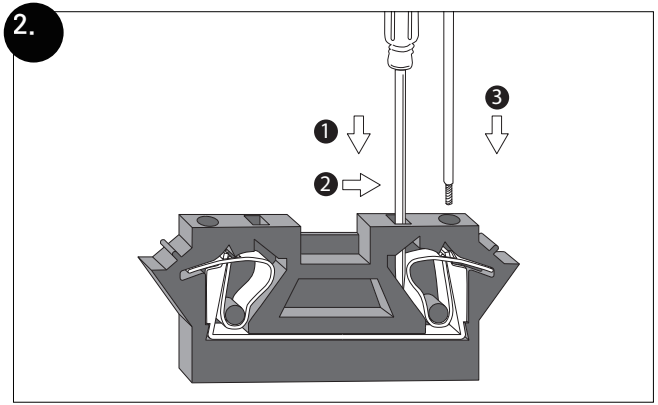


Terminal Blocks

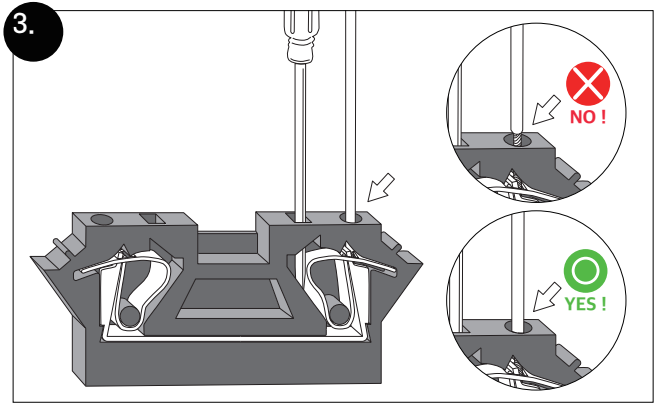
1.



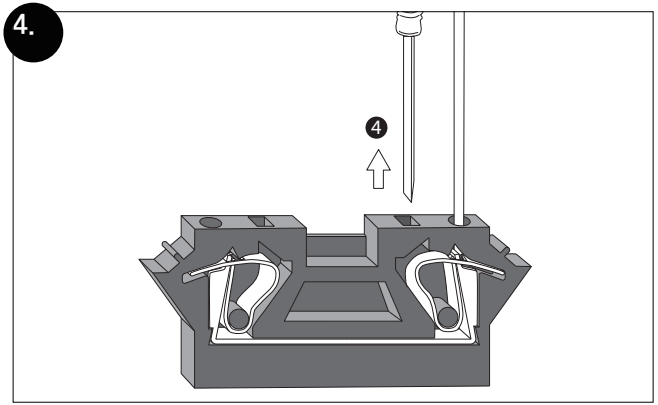
2.



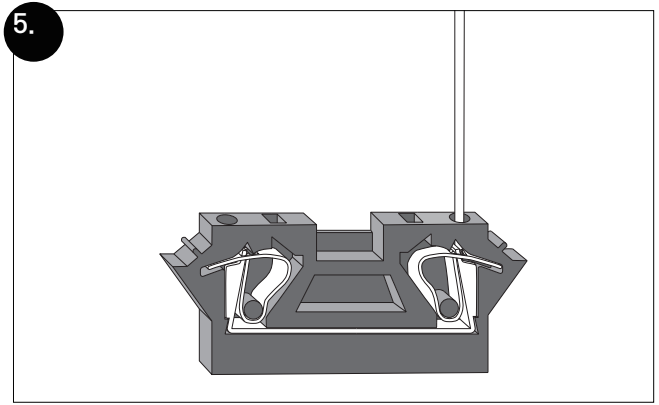
3.



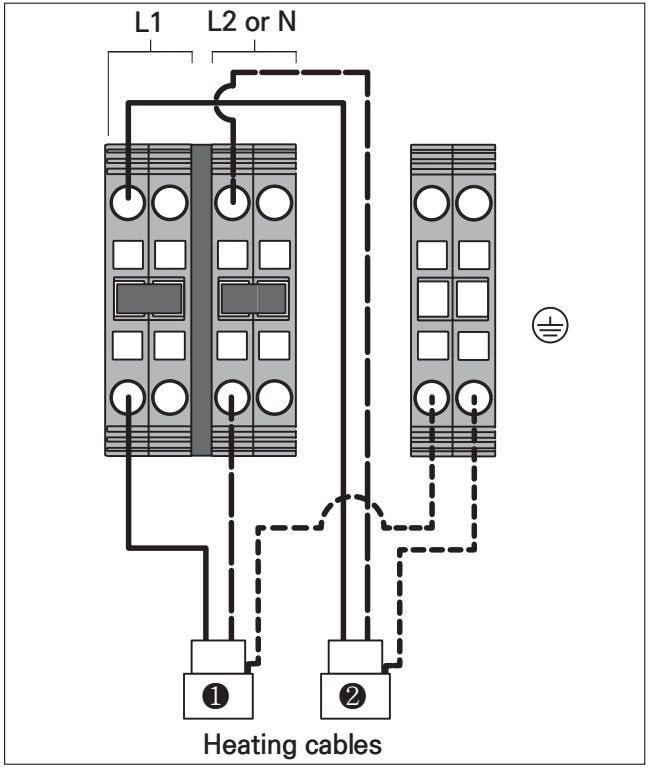
4.



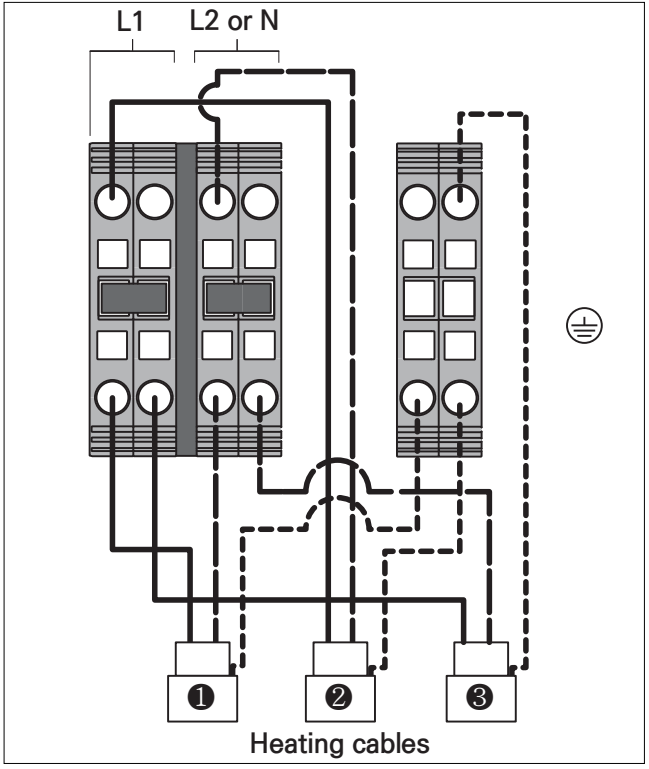
5.



1A. Splice Connection

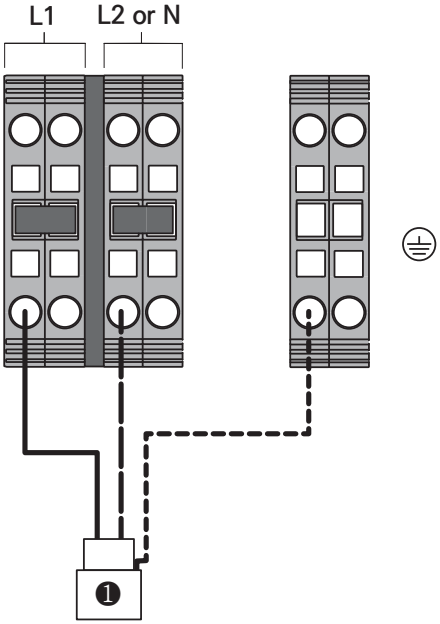


1B. Tee Connection



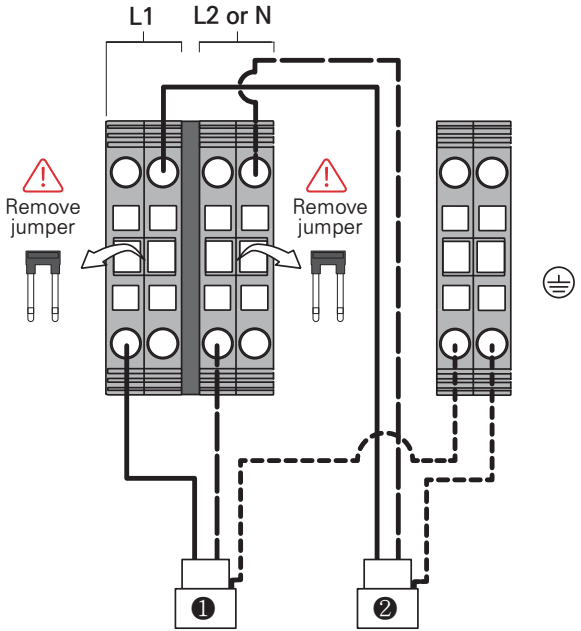
1C. End Termination

One heating cable



1C. End Termination

Two heating cable





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