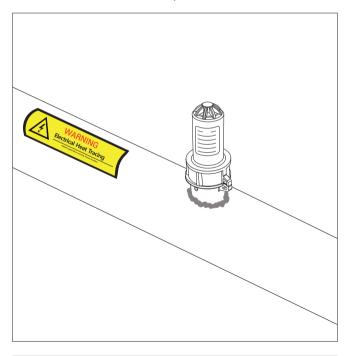
Gaumer Connection Kits Installation Instructions

GB300

End Seal or In-Line Splice Connection Kit



Description

- GB300 is an above insulation end seal kit for use with GAUMER GHT-CR, GHT-CT, GHU-CT, and GHK-CT selfregulating heating cables.
- GB300 can be used either as an end seal for up to two heating cables or as an in-line splice connection. This kit contains parts for two heating cable end seals.
- For in-line splice connections, the separate "GB-SK" accessory pack is required and sold separately. For in-line splice, please go to page 21.



Approvals

「GB300 ₁



FM24US0113X, FM24CA0042X

Hazardous (classified) locations, indoors and outdoors

Class I, Division 2, Groups A, B, C and D T*; Class II/III, Division 2, Groups E, 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



FM24ATEX0018X C€2813

⟨x⟩ II 2 G Ex eb IIC T* Gb;
 ⟨x⟩ II 2 D Ex tb IIIC T*°C Db;
 Ta = -40°C to +55°C IP66

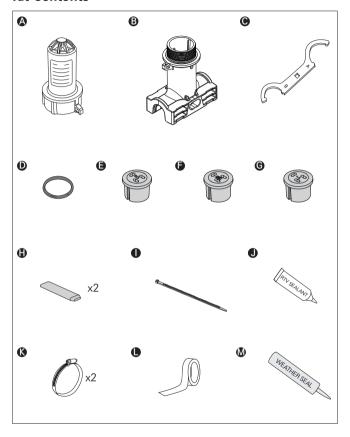
IECEx FMG 24.0017X Ex eb IIC T* Gb;

Ex tb IIIC T*°C Db

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



Kit Contents



Item	em Description		
А	A End Cap		
В	B Pipe Stand		
С	C Wrench		
D	D Stand O-ring		
Е	S Grommet for GHU-CT, GHT-CT	1	
F	F M Grommet for GHT-CR G L Grommet for GHK-CT		
G			
Н	H Rubber End Cap		
I	Cable Tie	1	
J	RTV Sealant	1	
K	Pipe Strap (Sold Separately)	2	
L	L Fixing Tape (Sold Separately)		
М	Weather Seal (Sold Separately)	1	

Accessory Package

"GB-EK" for End Seal <Included in GB300 kit> Image: Solid separately of the separa

Tools Required

- · Wire cutters
- · Marking pen
- Adjustable pliersNeedle nose pliers
- · Utillity knife
- · Large slotted screwdriver
- Molex RHT-7000 crimp tool or equivalent; 10-16AWG slot (For in-line splice connection only)

Additional Materials Required

· Pipe Straps

Model	Pipe Size	Unit Qty.
		2ea / bag
GPS-SS05	2" to 5" Outer Diameter	2ea / bag
GPS-SS10	5" to 10" Outer Diameter	2ea / bag
GPS-SS18	10" to 18" Outer Diameter	2ea / bag
GPS-SS24	18" to 24" Outer Diameter	2ea / bag

· Small Pipe Adapter

For installation on small pipes (≤ 1" or 25mm diameter), contact Gaumer Process for small pipe adapter, GSPA.

- · Fixing Tapes
 - GFT-L98 : Fiberglass Tape low temp; 1/2" * 98ft (30m)
 - GFT-H98 : Fiberglass Tape high temp; 1/2" * 98ft (30m)
 - GAT2/3-L164 : Aluminum tape low temp; 2" or 3" * 164ft (50m)
- · Pipe Stand Extension

For installation with insulation thicker than 3" (76mm), or on very hot pipe, contact Gaumer Process for pipe stand extension. GPSE.



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

- Gaumer 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 Gaumer 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 Gaumer 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 Gaumer 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



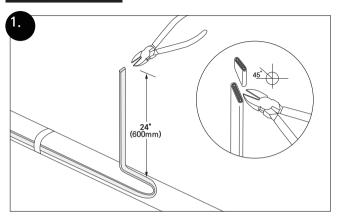
grommet can result in leaks, cracked components, shocks, or fires. Ensure the type or opening size of grommet is correct for the heating cable being installed. A new grommet is recommended whenever the cable has been pulled out of the component.

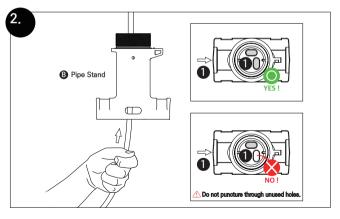
- Before and during installation or servicing, all power circuits must be de-energized.
- · Read the MSDS for RTV and components carefully.
- Use thermal insulation and attachment tape suitable for the specific application and heat-tracing temperature. Do not secure heating cables with metal straps or wire, as this may damage the cables.

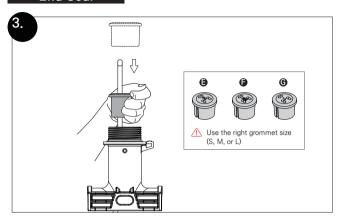
Specific Conditions of Use

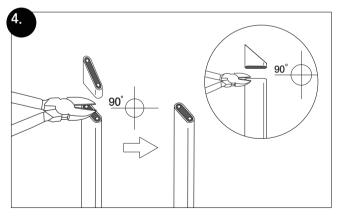
- Gaumer GB300 Series Connection Kits must be installed using Gaumer GHT, GHU, GHK Series Heating Cables.
- Refer to the installation instructions to reduce the potential of an electrostatic charging hazard on the enclosures of the connection kits.
- · The end-user shall mount the equipment per Gaumer instructions

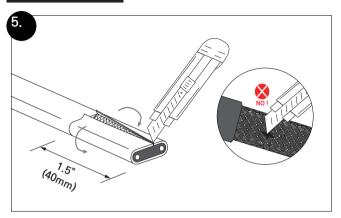


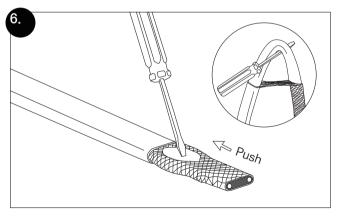


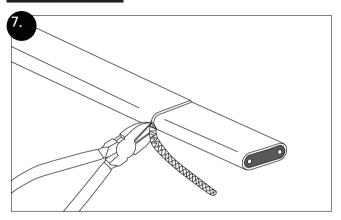


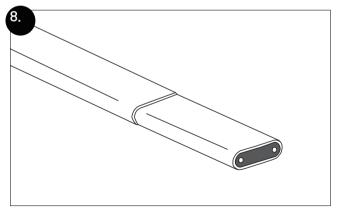


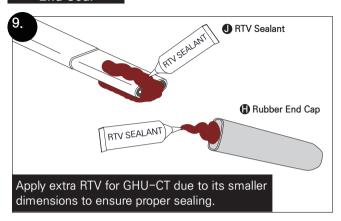


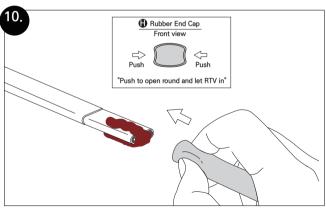


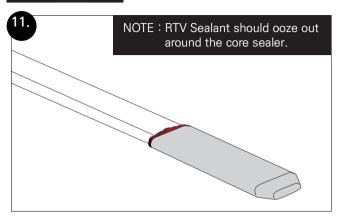


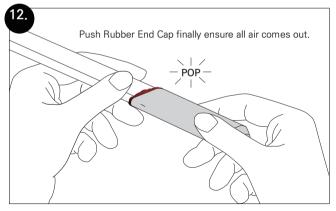


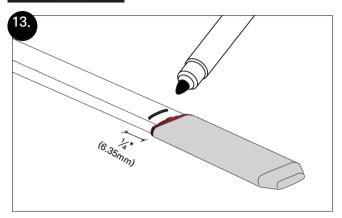


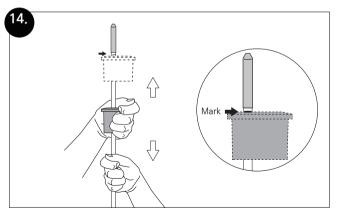


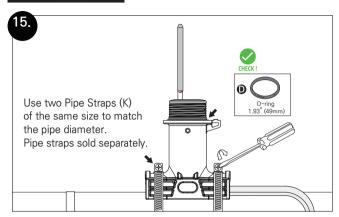


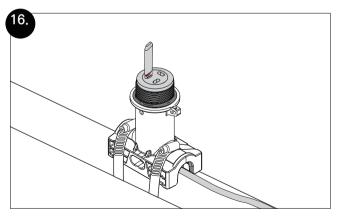


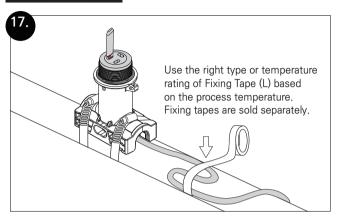


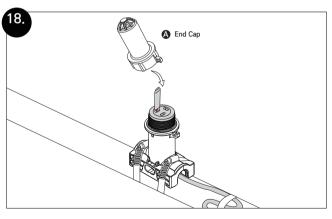


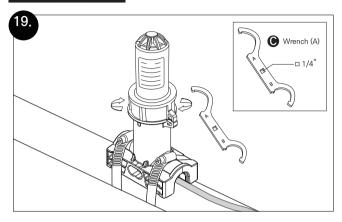


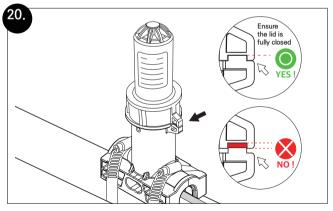


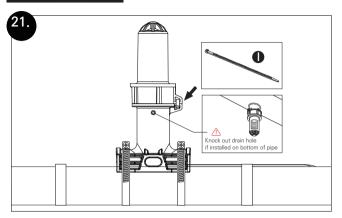


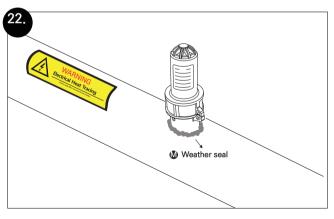




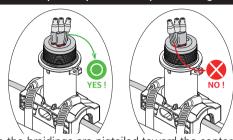




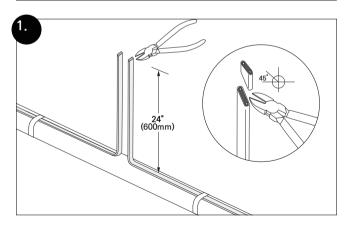


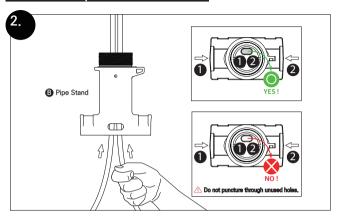


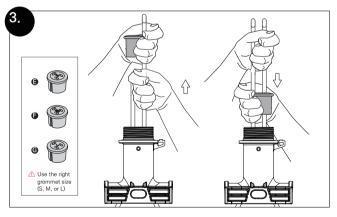
Completed picture of splice wiring

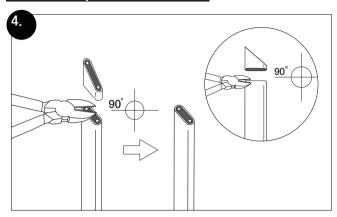


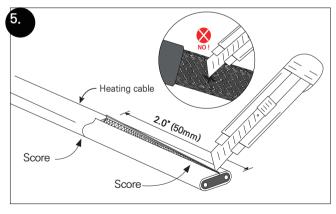
Ensure the braidings are pigtailed toward the center of the grommet. If they face outward, the connectors may block the end cap from closing properly.

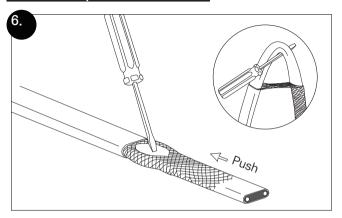


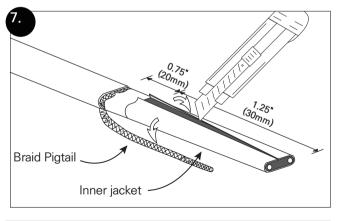


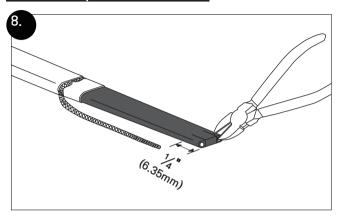


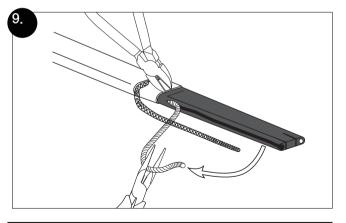


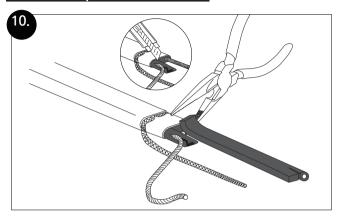


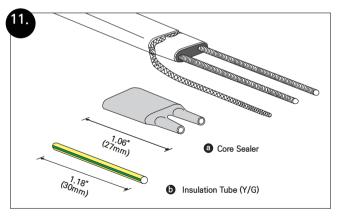


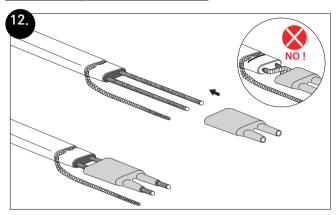


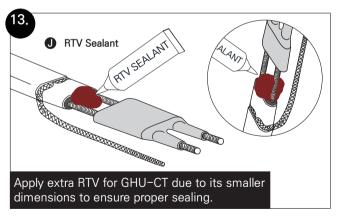


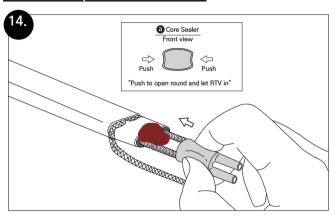


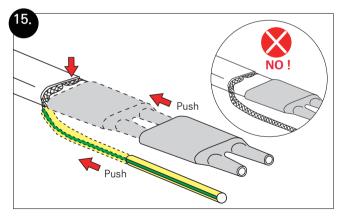


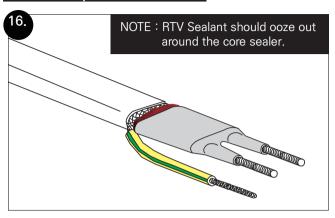


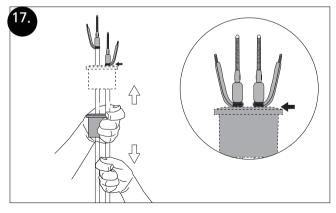


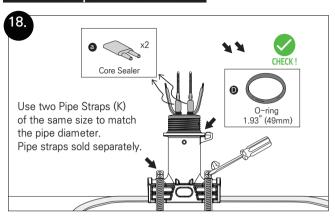


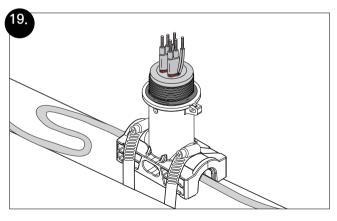


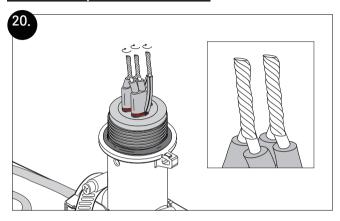


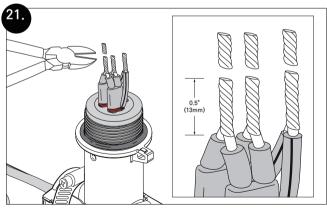


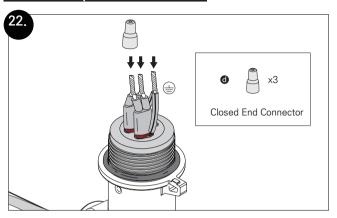


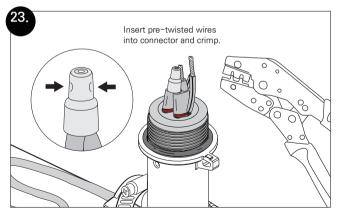


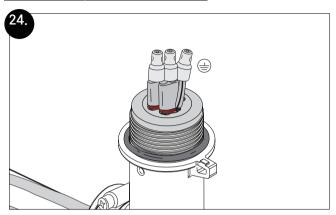


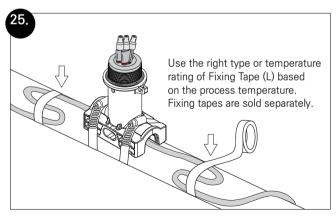


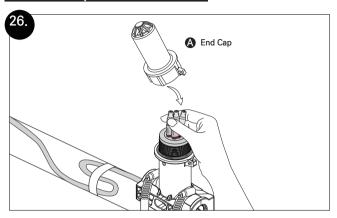


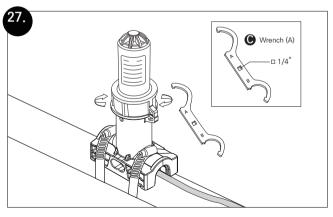


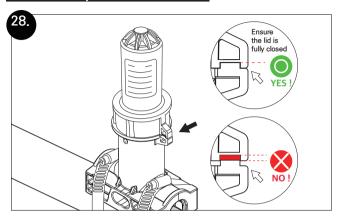


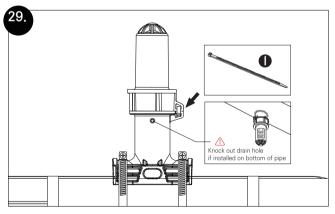


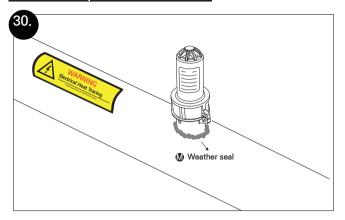














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