



GAUMER® PROCESS

PAGE

TABLE OF CONTENTS

• O A HEAT TRACING SYSTEM

INDUSTRIAL SELF-REGULATING HEATING CABLES

GHT | LOW-TEMPERATURE SELF-REGULATING

GHU | MEDIUM-TEMPERATURE SELF-REGULATING

• 1 2 GHK | HIGH-TEMPERATURE SELF REGULATING



PAGE#

GB CONNECTIONS KIT SERIES 1 4

- GB100S | POWER CONNECTION; SINGLE ENTRY
 - GB100M | POWER CONNECTIONS; MULTIPLE ENTRIES

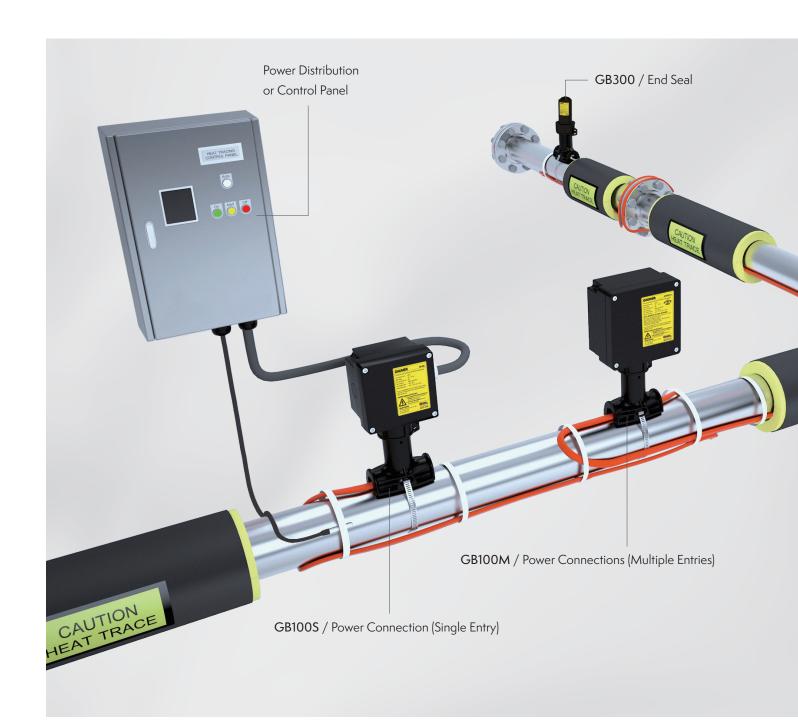
- GB200 | SPLICE OR TEE CONNECTION; END TERMINATION 20
 - GB300 | END SEAL OR IN-LINE SPLICE 22

GB300-L | LIGHTED END SEAL 24



HEAT TRACING SYSTEM

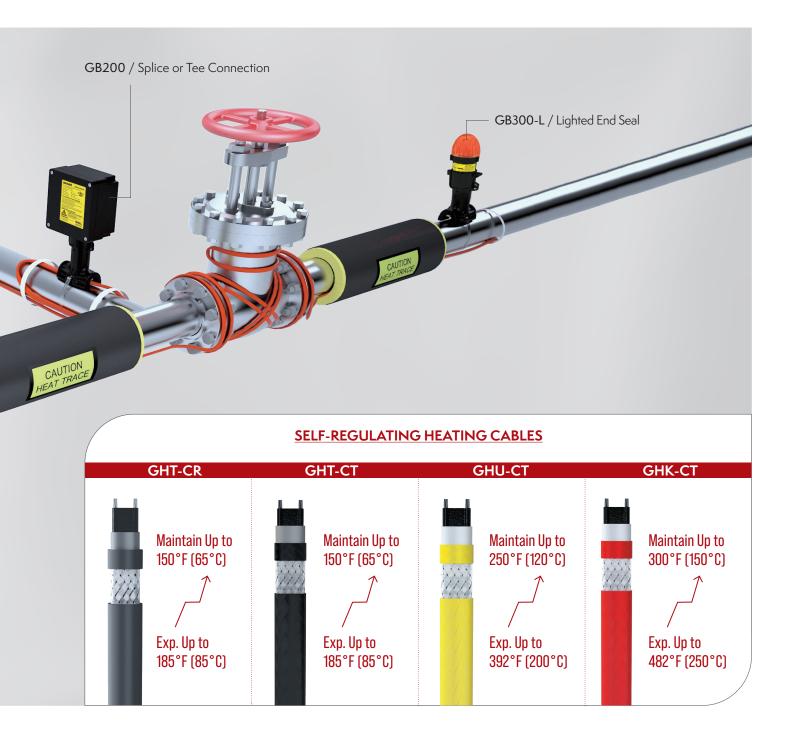
The Gaumer Process Heat Tracing System consists of Self-regulating heating cable and accessories including GB Series. Depending on the installation environment, the system could be installed in various ways, and for safety reasons, the system must be properly installed using a compatible product.





CERTIFICATION

C FM US APPROVED	⟨£x⟩	IECEX
FM24US0113X / FM24CA0042X	FM24ATEX0018X	IECEx FMG 24.0017X



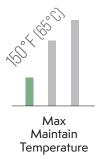


Industrial Self-Regulating Heating Cables





GHT





GHU

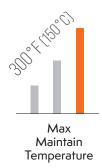


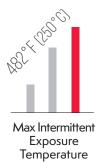




GHK









The GHT Self-Regulating Heating Cable is designed for freeze protection and process temperature maintenance of metal and non-metal pipes, vessels, and equipment.

The unique PTC feature of GHT self-regulating core elements adjusts its heat output in response to the surrounding temperature along the entire circuit, delivering more heat where and when required. This self-regulating feature also serves to prevent overheating, even in cases where GHT cables overlap. Another benefit of the cable is the ability to cut to length in the field, completed with Gaumer Process system connection kits for quick and convenient installations.

GHT heating cable system is certified for hazardous locations with maximum maintain temperature of 150°F (65°C) and intermittent exposure temperature of 185°F (85°C). Use of GB connection kits for GHT installation is required to comply with system approval, ensuring safe operation and reliable thermal performance.

CERTIFICATION

C FM US APPROVED	⟨£x⟩	IECEX
FM24US0113X / FM24CA0042X	FM24ATEX0018X	IECEx FMG 24.0017X

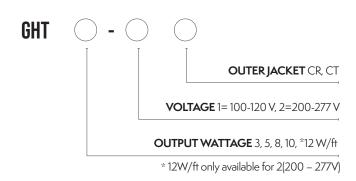




Max. Intermittent Exposure Temp.	185°F (85°C)
Max. Maintain or Continuous Exposure Temp.	150°F (65°C)
Supply Voltage	100-120 V or 200-277 V
Output Wattage	3, 5, 8, 10, 12* W/ft @50°F (10, 16, 26, 33, 39 W/m @10°C) (*12 W/ft only available in Supply Voltage 200 – 277 V)
Bus wire	16 AWG
Min. Bending Radius	0.5" @68°F (13 mm @20°C), 1.6" @-58°F (40 mm @-50°C)
Min. Installation Temperature	-58°F (-50°C)
Min. Start-up Temperature	-40°F (-40°C)
Maximum Circuit Breaker Size	40 A
Outer Jacket Color	CR : Dark Grey, CT : Black
Heating Cable Dimensions (Nominal)	CR: 0.49" x 0.25" (12.5 mm x 6.0 mm), CT: 0.46" x 0.21" (11.8 mm x 5.0 mm)
Heating Cable Weight	CR: 0.0741 lb/ft (0.110 kg/m), CT: 0.0695 lb/ft (0.103 kg/m)

ORDERING INFORMATION





NOMINAL POWER OUTPUT RATINGS

GHT Power-Temperature Characteristics 18 15 Power Output (W/ff) 6 3 0 10 30 50 70 90 110 130 150 Pipe Temperature (°F)

Voltage	GHT3-2	GHT5-2	GHT8-2	GHT10-2	GHT12-2
208V	0.969	0.957	0.925	0.920	0.915
240V	1.000	1.000	1.000	1.000	1.000
277V	1054	1065	1088	1120	1130

Power adjustment factor

Circuit length adjustment factor

Voltage	GHT3-2	GHT5-2	GHT8-2	GHT10-2	GHT12-2
208V	0.800	0.820	0.880	0.910	0.943
240V	1.000	1.000	1.000	1.000	1.000
277V	1.190	1.170	1.120	1.100	1.071

[NOTE]

1. Thermal outputs above are tested in accordance with IEC/IEEE 60097-30-1:2015, with each model on a metallic pipe insulated with a fiberglass insulation.

2. The power output will be derated by 25% on plastic pipes. GAT-L164 aluminum tape is required for installation on plastic pipes.

* Technical information subject to change without notification.



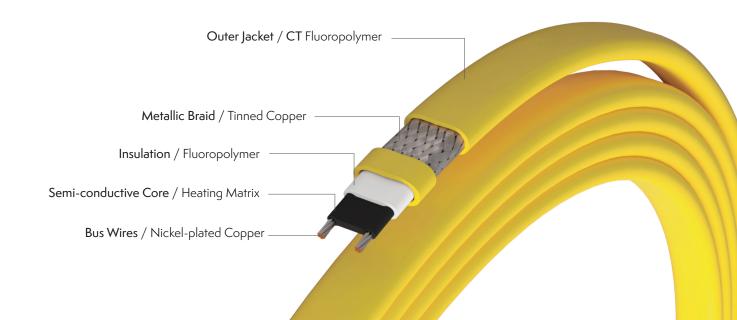
The GHU Self-Regulating Heating Cable is designed for freeze protection and process temperature maintenance of metal and non-metal pipes, vessels, and equipment.

The unique PTC feature of GHU self-regulating core elements adjusts its heat output in response to the surrounding temperature along the entire circuit, delivering more heat where and when required. This self-regulating feature also serves to prevent overheating, even in cases where GHU cables overlap. Another benefit of the cable is the ability to cut to length in the field, completed with Gaumer Process system connection kits for quick and convenient installations.

GHU heating cable system is certified for hazardous locations with maximum maintain temperature of 250°F (120°C) and intermittent exposure temperature of 392°F (200°C). Use of GB connection kits for GHU installation is required to comply with system approval, ensuring safe operation and reliable thermal performance.

CERTIFICATION

C FM US APPROVED	⟨Ex⟩	IECEX
FM24US0113X / FM24CA0042X	FM24ATEX0018X	IECEx FMG 24.0017X





Max. Intermittent Exposure Temp.	392°F (200°C)
Max. Maintain or Continuous Exposure Temp.	250°F (120°C)
Supply Voltage	100-120 V or 200-277 V
Output Wattage	5, 10, 15, 20 W/ft @50°F (16, 33, 49, 66 W/m @10°C)
Bus wire	16 AWG
Min. Bending Radius	0.8" @70°F (20 mm @20°C), 1.8" @-76°F (45 mm @-60°C)
Min. Installation Temperature	-76°F (-60°C)
Min. Start-up Temperature	-40°F (-40°C)
Maximum Circuit Breaker Size	50 A (40 A for ATEX and IECEx)
Outer Jacket Color	Yellow
Heating Cable Dimensions (Nominal)	0.43" x 0.20" (11.0 mm x 5.0 mm)
Heating Cable Weight	0.0753 lb/ft (0.112 kg/m)

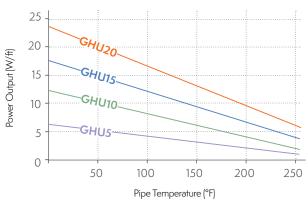
ORDERING INFORMATION



GHU CT **OUTER JACKET** Fluoropolymer **VOLTAGE** 1= 100-120 V, 2=200-277 V **OUTPUT WATTAGE** 5, 10, 15, 20 W/ft

NOMINAL POWER OUTPUT RATINGS

GHU Power-Temperature Characteristics



Circuit length adjustment factor

Voltage	GHU5-2	GHU10-2	GHU15-2	GHU20-2
208V	0.94	0.94	0.93	0.94
240V	1.00	1.00	1.00	1.00
277V	1.09	1.09	1.11	1.11

Power adjustment factor

Voltage	GHU5-2	GHU10-2	GHU15-2	GHU20-2
208V	0.88	0.89	0.90	0.91
240V	1.00	1.00	1.00	1.00
277V	1.06	1.07	1.07	1.06

^{1.} Thermal outputs above are tested in accordance with IEC/IEEE 60097-30-1:2015, with each model on a metallic pipe insulated with a fiberglass insulation.

^{2.} The power output will be derated by 25% on plastic pipes. GAT-L164 aluminum tape is required for installation on plastic pipes. * Technical information subject to change without notification.



The GHK Self-Regulating Heating Cable is designed for freeze protection and high process temperature maintenance of metal and non-metal pipes, vessels, and equipment where steam cleaning is required.

The unique PTC feature of GHK self-regulating core elements adjusts its heat output in response to the surrounding temperature along the entire circuit, delivering more heat where and when required. This self-regulating feature also serves to prevent overheating, even in cases where GHK cables overlap. Another benefit of the cable is the ability to cut to length in the field, completed with Gaumer Process system connection kits for quick and convenient installations.

GHK heating cable system is certified for hazardous locations with maximum maintain temperature of 300°F(150°C) and intermittent exposure temperature of 482°F(250°C). Use of GB connection kits for GHK installation is required to comply with system approval, ensuring safe operation and reliable thermal performance.

CERTIFICATION

C FM US APPROVED	⟨£x⟩	IECEx
FM24US0113X / FM24CA0042X	FM24ATEX0018X	IECEx FMG 24.0017X





Max. Intermittent Exposure Temp.	482°F (250°C)
Max. Maintain or Continuous Exposure Temp.	300°F (150°C)
Supply Voltage	100-120 V or 200-277 V
Output Wattage	5, 10, 15, 20 W/ft @50°F (16, 33, 49, 66 W/m @10°C)
Bus wire	16 AWG
Min. Bending Radius	0.8" @70°F (20 mm @20°C), 1.8" @-76°F (45 mm @-60°C)
Min. Installation Temperature	-76°F (-60°C)
Min. Start-up Temperature	-40°F (-40°C)
Maximum Circuit Breaker Size	50 A (40 A for ATEX and IECEx)
Outer Jacket Color	Red
Heating Cable Dimensions (Nominal)	0.50" x 0.20" (13.0 mm x 5.0 mm)
Heating Cable Weight	0.0902 lb/ft (0.134 kg/m)

ORDERING INFORMATION



CT **GHK OUTER JACKET** Fluoropolymer **VOLTAGE** 1= 100-120 V, 2=200-277 V OUTPUT WATTAGE 5, 10, 15, 20 W/ft

NOMINAL POWER OUTPUT RATINGS

GHK Power-Temperature Characteristics 25 20 Power Output (W/ft) 10 GHK10 5 0 50 100 150 200 250 300 Pipe Temperature (°F)

Circuit length adjustment factor

Voltage	GHK5-2	GHK10-2	GHK15-2	GHK20-2
208V	0.93	0.94	0.94	0.94
240V	1.00	1.00	1.00	1.00
277V	1.10	1.10	1.11	1.11

Power adjustment factor

Voltage	GHK5-2	GHK10-2	GHK15-2	GHK20-2
208V	0.93	0.94	0.94	0.94
240V	1.00	1.00	1.00	1.00
277V	1.10	1.10	1.11	1.11

[NOTE]

^{1.} Thermal outputs above are tested in accordance with IEC/IEEE 60097-30-1:2015, with each model on a metallic pipe insulated with a fiberglass insulation.

^{2.} The power output will be derated by 25% on plastic pipes. * Technical information subject to change without notification.



GB Connection Kit Series



В1		

Power Connection; Single Entry



GB100M

Power Connections ; Multiple Entries



GB200

Splice or Tee Connection, End Termination



GB300

End Seal or In-line Splice



GB300-L

Lighted End Seal





GB100S

Power Connection; Single Entry

PRODUCT DESCRIPTION

The GB100S Series is an above-insulation power connection kit for use with Gaumer GHT-CR, GHT-CT, GHU-CT and GHK-CT self-regulating heating cables. This kit can be utilized to connect power to one heating cable, and can be used for splice of two heating cables, and end termination if the through hole is blocked with sealing plug kit.

The GB series utilizes pipe stand for on-pipe installation to allow heating cables to directly enter the enclosure without the use of insulation while protecting the cables from exposure. For heating cable terminations, GB series use core sealer and RTV adhesive without the need for heatgun for installation. Spring-type terminals provide safe and reliable connections with capacity up to 8 AWG conductor sizes for fine-stranded conductors.

GB100S-A has junction box with one NPT 3/4" through hole, while GB100S-E has junction box with one M25.

CERTIFICATION

C FM US APPROVED	⟨Ex⟩	IECEX
FM24US0113X / FM24CA0042X	FM24ATEX0018X	IECEx FMG 24.0017X





	GB100S-A	GB100S-E
Application	Power Connection for Single Heating Cable	
Heating Cable Capability No. of Heating Cable Entry	GHT-CR, GHT-CT, GHU-CT, GHK-CT (One heating cable)	
Supply Voltage	100 ~ 277 V	
Ingress Protection	NEMA Type 4X, IP66	IP66
Ambient Temperature Range	-40°F ~ 131°F	-40°C ~ 55°C
Min. Installation Temperature	-40°F	-40°C
Through Hole for Conduit	NPT 3/4"	M25
Maximum Conductor Sizes*	8 AWG (6 AWG optional)	10 mm² (16 mm² optional)
Maximum Circuit Breaker Size	50 A	40 A

 $[{\sf Note}] \ {\sf GB100S} \ {\sf requires} \ {\sf Gaumer} \ {\sf Sealing} \ {\sf Plug} \ {\sf Kit} \ {\sf for} \ {\sf splice} \ {\sf or} \ {\sf end} \ {\sf termination}.$

ORDERING INFORMATION

* APPLICATION

100 = Power connection and more

200 = Tee or Splice connection, End termination

300 =End seal, In-line splice connection

GB 100 S
REGIONS A = America, E = Eurasia

CABLE ENTRY S = single, M = multiple

*APPLICATION 100, 200, 300

Contents	Enclosure material	Installation Accessories (Sold separately)	Tools required
 1 GB100S series junction box assembly with terminal blocks 1 Pipe stand and O-ring 1 Compression cap, squarering, locknut 3 Grommets(S, M, L) for different cable sizes 1 Core sealer 1 Insulation tube 1 RTV sealant 1 Wrench 1 Cable tie 	Glass reinforced polymer junction box Glass reinforced polymer lid with stainless steel screws Glass reinforced polymer box stand	Conduit and fittings Sealing Plug Kit Pipe Straps Fiberglass tape Aluminum tape	Wire cutters, Utility knife, Marking pen Large slotted screwdriver 3/16"(or 5mm) hex key Adjustable pliers, Needle nose pliers

^{*} Technical Information Subject to change without notification

^{*} If a maximum conductor size of 6 AWG (16 mm²) is required, please contact Gaumer Process for larger terminal blocks.



GB100M

Power Connections; Multiple Entries

PRODUCT DESCRIPTION

The GB100M Series is an above-insulation power connection kit with junction box for use with Gaumer GHT-CR, GHU-CT and GHK-CT self-regulating heating cables.

GB100M-A and GB100M-E have one through-hole for conduit and fittings to connect power to a maximum of three heating cables, while GB100M-A-2P and GB100M-E-2P have two through-holes for conduit and fittings to connect dual power to two heating cable circuits. The GB100M-A and GB100M-E can also be used for splice, tee, and end termination if the through hole is blocked with a sealing plug kit.

The GB series utilizes pipe stand for on-pipe installation to allow heating cables to directly enter the enclosure without the use of insulation while protecting the cables from exposure. For heating cable terminations, GB series use core sealer and RTV adhesive without the need for heatgun for installation. Spring-type terminals provide safe and reliable connections with capacity up to 8 AWG conductor sizes for fine-stranded conductors.

GB100M-A and GB100M-A-2P have junction boxes with NPT 3/4" through holes, while GB100M-E and GB100M-E-2P have junction boxes with M25 through holes.

CERTIFICATION

C FM US APPROVED	⟨£x⟩	IECEX
FM24US0113X / FM24CA0042X	FM24ATEX0018X	IECEx FMG 24.0017X





	GB100M-A(-E)	GB100M-A(-E)-2P
Application	Power Connection for a maximum of three self-regulating heating cables	Dual Power Connection for two self-regulating heating cable circuits
Heating Cable Capability No. of Heating Cable Entry	GHT-CR, GHT-CT, GHU-CT, GHK-CT (Up to three heating cables)	GHT-CR, GHT-CT, GHU-CT, GHK-CT (Two heating cable circuits)
Supply Voltage	100 ~ 277 V	100 ~ 277 V
Ingress Protection	NEMA Type 4X, IP66	NEMA Type 4X, IP66
Ambient Temperature Range	-40°F ~ 131°F (-40°C ~ 55°C)	-40°F ~ 131°F (-40°C ~ 55°C)
Min. Installation Temperature	-40°F (-40°C)	-40°F (-40°C)
Through Hole for Conduit	NPT 3/4" (M25) x 1	NPT ¾" (M25) x 1
Maximum Conductor Sizes*	8AWG (10mm²)	8AWG (10mm²)
Maximum Circuit Breaker Size	50A (40A)	50A (40A)

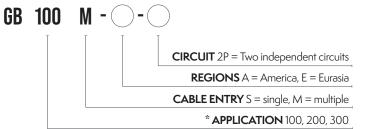
[NOTE] GB100M-A(-E) requires Gaumer Sealing Plug Kit for splice, tee connection or end termination.

ORDERING INFORMATION

* APPLICATION

100 = Power connection and more200 = Tee or Splice connection, End termination

300 =End seal, In-line splice connection



Contents	Enclosure material	Installation Accessories (Sold separately)	Tools required
 1 GB100M series junction box assembly with terminal blocks 1 Pipe stand and O-ring Compression cap, square-ring, locknut 3 Grommets(S, M, L) for different cable sizes 3 Core sealers 3 Insulation tubes 1 RTV sealant 1 Wrench 1 Cable tie 	Glass reinforced polymer junction box Glass reinforced polymer lid with stainless steel screws Glass reinforced polymer box stand	· Conduit and fittings · Sealing Plug Kit · Pipe Straps · Fiberglass tape · Aluminum tape	Wire cutters, Utility knife, Marking pen Large slotted screwdriver 3/16"(or 5mm) hex key Adjustable pliers, Needle nose pliers

^{*} Technical Information Subject to change without notification

^{*} If a maximum conductor size of 6 AWG (16 mm²) is required, please contact Gaumer Process for larger terminal blocks.



GB200

Splice or Tee Connection, End Termination

PRODUCT DESCRIPTION

GB200 series is an above insulation connection kit for use with Gaumer GHT-CR, GHT-CT, GHU-CT and GHK-CT 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.

The GB series utilizes pipe stand for on-pipe installation to allow heating cables to directly enter the enclosure without the use of insulation while protecting the cables from exposure. For heating cable terminations, GB series use core sealer and RTV adhesive without the need for heatgun for installation. Spring-type terminals provide safe and reliable connections with capacity up to 8 AWG conductor sizes for fine-stranded conductors.

GB200 junction box has the same dimensions as that of GB100M, but does not have any through holes. GB200 is dedicated for splice or tee connections as well as end terminations.

CERTIFICATION

C FM US APPROVED	(£x)	IECEX
FM24US0113X / FM24CA0042X	FM24ATEX0018X	IECEx FMG 24.0017X





	GB200	
Application	Splice or Tee Connection, End Termination	
Heating Cable Capability No. of Heating Cable Entry	GHT-CR, GHT-CT, GHU-CT, GHK-CT (Up to three heating cables)	
Supply Voltage	100 ~ 277 V	
Ingress Protection	NEMA Type 4X, IP66	
Ambient Temperature Range -40°F ~ 131°F (-40°C ~ 55°C)		
Min. Installation Temperature -40°F (-40°C)		
Through Hole for Conduit	N/A	
Maximum Conductor Sizes	8 AWG (10 mm²), 6 AWG (16 mm²) optional	
Maximum Circuit Breaker Size 50 A (40 A for ATEX and IECEx)		

ORDERING INFORMATION

* APPLICATION

100 = Power connection and more
200 = Tee or Splice connection, End termination
300 = End seal, In-line splice connection

GB 200

* **APPLICATION** 100, 200, 300

Contents	Enclosure material	Installation Accessories (Sold separately)	Tools required
· 1 GB200 series junction box assembly with terminal blocks · 1 Pipe stand and O-ring · 1 Compression cap, squarering, locknut · 3 Grommets(S, M, L) for different cable sizes · 3 Core sealers · 3 Insulation tubes · 1 RTV sealant · 1 Wrench · 1 Cable tie	Glass reinforced polymer junction box Glass reinforced polymer lid with stainless steel screws Glass reinforced polymer box stand	Conduit and fittings Pipe Straps Fiberglass tape Aluminum tape	Wire cutters, Utility knife, Marking pen Large slotted screwdriver 3/16"(or 5mm) hex key Adjustable pliers, Needle nose pliers

 $[\]ensuremath{^*}$ Technical Information Subject to change without notification



GB300

End Seal / In-line Splice Connection

PRODUCT DESCRIPTION

The GB300 is an above insulation end seal kit for use with Gaumer GHT-CR, GHT-CT, GHU-CT and GHK-CT self-regulating heating cables, to be used either as an end seal for up to two heating cables or as an in-line splice connection.

The GB series utilizes pipe stand for on-pipe installation to allow heating cables to directly enter the enclosure without the use of insulation while protecting the cables from exposure. For heating cable terminations, GB series connection kits use silicone rubber end caps or core sealers and RTV adhesive without the need for heatqun for installation.

For in-line splice connections, the separate "GB-SK" accessory pack is required and sold separately.

CERTIFICATION

C FM US APPROVED	⟨£x⟩	IECEx
FM24US0113X / FM24CA0042X	FM24ATEX0018X	IECEx FMG 24.0017X





	GB300
Application	End Seal / In-line Splice Connection
Heating Cable Capability No. of Heating Cable Entry	GHT-CR, GHT-CT, GHU-CT, GHK-CT (Up to two heating cables)
Supply Voltage	100 ~ 277 V
Ingress Protection	NEMA Type 4X, IP66
Ambient Temperature Range	-40°F ~ 131°F (-40°C ~ 55°C)
Min. Installation Temperature	-40°F (-40°C)

ORDERING INFORMATION

* APPLICATION

100 = Power connection and more200 = Tee or Splice connection, End termination300 = End seal, In-line splice connection

GB 300

* **APPLICATION** 100, 200, 300

Contents	Required for splice connection (Sold separately)	Enclosure material	Installation Accessories (Sold separately)	Tools required
·1 End cap ·1 Pipe stand and O-ring ·3 Grommets(S, M, L) for different cable sizes ·2 Rubber end caps ·1 RTV sealant ·1 Wrench ·1 Cable tie	GB-SK, consists of: · 2 Core sealers (S) · 2 Insulation tubes Y/G (S) · 3 Closed end connectors · 1 RTV sealant	Glass reinforced polymer end cap Glass reinforced polymer pipe stand	· Pipe Straps · Fiberglass tape · Aluminum tape	Wire cutters, Utility knife, Marking pen Large slotted screwdriver Adjustable pliers, Needle nose pliers Molex RHT-7000 crimp tool or equivalent; 10-16AWG slot (For in-line splice connection only)

 $[\]ensuremath{^{*}}$ Technical Information Subject to change without notification



GB300-L

Lighted End Seal

PRODUCT DESCRIPTION

The GB300-L is an above insulation lighted end seal kit for use with Gaumer GHT-CR, GHT-CT, GHU-CT and GHK-CT self-regulating heating cables, to terminate Gaumer heating cables with red or green light indicator. The GB series utilizes pipe stand for on-pipe installation to allow heating cables to directly enter the enclosure without the use of insulation while protecting the cables from exposure. For heating cable terminations, GB series connection kits use core sealer and RTV adhesive without the need for heatgun for installation.



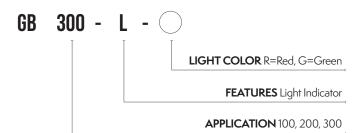


	GB300-L
Application	Lighted End Seal
Heating cable capability No. of heating cable entry	GHT-CR, GHT-CT, GHU-CT, GHK-CT (One heating cable)
Supply Voltage	100 ~ 240 V
Ingress Protection	NEMA Type 4X, IP66
Ambient Temperature Range	-40°F ~ 131°F (-40°C ~ 55°C)
Min. Installation Temperature	-40°F (-40°C)

ORDERING INFORMATION

* APPLICATION

100 = Power connection and more
200 = Tee or Splice connection, End termination
300 = End seal, In-line splice connection



Contents	Enclosure material	Installation Accessories (Sold separately)	Tools required
· 1 Lighted end cap assembly · 1 Pipe stand and O-ring · 3 Grommets(S, M, L) for different cable sizes · 2 Closed end connectors · 1 Core sealer (S) · 1 RTV sealant · 1 Wrench · 1 Cable tie	Glass reinforced polymer end cap Glass reinforced polymer pipe stand	Pipe Straps Fiberglass tape Aluminum tape	Wire cutters, Utility knife, Marking pen Large slotted screwdriver Adjustable pliers, Needle nose pliers Molex RHT-7000 crimp tool or equivalent; 10-16AWG slot

^{*} Technical Information Subject to change without notification

ADDRESS. 13616 Hempstead Road, Houston, TX, U.S.A. 77040 WEBSITE. www.gaumer.com CONTACT. +1 (800)460.5200 E-MAIL. sales@gaumer.com Copyright 2024 Gaumer Process. All rights reserved

