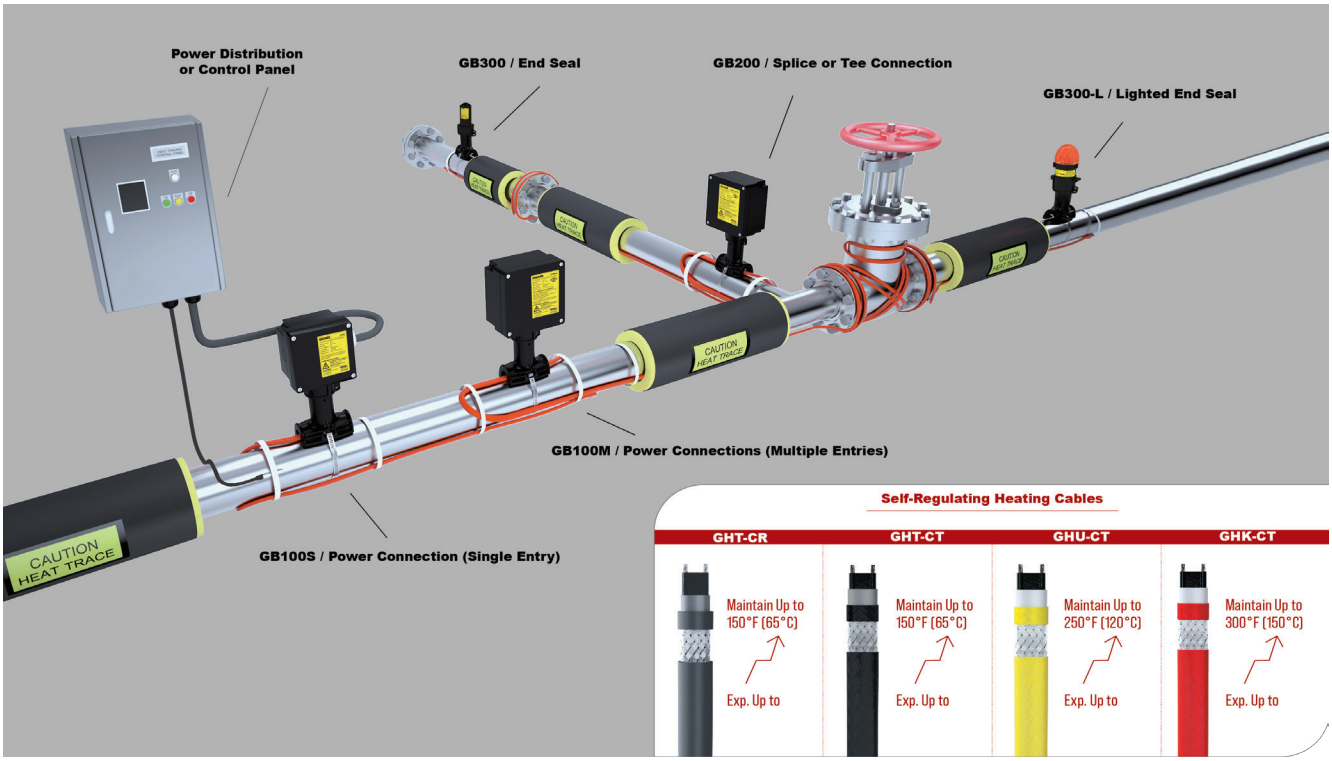
PAGE #

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.

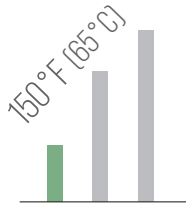


CERTIFICATION

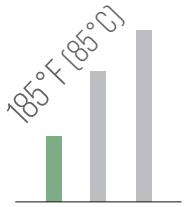
FM APPROVED	Ex	IECEx
FM24US0113X / FM24CA0042X	FM24ATEX0018X	IECEx FMG 24.0017X

Industrial Self-Regulating Heating Cables

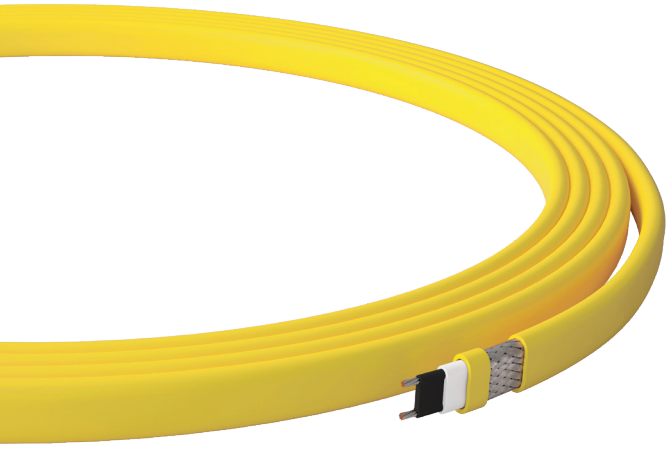
GHT



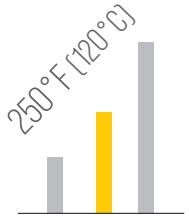
Max Maintain Temperature



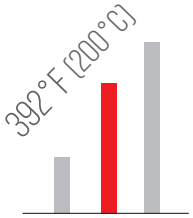
Max Intermittent Exposure Temperature



GHU

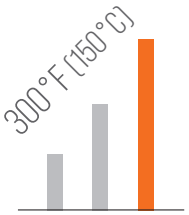


Max Maintain Temperature

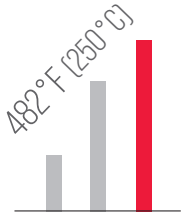


Max Intermittent Exposure Temperature

GHK



Max Maintain Temperature



Max Intermittent Exposure Temperature

GHT

Up to
185°F
85°C

PRODUCT DESCRIPTION

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

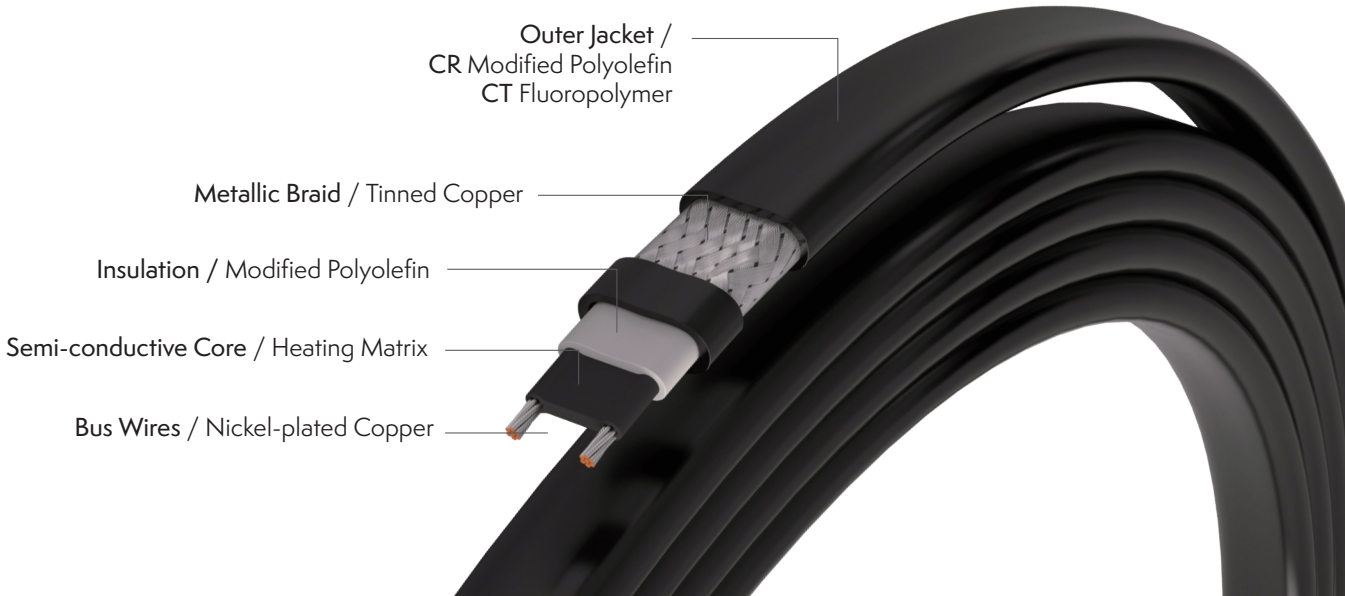
The unique PTC feature of GHT self-regulating core elements adjusts its heat output in response to the surrounding temperature along the entire circuit, delivering more heat where and when required. This self-regulating feature also serves to prevent overheating, even in cases where GHT cables overlap. 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

FM APPROVED	Ex	IECEx
FM24US0113X / FM24CA0042X	FM24ATEX0018X	IECEx FMG 24.0017X

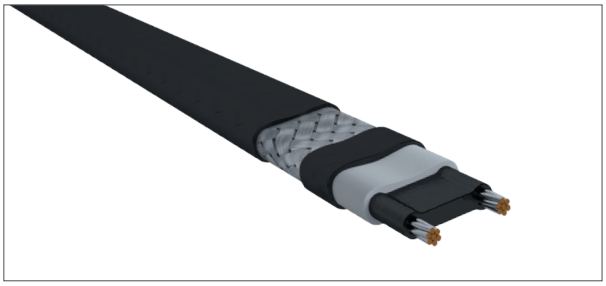
PRODUCT STRUCTURE



SPECIFICATION

Max. Intermittent Exposure Temp.	185°F (85°C)
Max. Maintain or Continuous Exposure Temp.	150°F (65°C)
Supply Voltage	100-120V or 200-277V
Output Wattage	3, 5, 8, 10, 12* W/ft @50°F (10, 16, 26, 33, 39W/m @10°C) (*12W/ft only available in Supply Voltage 200 – 277V)
Bus wire	16 AWG
Min. Bending Radius	0.5" @68°F (13mm @20°C), 1.6" @-58°F (40mm @-50°C)
Min. Installation Temperature	-58°F (-50°C)
Min. Start-up Temperature	-40°F (-40°C)
Maximum Circuit Breaker Size	40A
Outer Jacket Color	CR : Dark Grey, CT : Black
Heating Cable Dimensions (Nominal)	CR : 0.49" x 0.25" (12.5mm x 6.0mm), CT : 0.46" x 0.21" (11.8mm x 5.0mm)
Heating Cable Weight	CR : 0.074lb/ft (0.110kg/m), CT : 0.069lb/ft (0.103kg/m)

ORDERING INFORMATION



GHT ◯ - ◯ ◯

OUTER JACKET CR, CT

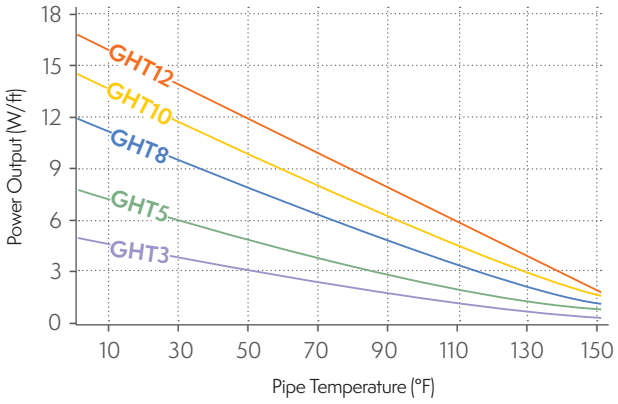
VOLTAGE 1= 100-120V, 2=200-277V

OUTPUT WATTAGE 3, 5, 8, 10, *12 W/ft

* 12W/ft only available for 2(200 – 277V)

NOMINAL POWER OUTPUT RATINGS

GHT Power-Temperature Characteristics



Circuit length adjustment factor

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	1.054	1.065	1.088	1.120	1.130

Power 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.

Up to
392°F
200°C

GHU

PRODUCT DESCRIPTION

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

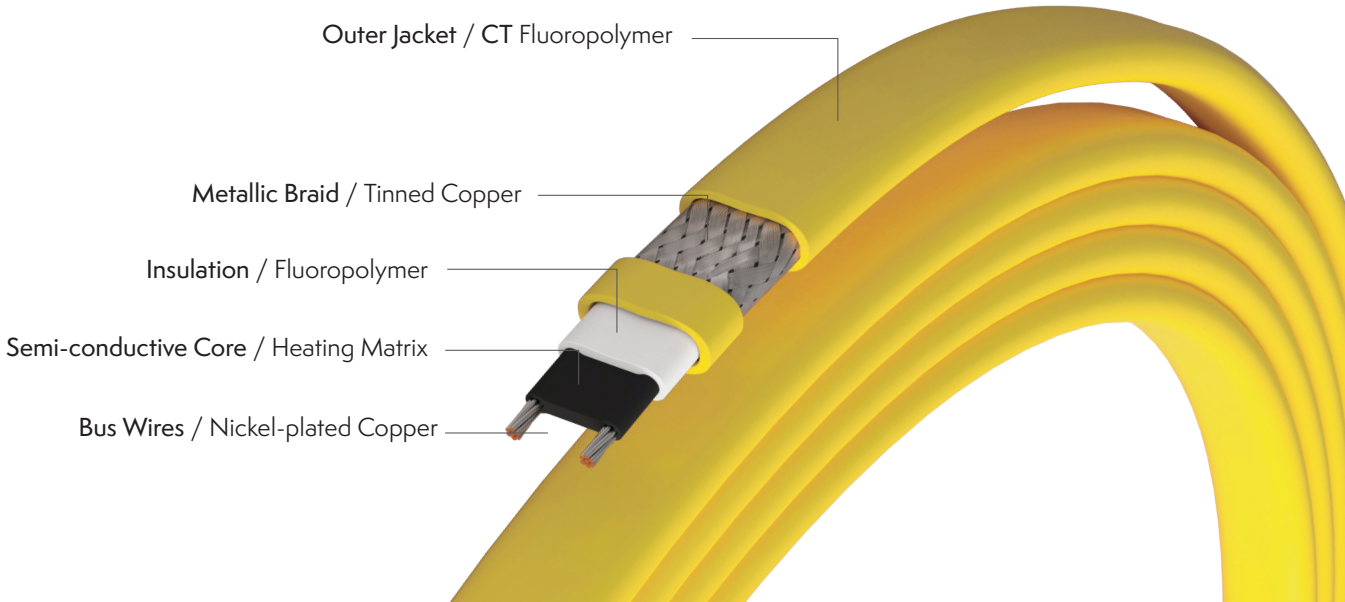
The unique PTC feature of GHU self-regulating core elements adjusts its heat output in response to the surrounding temperature along the entire circuit, delivering more heat where and when required.
This self-regulating feature also serves to prevent overheating, even in cases where GHU cables overlap.
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

FM APPROVED	Ex	IECEx
FM24US0113X / FM24CA0042X	FM24ATEX0018X	IECEx FMG 24.0017X

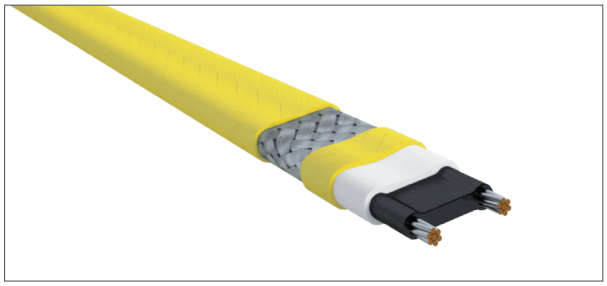
PRODUCT STRUCTURE



SPECIFICATION

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

ORDERING INFORMATION



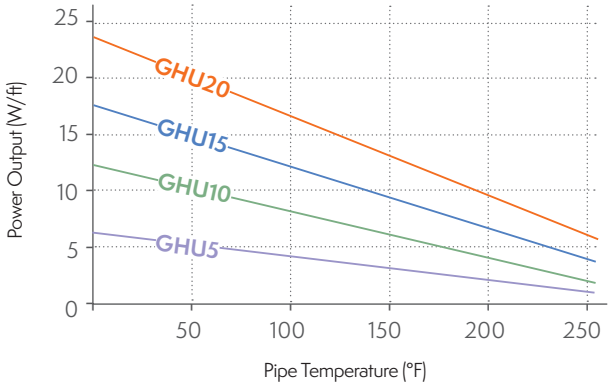
GHU ◯ - ◯ CT

OUTER JACKET Fluoropolymer

VOLTAGE 1= 100-120V, 2=200-277V

OUTPUT WATTAGE 5, 10, 15, 20 W/ft

NOMINAL POWER OUTPUT RATINGS



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

[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.

Up to
482°F
250°C

GHK

PRODUCT DESCRIPTION

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.

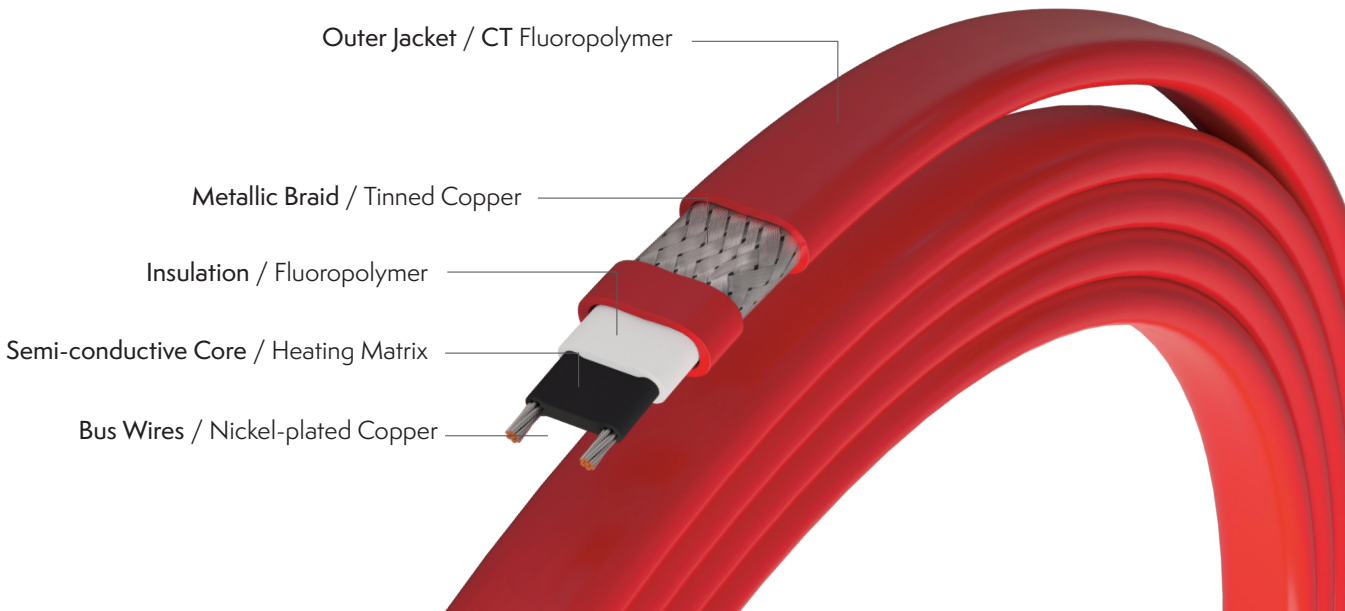
The unique PTC feature of GHK self-regulating core elements adjusts its heat output in response to the surrounding temperature along the entire circuit, delivering more heat where and when required.
This self-regulating feature also serves to prevent overheating, even in cases where GHK cables overlap.
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

FM APPROVED	Ex	IECEx
FM24US0113X / FM24CA0042X	FM24ATEX0018X	IECEx FMG 24.0017X

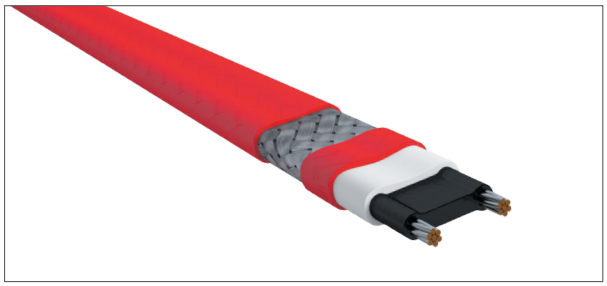
PRODUCT STRUCTURE



SPECIFICATION

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

ORDERING INFORMATION



GHK ◯ - ◯ CT

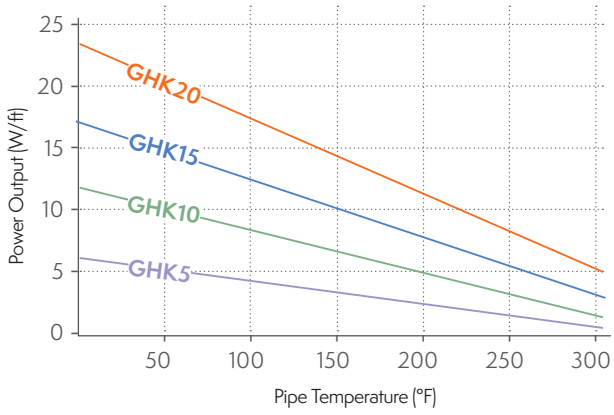
OUTER JACKET Fluoropolymer

VOLTAGE 1= 100-120V, 2=200-277V

OUTPUT WATTAGE 5, 10, 15, 20 W/ft

NOMINAL POWER OUTPUT RATINGS

GHK Power-Temperature Characteristics



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. GAT-L164 aluminum tape is required for installation on plastic pipes.
* Technical information subject to change without notification.

GB Connection Kit Series

GB100S

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

GB300-L-R GB300-L-G

GB100S Power Connection ; Single Entry

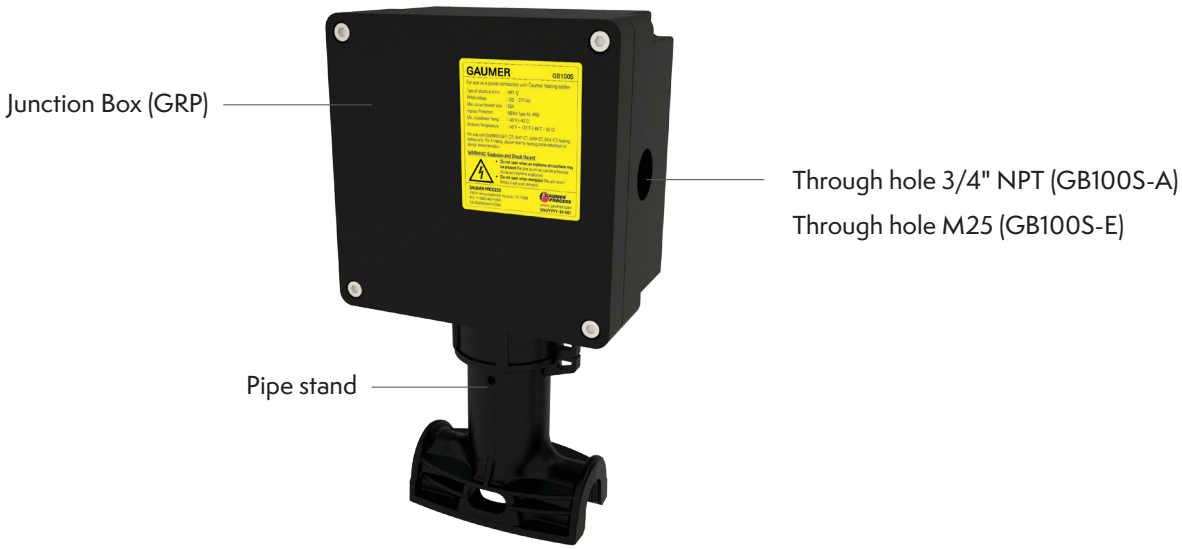
PRODUCT DESCRIPTION

The GB100S is designed to provide power connection for GHT, GHU or GHK industrial self-regulating heating cables of Gaumer Process.
The GB series utilize pipe standoff for on-pipe installation to allow heating cables to directly enter the enclosure without the use of insulation while protecting the cables from exposure.
The GB series connection kits 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 8AWG conductor sizes.
GB100S-A has enclosure with one NPT 3/4" through hole, GB100S-E with one M25 through hole for power entry, to energize single heating cable. GB100S may also be used as splice of two heating cables or end of the circuit termination if the through hole is blocked with a certified plug.

CERTIFICATION

FM APPROVED	Ex	IECEx
FM24US0113X / FM24CA0042X	FM24ATEX0018X	IECEx FMG 24.0017X

PRODUCT STRUCTURE



SPECIFICATION

	GB100S-A	GB100S-E
Application	Power Connection with Single Entry	
Heating Cable Capability No. of Heating Cable Entry	GHT-CR, GHT-CT, GHU-CT, GHK-CT (One heating cable)	
Supply Voltage	100 ~ 277V	
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 ¾"	M25
Maximum Conductor Sizes	8AWG (6AWG optional)	10mm² (16mm² optional)
Maximum Circuit Breaker Size	50A	40A

[Note] GB100S requires box stopping plug for splice or end 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

MATERIAL INFORMATION

Contents	Enclosure material	Installation Accessories (Sold separately)	Tools required
· 1 Junction box with terminal blocks · 1 Lid and 4 screws · 1 Pipe stand, compression cap, locknut and cable tie · 3 Grommets for different cable sizes · 1 Core sealer · 1 Insulation tube · 2 Grommet plugs · 1 RTV sealant · 2 O-rings · 1 Wrench	· Glass reinforced polymer junction box · Glass reinforced polymer lid with stainless steel screws · Glass reinforced polymer box stand	· Conduit and fittings · Box plug · Pipe Strap · 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

GB100M Power Connections ; Multiple Entries

PRODUCT DESCRIPTION

The GB100M is designed to provide power connections for up to three heating cables. The GB100M can also be used for splice or tee connection or end termination if the power through hole is blocked with a certified plug.
The GB series utilize pipe standoff for on-pipe installation to allow heating cables to directly enter the enclosure without the use of insulation while protecting the cables from exposure.
The GB series connection kits 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 8AWG conductor sizes.
GB100M-A has enclosure with one NPT 3/4" through hole, GB100M-E with one M25 through hole for power entries for power connection up to three Gaumer Process heating cables.

CERTIFICATION

FM APPROVED	Ex	IECEx
FM24US0113X / FM24CA0042X	FM24ATEX0018X	IECEx FMG 24.0017X

PRODUCT STRUCTURE

SPECIFICATION

	GB100M-A	GB100M-E
Application	Power Connection with Multiple Entries (Two independent circuits if desired)	
Heating Cable Capability No. of Heating Cable Entry	GHT-CR, GHT-CT, GHU-CT, GHK-CT (Three heating cables)	
Supply Voltage	100 ~ 277V	
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 ¾"	M25
Maximum Conductor Sizes	8AWG (6AWG optional)	10mm² (16mm² optional)
Maximum Circuit Breaker Size	50A	40A

[NOTE] GB100M requires box stopping plug for splice or tee connection or end 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 M - ◯

REGIONS A = America, E = Eurasia

CABLE ENTRY S = single, M = multiple

*** APPLICATION** 100, 200, 300

MATERIAL INFORMATION

Contents	Enclosure material	Installation Accessories (Sold separately)	Tools required
· 1 Junction box with terminal blocks · 1 Lid and 4 Screws · 1 Pipe stand, compression cap, locknut and cable tie · 3 Grommets for different cable sizes · 3 Core sealers · 3 Insulation tubes · 2 Grommet plugs · 1 RTV sealant · 2 O-rings · 1 Wrench	· Glass reinforced polymer junction box · Glass reinforced polymer lid with stainless steel screws · Glass reinforced polymer box stand	· Conduit and fittings · Box plug · Pipe Strap · 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

GB200 Splice or Tee Connection, End Termination

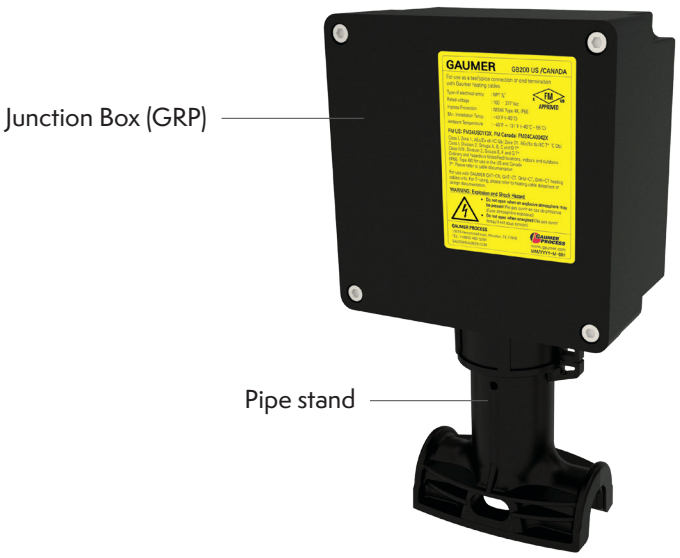
PRODUCT DESCRIPTION

The GB200 is designed to provide splice or tee connections or end terminations for Gaumer Process GHT, GHU or GHK industrial self-regulating heating cables.
The GB series utilize pipe standoff for on-pipe installation to allow heating cables to directly enter the enclosure without the use of insulation while protecting the cables from exposure.
The GB series connection kits 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 8AWG conductor sizes.
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

FM APPROVED	Ex	IECEx
FM24US0113X / FM24CA0042X	FM24ATEX0018X	IECEx FMG 24.0017X

PRODUCT STRUCTURE



SPECIFICATION

	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 ~ 277V
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	8AWG (10mm²), 6AWG (16mm²) optional
Maximum Circuit Breaker Size	50A (40A 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

MATERIAL INFORMATION

Contents	Enclosure material	Installation Accessories (Sold separately)	Tools required
· 1 Junction box with terminal blocks · 1 Lid and 4 screws · 1 Pipe stand, compression cap, locknut and cable tie · 3 Grommets for different cable sizes · 3 Core sealers · 3 Insulation tubes · 2 Grommet plugs · 1 RTV sealant · 2 O-rings · 1 Wrench	· Glass reinforced polymer junction box · Glass reinforced polymer lid with stainless steel screws · Glass reinforced polymer box stand	· Conduit and fittings · Pipe Strap · 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

GB300 End Seal / In-line Splice Connection

PRODUCT DESCRIPTION

The GB300 is designed to terminate Gaumer Process GHT, GHU, or GHK industrial self-regulating heating cables for up to two heating cables and also allows for in-line splice connections.
The GB series utilize pipe standoff for on-pipe installation to allow heating cables to directly enter the enclosure without the use of insulation while protecting the cables from exposure.
GB300 uses rubber end cap or core sealers and RTV adhesive without the need for heatgun for installation.

CERTIFICATION

FM APPROVED	Ex	IECEx
FM24US0113X / FM24CA0042X	FM24ATEX0018X	IECEx FMG 24.0017X

PRODUCT STRUCTURE

SPECIFICATION

	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 ~ 277V
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

GB 300

*** APPLICATION** 100, 200, 300

MATERIAL INFORMATION

Contents	Required for splice connection (Sold separately)	Enclosure material	Installation Accessories (Sold separately)	Tools required
· 1 End cap · 1 Pipe stand and cable tie · 3 Grommets for different cable sizes · 2 Rubber end caps · 1 RTV sealant · 1 O-ring · 1 Wrench	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 Strap · 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)

*Technical Information Subject to change without notification

GB300-L Lighted End Seal

PRODUCT DESCRIPTION

The GB300-L is designed to terminate Gaumer Process GHT, GHU or GHK industrial self-regulating heating cables with red or green light indicator for single heating cable.
The GB series utilize pipe standoff for on-pipe installation to allow heating cables to directly enter the enclosure without the use of insulation while protecting the cables from exposure.
The GB300-L uses core sealer and RTV adhesive without the need for heatgun for installation.

CERTIFICATION

FM APPROVED	Ex	IECEx
FM24US0113X / FM24CA0042X	FM24ATEX0018X	IECEx FMG 24.0017X

PRODUCT STRUCTURE

SPECIFICATION

	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 ~ 277V
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

GB 300 - L - ◯

LIGHT COLOR R=Red, G=Green

FEATURES Light Indicator

APPLICATION 100, 200, 300

MATERIAL INFORMATION

Contents	Enclosure material	Installation Accessories (Sold separately)	Tools required
· 1 Lighted end cap · 1 Pipe stand and cable tie · 3 Grommets for different cable sizes · 2 Closed end connectors · 1 Core sealer (S) · 1 RTV sealant · 1 O-ring · 1 Wrench	· Glass reinforced polymer end cap · Glass reinforced polymer pipe stand	· Pipe Strap · 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