

## Ex S GH. ALAT

System Heizleiterverbinder



### Characteristics

Connection coupling for all common types of heating cable
Easy installation
No heating necessary
20 years of use
Pre-assembled casting compound
Screw-/clamp fastening by use of M24 nut

The system certificate contemplates the heat conductor connector in connection with the corresponding heating cables. This system certificate facilitates an explosion control contemplation during the installation at the end customer and at the designated testing facility. The system is certified for Ex zone 1 and 2.

Part of this operating manual is the separately available operating manual Ex GH.ALAT or rather Ex GHL ALAT.

It is available for download under [www.erich-ott.de](http://www.erich-ott.de).

The system consists of the designated types of heating cables and the connection fittings, which consist of 2 components, that must be ordered separately.

- The heating cable connector incl. clamping part / sleeve and connection fitting
- The cast resin components A and B



Additionally a duct can be ordered, which facilitates the assembly execution out of the insulation and produces a clear and professional connection point. If the heat conductor connector should be connected to an assembly iron or similar, a M24 nut is placed standard above a thread in delivery state.

The fully assembled connection is preferably fixed as loop outside the isolation or under the isolation directly on the pipeline. At this the maximum ambient temperatures of the EU type examination certificate as well as the indications of this operating manual must be observed.

The cross-sections of the supply line as well as the material and the length of the connection cable must be specified from the type code of the operating manual Ex GH... ALAT bzw. EX GHL ALAT.

Heating cable mineral insulated	Type examination certificate	Heat conductor connector
Heatchem H400 / H600-A / H321-A	SIRA10ATEX3216	GH/ GHL
Pentair (Raychem) HDC / HDF	Baseefa02ATEX0045U	
Pentair (Raychem) HSQ / HIQ	Baseefa02ATEX0045U	
Pentair (Raychem) HAX	Baseefa02ATEX0045U	
Thermon MIS / MIQ	ISSeP12ATEX004U	
TraceTec (ISOHEAT) ISOHEAT-MI-FHC	BVS12ATEX041U	
Heating cable PTFE-insulated	Type examination certificate	Heat conductor connector
Pentair (Raychem) XPI / XPI-S	PTB08ATEX1088U	GHT
Self-regulating heating band (parallel)	Type examination certificate	Heat conductor connector
Raychem (BTV)	PTB09ATEX1115X & Baseefa06ATEX0183X	GHP

### TECHNICAL DATA

Cable diameter heat conductor	3,2 mm to 5,8 mm	
Max. power loss per m heating cable: Cast resin fitting (GH) (GHT) (GHP) (GHL)	22 W/m (at +40°C ambient temperature) 15 W/m (at +40°C ambient temperature) 22 W/m (at +40°C ambient temperature) 80 W/m (at +40°C ambient temperature)	
Current type	Direct or alternating voltage	
Nominal voltage of the connector	230 V	
Max. admissible nominal current	16A/ 18A (or rather. 16/ 32A for GHL)	
Connection cable	1,5 mm <sup>2</sup> or 2,5 mm <sup>2</sup> EVA, PTFE or Silikon	
Degree of protection	IP65/ DIN 40 0 50	
Dimensions: GH GHT + GHL + GHP	85 x 32 mm 100 x 32 mm	
Fixing hole	26 mm	
PE connection box (optionally)	75x80x55 mm (also see point 10)	
Temperature at the heat conductor connector GH/ GHT	max. 70°C ( applicable at max. permissible power dissipation at the entrance of the heat conductor into the cast resin)	
Temperature at the heat conductor GHL	max. 180°C (applicable at max. permissible power dissipation at the entrance of the heat conductor into the cast resin)	
Ambient temperature range	-40°C to +40°C /+60°C (respectively. +80°C GHL) for accordingly adjusted heat power	
EU type examination certificate	PTZ 16 ATEX 0021X	
Type of ignition protection (Gas)	II 2 G Ex eb mb II C T1-T6	
Identification	 0344	 II 2 G Ex eb mb II C T1-T6 II 2 D Ex mb IIIC T... °C

## TYPE CODE

Ex **1** GH **2** ALAT **3 4 5 6 7**

1	S	System certificate (PTZ16ATEX0021X)
2	-	for mineral insulated heating cable (GH =22W/m)
	T	for plastic insulated heating cable
	P	for parallel heat conductors self-regulating
	L	for mineral insulated heating cable (GHL =80W/m)
3	-	Standard connection cable 1,5 mm <sup>2</sup> 230 V
	400	Connection cable 2,5 mm <sup>2</sup> 400 V
4	-	Standard version
	S	With protective hose stainless steel A2
	M	Excenter connector (sleeve)
5	-	Standard connection cable (EVA) up to 110°C 1,5 mm <sup>2</sup>
	P	Connection cable made of PTFE 1,5 mm <sup>2</sup>
	P 2,5	Connection cable made of PTFE 2,5 mm <sup>2</sup>
	S	Connection cable made of silicone 1,5 mm <sup>2</sup>
	S 2,5	Connection cable made of silicone 2,5 mm <sup>2</sup>
6	-	Standard
	va	Version "stainless steel"
7	-	Standard length connection cable: 1,2 m
	...	Length in plain text, (available lengths: 0,5 - 5 m)

Example: System with plastic insulated heating cable, standard protective hose, connection cable made of PTFE, version „stainless steel“, length of connection cable: 1,2 m:

Ex **S** GH **T** ALAT **3 4 5 6 7**



Attention! The casting compound is necessary accessory and must be ordered separately. See the data sheet casting compound for ordering indications..

**Complete the type plate at the cable connector**

## NECESSARY ACCESSORY

1	2855-T125	Cast resin components A and B	GH/ GHT
2	2855-T125L	Cast resin components A and B	GHL

### Scope of delivery 2855-T125



1 can component „A“, 1 can component „B“, 1 wooden spatula

### Scope of delivery 2855-T125L



Please take further information from the data sheet cast resin 2855-T125 or 2855-T125L on [www.erich-ott.de](http://www.erich-ott.de)

Please take further data from the operating manual.  
Download on [www.erich-ott.de](http://www.erich-ott.de)

## HEATING CABLE POLYMERIZED (PI) FOR GHT

Please indicate the reference number (resistance) according to the manufacturer. Also the desired length of cable.

	Manufacturer	Type	Resistance of the heating cable	Length of the cable
1	Pentair (Raychem)	XPI / XPI-S	0,8 - 8000 Ω /KM	xx m

## HEATING CABLE MINERAL INSULATED FOR GH / GHL

	Manufacturer	Type	Resistance of the heating cable	Length of the cable
1	Pentair (Raychem)	HDC / HDF	7 - 1600 Ω /KM	xx m
2	Pentair (Raychem)	HSQ	250 - 10000 Ω /KM	xx m
3	Pentair (Raychem)	HIQ	250 - 10000 Ω /KM	xx m
4	Pentair (Raychem)	HAX	105 - 36.000 Ω /KM	xx m
5	Heatchem	H400 (HDF/HDC)	7 - 1.600 Ω /KM	xx m
6	Heatchem	H600-A (HIQ)	250 - 10.000 Ω /KM	xx m
7	Heatchem	H321-A (HSQ)	250 - 10.000 Ω /KM	xx m
6	Thermon	MIS	160 - 10.000 Ω /KM	xx m
8	Thermon	MIQ	160 - 10.000 Ω /KM	xx m
9	ISOHEAT	MI-FHC	250 - 10.000 Ω /KM	xx m

## PARALLEL HEAT CONDUCTORS SELF-REGULATING FOR GHP

	Manufacturer	Type	Heating capacity	Length of the cable
1	Pentair	BTV	25 W/M bei 10°C	xx m

## TYPE PLATE

1	II 2G Ex eb mb IIC T1- T6	PTZ 16 ATEX 0021X	5
2	II 2D Ex mb IIIC T...°C		6
3	Nennspannung 230/400V	Heizleiter	7
4	Betriebsspannung V	Fertigungs Nr.	8
	Nennstrom A		9
			10

1-	Type of ignition protection	6-	Supervisory agency
2-	Nominal voltage	7-	Type designation
3-	Operating voltage	8-	Inspection body / EU - type examination certificate
4-	Nominal current	9-	Heat conductor
5-	Ex marking	10-	Serial number