

[1] **EU-Type-Examination Certificate**

[2] Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere – **Directive 2014/34/EU**



[3] **EU-Type-Examination Certificate**

**PTZ 16 ATEX 0021 X**

Rev. 0

[4] **Applicant:** Erich Ott GmbH & Co. KG

[5] **Address:** Rüdigerstrasse 15  
D-65189 Wiesbaden  
**Germany**

[6] **Equipment:** Cable connectors Ex S GH ALAT, Ex S GHT ALAT, Ex S GHP ALAT and Ex S GHL ALAT

[7] This Equipment and any acceptable variation thereto are specified in the annex to this certificate and the documents referred to.

[8] Primara Test- und Zertifizier GmbH, Notified Body No. 2572 in accordance with the Council Directive, dated 26th February 2014 (2014/34/EG), certifies that this equipment has been found to comply with the Essential Health and Safety Requirements related to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the directive. The examination and test results are recorded in the confidential report ZELM Ex 12813281087.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with to following standards:  
**EN 60079-0:2012+A11:2013**                      **EN 60079-7:2015**                      **EN 60079-18:2015**

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

[11] This EU-Type-Examination Certificate relates only to the design, examination and tests of specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by the certificate.

[12] The marking of the equipment shall include the following:



II 2 G Ex eb mb IIC T1-T6  
II 2 D Ex mb IIIC T...°C

Kaufbeuren, 2017-04-04

**Andreas Aufmuth**  
Certification body

**Horst Haug**  
ATEX department

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EU-type-examination Certificates without signation and stamp shall not be valid.  
EU-type-examination Certificates may only be reproduced in entirety and without change.  
Extracts or alternations are subject to the Primara Test- und Zertifizier- GmbH.  
This document is internally administrated under 16PP345.

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**[13] Annex**

**[14] EU-Type-Examination Certificate PTZ 16 ATEX 0021 X**

**[15] Description of the equipment:**

The Cable Connectors are used in combination with the associated heating cables to set up electrical heating systems in hazardous location areas.

The max. surface temperature depends on the corresponding heating cable.

**[16] Technical data:**

Max. power dissipation per meter of the heating conductor:

Casting resin armature (GH): 22W/m (at +40°C ambient temperature)

(GHT): 15W/m (at +40°C ambient temperature)

Supply voltage: 230V AC or DC

Input current: ≤ 18A

This cable connector is intended to be used with mineral isolated (type GH) as well as synthetic isolated (type GHT) co-axial resistive-heating conductors of diameter 3,0 – 5,8mm.

Casting resin armature (GHP): 22W/m (at +40°C ambient temperature)

Supply voltage: 230V AC or DC

Input current: ≤ 18A

This cable connector is intended to be used with self-regulating parallel-heating-band (type GHP) and limited by max. 70°C surface temperature, only.

Casting resin armature (GHL): 80W/m (at +40°C ambient temperature)

Supply voltage: 230V AC or DC

Input current: ≤ 32A

This cable connector is intended to be used with mineral isolated heating conductors of min. 0,37mm diameter.

Ingress protection: IP 65 for all types

The max. power per meter heating conductor is depending on the ambient temperature range. For the respective temperature class, this is according to the following table:

Ambient temperature range	max. power per meter heating conductor	
	T3 or T180°C (dust)	T4 or T130°C (dust)
-40°C to +40°C	80 W/m	45 W/m
-40°C to +60°C	65 W/m	30 W/m
-40°C to +80°C	50 W/m	20 W/m

**[17] Test report no.:**

ZELM Ex 12813281087

**[18] Special conditions:**

1. The instruction manual has to be considered, especially concerning the relevant maximum temperatures corresponding to the specific versions.
2. The temperature classification results depending on the maximum supplied electrical power, the conditions of installation and the relevant ambient and operational conditions. For standard operations the conventions are made in accordance to the instructions of the manufacturer under consideration of the conventions of the instruction manual. A phase failure in three-phase supply systems has to be considered.
3. To get constant product temperatures the heating conductors require a temperature controller. To meet the permitted temperature limit an additional temperature limiter is needed. The equipment's have to be suitable for the conditions of use.
4. The combination of the cable connector and the associated heating cable with separate EU-type-examination Certificate is committed by the manufacturer in accordance to this EU-type-examination Certificate and is not allowed to be modified.
5. An overcurrent protection has to be installed to each heating system. Also earth-faults have to be protected.
6. A dielectric strength test is to be carried out before commissioning.

**[19] Essential Health and Safety Requirements:**

Covered by the standards.