



EC-TYPE EXAMINATION CERTIFICATE

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**Component Intended for use on/in an Equipment or Protective System
Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

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EC-Type Examination Certificate Number : **BAS01ATEX2274U**

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Component: **TYPE PET5 PILLAR EARTH TERMINAL**

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Manufacturer: **HAWKE CABLE GLANDS LTD**

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Address: **Ashton-under-Lyne, Lancashire, OL7 0NA**

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This Component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

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The Electrical Equipment Certification Service, notified body number 600 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report N°

01(C)0718 dated 15 August 2001

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Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014: 1997 + Amds 1 & 2

EN 50019: 2000

except in respect of those requirements listed at item 18 of the Schedule.

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The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

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This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

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The marking of the component shall include the following:-

 **II 2 G**

EEx e II

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File No: **EECS 0500/03/061**

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



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I M CLEARE
DIRECTOR
31 August 2001



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Schedule

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Description of Component

The Type PET5 Pillar Earth Terminal is made of nickel plated brass. The threaded terminal pillar has a slot to receive conductors. The conductors are secured by a threaded terminal cap, which is screwed onto the top of the pillar. The cap has a screwdriver slot on top and a knurl on its outer diameter.

Inside the terminal cap cavity is a pressure bar which can slide up and down the slot in the pillar as the terminal cap is rotated. A pressure bar spindle sits above the pressure bar. It has a flange at its top, and is secured at the top of the cavity by a self locking ring under its flange, which locks against the cavity wall. It also contributes to clamping the assembly of parts inside the cavity. The pressure bar spindle passes down through the top of the pressure bar, and the end of the spindle is swaged over. This completes the securing of the assembly of parts inside the cavity and also enables the pressure bar to slide up and down the spindle. The pressure bar also has a flange at the top. A helical compression spring is positioned between the top of this flange and the underside of the self locking ring.

When conductors are connected to the terminal they are held in the slot under the pressure bar, with the spring fully compressed, which locks the connection.

The lower portion of the slotted pillar has an M5 x 8mm long stud for mounting the earth terminal onto a metal base or insert.

Maximum Number of Conductors of The Same Size Connected to each Terminal

Conductor Size (mm ²)	Maximum No. of Conductors
10	2
6	3
4	4
smaller conductors $\geq 0.5\text{mm}^2$	4

Conductors to be either all solid or all stranded.

Alternatively the following **PAIRS** of conductor combinations may be fitted:

1.5mm ² solid	1.5mm ² solid or 2.5mm ² strd or 4mm ² strd or 6mm ² strd or 10mm ² strd
1.5mm ² stranded	1.5mm ² strd or 2.5mm ² strd or 4mm ² strd or 6mm ² strd or 10mm ² strd
2.5mm ² solid	2.5mm ² solid or 4mm ² solid or 6mm ² strd or 10mm ² strd
2.5mm ² stranded	2.5mm ² strd or 4mm ² strd or 6mm ² strd or 10mm ² strd
4mm ² stranded	4mm ² strd or 6mm ² strd or 10mm ² strd
6mm ² stranded	6mm ² strd or 10mm ² strd
10mm ² stranded	10mm ² strd

Alternatively the following **THREE** conductors may be fitted in one terminal:

Two solid 2.5mm² conductors and one 6mm² stranded conductor.



13 **Schedule**

14 **EC-TYPE EXAMINATION CERTIFICATE No. BAS01ATEX2274U**

16. **Report No.**

01(C)0718

17 **Schedule of Limitations**

1. Leads connected to the earth terminal shall have insulation extending to within 3mm of the terminal throat and the bared end of each lead shall not extend beyond the other side of the slot.
2. The terminal cap of each earth terminal, used or unused, shall be tightened down.
3. Conductors of different sizes shall not be inserted into the same earth terminal except for the specific combinations listed in the certificate schedule.
4. When mounted on a metal base or insert a steel lock washer must be positioned on the earth terminal mounting stud in between the earth terminal and the metal base/insert.
5. After the earth terminal is fitted the creepage and clearance requirements of EN 50019 shall be maintained.

18 **Essential Health and Safety Requirements**

None that are not covered by assessment against EN 50014: 1997, EN 50019: 2000 and EN 50281-1-1: 1998.

19. **DRAWINGS**

Number	Issue	Date	Description
D2581	A	12/7/01	General arrangement
D2582	A	12/7/01	Body details
* D2576	A	4/7/01	Slotted nut
* D2577	A	5/7/01	Pressure bar spindle
* D2578	A	5/7/01	Pressure bar
* D2579	A	5/7/01	Spring

* These drawings are common to and held with certificate BAS01ATEX2275U on file EECS 0500/03/062

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BASEEFA List Keywords

2TERMINA