IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx BAS 09.0088X	Issue No: 2	Certificate history:
Status:	Current	Page 1 of 4	Issue No. 2 (2013-12-09) Issue No. 1 (2010-07-02) Issue No. 0 (2009-08-28)
Date of Issue:	2013-12-09		

Applicant: **ABTECH Limited**
5 Sanderson Street
Sheffield
S9 2UA
United Kingdom

Electrical Apparatus: **AAG XXX Range of Cable Glands**
Optional accessory:

Type of Protection: **Flameproof, Increased Safety and Dust Protection by Enclosure**

Marking: **Ex d IIC**
Ex e II
Ex tD A21 IP66/67 (-60°C ≤ ta ≤ +100°C)

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair

Position: General Manager

Signature:
(for printed version)

Date: 9-12-13

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by.

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom

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Manufacturer: **ABTECH Limited**
5 Sanderson Street
Sheffield
S9 2UA
United Kingdom

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2004 Edition:4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2003 Edition: 5	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
IEC 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
IEC 61241-0 : 2004 Edition:1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 Edition:1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

GB/BAS/ExTR09.0126/00 GB/BAS/ExTR10.0149/00 GB/BAS/ExTR13.0161/00

Quality Assessment Report:

GB/SIR/QAR06.0046/05

IECEx Certificate of Conformity

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The AAG XXX RANGE OF CABLE GLANDS

The AAG Range of Cable Glands is intended for use with an effectively filled and circular, armoured or basket weave armoured, or braided (screened) cable and comprises the following components the metal parts of which can be manufactured in brass and may be nickel plated to suit the application

See annex for full description.

CONDITIONS OF CERTIFICATION: YES as shown below:

1.These glands are suitable for use within an operating temperature range of -60^{o}C to +80^{o}C.

2. When the gland is used for increased safety or dust protection, the entry thread shall be suitably sealed, in accordance with IEC 60079-14, to maintain the ingress protection rating of the associated enclosure

3. Glands for use with conduit, unarmoured or braided cables are only suitable for fixed installations, the cable for which must be effectively clamped to prevent pulling and twisting.

4. In all installations both clamping rings must be fitted. When used with armoured or braided cable the unused ring must be installed behind the used ring.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 2.1

Alternative entry adaptor and middle nut with an external seal to form a AAG-XXXX-D range of cable glands.

Variation 2.2

The metallic parts of the cable gland may be manufactured in aluminium alloy A6061-T6.

Variation 2.3

To allow the introduction of an alternative inner seal range together with an increase in the armour clamping thickness of the UW and W clamping rings and relevant minor dimensional changes to the UX and X clamping rings and spigots to accommodate this change for glands sizes 2016, 20a 20b 20c and 32.

ExTR: GB/BAS/ExTR13.0161/00	File Reference: 13/0306

Annex:

IECEx BAS 09.0088X ANNEX.pdf

Baseefa
Rockhead Business Park
Staden lane, Buxton, Derbyshire
SK17 9RZ
United Kingdom

ANNEX to IECEx BAS 09.0088X Issue No. 0 Date: 2009/08/28

The AAG XXX RANGE OF CABLE GLANDS

The AAG Range of Cable Gland is intended for use with an effectively filled and circular, armoured or basket weave armoured, or braided (screened) cable and comprises the following components the metal parts of which can be manufactured in brass and may be nickel plated to suit the application:-

a. An entry component, in the size range (M20 to M75)

b. A displacement sealing ring

c. A combined compression spigot and armour clamping cone

d. An armour clamping ring for steel wire armour

e. An armour clamping ring for basket weave steel wire armour or braided (screened cable)

f. A middle nut

g. An outer seal assembly (sleeve seal and support ring)

h. A back nut

The XXX is used to define the size of gland e.g 20a or 25 etc.

Variation 0.1

Substitution of the M20 to M75 entry component with an entry component having an NPT equivalent in the range 1/2"NPT to 3"NPT.

Variation 0.2

Substitution of the M20 to M50 entry component with an entry having a Pg equivalent in the range Pg13.5 to Pg 42.

Variation 0.3

To allow the introduction of additional sizes of glands AAG-20/16, AAG-20b, AAG-80, AAG-90 and AAG-100 to the range.