



# 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](http://www.iecex.com)

Certificate No.: IECEx SIR 06.0078X issue No.:1

Status: **Current**

Certificate history:  
Issue No. 1 (2007-10-8)  
Issue No. 0 (2006-9-27)

Date of Issue: **2007-10-08** Page 1 of 4

Applicant: **R. STAHL Schaltgeräte GmbH**  
Am Bahnhof 30  
74638 Waldenburg (Württ)  
Germany

Electrical Apparatus: **8163/2-\*\*\*\*-C\*\*\*/\*-\*\* Type Range of Cable Glands**  
*Optional accessory:*

Type of Protection: **Increased Safety and Dust**

Marking: **Ex e II**  
**Ex tD A21 IP66**

*Approved for issue on behalf of the IECEx  
Certification Body:*

D R Stubbings BA MIET

*Position:*

Certification Manager

*Signature:  
(for printed version)*

\_\_\_\_\_  
\_\_\_\_\_

*Date:*

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](http://www.iecex.com).

Certificate issued by:

**SIRA Certification Service**  
South Hill  
Chislehurst  
Kent BR7 5EH  
United Kingdom

**sira**  
CERTIFICATION



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Manufacturer: **R. STAHL Schaltgeräte GmbH**  
Am Bahnhof 30  
74638 Waldenburg (Württ)  
Germany

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:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-7 : 2001</b> Edition: 3	Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e'
<b>IEC 61241-0 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> 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/SIR/ExTR06.0086/00](#)  
[GB/SIR/ExTR07.0084/00](#)

Quality Assessment Report:  
[DE/PTB/QAR06.0001/00](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The 8163/2-\*\*\*\*-C\*\*\*/-\*\* type ranges of cable glands consist of a male-threaded front entry component, which is intended to screw into an entry point of its associated enclosure in accordance with relevant codes of practice. The front entry component to main body mating thread may be fitted with an optional 'O' ring seal to provide increased ingress protection. Clamping of the armoured or braid is effected by a combination of the front entry component, main body and the different optional armour cone and armour sleeve combinations being fastened together. An outer seal nut, containing an Evoprene Super G621 elastomeric sealing ring and a Nylon 6 ferrule, threads onto the main body and effects environmental sealing onto the cable outer sheath.

Refer to the attached Annexe for additional information relating to gland sizes

### CONDITIONS OF CERTIFICATION: YES as shown below:

The 8163/2-\*\*\*\*-C\*\*\*/-\*\* type cable glands shall only be used where the temperature, at the point of entry, is between -60°C to +130°C.

All body components of the 8163/2-\*\*\*\*-C\*\*\*/-\*\* type cable glands are to be fully tightened using all available threads of engagement until against their adjoining component part shoulder to maintain Ingress protection rating IP66.

The 8163/2-\*\*\*\*-C\*\*\*/-\*\* type cable glands used for terminating braided cables are only suitable for fixed installations. Cables must be effectively clamped to prevent pulling or twisting.

The 8163/2-\*\*\*\*-C\*\*\*/-\*\* type of cable gland entry component threads may need additional sealing to maintain the ingress protection rating as applicable to the associated equipment in which it will be attached.



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

Original	Dated 2006-09-27
Issue 1	Dated 2007-10-05
1	The introduction of an alternative, outer sealing arrangement; the compression nut length and consequently body length are reduced, in addition, the internal, tapered ferrule is replaced with a flat ferrule.
2	The introduction of Ex tD coding. The recognition of alternative armour cone diameters The use of the C** range of glands with pliable wire armour cables

**Annexe to:** IECEx SIR 06.0078X Issue 1  
**Applicant:** R.STAHL Schaltgeräte GmbH  
**Apparatus:** 8163/2-\*\*\*\*-C\*\*\*/\*-\* Type  
Range of Cable Glands



Additional Information

Gland size	Entry thread	Cable inner sheath Ø	SWA		STA, strip armour & wire braid		Outer seal sheath range Ø	
			Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)
20s/16	M20 x 1.5	8.7	0.9	1.00	0	1.0	6.1	11.5
20s	M20 x 1.5	11.7	0.9	1.25	0	1.0	9.5	15.9
20	M20 x 1.5	14.0	0.9	1.25	0	1.0	12.5	20.9
25s	M25 x 1.5	20.0	1.25	1.6	0	1.0	14.0	22.0
25	M25 x 1.5	20.0	1.25	1.6	0	1.0	18.2	26.2
32	M32 x 1.5	26.3	1.6	2.0	0	1.0	23.7	33.9
40	M40 x 1.5	32.2	1.6	2.0	0	1.0	27.9	40.4
50s	M50 x 1.5	38.2	2.0	2.5	0	1.0	35.2	46.7
50	M50 x 1.5	44.1	2.0	2.5	0	1.0	40.4	53.1
63s	M63 x 1.5	50.0	2.0	2.5	0	1.0	45.6	59.4
63	M63 x 1.5	56.0	2.0	2.5	0	1.0	54.6	65.9
75s	M75 x 1.5	62.0	2.0	2.5	0	1.0	59.0	72.1
75	M75 x 1.5	68.0	2.0	2.5	0	1.0	66.7	78.5
90	M90 x 2.0	80.0	3.15	3.15	0	1.6	76.2	90.4
100	M100 x 2.0	91.0	3.15	4.0	0	1.6	86.1	101.5
115	M115 x 2.0	98.0	3.15	4.0	-	-	101.5	110.3
130	M130 x 2.0	115.0	3.15	4.0	-	-	114.2	123.3

**Date:** 05 October 2007

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**Form 9530 Issue 1**

**Sira Certification Service**  
Rake Lane, Eccleston, Chester, CH4 9JN, England  
Tel: +44 (0) 1244 670900  
Fax: +44 (0) 1244 681330  
Email: [info@siracertification.com](mailto:info@siracertification.com)  
Web: [www.siracertification.com](http://www.siracertification.com)