



Peppers Cable Glands Limited
Stanhope Road - Camberley
Surrey GU15 3BT - UK

Certificate of Conformity

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Delivery Address: Heat Trace Ltd Meres Edge Chester Road Helsby Frodsham WA6 0DJ	Despatch Note No: SDSN70869 Peppers Order No: SORD77520 Despatch Date: 27/Mar/2015 Account No: 01/HEATTR Your VAT No: No Your Order No: 43804 Net Weight (kgs): 5.96 Gross Weight (kgs): 6.40 Dims / Vol (cms / m³): 32-22-13
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Item	Description	Quantity
1	A8BF/NP/20/M20 EXD9264/15 - Exd-Exe-Ex nR brass gland for flat cable-Nickel Plated	50.00
2	ACBLN/NP/M20 EXD9264/15 - M20 x 1.5mm Pitch Nickel Plated Brass Locknut	50.00

By issue of this certificate it is certified that, the whole of the supplies detailed hereon have been inspected, tested and, unless otherwise stated above, conform in all respects with the requirements of the contract.

Where relevant Peppers use a standard range of materials and finishes that are in accordance with the following specification:-

BS EN 573-3:2009 Aluminium and aluminium alloys. Chemical composition and form of wrought products. Chemical composition and form of products (IRR (AA) 6082 IRR (AA) 6262)
BS EN 12164:2011 Copper and copper alloys. Rod for free machining purposes (ASTM B455 - C38500)
BS EN 12165:2011 Copper and copper alloys. Wrought and unwrought forging stock (ASTM B124 / B124M - C37800)
BS EN 12168:2011 Copper and copper alloys. Hollow rod for free machining purposes (ASTM B455 - C38500)
BS EN 1982:2008 Copper and copper alloys. Ingots and castings (ASTM B30 - 12)
BS EN 10087:1999 Free cutting steels. Technical delivery conditions for semi-finished products, hot rolled bars and rods (AISI 1213)
BS EN 10088-3:2005 Stainless steels. Technical delivery conditions for semi-finished products, bars, rods, wire, sections and bright products of corrosion resisting steels for general purposes (AISI 316, AISI 316L, AISI 304)
BS EN ISO 4526:2004 Metallic coatings. Electroplated coatings of nickel for engineering purposes (ASTM B605 - 95a (2009))
BS EN ISO 4527:2003 Metallic coatings. Autocatalytic (Electroless) nickel-phosphorus alloy coatings. Specification and test methods (ASTM B733 - 04 (2009))
BS 1872:1984 Specification for electroplated coatings of tin (ASTM B545 - 97(2009))
BS ISO 15726:2009 Metallic coatings and other inorganic coatings. Electrodeposited zinc alloys with nickel, cobalt or iron (ASTM B633 - 11 (2011))

Peppers' quality management system is registered and certified by BSI to the requirements of BS EN ISO 9001:2008 Certificate No: Q 11364 and takes in to consideration the requirements of EN ISO/IEC 80079-34:2011 Part 34.

Authorised Signature:

Malcolm Perry
Quality Manager
PEPPERS CABLE GLANDS LIMITED



Registered Office: Summerhill Works, Powell Street, Birmingham B1 3DH
Registered in England No: 2720654



Currie & Warner Group



EC DECLARATION OF CONFORMITY

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Document No. **ATX/SDC**
 Issue: **7**
 Supplier: **Peppers Cable Glands Limited**
 Address: **Stanhope Road, Camberley, Surrey GU15 3BT, UK**

Peppers Cable Glands Limited declares that their range of Cable Glands and Cable Gland Accessory Products detailed below have been satisfactorily examined and awarded EC-Type / Type examination certificates as required by EC Directive 94/9/EC. Where applicable, they fulfil the provisions appropriate to equipment Group I, Category M2 and/or Group II, Category 2 and/or Category 3 and are suitable for the intended uses as described in the individual certificates and when used according to the essential instructions supplied by the manufacturer. Where a listed compliance standard is of a later issue than that detailed in the EC Type Examination Certificate an assessment has been conducted and found that there are no changes that will affect the compliance of the product.

Hazardous Area Products			
Product Type	EC Type Examination Certificate No.	Type Examination Certificate No.	Compliance Standards
CR*** / CR-D**	BAS 01ATEX2271X	SIRA 09ATEX1221X	EN 60079-0: 2012; EN 60079-1: 2007; EN 60079-7: 2007; EN 60079-15: 2010; EN 60079-31: 2009
E****F* / D****F	SIRA 01ATEX1271X	SIRA 09ATEX1221X	
A*L** / A*LDS / A*RDC** / A*RDF** / A*RDM** / A*LC*** / A*RC***	SIRA 01ATEX1272X	SIRA 09ATEX1221X	
A8*F, A8C**F, D8*F, E8X*F	SIRA 01ATEX1270X	SIRA 09ATEX1221X	
CR-O***	BAS 01ATEX2271X	-	EN 60079-0: 2012; EN 60079-7: 2007; EN 60079-31: 2009
C****E*	SIRA 01ATEX1271X	-	
CR-C***, CR-U***, CR-X***, CR-S***	SIRA 03ATEX1479X	SIRA 09ATEX4124X	EN 60079-0: 2012; EN 60079-1: 2007; EN 60079-7: 2007; EN 60079-15: 2010; EN 60079-31: 2009
UL-C**, UL-U*, UL-X*	SIRA 09ATEX1086X	SIRA 09ATEX4124X	EN 60079-0: 2012; EN 60079-1: 2007; EN 60079-7: 2007; EN 60079-15: 2010; EN 60079-31: 2009
AR/ARFF/ARMM Series	SIRA 09ATEX1322X	SIRA 09ATEX4323X	EN 60079-0: 2012; EN 60079-1: 2007; EN 60079-7: 2007; EN 60079-15: 2005; EN 60079-31: 2009
ARMR /ARFR Series	SIRA 10ATEX1132U	SIRA 10ATEX4133U	EN 60079-0: 2012; EN 60079-1: 2007; EN 60079-7: 2007; EN 60079-15: 2005; EN 60079-31: 2009
SPA/SPB Series	SIRA 09ATEX1320X	-	EN 60079-0: 2012; EN 60079-1: 2007; EN 60079-7: 2007; EN 60079-31: 2009
SPHH/SPMH Series	SIRA 09ATEX1320X	SIRA 09ATEX4323X	EN 60079-0: 2012; EN 60079-1: 2007; EN 60079-7: 2007; EN 60079-15: 2005; EN 60079-31: 2009
ACDP Series	SIRA 09ATEX3321U	-	EN 60079-0: 2012; EN 60079-7: 2007; EN 60079-31: 2009

Industrial Products	
Product Type	Compliant Standards
C****	BS6121-1: 1989, EN 50262: 1999
E****, D****	BS6121-1: 1989, EN 50262: 1999
A*L**	BS6121-1: 1989, EN 50262: 1999

The production quality assurance system has been assessed and found to be compliant with Annex VII of Directive 94/9/EC by: - Sira Certification Service, Rake Lane, Eccleston, Chester CH4 9JN UK - Notified Body No. 0518

Camberley, 24 April 2014

R Ward
 Authorised Person
 Peppers Cable Glands Limited



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Installation Guidance

Point	Advice
1	EN/IEC 60079-10 EN/IEC 60079-14 National Electrical Code (NEC 500 – 505) Canadian Electrical Code (CSA C22.1)
2	Installation should only be carried out by a competent electrician, skilled in cable gland installation.
3	NO INSTALLATION SHOULD BE CARRIED OUT UNDER LIVE CONDITIONS.
4	Threaded entries: the product can be installed directly into threaded entries. Threaded entries should comply with clause 5.3 of IEC/EN 60079-1 and have a lead-in chamfer to allow for full engagement of the threads. For Ex d applications a minimum of 5 fully engaged parallel threads is required. Parallel entry threads will maintain an IP rating of IP64. A sealing washer should be used to maintain all IP ratings greater than IP64. Any thread sealant used should be non-hardening.
5	Clearance holes: these may be 0.1 to 0.7mm larger than the major diameter of the male thread. The product should be secured with a lock nut and the threads tightened to ensure the cable gland is secure. A sealing washer should be used to maintain IP ratings. A serrated washer should be used for additional installation protection.
6	To maintain the Ingress Protection rating of the product, the entry hole must be perpendicular to the surface of the enclosure. The surface should be sufficiently flat and rigid to make the IP joint. The surface must be clean and dry. It is the users/installers responsibility to ensure that the interface between the enclosure and cable gland is suitably sealed for the required application.
7	Whilst Peppers products with tapered threads, when installed into a threaded entry, have been tested to maintain IP66 without any additional sealant, due to the differing gauging tolerances associated with the use of tapered threads it is recommended to use a non-hardening thread sealant if an IP rating higher than IP64 is required.
8	Once installed do not dismantle except for routine inspection. An inspection should be conducted as per IEC/EN 60079-17. After inspection the gland should be re-assembled as instructed, ensuring the back nut/conduit nut is correctly tightened to ensure the cable is secure.

Approvals and Certification

Approval	Certificate Number	Protection Concept / Type
ATEX	Sira 01ATEX1270X	Ex II 1D 2G Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da
	Sira 09ATEX1221X	Ex II 3G Ex nR IIC Gc
IECEX	IECEX SIR 05.0020X	Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da
CSA - US	2627370	Class I, Division 2, Groups ABCD / Class II, Division 1, Groups EFG / Class III; Type 4X Class I Zone 1 AEx e IIC Gb / Class II, Zone 20 AEx ta IIIC Da IP66 IP68
GOST-R	POCC GB.Г506.В01316	Ex d IICU / Ex e IIU / Ex nR IIU
EAC	RU C-GB. Г506.В.00098	Ex d IICU / Ex e IIU / Ex nR IIU
UKRAINE	UA.TR.047.C.0408-13	Ex d IIC X / Ex e II X
INMETRO	NCC 13.2187 X	Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da
NEPSI	GYJ111310X	Ex d IIC / Ex e II (A8** only)

Interpretation of Markings. Markings on the outside of this gland carry the following meanings:

Cable Gland Type & Size A8-a-b-ccc-ddd-nn

a =	Main component material B = brass S = stainless steel	ddd =	Entry thread type and size
b =	Protection Concept F = Exd E = Ex e	nn =	Year of manufacture
ccc =	Gland size		

Cable Gland Type & Size A8C-a-b-c-ddd-eee-fff-nn

a =	Connection Thread F = Female Connection Thread M = Male Connection Thread	eee =	Gland size
b =	Main component material B = brass S = stainless steel	fff =	Entry thread type and size
c =	Protection Concept F = Exd E = Ex e	nn =	Year of manufacture
ddd =	Connection thread type and size		

Special Conditions for Safe Use

- The A8** and A8C*** ranges of cable glands shall not be used in enclosures where the temperature, at the point of contact, is outside the range of -60°C to +180°C.
- The A8** and A8C*** ranges of cable glands shall only be used for fixed installations, in addition the cables must be effectively clamped to prevent pulling or twisting.
- The A8** and A8C*** ranges of cable glands, when installed in accordance with the manufacturers instructions and with an appropriate enclosure on which they are fitted, are capable of providing an ingress protection of IP66 and IP68 (50 metres 7 days).
- Where glands without sealing rings are installed in protection by enclosure (Ex t) equipment for use in explosive dust atmospheres, they shall only be fitted into enclosures offering a minimum of 5 full threads, in accordance with EN 60079-31: 2009 clause 5.1.1.

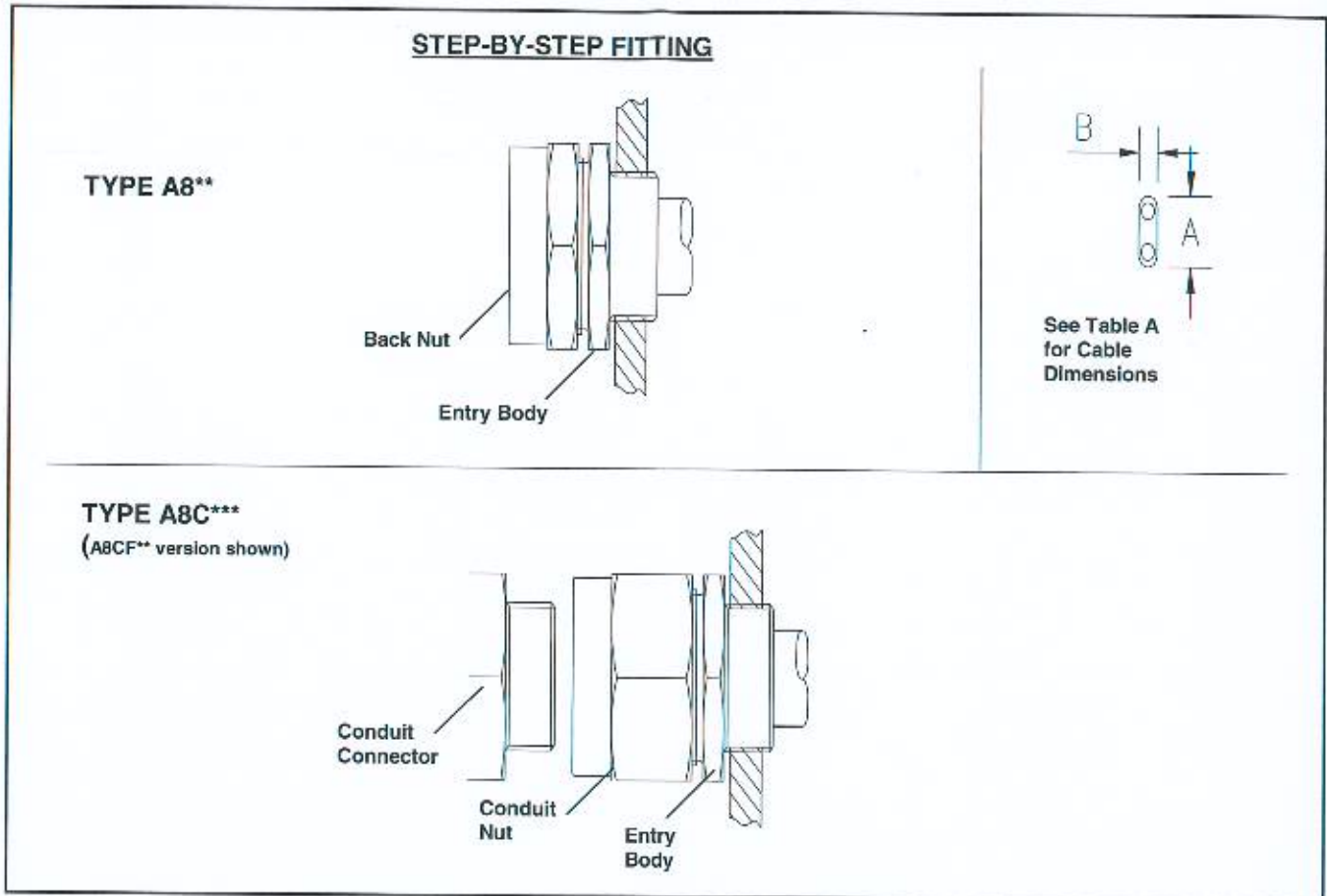
A8/A8C*** Cable Glands for flat cable - ASSEMBLY INSTRUCTIONS**

Brief Description

The Peppers A8**/A8C*** range of cable glands are for use in the appropriate Hazardous Areas with flat/heat trace cable. These cable glands give environmental protection to IP66/67/68 (50 metres for 7 days). The A8C*** provides a connecting thread for mating rigid conduit or flexible conduit fittings.

Warning

Please read these instructions carefully. These products should not be used in applications except as detailed here or in our datasheets, unless confirmed in writing by Peppers. Peppers take no responsibility for any damage, injury or other consequential loss caused where products are not installed or used according to these instructions. This leaflet is not intended to advise on the selection of product. Further guidance can be found in the standards listed overleaf or the prevailing code of practice.



STEP-BY-STEP FITTING INSTRUCTIONS

TYPE A8 / A8C*****

- 1 Fit the complete cable gland to the enclosure including any sealing washers and accessories if required. Hand-tighten, then suitably secure the entry body to the enclosure with a wrench.
- 2 Prepare cable end as required. Insert cable through the cable gland.
- 3 Position the cable correctly within the gland. The seal must grip the outer jacket of the cable when the cable gland is tightened.
- 4 Tighten Back Nut (Conduit Nut on A8C***) to Entry Body. Ensure the seal makes full contact with cable sheath and then tighten the Back Nut by additional 1 turn.
- 5 For A8C*** versions only. Secure the Conduit Nut with a wrench, to prevent further tightening, and fasten the mating conduit/fitting to the Conduit Nut to complete the installation.

Table A - Cable Size Acceptance Data (mm)

Gland Size	A8** / A8C*** Outer Sheath Data			
	MIN		MAX	
	A	B	A	B
20S	6.3	4.0	11.7	7.0
20	10.3	5.6	13.5	9.0
20R	8.1	5.8	13.5	6.2