

IECEx Certificate of Conformity

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	IEC Certification System	ROTECHNICAL COMMISSION for Explosive Atmospheres CEx Scheme visit www.iecex.com	
Certificate No.:	IECEx CML 19.0106X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2019-10-10		
Applicant:	Peppers Cable Glands Limited Stanhope Road, Camberley, Surrey, GU15 3B United Kingdom	т	
Equipment:	Type CR-***, CR-D** & CR-O*** Cable Gland	ls	
Optional accessory:			
Type of Protection:	Flameproof, Increased Safety, Dust, Restric	cted Breathing	
Marking:	CR-0***		
	Ex eb IIC Gb		
	Ex ta IIIC Da		
	CR-*** and CR-D**		
	Ex db IIC Gb		
	Ex eb IIC Gb		
	Ex ta IIIC Da		
	Ex nR IIC Gc		
Approved for issue of Certification Body:	n behalf of the IECEx	A C Smith	
Position:		Technical Operations Director	
Signature: (for printed version)			
Date: (for printed version)			
2. This certificate is not	chedule may only be reproduced in full. transferable and remains the property of the issuing body enticity of this certificate may be verified by visiting www.ie		
Certificate issued	by:		

Eurofins E&E CML Limited Unit 1, Newport Business Park New Port Road Ellesmere Port, CH65 4LZ **United Kingdom**







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Certificate No.:	IECEx CML 19.0106X	Page 2 of 3									
Date of issue:	2019-10-10	Issue No: 0									
Manufacturer:	Peppers Cable Glands Limited Stanhope Road, Camberley, Surrey, GU15 3BT United Kingdom										
Manufacturing locations:											
IEC Standard list belo found to comply with	ed as verification that a sample(s), representative of production, wa we and that the manufacturer's quality system, relating to the Ex pro the IECEx Quality system requirements.This certificate is granted s Operational Documents as amended	oducts covered by this certificate, was assessed and									
IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirement	nts									
IEC 60079-1:2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flamepr	oof enclosures "d"									
IEC 60079-15:2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type o	f protection "n"									
IEC 60079-31:2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection	ion by enclosure "t"									
IEC 60079-7:2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increase	ed safety "e"									

This Certificate **does not** indicate compliance with 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/CML/ExTR19.0133/00

Quality Assessment Report:

GB/CML/QAR19.0022/00



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The type CR-***, CR-D** and CR-O*** ranges of cable glands may be supplied in gland size 16 to 100 with entry thread sizes M20 to M100 or with the equivalent size NPT, NPSM, BSPP, BSPT, PG or ET entry thread forms.

Refer to Certification Annex for full equipment description.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1. Glands fitted with neoprene sealing rings (black) shall not be used in enclosures where the temperature, at the point of mounting, is outside the range of -35°C to +90°C.
- Glands fitted with silicone sealing rings (white or red) shall not be used in enclosures where the temperature, at the point of mounting, is outside the range of -60°C to +180°C.
- 3. When the gland is used with increased safety and/or dust protected equipment, the entry thread shall be suitably sealed to maintain the ingress protection rating of the associated enclosure.
- 4. If the CR-***, CR-D** and CR-O*** types of cable glands only grip the cable sheath of the cable and do not clamp the cable armour or if they are used to terminate unarmoured, braided or screened cables, then they shall only be used for fixed installations, hence, the cables shall be effectively clamped to prevent pulling or twisting.
- The CR-*** and CR-D** cable glands, when installed in accordance with the manufacturer's instructions and with an appropriate enclosure on which they are fixed, are capable of providing an ingress protection of IP66 and IP68 (50 metres 7 days).
- 6. The CR-O*** range of cable glands, when installed in accordance with the manufacturer's instructions and with an appropriate enclosure on which they are fixed, are capable of providing an ingress protection of IP66.
- 7. The threaded entry component threads without interface O-ring seals installed in an explosive dust atmosphere, within threaded entries, shall only be fitted into enclosures that have either:
- parallel entries that will ensure that a minimum of 5 full threads of contact will be maintained, this is in accordance with clause 5.1.2 of EN 60079-31:2014.
- tapered entries that will ensure that a minimum of 3 ½ full threads of contact will be maintained, this is in accordance with clause 5.1.2 of EN 60079-31:2014.

Annex:

Annex IECEx CML 19.0106X Issue 0_1.pdf

Annexe to:	IECEx CML 19.0106X Issue 0
Applicant:	Peppers Cable Glands Limited
Apparatus:	Type CR-***, CR-D** & CR-O*** Cable Glands



The type CR-***, CR-D** and CR-O*** ranges of cable glands may be supplied in gland size 16 to 100 with entry thread sizes M20 to M100 or with the equivalent size NPT, NPSM, BSPP, BSPT, PG or ET entry thread forms. They are intended for use with effectively filled and circular armoured, unarmoured, braided, tape or screened sheathed cables and compromise the following components: -

a.	An entry component	f.	A tapered clamp ring
b.	An elastomeric inner sealing ring	g.	A middle nut
С.	A metal inner skid washer	h.	An elastomeric outer sealing ring
d.	A compression nut	i.	A nylon outer skid washer
e.	An armour clamping cone	j.	A back nut

Additional assembly options are described by the following designation coding:

Type CR-*** Cable Glands Gland Type:	CR-***				
Available Part No's .:	С	R	*	*	*
			1	В	R
			2	S	
			3		
			4		
Options:	1	Neoprene Se	eals		
	2	Neoprene Se Washer	eals with Leac	Sheath Cable	Continuity
	3	Silicone Sea	ls		
	4	Silicone Sea Washer	ls with Lead S	Sheath Cable C	Continuity
	В	Brass materi	al		
	S	316 Stainles	s Steel materi	al	
	R	Reduced Bo	re option		
e CR-*** Cable Glands:					



T +44 (0) 151 559 1160 E info@cmlex.com





Туре



Gland Size	Standard Entry threads		Inner Sheath		Outer SI	Outer Sheath		d Bore	Armour Dia./Thio	ckness	
										Steel wire & Tape (Universal) or Braid/Screen	
	Metric	NPT	Min	Max	Min	Max	Min	Max	Min	Max	
16	M20	1⁄2"	3.4	8.4	8.4	13.5	6.7	10.3	0.15	1.25	
16H	M20	1⁄2"	3.4	8.4	11.5	16.0	9.4	12.5	0.15	1.25	
20S	M20	1⁄2"	7.2	11.7	11.5	16.0	9.4	12.5	0.15	1.25	
20	M20	1⁄2"	9.4	14.0	15.5	21.1	12.0	17.6	0.15	1.25	
25	M25	³ ⁄4"	13.5	20.0	20.3	27.4	16.8	23.9	0.15	1.6	
32	M32	1"	19.5	26.3	26.7	34.0	23.2	30.5	0.15	2.0	
40	M40	1 ¼"	23.0	32.2	33.0	40.6	28.6	36.2	0.2	2.0	
50S	M50	1 ½"	28.1	38.2	39.4	46.7	34.8	42.4	0.2	2.5	
50H	M50	1 ½"	28.1	38.2	45.7	53.2	41.1	48.5	0.2	2.5	
50	M50	2"	33.1	44.1	45.7	53.2	41.1	48.5	0.3	2.5	
63S	M63	2"	39.2	50.1	52.1	59.5	47.5	54.8	0.3	2.5	
63H	M63	2"	39.2	50.1	58.4	65.8	53.8	61.2	0.3	2.5	
63	M63	2 1⁄2"	46.7	56.0	58.4	65.8	53.8	61.2	0.3	2.5	
75S	M75	2 1⁄2"	52.1	62.0	64.8	72.2	60.2	68.0	0.3	2.5	
75H	M75	2 ½"	52.1	62.0	71.1	78.0	66.5	73.4	0.3	2.5	
75	M75	3"	58.0	68.0	71.1	78.0	66.5	73.4	0.3	2.5	
80	M80	3"	62.2	72.0	77.0	84.0	71.9	79.4	0.45	3.15	
80H	M80	3"	62.2	72.0	79.6	90.0	75.0	85.4	0.45	3.15	
85	M85	3"	69.0	78.0	79.6	90.0	75.0	85.4	0.45	3.15	
90	M90	3 ½"	74.0	84.0	88.0	96.0	82.0	91.4	0.45	3.15	
90H	M90	3 ½"	74.0	84.0	92.0	102.0	87.4	97.4	0.45	3.15	
100	M100	3 ½"	82.0	90.0	92.0	102.0	87.4	97.4	0.45	3.15	
110	M110	4"	92.0	102.0	104.0	117.0	-	-	0.45	3.15	



Type CR-D** Cable Glands

The Type CR-D** Cable Glands are used with armoured, unarmoured, braided or screened sheathed cables. They are formed by removing the outer cap, outer seal and outer skid washer from the Type CR-*** cable glands and fitting an alternative middle cap component, in addition these glands are fitted with an O-ring entry body seal. The Type CR-D** Cable Glands are available with ISO metric entry threads of M20 to M100 (alternative thread forms are available in equivalent sizes) in cable gland sizes 16 through to 100, they can be made from either brass (B) or stainless steel (S).

Gland Type:	CR-D**				
Available Part No's.:	С	R	D	*	*
				1	В
				2	S
				3	
				4	
Options:	1	Neoprene Se	als		
	2	Neoprene Se Washer	eals with Lead	Sheath Cable	Continuity
	3	Silicone Seal	S		
	4	Silicone Seal Washer	s with Lead Sh	eath Cable C	Continuity
	В	Brass materi	al		
	S	316 Stainless	s Steel materia	I	

Type CR-D** Type Cable Glands:

Gland		Standard Entry		ath	Outer Sheath	Armour Dia./T	Armour Dia./Thickness	
Size	threads					Steel wire & Tape (Universal) or Braid/Screen		
	Metric	NPT	Min	Max	Max	Min	Max	
16	M20	1⁄2"	3.4	8.4	16.0	0.15	1.25	
20S	M20	1⁄2"	7.2	11.7	16.0	0.15	1.25	
20	M20	1⁄2"	9.4	14.0	21.1	0.15	1.25	
25	M25	3⁄4"	13.5	20.0	27.5	0.15	1.6	
32	M32	1"	19.5	26.3	34.0	0.15	2.0	
40	M40	1 ¼"	23.0	32.2	40.6	0.2	2.0	



Gland	Standard Entry threads		Inner Shea	ath	Outer Sheath	Armour Dia./T	Armour Dia./Thickness Steel wire & Tape (Universal) or Braid/Screen	
Size								
	Metric	NPT	Min	Max	Max	Min	Max	
50S	M50	1 ½"	28.1	38.2	53.2	0.2	2.5	
50	M50	2"	33.1	44.1	53.2	0.3	2.5	
63S	M63	2"	39.2	50.1	65.8	0.3	2.5	
63	M63	2 1⁄2"	46.7	56.0	65.8	0.3	2.5	
75S	M75	2 1⁄2"	52.1	62.0	78.0	0.3	2.5	
75	M75	3"	58.0	68.0	78.0	0.3	2.5	
80	M80	3"	62.2	72.0	90.0	0.45	3.15	
85	M85	3"	69.0	78.0	90.0	0.45	3.15	
90	M90	3 ½"	74.0	84.0	102.0	0.45	3.15	
100	M100	3 ½"	82.0	90.0	102.0	0.45	3.15	

The Type CR-D** Cable Glands are formed by removing the outer cap, outer seal and outer skid washer from the CR-*** gland and fitting an alternative middle cap component. They are available in the same size, entry thread options and materials as the CR-*** cable gland.

Type CR-O*** Cable Glands

The Type CR-O^{***} Cable Glands are used with armoured, non-lead sheathed cables. They are formed by removing the inner sealing ring and its associated skid washer from the Type CR-^{***} cable glands, in addition these glands are fitted with an O-ring entry body seal. The Type CR-O^{***} Cable Glands are available with ISO metric entry threads of M20 to M100 (alternative thread forms are available in equivalent sizes) in cable gland sizes 16 through to 100, they can be made from either brass (B), stainless steel (S) and fitted with an optional reduced bore outer seal (R).

Gland Type:	CR-0***					
Available Part No's.:	С	R	0	*	*	*
				1	В	R
				3	S	
Options:	1	Neoprene Se	eals			
	3	Silicone Sea	ls			



- B Brass material
- S 316 Stainless Steel material
- R Reduced Bore Option

Type CR-O*** Cal	ble Glands
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Gland	Standard Entry threads		Inner	Outer Sł	neath	Reduced	Bore	Armour Dia.	/Thickness
Size			Sheath Max					Steel wire & Tape (Universal) or Braid/Screen	
	Metric	NPT		Min	Max	Min	Max	Min	Max
16	M20	1⁄2"	11.7	8.4	13.5	6.7	10.3	0.15	1.25
20S	M20	1⁄2"	11.7	11.5	16.0	9.4	12.5	0.15	1.25
20	M20	1⁄2"	14.0	15.5	21.1	12.0	17.6	0.15	1.25
25	M25	³ ⁄4"	20.0	20.3	27.4	16.8	23.9	0.15	1.6
32	M32	1"	26.3	26.7	34.0	23.2	30.5	0.15	2.0
40	M40	1 ¼"	32.2	33.0	40.6	28.6	36.2	0.2	2.0
50S	M50	1 ½"	38.2	39.4	46.7	34.8	42.4	0.2	2.5
50H	M50	1 ½"	44.1	39.4	46.7	34.8	42.4	0.3	2.5
50	M50	2"	44.1	45.7	53.2	41.1	48.5	0.3	2.5
63S	M63	2"	50.1	52.1	59.5	47.5	54.8	0.3	2.5
63H	M63	2"	56.0	52.1	59.5	47.5	54.8	0.3	2.5
63	M63	2 ½"	56.0	58.4	65.8	53.8	61.2	0.3	2.5
75S	M75	2 ½"	62.0	64.8	72.2	60.2	68.0	0.3	2.5
75H	M75	2 ½"	68.0	64.8	72.2	60.2	68.0	0.3	2.5
75	M75	3"	68.0	71.1	78.0	66.5	73.4	0.3	2.5
80	M80	3"	72.0	77.0	84.0	71.9	79.4	0.45	3.15
80H	M80	3"	78.0	79.6	90.0	75.0	85.4	0.45	3.15
85	M85	3"	78.0	79.6	90.0	75.0	85.4	0.45	3.15
90	M90	3 ½"	84.0	88.0	96.0	82.0	91.4	0.45	3.15
90H	M90	3 ½"	90.0	88.0	96.0	82.0	91.4	0.45	3.15



Gland Size	Standard Entry threads		Inner Sheath Max	Outer Sheath		Reduced Bore		Armour Dia./Thickness Steel wire & Tape (Universal) or Braid/Screen	
	Metric	NPT		Min	Max	Min	Max	Min	Max
100	M100	3 ½"	90.0	92.0	102.0	87.4	97.4	0.45	3.15
110	M110	4"	102.0	104.0	117.0	-	-	0.45	3.15

Notes:

BAS01ATEX2271X, Sira 09ATEX1221X and IECEx SIR 07.0099X are superseded by certificates CML 19ATEX1348X, CML 19ATEX4109X and IECEx CML 19.0106X.

The product covered by Issue 0 of this certificate remains identical to that previously covered by BAS01ATEX2271X, Sira 09ATEX1221X and IECEx SIR 07.0099X.

Where BAS01ATEX2271X and/or Sira 09ATEX1221X and/or IECEx SIR 07.0099X is specified in other product certification, or other technical specifications, this certificate reference for the product shall be used in its place; updating of the other product certificate or technical specification is not required.