

Peppers Cable Glands Limited

Stanhope Road, Camberley, Surrey, GU15 3BT United Kingdom
 Telephone: +44 (0) 1276 64232
 Facsimile: +44 (0) 1276 691752
 Email: sales@peppers.co.uk



Barrier Gland:- Type CR-C



Including type No's:

C	R	C	*	*
			B	R
			S	

Croclock CR-C type glands provide a Flameproof EExd compound filled barrier, a seal on the outer sheath, a universal armour clamp for armoured, screened or braided cable and an entry thread seal. The armour clamp provides an electrical bond between the cable armour, screen or braid and the gland. Croclock CR-C type glands maintain EExd Flameproof method of explosion protection; IP66, 68 to 100 metres and is deluge resistant.

COMPLIANCE STANDARD	EN 60079-0, EN 60079-1, EN 61241-0, EN 61241-1, IEC 60079-0, IEC 60079-1, IEC 61241-0 & IEC 61241-1											
CERTIFICATION	<ul style="list-style-type: none"> ATEX I M2 II 2 GD, E Exd I & IIC GOST R-Exd I & IIC CSA Exd I & IIC 4X CSA A Exd IIC / A Exe II 4X, Class 1, Zone 1 IECEx Exd IIC / Exd I NEPSI Exd IIC / Exe II 											
CERTIFICATE	SIRA 03ATEX1479X - Ex Notified Body No. 0518 POCC GB 06.B00420 CSA 1356011 IECEx SIR 07.0098X NEPSI GYJ06188X											
GLAND MARKING (EXAMPLE)	IEC Ex SIR 07.0098X Exd I & IIC Ex tD A21 IP68 CR-CB/20/M20 Sira 03ATEX1479X Peppers GU15 3BT UK ГБ06 c us CL I Zn 1 AEx d IIC 4X EExd I & IIC Ex I M2 II 2 GD											
APPLICATION	<p>EExd Equipment CR-C type glands will maintain Flameproof Exd integrity when used with any armoured or unarmoured cable types. Ref: IEC60079-14:2002 Section 10.4.2</p> <table border="1"> <thead> <tr> <th>Gas Group</th> <th>Internal Ignition Source</th> <th>Enclosure Volume</th> <th>Which Zone</th> <th>Use CR-C Gland</th> </tr> </thead> <tbody> <tr> <td>I, IIC, IIB, IIA</td> <td>YES</td> <td>Any</td> <td>Zone 1 or 2</td> <td>YES</td> </tr> </tbody> </table> <p>Other Equipment Mining Equipment Group I, M2 Ignitable Dust, Zones 21 and 22</p>		Gas Group	Internal Ignition Source	Enclosure Volume	Which Zone	Use CR-C Gland	I, IIC, IIB, IIA	YES	Any	Zone 1 or 2	YES
Gas Group	Internal Ignition Source	Enclosure Volume	Which Zone	Use CR-C Gland								
I, IIC, IIB, IIA	YES	Any	Zone 1 or 2	YES								
INGRESS PROTECTION	IP66 & IP68 @ 100 metres, Enclosure Type 4X, BS EN 60529 & IEC 529 Meets the requirements of DTS01 1991											
CURING TIME	@ 21°C Conductor termination can be effected after 1 hour The equipment can be energised after 4 hours The compound chamber can be inspected after 4 hours											
VARIATIONS	For lead sheath cables the gland is fitted with a metallic continuity washer: Brass (CR-C2B); Stainless Steel (CR-C2S)											
MATERIALS	Brass CZ121 (CR-CB) 316 Stainless Steel (CR-CS) Inner LSOH compound Standard outer sheath seal is LSOH silicone, white (CR-C*) Reduced bore outer sheath seal is LSOH silicone, red (CR-C*R) Entry thread seal: Red LSOH silicone											
OPTIONS	THREADS	ISO Metric; NPT; NPS; ISO Pipe Thread (BSP Taper, BSP Parallel)										
	PLATING	Zinc (ZP); Nickel (NP); Tin (TP); Electroless Nickel (EN)										
OPERATING TEMPERATURES	- 60°C to +85°C											

ACCESSORIES	<p>Locknut - Brass (ACBLN); 316 Stainless Steel (ACSLN) Earth Tag - Brass (ACBET), 316 Stainless Steel (ACSET) IP Washer - Nylon (ACNSW); Red Fibre (ACFSW) Serrated Lock Washer - 316 Stainless Steel (ACSSW), Galvanised Steel (ACGSW) Shroud - PVC (ACSPVC)</p> <p>Gland and accessory kits: K1- includes gland, locknut, earthtag, integral IP "O" ring & PVC shroud</p> <p>Note: Glands with non metric threads are supplied with flat IP washers</p>
-------------	---

EXAMPLE PART NUMBER	<p>Sample: CR-CB R K1/NP/20S/M20 CR-C: CR-C - Gland type **-*B - Material (Brass) R - Reduced bore outer seal K1 - Supplied complete with accessories (PVC Shroud) NP - Nickel plating 20s - Gland size with regards to cable acceptance range M20 - Entry thread</p>
---------------------	--

Gland Size	Entry Threads		Entry Thread Length [B]	Max Across Corners [A]	Max Protrusion Length	Gland Seal Range						Armour Acceptance Range	Shroud Size	
						Cable Inner Sheath / Cores [C]			Cable Outer Sheath [D]					
	Metric	NPT/BSP	Max No. of Cores	Max Over Cores	Max Inner Sheath	Standard		Reduced (R)						
						Min	Max	Min	Max					
16	M20	1/2" or 3/4"	16	28.0	72.0	7	9.0	11.7	9.0	13.5	6.7	10.3	0.15 - 1.25	L24
20s	M20	1/2" or 3/4"	16	28.0	72.0	8	10.4	11.7	11.5	16.0	9.4	12.5	0.15 - 1.25	L24
20	M20	1/2" or 3/4"	16	33.0	73.0	14	12.5	14.0	15.5	21.1	12.0	17.6	0.15 - 1.25	EL30
25	M25	3/4" or 1"	16	41.4	83.0	25	17.8	20.0	20.3	27.4	16.8	23.9	0.15 - 1.60	EL38
32	M32	1" or 1 1/4"	16	50.6	103.0	50	23.5	26.3	26.7	34.0	23.2	30.5	0.15 - 2.00	EL46
40	M40	1 1/4" or 1 1/2"	16	60.5	105.0	80	28.8	32.2	33.0	40.6	28.6	36.2	0.20 - 2.00	EL55
50s	M50	2"	16	71.5	115.0	100	34.2	38.2	39.4	46.7	34.8	42.4	0.20 - 2.50	EL65
50	M50	2"	16	71.5	115.0	100	39.4	44.1	45.7	53.2	41.1	48.5	0.20 - 2.50	EL65
63s	M63	2 1/2"	19	88.0	115.0	120	44.8	50.1	52.1	59.5	47.5	54.8	0.30 - 2.50	EL80
63	M63	2 1/2"	19	88.0	115.0	120	50.0	56.0	58.4	65.8	53.8	61.2	0.30 - 2.50	EL80
75s	M75	3"	19	99.0	122.0	140	55.4	62.0	64.8	72.2	60.2	68.0	0.30 - 2.50	EL90
75	M75	3"	19	99.0	122.0	140	60.8	68.0	71.1	78.0	66.5	73.4	0.30 - 2.50	EL90
80	M80x2	3" or 3 1/2"	25	115.2	162.0	160	64.4	72.0	77.0	84.0	-	-	0.45 - 3.15	L104
85	M85x2	3" or 3 1/2"	25	115.2	162.0	180	69.8	78.0	79.6	90.0	75.0	85.4	0.45 - 3.15	L104
90	M90x2	3 1/2" or 4"	25	125.7	166.0	200	75.1	84.0	88.0	96.0	-	-	0.45 - 3.15	L114
100	M100x2	3 1/2" or 4"	25	125.7	166.0	220	80.5	90.0	92.0	102.0	87.4	97.4	0.45 - 3.15	L114

All Dimensions are in mm

NOTES:

- Gland Size does not necessarily equate to the entry thread size
- Integral entry thread seal option is not available for glands with tapered entry threads. IP washers can be supplied if required
- Please note that dimensions (A) & (B) may differ for glands with non-Metric entry threads. Please refer to our thread data tables for specific dimensions
- Unless otherwise stated ISO Metric entry threads have a 1.5mm pitch
- For Flameproof Exd applications the female thread into which the gland is to be fitted must comply with clause 5.3 of EN 50018:2000 (clause 5.3 IEC 79-1) and an engagement of at least 5 full threads must be achieved for parallel threads and should be achieved for tapered threads
- If CR-C type glands are fitted into non-metallic enclosures they must be included within the earth circuit of the system
- The user should seek expert advice if intending to combine flammable gases and combustible dusts in one environment/installation
- Full assembly instructions are supplied with glands, the instructions must be read prior to installation and adhered to in full
- In order to maintain an IP rating greater than IP54, when used in a clearance hole, a suitable IP washer is required.
- Peppers supplies cable glands with parallel entry threads which conform to the flameproof threaded joint requirements of IEC 60079-1 and other equivalent standards. They usually incorporate a thread run out according to the available machining techniques, and will not have a full-form thread for the entire length. Peppers will not be held responsible for clients' installations where this has not been taken into account.