

# Peppers Cable Glands Limited

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## Type CR-X Barrier Gland For Unarmoured Cable



Part of our ATEX Gland Range  
 2006 Catalogue Page 4.2.0

Croclock CR-X type glands provide a Flameproof EExd compound filled barrier and an entry thread seal. Croclock CR-X type glands maintain EExd Flameproof method of explosion protection; IP66, 68 to 100 metres and is deluge resistant.

DESIGN STANDARD	EN50014:1998, EN50018:2000 & EN 50281-1-1:1998 IEC 60079-0 (2000-06), IEC 60079-1 (2001-02)												
CERTIFICATION	ATEX I M2 II 2 GD, E Exd I & IIC GOST R-Exd I & IICU CSA Exd I & IIC/Exe II 4X, Class 1, Zone 1 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 05.B00974 CSA 1356011 IECEX SIR 05.0020X NEPSI GYJ06188X												
GLAND MARKING	CENELEC & ATEX Example: SIRA 03ATEX1479X <sup>Ex</sup> I M2 II 2GD EExd I & IIC IP68 PEPPERS UK / XX / CR-XB - 20S (XX = Year Code)												
APPLICATION	<b>EExd Equipment</b> CR-X type glands will maintain Flameproof Exd integrity when used with any unarmoured cable types. Ref: IEC60079-14:2002 Section 10.4.2 <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Gas Group</th> <th>Internal Ignition Source</th> <th>Enclosure Volume</th> <th>Which Zone</th> <th>Use CR-X 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> <b>Other Equipment</b> Mining Equipment Group I, M2 Ignitable Dust, Zones 21 and 22			Gas Group	Internal Ignition Source	Enclosure Volume	Which Zone	Use CR-X Gland	I, IIC, IIB, IIA	YES	Any	Zone 1 or 2	YES
Gas Group	Internal Ignition Source	Enclosure Volume	Which Zone	Use CR-X Gland									
I, IIC, IIB, IIA	YES	Any	Zone 1 or 2	YES									
INGRESS PROTECTION	IP66 & IP68 @ 100 metres 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												
MATERIALS	Brass CZ121 (CR-XB) 316 Stainless Steel (CR-XS) Inner LSOH compound Entry thread seal: Red LSOH silicone												
VARIATIONS	For lead sheath cables the gland is fitted with a metallic continuity washer: Brass (CR-X2B); 316 Stainless Steel (CR-X2S)												
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												

<b>ACCESSORIES</b>	<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, integral IP "O" ring &amp; PVC shroud</p> <p>Note: Glands with non metric threads are supplied with flat IP washers.</p>
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<b>EXAMPLE PART NUMBER</b>	<p>Sample: <b>CR-XB K1/NP/20S/M20</b></p> <p><b>CR-X:</b>  <b>CR-X</b> - Gland type  <b>**-*B</b> - Material (Brass)  <b>K1</b> - Supplied complete with accessories (PVC Shroud)  <b>NP</b> - Nickel plating  <b>20s</b> - Gland size with regards to cable acceptance range  <b>M20</b> - Entry thread</p>
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Gland Size	Entry Threads		Entry Thread Length [B]	Max Across Corners [A]	Max Protrusion Length	Gland Seal Range Cable Sheath / Cores			Shroud Size
	Metric	NPT/BSP				Max No. of Cores	Max Over Cores [C]	Max Sheath Diameter [D]	
20s	M20	1/2" or 3/4"	16	28.0	42.0	8	10.4	11.7	L24
20	M20	1/2" or 3/4"	16	33.0	44.0	14	12.5	14.0	L30
25	M25	3/4" or 1"	16	41.4	48.0	25	17.8	20.0	L38
32	M32	1" or 1 1/4"	16	50.6	53.0	50	23.5	26.3	L46
40	M40	1 1/4" or 1 1/2"	16	60.5	54.0	80	28.8	32.2	L55
50	M50	2"	16	71.5	54.0	100	39.4	44.1	L65
63	M63	2 1/2"	19	88.0	55.0	120	50.0	56.0	L80
75	M75	3"	19	99.0	60.0	140	60.8	68.0	L90
80	M80x2	3" or 3 1/2"	25	115.2	80.0	160	64.4	72.0	L104
85	M85x2	3" or 3 1/2"	25	115.2	80.0	180	69.8	78.0	L104
90	M90x2	3 1/2" or 4"	25	125.7	85.0	200	75.1	84.0	L114
100	M100x2	3 1/2" or 4"	25	125.7	85.0	220	80.5	90.0	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-X 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

<http://www.cableglands.com>