

# Peppers Cable Glands Limited

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## Cable Gland Type CR-X (Single Compression for Unarmoured Cables)

Ex d : Ex e : Ex nR : Ex ta : IP66 : IP68

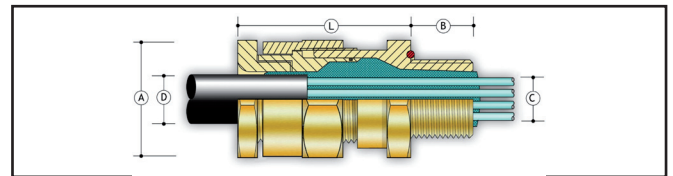
Part Numbers:

C	R	X	B
			S



"CR-X" type glands, when used with any shape cable, are certified Flameproof Ex d, Increased Safety Ex e & Restricted Breathing Ex nR are suitable for use in Zone 1, Zone 2, Zone 21, Zone 22, Group I Mining, Gas Groups IIA, IIB, IIC and Dust Groups IIIA, IIIB, IIIC. Occasionally referred to as "potting glands", they provide a compound barrier Ex d & IP seal on the cable inner cores (or flying leads), eliminating damage to cables that exhibit "cold flow" characteristics. The unique features include, Peppers T-1000, the sealing compound that enables a quick and easy installation and an innovative barrier chamber that provides a cable acceptance that is on average 17% greater than other designs. The gland maintains IP66 & IP68 to 100 metres and is deluge proof without the use of an additional seal or deluge boot. It is supplied with an IP O-ring seal as standard on metric entry threads.

<b>Compliance Standard:</b>	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 60079-31 IEC 60079-0, IEC 60079-1, 60079-7, IEC 60079-15, IEC 60079-31 & IEC 60529
<b>Certification:</b>	ATEX I M2 II 2GD Ex d I Mb & IIC Gb / Ex e I Mb & IIC Gb / Ex ta IIIC Da II 3GD Ex nR IIC Gc IECEX Ex d I Mb & IIC Gb / Ex e I Mb & IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc GOST-R Ex d I & IICU / Ex e IIU CSA Ex d I & IIC Class I Zone 1 AEx d IIC / AEx e II Class I Division 2, Groups A, B, C & D Class II Division 2, Groups E, F & G Class III, Enclosure Types 3, 4 & 4X NEPSI Ex d IIC INMETRO BR - Ex d IIC / Ex nR II / Ex tD A21 ABS 1-1-4/7.7, 4.8-3/1.7, 4-8-3/13 and 4-8-4/27.5 MODU Rules 4-3-3/9 LLOYD'S Enclosure Systems (Part 1B) RMRS Part XI of Rules for sea-going ships (ed.2008)
<b>Certificate No.</b>	ATEX SIRA 03ATEX1479X & SIRA 09ATEX4124X IECEX SIR 07.0098X GOST-R POCC GB.ГБ06.В00853 CSA CSA 1356011 NEPSI GYJ06188X INMETRO NCC 5881/09 X ABS 09-LD463991A-PDA LLOYD'S 10/00056 RMRS 09.00784.011
<b>IP Rating:</b>	IP66 & IP68 (100 metres - 7 Days), NEMA 4X & DTS01 1991
<b>Temperature:</b>	-60°C to +135°C
<b>Materials:</b>	Brass or Stainless Steel
<b>Plating:</b>	Nickel - Zinc
<b>Compound:</b>	Peppers T-1000 Sealing Compound



**Example Part Numbering**  
(See below for details)

CR-XBCK1/NP/20/M20

<b>CR-X</b>	Type of gland with Compound (Barrier) Seal
<b>B</b>	Brass (B) / Stainless Steel (S)
<b>C</b>	PVC Shroud (C) - PCP Shroud (P) - LSOH Shroud (3)
<b>K or V</b>	Locknut, & Nylon (K) or Fibre (V) IP Washer
<b>S</b>	Including Serrated Washer
<b>1</b>	Quantity per kit
<b>NP</b>	Nickel Plated (NP) - Zinc Plated (ZP)
<b>20</b>	Gland shell size
<b>M20</b>	M20 Entry Thread
<b>Optional Accessories</b>	Locknut Brass (ACBLN) / Stainless Steel (ACSLN)
	Earth tag Brass (ACBET) / Stainless Steel (ACSET)
	IP Washers Nylon (ACNSW) / Fibre (ACFSW)
	Serrated Washers Stainless Steel (ACSSW)
	Shrouds PVC (ACSPVC) / PCP (ACSPCP) / LSOH (ACSSIO)

**Curing Time:** @ 21 °C

Conductor termination can be effected after 1 hour  
 The equipment can be energised after 4 hours  
 Compound chamber can be fully inspected after 4 hours

### CABLE GLAND SELECTION TABLE

Gland Size	Entry Thread Size		ISO Thread Length [B]	Gland Seal Range - Cable Sheath & Cores			Nominal Protrusion Length [L]	Dimensions/Weight (Metric)			Metric Thread Shroud Size
	Metric	NPT		Number of Cores [C]	Max Ø Over Cores [C]	Max Outer Sheath [D]		Across Flats	Across Corners [A]	Weight Kgs	
20S	M20 x 1.5	1/2" or 3/4"	16	35	10.4	11.7	42	25.4	28.0	0.126	L24
20	M20 x 1.5	1/2" or 3/4"	16	40	12.5	14.0	44	30.0	33.0	0.167	L30
25	M25 x 1.5	3/4" or 1"	16	60	17.8	20.0	48	37.6	41.4	0.260	L38
32	M32 x 1.5	1" or 1 1/4"	16	80	23.5	26.3	53	46.0	50.6	0.396	L46
40	M40 x 1.5	1 1/4" or 1 1/2"	16	130	28.8	32.2	54	55.0	60.5	0.600	L55
50	M50 x 1.5	2"	16	400	39.4	44.1	54	65.0	71.5	0.710	L65
63	M63 x 1.5	2 1/2"	19	425	50.0	56.0	55	80.0	88.0	1.054	L80
75	M75 x 1.5	3"	19	425	60.8	68.0	60	90.0	99.0	1.318	L90
80	M80 x 2	3" or 3 1/2"	25	425	64.4	72.0	80	104.0	115.2	2.734	L104
85	M85 x 2	3" or 3 1/2"	25	425	69.8	78.0	80	104.0	115.2	2.282	L104
90	M90 x 2	3 1/2" or 4"	25	425	75.1	84.0	85	114.0	125.7	2.854	L114
100	M100 x 2	3 1/2" or 4"	25	425	80.5	90.0	85	114.0	125.7	2.453	L114

All dimensions in mm

Notes:

- \* Gland size does not necessarily equate to the entry thread size.
- \* The IP O-ring seal is only available on metric entry threads. IP washers can be supplied for tapered entry threads.
- \* Please ensure that the IP O-ring is not used in conjunction with a flat IP washer.
- \* Dimensions (A) & (B) may differ for glands with non metric entry threads. Please refer to our "Thread Reference Tables" for specific dimensions.
- \* Where glands are fitted into non-metallic Ex e enclosures they must be included within the earth circuit of the system.
- \* The user should seek expert advice if intending to combine flammable and combustible dust in one environment/installation.
- \* Assembly instructions must be read prior to installation and adhered to in full.
- \* Peppers supply cable glands with parallel entry threads that conform to the flameproof threaded joint requirements of IEC/EN 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.
- \* To maintain the specified IP rating, clearance holes must be in accordance with EN 50262 Table 1 and the entry device should be suitably secured.
- \* The gland is supplied with the correct amount of the two-part compound, gloves and instructions to allow one complete termination.
- \* Gland kits can be supplied with a PTFE IP washer in order to maintain the temperature range if required.