

# Double Seal Barrier Gland for Armoured Cable featuring "CROCKLOCK™" and Peppers T-1000 Compound

Ex db : Ex eb : Ex nR : Ex ta : IP66 : IP68 : Class I Div 2 : AEx db : AEx eb : AEx ta



## PRODUCT TYPE CR-C



### PRODUCT DESCRIPTION

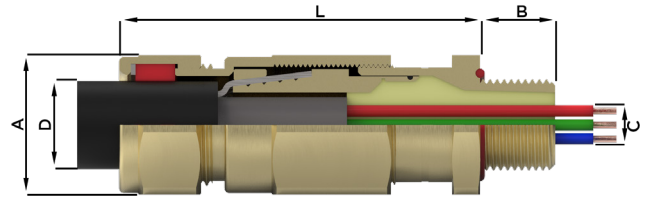
"CR-C" type glands are certified Flameproof Ex db, Increased Safety Ex eb, Restricted Breathing Ex nR and Dust Protected Ex ta. They are suitable for use in Group I Mining, Zone 1 and 2 for Gas Groups IIA, IIB and IIC and additionally for use in Zones 20, 21 and 22 for Dust Groups IIA, IIB and IIC. Also certified for Zone and Division installations under CEC and NEC. Occasionally referred to as "potting glands", they provide a compound barrier Ex db & IP seal on the cable inner cores, eliminating damage to cables that exhibit "cold flow" characteristics and an environmental seal on the outer sheath. The unique features include "CROCKLOCK™", the non reversible multi-clamping system for wire, braid and tape armoured cables and Peppers T-1000, the sealing compound that enables a quick and easy installation. The innovative barrier chamber provides a cable acceptance that allows for a full inspection of the compound fill. 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 and options are available for use with lead sheath cables.

### COMPLIANCE STANDARDS:

EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 60079-31  
IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-15, IEC 60079-31 & IEC 60529  
C22.2 (see certificate), CAN/CSA 60079-0/1/7/31  
UL514B, UL1203, UL2225, UL50E, ANSI/UL 60079-0/1/7, ISA 60079-31

CERTIFICATION No:	<b>UKEX</b>	I M2 II 1D 2G Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIC Da II 3G Ex nR IIC Gc
	<b>ATEX</b>	I M2 II 1D 2G Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIC Da II 3G Ex nR IIC Gc
	<b>IECEX</b>	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIC Da
	<b>CEC - Canada</b>	Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIC Da Class I Division 2 Groups A, B, C & D Class II Groups E, F & G Class III, Type 4X
	<b>NEC - USA</b>	Class I Division 2 Groups A, B, C & D Class II Groups E, F & G Class I Zone 1 AEx db IIC Gb / AEx eb IIC Gb / Zone 20 AEx ta IIC Da Class III, Type 4X
	<b>EAC</b>	PB Ex db I Mb X / 1Ex db IIC Gb X / PB Ex eb I Mb x / 1Ex eb IIC Gb X / 2Ex nR IIC Gc X Ex ta IIC Da X
	<b>INMETRO - Brazil</b>	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIC Da
	<b>CCC - China</b>	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIC Da
	<b>UKRAINE</b>	I M2 Ex db I Mb / II 2G Ex db IIC Gb / II 2G Ex eb I Mb / II 2G Ex eb IIC Gb II 3G Ex nR IIC Gc / II 1D Ex ta IIC Da
	<b>CCoE - India</b>	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIC Da
<b>ABS</b>	Specified ABS Rules	
<b>LLOYD'S</b>	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIC Da	
<b>DNV</b>	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIC Da	

CERTIFICATION No:	<b>UKEX</b>	CML 21UKEX1031X & CML 21UKEX4037X
	<b>ATEX</b>	CML 19ATEX1344X & CML 19ATEX4114X
	<b>IECEX</b>	IECEX CML 19.0046X
	<b>CEC - Canada</b>	CSA 1356011
	<b>NEC - USA</b>	CSA 1356011
	<b>EAC</b>	RU C-GB.AX58.B.051063/24
	<b>INMETRO - Brazil</b>	NCC 13.2188 X
	<b>CCC - China</b>	2021312313000407
	<b>UKRAINE</b>	CL 18.0322 X
	<b>CCoE - India</b>	PESO P494321/18 & P494321/20
<b>ABS</b>	20-LD1944057-PDA	
<b>LLOYD'S</b>	LR2124442TA	
<b>DNV</b>	TAE00004XK	



EXAMPLE PART NUMBERING:  
CR-CB/NP/20/M20

<b>CR-C</b>	Gland featuring "CROCKLOCK™", single orientation clamping, Peppers T-1000 Compound (Barrier) Inner Seal & Silicone LSOH Elastomeric Outer Seal	
<b>2</b>	For use with Lead Sheath Cables	
<b>B</b>	Brass (B) / Stainless Steel (S)	
<b>R</b>	Reduced Bore Outer Sheath Seal	
<b>C</b>	PVC Shroud (C) - PCP Shroud (P) - Silicone LSOH Shroud (3)	
<b>OPTIONS</b>	<b>K-V-H</b>	Locknut, Earth Tag & Nylon (K), Fibre (V) or PTFE (H) IP Washer
	<b>S</b>	Including Serrated Washer
<b>1</b>	Quantity per kit	
<b>NP</b>	Nickel Plated	
<b>20</b>	Gland shell size	
<b>M20</b>	M20 x 1.5 Male Entry Thread	

OPTIONAL ACCESSORIES:

<b>LOCKNUT (L)</b>	Brass (ACBLN) / Stainless Steel (ACSLN)
<b>EARTH TAG (T)</b>	Brass (ACBET) / Stainless Steel (ACSET)
<b>IP WASHERS</b>	Nylon (N) / Fibre (J) / PTFE (Z)
<b>SERRATED WASHERS</b>	Stainless Steel (S)
<b>SHROUDS</b>	PVC (C) / PCP (P) / Silicone LSOH (3)

<b>IP RATING:</b>	IP66 & IP68 (100 metres - 7 Days), Type 4X & DTS01:1991
<b>OPERATING TEMP:</b>	-60°C to +135°C
<b>MATERIALS:</b>	Brass or Stainless Steel
<b>PLATING:</b>	Electroless Nickel
<b>COMPOUND:</b>	Peppers T-1000 Sealing Compound
<b>OUTERSEAL:</b>	Silicone LSOH

**CURING TIME:**  
@ 21°C Conductor termination can be effected after 1 hour. Compound chamber can be fully inspected after 4 hours and the equipment then energised.

CABLE GLAND SELECTION TABLE  
(ALL DIMENSIONS IN mm)

Gland Size	Entry Thread Size		Metric Thread Length [B]	Cable Acceptance Details										Dimensions/Weight (Metric)			Shroud Size (Metric)
	Metric	NPT		Internal Cable Details			Cable Outer Sheath seal [D]				Armour Acceptance Range	Nominal Protrusion Length [L] Metric	Across Flats [A]	Across Corners	Weight (Kgs)		
				Max Number of Cores	Max Ø Over Cores	Max Inner Sheath [C]	Standard	Reduced	Min	Max							
16	M20 x 1.5	1/2" or 3/4"	16	15	10.4	11.7	8.4	13.5	6.7	10.3	0.15-1.25	79	25.4	28.0	0.177	L24*	
20S	M20 x 1.5	1/2" or 3/4"	16	35	10.4	11.7	11.5	16.0	9.4	12.5	0.15-1.25	79	25.4	28.0	0.166	L24*	
20	M20 x 1.5	1/2" or 3/4"	16	40	12.5	14.0	15.5	21.1	12.0	17.6	0.15-1.25	79	30.0	33.0	0.245	L30	
25	M25 x 1.5	3/4" or 1"	16	60	17.8	20.0	20.3	27.4	16.8	23.9	0.15-1.60	89	37.6	41.4	0.402	L38	
32	M32 x 1.5	1" or 1 1/4"	16	80	23.5	26.3	26.7	34.0	23.2	30.5	0.15-2.00	110	46.0	50.6	0.738	L46	
40	M40 x 1.5	1 1/4" or 1 1/2"	16	130	28.8	32.2	33.0	40.6	28.6	36.2	0.20-2.00	110	55.0	60.5	1.079	L55	
50S	M50 x 1.5	1 1/2" or 2"	16	200	34.2	38.2	39.4	46.7	34.8	42.4	0.20-2.50	125	65.0	71.5	1.455	L65	
50	M50 x 1.5	2"	16	400	39.4	44.1	45.7	53.2	41.1	48.5	0.20-2.50	125	65.0	71.5	1.366	L65	
63S	M63 x 1.5	2" or 2 1/2"	19	400	44.8	50.1	52.1	59.5	47.5	54.8	0.30-2.50	125	80.0	88.0	2.157	L86	
63	M63 x 1.5	2 1/2"	19	425	50.0	56.0	58.4	65.8	53.8	61.2	0.30-2.50	125	80.0	88.0	2.035	L86	
75S	M75 x 1.5	2 1/2" or 3"	19	425	55.4	62.0	64.8	72.2	60.2	68.0	0.30-2.50	130	90.0	99.0	2.399	L99	
75	M75 x 1.5	3"	19	425	60.8	68.0	71.1	78.0	66.5	73.4	0.30-2.50	130	90.0	99.0	2.313	L99	
80	M80 x 2.0	3" or 3 1/2"	25	425	64.4	72.0	77.0	84.0	71.9	79.4	0.45-3.15	162	104.0	115.2	4.763	L104	
85	M85 x 2.0	3" or 3 1/2"	25	425	69.8	78.0	79.6	90.0	75.0	85.4	0.45-3.15	162	104.0	115.2	4.122	L104	
90	M90 x 2.0	3 1/2" or 4"	25	425	75.1	84.0	88.0	96.0	82.0	91.4	0.45-3.15	162	114.0	125.7	5.114	L114	
100	M100 x 2.0	3 1/2" or 4"	25	425	80.5	90.0	92.0	102.0	87.4	97.4	0.45-3.15	162	114.0	125.7	4.356	L114	

- 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.
  - Dimensions (A) & (B) may differ for glands with non metric entry threads. Please refer to our "Thread Reference Tables" for specific dimensions.
  - Assembly instructions must be read prior to installation and adhered to in full. Peppers supply products with parallel entry threads that conform to the flameproof threaded joint requirements of IEC/EN 60079-1 and other equivalent standards. We usually incorporate a thread run out according to general machining techniques and parts will not have a full form thread for the entire length. Peppers Cable Glands Limited will not be held responsible for clients' installations where this has not

- been taken into account.
- When selecting IP Washer & Shroud material for use with glands, please be aware of the accessories temperature range to ensure they are suitable for the intended installation.
- The gland is supplied with the correct amount of the two-part compound, gloves and instructions to allow one complete termination.
- Where approval in addition to UKEX, ATEX, IECEX and CSA is required, this must be clearly requested at time of enquiry / order.
- For gland sizes 16 and 20S when used with 3/4" NPT entry thread an L30 shroud would be required.