

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 • Website: www.cableglands.com



Cable Gland Type CR-C (featuring "CROCLOCK®")

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

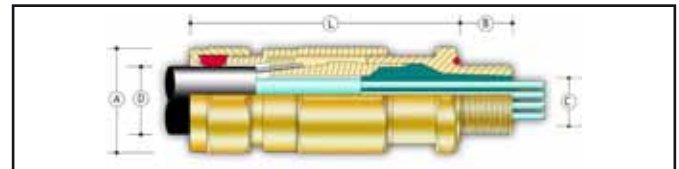
Part Numbers:

C	R	C	*	B	*
			2	S	R



"CR-C" type glands, 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, eliminating damage to cables that exhibit "cold flow" characteristics and an environmental seal on the outer sheath. The unique features include, "CROCLOCK®", the non reversible multi clamping system for wire (W), braid (X) and tape (Z) 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 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 and options are available for use with lead sheath.

Compliance	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 60079-31
Standard:	IEC 60079-0, IEC 60079-1, 60079-7, IEC 60079-15, IEC 60079-31 & IEC 60529
Certification:	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 I IU 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 - Exd IIC / Ex nR II / Ex tD A21 ABS 1-1-4/7.7, 4.8-3/1.7, 4.8-3/1.3 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)
Certificate No.	ATEX SIRA 03ATEX1479X & SIRA 09ATEX4124X IECEX SIR 07.0098X GOST-R POCB GB.F506.B00853 CSA CSA 1356011 NEPSI GYJ06188X INMETRO NCC 5881/09 X ABS 09-LD463991A-PDA LLOYD'S 10/00056 RMRS 09.00784.011
IP Rating:	IP66 & IP68 (100 metres - 7 Days), NEMA 4X & DTS01 1991
Temperature:	-60°C to +135°C
Materials:	Brass or Stainless Steel
Plating:	Nickel - Zinc
Compound:	Peppers T-1000 Sealing Compound



Example Part Numbering (See below for details)		CR-CBCK1/NP/20/M20
Options	CR-C	Type of gland featuring "CROCLOCK®", single orientation clamping, Compound (Barrier) Inner Seal & Silicone Elastomeric Outer Seal
	2	For Lead Sheath Cables
	B	Brass (B) / Stainless Steel (S)
	R	Reduced Bore Seal
	C	PVC Shroud (C) - PCP Shroud (P) - LSOH Shroud (3)
	K or V	Locknut, Earth Tag & Nylon (K) or Fibre (V) IP Washer
	S	Including Serrated Washer
	1	Quantity per kit
	NP	Nickel Plated (NP) - Zinc Plated (ZP)
	20	Gland shell size
Optional Accessories	M20	M20 Entry Thread
	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]	Cable Acceptance Details						Armour Acceptance Range	Nominal Protusion Length [L]	Dimensions/Weight (Metric)			Metric Thread Shroud Size	
				Cable Inner Sheath [C]			Cable Outer Sheath [D]					Across Flats	Across Corners [A]	Weight Kgs		
	Metric	NPT		Number of Cores	Max Ø Over Cores	Max Inner Sheath	Standard		Reduced							
							Min	Max	Min			Max				
16	M20 x 1.5	1/2" or 3/4"	16	15	10.4	11.7	9.0	13.5	6.7	10.3	0.15-1.25	79	25.4	28.0	0.177	EL24
20S	M20 x 1.5	1/2" or 3/4"	16	35	10.4	11.7	12.9	16.0	9.4	12.5	0.15-1.25	79	25.4	28.0	0.166	EL24
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	EL30
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	EL38
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	EL46
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	EL55
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	EL65
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	EL65
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	EL80
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	EL80
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	EL90
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	EL90
80	M80 x 2	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	EL104
85	M85 x 2	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	EL104
90	M90 x 2	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	EL114
100	M100 x 2	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	EL114

- 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.