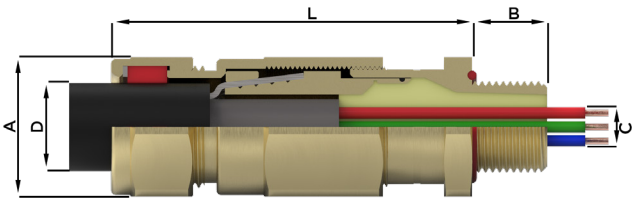
Double Seal Barrier Gland for Armoured Cable featuring "CROCLOCK®" and Peppers T-1000 Compound

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 IIIA, IIIB and IIIC. Also certified for Zone and Divison 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 "CROCLOCK®", 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:

UKEX	I M2 II 1D 2G Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc
ATEX	I M2 II 1D 2G Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc
IECEx	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
CEC - Canada	Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da Class I Division 2 Groups A, B, C & D Class II Groups E, F & G Class III, Type 4X
NEC - USA	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 IIIC Da Class III, Type 4X
EAC	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 IIIC Da X
INMETRO - Brazil	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
CCC - China	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
UKRAINE	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 IIIC Da
CCoE - India	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
ECAS-Ex	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
ABS	Specified ABS Rules
LLOYD'S	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
DNV	Ex db I Mb / Ex db IIC Gb / Ex eb I Mb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da

CERTIFICATION No:

UKEX	CML 21UKEX1031X & CML 21UKEX4037X
ATEX	CML 19ATEX1344X & CML 19ATEX4114X
IECEx	IECEx CML 19.0046X
CEC - Canada	CSA 1356011
NEC - USA	CSA 1356011
EAC	RU C-GB.AЖ58.B.05106/24
INMETRO - Brazil	NCC 13.2188 X
CCC - China	2021312313000407
UKRAINE	СЦ 18.0322 X
CCoE - India	PESO P494321/18 & P494321/20
ECAS-Ex	25-06-153223/E25-06-159811/NB0007
ABS	25-0158110-PDA
LLOYD'S	LR2124442TA
DNV	TAE00004XK

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

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

OPTIONAL ACCESSORIES:

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

IP RATING:	IP66 & IP68 (100 metres - 7 Days), Type 4X & DTS01:1991
OPERATING TEMP:	-60°C to +135°C
MATERIALS:	Brass or Stainless Steel
PLATING:	Electroless Nickel
COMPOUND:	Peppers T-1000 Sealing Compound
OUTERSEAL:	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							Armour Acceptance Range	Nominal Protrusion Length [L] Metric	Dimensions/Weight (Metric)			Shroud Size (Metric)
				Internal Cable Details			Cable Outer Sheath seal [D]									
							Standard		Reduced							
	Metric	NPT		Max Number of Cores	Max Ø Over Cores	Max Inner Sheath [C]	Min	Max	Min	Max			Across Flats [A]	Across Corners	Weight (Kgs)	
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 ¼"	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 ¼" or 1 ½"	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 ½" 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 ½"	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 ½"	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 ½" 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 ½"	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 ½"	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 ½" 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 ½" 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.