

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 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 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 "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:

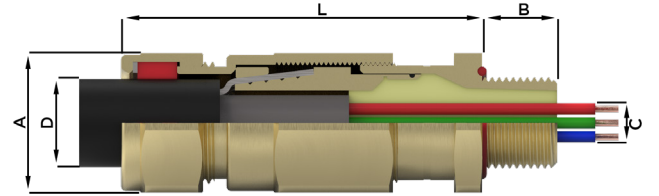
EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 60079-31
IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-15, IEC 60079-31 & IEC 60529
C22.2 (see certificate), CAN/CSA 60079-0/1/7/31
UL514B, UL1203, UL2225, UL50E, ANSI/UL 60079-0/1/7, ISA 60079-31

CERTIFICATION:	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

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.AX58.B.05106/24
	INMETRO - Brazil	NCC 13.2188 X
	CCC - China	2021312313000407
	UKRAINE	CLJ 18.0322 X
	CCoE - India	PESO P494321/18 & P494321/20

Cable Gland Selection Table (All dimensions in mm)	Gland Size	Entry Thread Size		Metric Thread Length [B]	Cable Acceptance Details		
		Metric	NPT		Internal Cable Details		
					Max Number of Cores	Max Ø Over Cores	Max Inner Sheath [C]
	16	M20 x 1.5	1/2" or 3/4"	16	15	10.4	11.7
	20S	M20 x 1.5	1/2" or 3/4"	16	35	10.4	11.7
	20	M20 x 1.5	1/2" or 3/4"	16	40	12.5	14.0
	25	M25 x 1.5	3/4" or 1"	16	60	17.8	20.0
	32	M32 x 1.5	1" or 1 1/4"	16	80	23.5	26.3
	40	M40 x 1.5	1 1/4" or 1 1/2"	16	130	28.8	32.2
	50S	M50 x 1.5	1 1/2" or 2"	16	200	34.2	38.2
	50	M50 x 1.5	2"	16	400	39.4	44.1
	63S	M63 x 1.5	2" or 2 1/2"	19	400	44.8	50.1
	63	M63 x 1.5	2 1/2"	19	425	50.0	56.0
	75S	M75 x 1.5	2 1/2" or 3"	19	425	55.4	62.0
	75	M75 x 1.5	3"	19	425	60.8	68.0
	80	M80 x 2.0	3" or 3 1/2"	25	425	64.4	72.0
	85	M85 x 2.0	3" or 3 1/2"	25	425	69.8	78.0
	90	M90 x 2.0	3 1/2" or 4"	25	425	75.1	84.0
	100	M100 x 2.0	3 1/2" or 4"	25	425	80.5	90.0

- 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



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

CR-C	Gland featuring "CROCKLOCK", 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) - LSOH Silicone Shroud (3)
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) / LSOH Silicone (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.