

# PRODUCT TYPE CR

## Double Compression Gland for Armoured Cable featuring "CROCLOCK®"

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

### PART NUMBERS:

C	R	1	B	*
		2	S	R
		3		
		4		



### PRODUCT DESCRIPTION

"CR" 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 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 Division installations for use with Marine Shipboard and Tray Cables under the NEC and CEC. They provide a controlled Ex db & IP displacement seal on the cable inner sheath minimising damage to cables that exhibit "cold flow" characteristics, an environmental seal on the outer sheath and "CROCLOCK®", a unique non reversible multi clamping system for wire, braid and tape armoured cables. The gland maintains IP66 & IP68 to 50 metres and is deluge proof without the use of an additional seal. It is supplied with an IP O-ring seal as standard on metric entry threads. Options are available for use with lead sheath, LSOH cables and extreme temperature applications. A termination suitable for EMC protection can be made using armoured cables with this gland.

### COMPLIANCE STANDARDS:

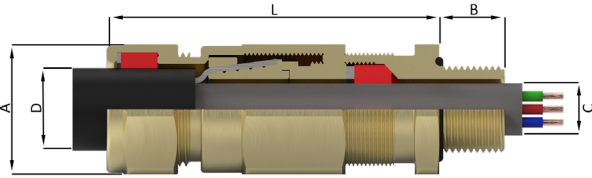
EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 60079-31  
IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31 & IEC 60529  
A22 (see certificate), CAN/CSA 60079-0/1/7  
UL514B, UL1203, UL2225, UL50E, ANSI/UL 60079-0/7, ISA 60079-31

### CERTIFICATION:

<b>ATEX</b>	II 1D 2G Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIC Da II 3G Ex nR IIC Gc
<b>IECEX</b>	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIC Da
<b>CEC - Canada</b>	Class I Division 2, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Type 4X Class I Zone 1 Ex d IIC / Ex e II Class II Division 1, Groups E, F & G Class III, Type 4X Class I Zone 1 AEx e IIC Gb Class II Zone 20 AEx ta IIC Da
<b>EAC</b>	1Ex d IIC Gb X / 1Ex e IIC Gb X / 2Ex nR IIC Gc X / Ex ta IIC Da X
<b>INMETRO - Brazil</b>	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIC Da
<b>CCC - China</b>	Ex d IIC Gb / Ex e IIC Gb / Ex nR IIC Gc / Ex ta IIC Da
<b>UKRAINE</b>	II 2G Ex db IIC Gb / II 2G Ex eb IIC Gb / II 3G Ex nR IIC Gc / II 1D Ex ta IIC Da
<b>CCoE - India</b>	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIC Da
<b>KCS - Korea</b>	Ex d IIC / Ex e IIC
<b>ABS</b>	Specified ABS Rules
<b>LLOYD'S</b>	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIC Da
<b>RS - Russia</b>	Ex d IC / Ex d IIC / Ex e IC / Ex e IIC / Ex ta IIC

### CERTIFICATION No:

<b>ATEX</b>	CML 19ATEX1348X & CML 19ATEX4109X
<b>IECEX</b>	IECEX CML 19.0106X
<b>CEC - Canada</b>	CSA 1356011
<b>NEC - USA</b>	CSA 2627370
<b>EAC</b>	RU C-GB.BH02.B.00693-18
<b>INMETRO - Brazil</b>	NCC 13.2185 X
<b>CCC - China</b>	2021312313000409
<b>UKRAINE</b>	CLJ 18.0326 X
<b>CCoE - India</b>	PESO P494321/8 & P494321/13
<b>KCS - Korea</b>	15-GA4BO-0669X & 15-GA4BO-0670X
<b>ABS</b>	20-LD1944057-PDA
<b>LLOYD'S</b>	LR2124442TA
<b>RS - Russia</b>	19.00189.278



EXAMPLE PART NUMBERING:  
CR-1B/NP/20/M20

<b>CR</b>	Gland featuring "CROCLOCK®", single orientation clamping
<b>1</b>	Neoprene Seal (1) - Silicone Seal (3) - Neoprene/Lead (2) - Silicone/Lead (4)
<b>B</b>	Brass (B) - Stainless Steel (S)
<b>R</b>	Reduced Bore Seal
<b>C</b>	PVC Shroud (C) - PCP Shroud (P) - LSOH Silicone Shroud (3)
<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</b>	Brass (ACBLN) / Stainless Steel (ACSLN)
<b>EARTH TAG</b>	Brass (ACBET) / Stainless Steel (ACSET)
<b>IP WASHERS</b>	Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW)
<b>SERRATED WASHERS</b>	Stainless Steel (ACSSW)
<b>SHROUDS</b>	PVC (ACSPVC) / PCP (ACSPCP) / LSOH Silicone (ACSSIO)

<b>IP RATING:</b>	IP66 & IP68 (50 metres - 7 Days), Type 4X & DTS01:1991
<b>OPERATING TEMP:</b>	Neoprene Seals -35°C to +90°C Silicone Seals -60°C to +180°C
<b>MATERIALS:</b>	Brass or Stainless Steel
<b>PLATING:</b>	Electroless Nickel

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]	Dimensions/Weight (Metric Versions)			Shroud Size (Metric)	
	Metric	NPT		Inner Sheath [C]		Outer Sheath [D]		Reduced [D]			Across Flats [A]	Across Corners	Weight (Kgs)		
				Min	Max	Min	Max	Min							Max
16	M20 x 1.5	½" or ¾"	16	3.4	8.4	8.4	13.5	6.7	10.3	0.15-1.25	78	25.4	28.0	0.178	EL24*
16H	M20 x 1.5	½" or ¾"	16	3.4	8.4	11.5	16.0	9.4	12.5	0.15-1.25	78	25.4	28.0	0.173	EL24*
20S	M20 x 1.5	½" or ¾"	16	7.2	11.7	11.5	16.0	9.4	12.5	0.15-1.25	78	25.4	28.0	0.173	EL24*
20	M20 x 1.5	½" or ¾"	16	9.4	14.0	15.5	21.1	12.0	17.6	0.15-1.25	78	30.0	33.0	0.233	EL30
25	M25 x 1.5	¾" or 1"	16	13.5	20.0	20.3	27.4	16.8	23.9	0.15-1.60	90	37.6	41.4	0.416	EL38
32	M32 x 1.5	1" or 1 ¼"	16	19.5	26.3	26.7	34.0	23.2	30.5	0.15-2.00	105	46.0	50.6	0.772	EL46
40	M40 x 1.5	1 ¼" or 1 ½"	16	23.0	32.2	33.0	40.6	28.6	36.2	0.20-2.00	113	55.0	60.5	1.093	EL55
50S	M50 x 1.5	1 ½" or 2"	16	28.1	38.2	39.4	46.7	34.8	42.4	0.20-2.50	125	65.0	71.5	1.255	EL65
50H	M50 x 1.5	1 ½" or 2"	16	28.1	38.2	45.7	53.2	41.1	48.5	0.20-2.50	125	65.0	71.5	1.369	EL65
50	M50 x 1.5	2"	16	33.1	44.1	45.7	53.2	41.1	48.5	0.30-2.50	125	65.0	71.5	1.400	EL65
63S	M63 x 1.5	2" or 2 ½"	19	39.2	50.1	52.1	59.5	47.5	54.8	0.30-2.50	125	80.0	88.0	2.550	EL80
63H	M63 x 1.5	2" or 2 ½"	19	39.2	50.1	58.4	65.8	53.8	61.2	0.30-2.50	125	80.0	88.0	2.478	EL80
63	M63 x 1.5	2 ½"	19	46.7	56.0	58.4	65.8	53.8	61.2	0.30-2.50	125	80.0	88.0	2.104	EL80
75S	M75 x 1.5	2 ½" or 3"	19	52.1	62.0	64.8	72.2	60.2	68.0	0.30-2.50	131	90.0	99.0	2.916	EL90
75H	M75 x 1.5	2 ½" or 3"	19	52.1	62.0	71.1	78.0	66.5	73.4	0.30-2.50	131	90.0	99.0	2.808	EL90
75	M75 x 1.5	3"	19	58.0	68.0	71.1	78.0	66.5	73.4	0.30-2.50	131	90.0	99.0	2.315	EL90
80	M80 x 2.0	3" or 3 ½"	25	62.2	72.0	77.0	84.0	71.9	79.4	0.45-3.15	170	90.0	115.2	4.953	EL104
80H	M80 x 2.0	3" or 3 ½"	25	62.2	72.0	79.6	90.0	75.0	85.4	0.45-3.15	170	104.0	115.2	4.740	EL104
85	M85 x 2.0	3" or 3 ½"	25	69.0	78.0	79.6	90.0	75.0	85.4	0.45-3.15	170	104.0	115.2	4.070	EL104
90	M90 x 2.0	3 ½" or 4"	25	74.0	84.0	88.0	96.0	82.0	91.4	0.45-3.15	170	114.0	125.7	5.129	EL114
90H	M90 x 2.0	3 ½" or 4"	25	74.0	84.0	92.0	102.0	87.4	97.4	0.45-3.15	170	114.0	125.7	4.867	EL114
100	M100 x 2.0	3 ½" or 4"	25	82.0	90.0	92.0	102.0	87.4	97.4	0.45-3.15	170	114.0	125.7	4.362	EL114
110	M110 x 2.0	4"	25	92.0	102.0	104.0	117.0	-	-	0.45-3.15	165	135.0	148.5	7.327	-

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.
- Where approval in addition to ATEX, IECEx and CSA is required, this must be clearly requested at time of enquiry / order.
- \* For gland sizes 16, 16H and 20S when used with 3/4" NPT entry thread an EL30 shroud would be required.