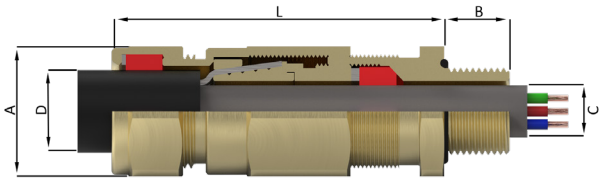
PRODUCT TYPE CR

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		

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

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

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

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 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.

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

CERTIFICATION:

ATEX	II 1D 2G Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc
IECEx	Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da
CEC - Canada	Class I Division 2, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X Class I Zone 1 Ex d IIC / Ex e II
NEC - USA	Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X Class I Zone 1 AEx e IIC Gb Class II Zone 20 AEx ta IIIC Da
EAC	1Ex d IIC Gb X / 1Ex e IIC Gb X / 2Ex nR IIC Gc X / Ex ta IIIC Da X
INMETRO - Brazil	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
SAC - China	Ex d IIC Gb / Ex e IIC Gb
UKRAINE	II 2G Ex db IIC Gb / II 2G Ex eb IIC Gb / II 3G Ex nR IIC Gc / II 1D Ex ta IIIC Da
CCoE - India	Ex d IIC Gb (Zone 1) / Ex e IIC (Zone 2) / Ex nR IIC Gc (Zone 2)
KCS-Korea	Ex d IIC / Ex e IIC
ABS	Specified ABS Rules
LLOYD'S	Ex d IIC Gb / Ex e IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
RMRS	Ex d IC / Ex d IIC / Ex e IC / Ex e IIC / Ex ta IIIC

CERTIFICATION No:

ATEX	BAS 01ATEX2271X & SIRA 09ATEX1221X
IECEx	IECEx SIR 07.0099X
CEC - Canada	CSA 1356011
NEC - USA	CSA 2627370
EAC	RU C-GB.BH02.B.00693-18
INMETRO - Brazil	NCC 13.2185 X
SAC - China	NEPSI GYJ16.1402X
UKRAINE	СЦ 18.0326 X
CCoE - India	PESO P365300/2 & P365300/14
KCS - Korea	15-GA4BO-0669X & 15-GA4BO-0670X
ABS	14-LD463991-1-PDA
LLOYD'S	10/00056(E1)
RMRS	14.02755.315

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)
				Inner Sheath [C]		Outer Sheath [D]		Reduced [D]				Across Flats [A]	Across Corners	Weight (Kgs)	
	Metric	NPT		Min	Max	Min	Max	Min	Max						
16	M20 x 1.5	1/2" or 3/4"	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	1/2" or 3/4"	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	1/2" or 3/4"	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	1/2" or 3/4"	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	3/4" 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. 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 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.