

Double Seal Gland for Armoured Cable featuring "CROCKLOCK"

Ex db : Ex eb : Ex nR : Ex ta : IP66 : IP68 : Class I Zone 1 : AEx eb : AEx ta



PRODUCT TYPE CR



PRODUCT DESCRIPTION

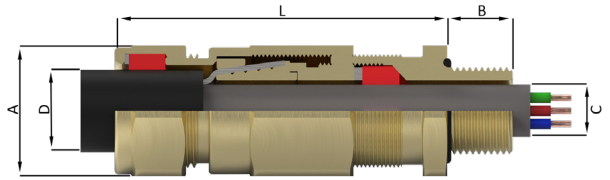
"CR" type glands are certified Flameproof Ex db, Increased Safety Ex eb, Restricted Breathing Ex nR and Dust Protected Ex ta. They are suitable for use in Zone 1 and 2, for Gas Groups IIA, IIB and IIC and additionally for use in Zones 20, 21 and 22 for Dust Groups IIIA, IIIB and IIIC. Also certified 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 "CROCKLOCK", 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 60079-0/1/7/31
UL514B, UL1203, UL2225, UL50E, ANSI/UL 60079-0/7, ISA 60079-31

CERTIFICATION:	UKEX	ATEX	IECEX	CEC - Canada	NEC - USA	EAC	INMETRO - Brazil	CCC - China	UKRAINE	CCoE - India	KCS-Korea	ABS	LLOYD'S	DNV
	II 1D 2G Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc	II 1D 2G Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da	Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da Class II Group E, F & G Class III, Type 4X	Class I Zone 1 AEx eb IIC Gb / Zone 20 AEx ta IIIC Da Class II Group E, F & G Class III, Type 4X	1Ex db IIC Gb X / 1Ex eb IIC Gb X / 2Ex nR IIC Gc X / Ex ta IIIC Da X	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da	II 2G Ex db IIC Gb / II 2G Ex eb IIC Gb / II 3G Ex nR IIC Gc / II 1D Ex ta IIIC Da	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da	Ex d IIC / Ex e IIC	Specified ABS Rules	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da

CERTIFICATION No:	UKEX	ATEX	IECEX	CEC - Canada	NEC - USA	EAC	INMETRO - Brazil	CCC - China	UKRAINE	CCoE - India	KCS - Korea	ABS	LLOYD'S	DNV
	CML 21UKEX1030X & CML 21UKEX4043X	CML 19ATEX1348X & CML 19ATEX4109X	IECEX CML 19.0106X	CSA 1356011	CSA 1356011	RU C-GB.AJK58.B.051063/24	NCC 13.2185 X	2021312313000409	CLL 18.0326 X	PESO P494321/8 & P494321/13	15-GA4BO-0669X & 15-GA4BO-0670X	20-LD1944057-PDA	LR2124442TA	TAE00004XK



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

CR	Gland featuring "CROCKLOCK", single orientation clamping
1	Neoprene Seal (1) - Silicone Seal (3) - Neoprene/Lead (2) - Silicone/Lead (4)
B	Brass (B) - Stainless Steel (S)
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 (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) / LSOH Silicone (3)

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

CABLE GLAND SELECTION TABLE (ALL DIMENSIONS IN mm)

Gland size	Entry Thread Size		Metric Thread Length [B]	Cable Acceptance Details						Nominal Protusion Length [L]	Dimensions/Weight (Metric Versions)			Shroud Size (Metric)	
	Metric	NPT		Inner Sheath [C]		Outer Sheath [D]		Reduced [D]			Armour Acceptance Range	Across Flats [A]	Across Corners		Weight (Kgs)
			Min	Max	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	L24*
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	L24*
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	L24*
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	L30
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	L38
32	M32 x 1.5	1" or 1 1/4"	16	19.5	26.3	26.7	34.0	23.2	30.5	0.15-2.00	105	46.0	50.6	0.772	L46
40	M40 x 1.5	1 1/4" or 1 1/2"	16	23.0	32.2	33.0	40.6	28.6	36.2	0.20-2.00	113	55.0	60.5	1.093	L55
50S	M50 x 1.5	1 1/2" 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	L65
50H	M50 x 1.5	1 1/2" 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	L65
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	L65
63S	M63 x 1.5	2" or 2 1/2"	19	39.2	50.1	52.1	59.5	47.5	54.8	0.30-2.50	125	80.0	88.0	2.550	L86
63H	M63 x 1.5	2" or 2 1/2"	19	39.2	50.1	58.4	65.8	53.8	61.2	0.30-2.50	125	80.0	88.0	2.478	L86
63	M63 x 1.5	2 1/2"	19	46.7	56.0	58.4	65.8	53.8	61.2	0.30-2.50	125	80.0	88.0	2.104	L86
75S	M75 x 1.5	2 1/2" 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	L99
75H	M75 x 1.5	2 1/2" 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	L99
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	L99
80	M80 x 2.0	3" or 3 1/2"	25	62.2	72.0	77.0	84.0	71.9	79.4	0.45-3.15	170	90.0	115.2	4.953	L105
80H	M80 x 2.0	3" or 3 1/2"	25	62.2	72.0	79.6	90.0	75.0	85.4	0.45-3.15	170	104.0	115.2	4.740	L105
85	M85 x 2.0	3" or 3 1/2"	25	69.0	78.0	79.6	90.0	75.0	85.4	0.45-3.15	170	104.0	115.2	4.070	L105
90	M90 x 2.0	3 1/2" 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	L114
90H	M90 x 2.0	3 1/2" 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	L114
100	M100 x 2.0	3 1/2" 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	L114
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 UKEX, 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 L30 shroud would be required.