



# PRODUCT TYPE CR-O

## Single Seal Gland for armoured cable featuring "CROCLOCK"<sup>®</sup>

Ex eb : Ex ta : IP66 : Class I Zone 1 : AEx eb : AEx ta



### PRODUCT DESCRIPTION

"CR-O" type glands are certified Increased Safety Ex eb 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 Dusts 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. The gland is suitable for cables that exhibit "cold flow" characteristics, whilst providing an IP66 environmental seal on the cable outer sheath and "CROCLOCK"<sup>®</sup>, a unique non reversible multi clamping system for wire, braid and tape armoured cables. The gland maintains IP66 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 LSOH cables and extreme temperature applications.

### COMPLIANCE STANDARDS:

EN 60079-0, EN 60079-7, EN 60079-31  
IEC 60079-0, IEC 60079-7, IEC 60079-31 & IEC 60529  
C22.2 (see certificate), CAN/CSA 60679-0/7/31  
UL514B, UL1203, UL2225, UL50E, ANSI/UL 60079-0/7, ISA 60079-31

### CERTIFICATION:

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

### CERTIFICATION No:

<b>UKEX</b>	CML 21UKEX1030X
<b>ATEX</b>	CML 19ATEX1348X
<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.AX58.B.051063/24
<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
<b>KCS - Korea</b>	15-GA4BO-0671X
<b>ABS</b>	20-LD1944057-PDA
<b>LLOYD'S</b>	LR2124442TA
<b>DNV</b>	TAE00004XK

### EXAMPLE PART NUMBERING: CR-01BCK1/NP/20/M20

<b>CR</b>	Gland featuring "CROCLOCK" <sup>®</sup> , single orientation clamping
<b>O</b>	Outer Sheath Seal Only
<b>1</b>	Neoprene Seal (1) - Silicone Seal (3)
<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 Type 4X & DTS01:991
<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]	Inner Sheath [C] Max	Cable Acceptance Details				Nominal Protrusion Length [L]	Dimensions/Weight (Metric Versions)			Shroud Size (Metric)	
	Metric	NPT			Outer Sheath [D]		Reduced [D]			Armour Acceptance Range	Across Flats [A]	Across Corners		Weight (Kgs)
16	M20 x 1.5	1/2" or 3/4"	16	11.7	8.4	13.5	6.7	10.3	0.15-125				78	
20S	M20 x 1.5	1/2" or 3/4"	16	11.7	11.5	16.0	9.4	12.5	0.15-125	78	25.4	28.0	0.173	EL24*
20	M20 x 1.5	1/2" or 3/4"	16	14.0	15.5	21.1	12.0	17.6	0.15-125	78	30.0	33.0	0.232	EL30
25	M25 x 1.5	3/4" or 1"	16	20.0	20.3	27.4	16.8	23.9	0.15-160	90	37.6	41.4	0.415	EL38
32	M32 x 1.5	1" or 1 1/4"	16	26.3	26.7	34.0	23.2	30.5	0.15-200	105	46.0	50.6	0.771	EL46
40	M40 x 1.5	1 1/4" or 1 1/2"	16	32.2	33.0	40.6	28.6	36.2	0.20-200	113	55.0	60.5	1.091	EL55
50S	M50 x 1.5	1 1/2" or 2"	16	38.2	39.4	46.7	34.8	42.4	0.20-250	125	65.0	71.5	1.251	EL65
50H	M50 x 1.5	1 1/2" or 2"	16	38.2	45.7	53.2	41.1	48.5	0.20-250	125	65.0	71.5	1.397	EL65
50	M50 x 1.5	2"	16	44.1	45.7	53.2	41.1	48.5	0.30-250	125	65.0	71.5	1.397	EL65
63S	M63 x 1.5	2" or 2 1/2"	19	50.1	52.1	59.5	47.5	54.8	0.30-250	125	80.0	88.0	2.545	EL80
63H	M63 x 1.5	2" or 2 1/2"	19	50.1	58.4	65.8	53.8	61.2	0.30-250	125	80.0	88.0	2.545	EL80
63	M63 x 1.5	2 1/2"	19	56.0	58.4	65.8	53.8	61.2	0.30-250	125	80.0	88.0	2.100	EL80
75S	M75 x 1.5	2 1/2" or 3"	19	62.0	64.8	72.2	60.2	68.0	0.30-250	131	90.0	99.0	2.909	EL90
75H	M75 x 1.5	2 1/2" or 3"	19	62.0	71.1	78.0	66.5	73.4	0.30-250	131	90.0	99.0	2.909	EL90
75	M75 x 1.5	3"	19	68.0	71.1	78.0	66.5	73.4	0.30-250	131	90.0	99.0	2.310	EL90
80	M80 x 2.0	3" or 3 1/2"	25	72.0	77.0	84.0	71.9	79.4	0.45-315	170	90.0	115.2	4.944	EL104
85	M85 x 2.0	3" or 3 1/2"	25	78.0	79.6	90.0	75.0	85.4	0.45-315	170	104.0	115.2	4.064	EL104
90	M90 x 2.0	3 1/2" or 4"	25	84.0	88.0	96.0	82.0	91.4	0.45-315	170	114.0	125.7	5.121	EL114
100	M100 x 2.0	3 1/2" or 4"	25	90.0	92.0	102.0	87.4	97.4	0.45-315	170	114.0	125.7	4.356	EL114

### 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 and 20S when used with 3/4" NPT entry thread an EL30 shroud would be required.