



PRODUCT TYPE CR-O

Single Compression Gland for armoured cable featuring "CROCLOCK®"

Ex eb : Ex ta : IP66 Class I Div 2 : AEx e : AEx ta

PART NUMBERS:



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®", 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
UL514B, UL1203, UL2225, UL50E, ANSI/UL 60079-0/7, ISA 60079-31

CERTIFICATION:

ATEX	II 1D 2G Ex eb IIC Gb / Ex ta IIIC Da
IECEX	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 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 1Ex e IIC Gb X / Ex ta IIIC Da X
EAC	Ex eb IIC Gb / Ex ta IIIC Da
INMETRO - Brazil	Ex e IIC Gb / Ex tD A20
CCC - China	II 2G Ex eb IIC Gb / II 1D Ex ta IIIC Da
UKRAINE	Ex eb IIC Gb / Ex ta IIIC Da
CCoE - India	Ex e IIC
KCS - Korea	Specified ABS Rules
ABS	Ex eb IIC Gb / Ex ta IIIC Da
LLOYD'S	Ex e IC / Ex e IIC / Ex ta IIIC
RS - Russia	

CERTIFICATION No:

ATEX	CML 19ATEX1348X
IECEX	IECEX CML 19.0106X
CEC - Canada	CSA 1356011
NEC - USA	CSA 2627370
EAC	RU C-GB.BH02.B.00693-18
INMETRO - Brazil	NCC 13.2185 X
CCC - China	2021312313000409
UKRAINE	CLJ 18.0326 X
CCoE - India	PESO P494321/8
KCS - Korea	15-GA4BO-0671X
ABS	20-LD1944057-PDA
LLOYD'S	LR2124442TA
RS - Russia	19.00189.278

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

CR	Gland featuring "CROCLOCK®", single orientation clamping
O	Outer Sheath Seal Only
1	Neoprene Seal (1) - Silicone Seal (3)
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	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 Type 4X & DTSO1:1991
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					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)	
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	25.4	28.0	0.177	EL24*
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 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.