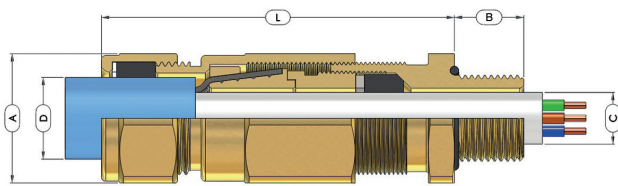




PRODUCT TYPE CR



REFERENCE NUMBER: 1.1.0

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

OPTIONS	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)
	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

CABLE GLAND SELECTION TABLE
(ALL DIMENSIONS IN mm)

Gland size	Entry Thread Size		Metric Thread Length [B]	Cable Acceptance Details						Armour Acceptance Range	Nominal Protusion Length [L]	Dimensions/Weight (Metric Versions)			Shroud Size
				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	0.10-1.25	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	0.10-1.25	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	0.10-1.25	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	0.10-1.25	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	0.10-1.60	90	37.6	41.4	0.416	EL38
32	M32 x 1.5	1" or 1 1/4"	16	19.5	26.3	26.7	34.0	23.2	30.5	0.10-2.00	105	46.0	50.6	0.772	EL46
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	0.10-2.00	113	55.0	60.5	1.093	EL55
50S	M50 x 1.5	1 1/2" or 2"	16	28.1	38.2	39.4	46.7	34.8	42.4	0.10-2.50	125	65.0	71.5	1.255	EL65
50H	M50 x 1.5	1 1/2" or 2"	16	28.1	38.2	45.7	53.2	41.1	48.5	0.10-2.50	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	0.10-2.50	125	65.0	71.5	1.400	EL65
63S	M63 x 1.5	2" or 2 1/2"	19	39.2	50.1	52.1	59.5	47.5	54.8	0.10-2.50	125	80.0	88.0	2.550	EL80
63H	M63 x 1.5	2" or 2 1/2"	19	39.2	50.1	58.4	65.8	53.8	61.2	0.10-2.50	125	80.0	88.0	2.478	EL80
63	M63 x 1.5	2 1/2"	19	46.7	56.0	58.4	65.8	53.8	61.2	0.10-2.50	125	80.0	88.0	2.104	EL80
75S	M75 x 1.5	2 1/2" or 3"	19	52.1	62.0	64.8	72.2	60.2	68.0	0.10-2.50	131	90.0	99.0	2.916	EL90
75H	M75 x 1.5	2 1/2" or 3"	19	52.1	62.0	71.1	78.0	66.5	73.4	0.10-2.50	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	0.10-2.50	131	90.0	99.0	2.315	EL90
80	M80 x 2.0	3" or 3 1/2"	25	62.2	72.0	77.0	84.0	71.9	79.4	0.10-3.15	170	90.0	115.2	4.953	EL104
80H	M80 x 2.0	3" or 3 1/2"	25	62.2	72.0	79.6	90.0	75.0	85.4	0.10-3.15	170	104.0	115.2	4.740	EL104
85	M85 x 2.0	3" or 3 1/2"	25	69.0	78.0	79.6	90.0	75.0	85.4	0.10-3.15	170	104.0	115.2	4.070	EL104
90	M90 x 2.0	3 1/2" or 4"	25	74.0	84.0	88.0	96.0	82.0	91.4	0.10-3.15	170	114.0	125.7	5.129	EL114
90H	M90 x 2.0	3 1/2" or 4"	25	74.0	84.0	92.0	102.0	87.4	97.4	0.10-3.15	170	114.0	125.7	4.867	EL114
100	M100 x 2.0	3 1/2" or 4"	25	82.0	90.0	92.0	102.0	87.4	97.4	0.10-3.15	170	114.0	125.7	4.362	EL114
110	M110 x 2.0	4"	25	92.0	102.0	104.0	117.0	-	-	0.10-3.15	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 cable glands 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.

Double Compression Gland for Armoured Cable featuring "CROCLOCK®"

Ex d : Ex e : 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 d, Increased Safety Ex e, 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 Class I Zone 1 & Class 1 Div 2 installations for use with Marine Shipboard & Tray Cables under NEC & CEC. They provide a controlled Ex d & 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.

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 d IIC Gb / Ex e IIC Gb / Ex ta IIC Da II 3G Ex nR IIC Gc
IECEx	Ex d IIC Gb / Ex e IIC Gb / Ex ta IIC Da
CEC - Canada	Class I Zone 1 Ex d IIC / Ex e II Class I Division 2, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X
NEC - USA	Class I Zone 1 AEx e IIC Gb / Class II Zone 20 AEx ta IIC Da Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X Exd IICU / Exe IIU / ExnR IIU
EAC	Ex d IIC Gb / Ex e IIC Gb / Ex ta IIC Da / Ex nR IIC Gc
INMETRO - Brazil	Ex d IIC / Ex e IIC
SAC - China	Ex d IIC X / Ex e II X
UKRAINE	Petroleum Rules 2002 (PESO)
CcOE - India	Ex d IIC / Ex e IIC
KCS-Korea	Specified ABS Rules
ABS	Enclosure Systems (Part 1B)
LLOYD'S	Part XI of RS Rules for the classification & construction of sea-going ships (ed. 2014)
RMRS	

CERTIFICATION No:

ATEX	BAS 01ATEX2271X & SIRA 09ATEX1221X
IECEx	IECEx SIR 07.0099X
CEC - Canada	CSA 1356011
NEC - USA	CSA 2627370
EAC	RU C-GB.1506.B.00098
INMETRO - Brazil	NCC 13.2185 X
SAC - China	NEPSI GYJ16.1402X
UKRAINE	UA.TR.047.C.0408-13 & 2937
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