Peppers Cable Glands Limited

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Cable Gland: Type CR-1

Including type No's:

С	R	*	*	*
		1	В	R
		2	S	
		3		

С	R	D	*	*
			3	В
				S

C R O * * * * 3 B R S						
	С	R	0	*	*	*
S				3	В	R
					S	





Croclock CR-1 type glands provide a seal on the inner sheath, a seal on the outer sheath and a universal armour clamp for steel wire, steel tape, screened or braided cable. The armour clamp provides an electrical bond between the cable armour and the gland. CR-1 can also be used to terminate unarmoured or lead sheathed cables. CR-1 type glands maintain Flameproof Exd and Increased Safety Exe methods of explosion protection, IP66, IP68 to 25 metres and is deluge resistant. An integral 'O' ring entry thread seal is fitted to metric versions as standard.

COMPLIANCE **STANDARD**

EN 60079-0, EN 60079-1, EN 60079-7, EN 61241-0, EN 61241-1, IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0 & IEC 61241-1

CERTIFICATION



CERTIFICATE

BAS01ATEX2271X - Ex Notified Body No. 0518 РОСС GB МЛ14.B00030 IECEx SIR 07.0099X NEPSI GYJ06189X

CSA 1356011

GLAND MARKING (EXAMPLE)

Peppers GU15 3BT UK CA CR-1B/20/M20 IEC Ex SIR 07.0099X Exd IIC/Exe II/Ex tD A21 IP68 МЛ14 BAS 01ATEX2271X Ex II 2 GD EExd IIC/EExe II

APPLICATION

EExd Equipment

CR-1B type glands will only maintain Flameproof Exd integrity when used with cable that is substantially round and compact with extruded bedding. The cable shall be deemed to be effectively filled. Ref: IEC60079-14:2002 Section 10.4.2

Gas Group Internal Ignition Source Enclosure Volume Which Zone Use Type CR-1B Gland IIC, IIB, IIA NO Zone 1 or 2 YES Anv IIB, IIA YFS Any 7one 2 YFS YES YES IIB, IIA 2 litres or less Zone 1 Other Equipment

EExe Equipment

Gas Group II, Zones 1 and 2 Ignitable Dust, Zones 21 and 22

INGRESS **PROTECTION** IP66 and IP68 @ 25 metres, Enclosure Type 4X, BS EN 60529 & IEC 529 Meets the requirements of DTS01 1991

MATERIALS

Brass CZ121 (CR-*B)

316 Stainless Steel (CR-*S)

Inner & outer sheath material: Standard (CR-1) Neoprene, black. Option (CR-3) Silicone, white.

Reduced bore outer sheath seal (R) Silicone, red. (CR-**R)

Entry thread seal: Nitrile is supplied with neoprene seal version. Silicone is supplied with silicone seal version

VARIATIONS

For Lead Sheath Cables the gland is fitted with a metallic continuity washer:

Brass (CR-2B); 316 Stainless Steel (CR-2S)

Omission of outer seal: Brass (CR-DB); Stainless Steel (CR-DS)

Omission of inner seal [Exe Only]: Brass (CR-OB); Stainless Steel (CR-OS)

OPTIONS

THREADS ISO Metric; NPT; NPS; ISO Pipe Thread (BSP Taper, BSP Parallel); PG

SEALS

Extended operating temperature -60°C to +180°C, halogen free versions:

Brass (CR-3B); 316 Stainless Steel (CR-3S)

PLATING

Zinc (ZP); Nickel (NP); Tin (TP); Electroless Nickel (EN)

OPERATING Standard Seals -20°C to +85°C **TEMPERATURES**

Silicone Seals -60°C to +180°C

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ACCESSORIES

Locknut - Brass (ACBLN); 316 Stainless Steel (ACSLN) Earth Tag - Brass (ACBET), 316 Stainless Steel (ACSET)

IP Washer - Nylon (ACNSW); Red Fibre (ACFSW)

Serrated Lock Washer - 316 Stainless Steel (ACSSW), Galvanised Steel (ACGSW)

Shroud - PVC (ACSPVC)

Gland and accessory kits:

K1 - includes gland, locknut, earthtag, integral IP 'O' ring and PVC shroud

Note: Glands with non metric threads are supplied with flat IP washers.

EXAMPLE PART NUMBER

Sample: CR-1B R K1/ZP/20S/M20

CR-1:

CR-* Gland type

**1 - Seal material (Neoprene) В - Body material (Brass) R - Reduced bore outer seal

K1 - Supplied complete with accessories (PVC Shroud)

ZΡ - Zinc plating

20s - Gland size with regards to cable acceptance range

M20 - Entry thread

Gland	Entry Threads		Entry	Max	Max Max Across Protrusion Corners Length	Gland Seal Range					Armour	Shroud	
Size			Thread Length			Cable Inner Sheath [C]		Cable Outer Sheath [D]			Acceptance	Size	
			Length	Comers				Standard		Reduced (R)		Range	
						Min	Max	Min	Max	Min	Max		
	Metric	NPT/BSP	[B]	[A]									
16	M20	¹ /2" or ³ /4"	16	28.0	78.0	3.4	8.4	9.0	13.5	6.7	10.3	0.15 - 1.25	L24
20s	M20	1/2" or 3/4"	16	28.0	78.0	7.2	11.7	12.9	16.0	9.4	12.5	0.15 - 1.25	L24
20	M20	1/2" or 3/4"	16	33.0	78.0	9.4	14.0	15.5	21.1	12.0	17.6	0.15 - 1.25	EL30
25	M25	³ / ₄ " or 1"	16	41.4	90.0	13.5	20.0	20.3	27.4	16.8	23.9	0.15 - 1.60	EL38
32	M32	1" or 1 ¹ / ₄ "	16	50.6	105.0	19.5	26.3	26.7	34.0	23.2	30.5	0.15 - 2.00	EL46
40	M40	1 ¹ / ₄ " or 1 ¹ / ₂ "	16	60.5	113.0	23.0	32.2	33.0	40.6	28.6	36.2	0.20 - 2.00	EL55
50s	M50	1 ¹ /2" or 2"	16	71.5	125.0	28.1	38.2	39.4	46.7	34.8	42.4	0.30 - 2.50	EL65
50	M50	2"	16	71.5	125.0	33.1	44.1	45.7	53.2	41.1	48.5	0.30 - 2.50	EL65
63s	M63	2" or 21/2"	19	88.0	125.0	39.2	50.1	52.1	59.5	47.5	54.8	0.30 - 2.50	EL80
63	M63	21/2"	19	88.0	125.0	46.7	56.0	58.4	65.8	53.8	61.2	0.30 - 2.50	EL80
75s	M75	2 ¹ /2" or 3"	19	99.0	131.0	52.1	62.0	64.8	72.2	60.2	68.0	0.30 - 2.50	EL90
75	M75	3"	19	99.0	131.0	58.0	68.0	71.1	78.0	66.5	73.4	0.30 - 2.50	EL90
80	M80 x 2	3" or 3½"	25	115.2	170.0	62.2	72.0	77.0	84.0	-	-	0.45 - 3.15	L104
80H	M80 x 2	3" or 3½"	25	115.2	170.0	62.2	72.0	79.6	90.0	-	-	0.45 - 3.15	L104
85	M85 x 2	3" or 31/2"	25	115.2	170.0	69.0	78.0	79.6	90.0	75.0	85.4	0.45 - 3.15	L104
90	M90 x 2	31/2" or 4"	25	125.7	170.0	74.0	84.0	88.0	96.0	-	-	0.45 - 3.15	L114
90H	M90 x 2	31/2" or 4"	25	125.7	170.0	74.0	84.0	92.0	102.0	-	-	0.45 - 3.15	L114
100	M100 x 2	3 ¹ / ₂ " or 4"	25	125.7	170.0	82.0	90.0	92.0	102.0	87.4	97.4	0.45 - 3.15	L114

All Dimensions are in mm

NOTES:

- Gland Size does not necessarily equate to the entry thread size
- Integral entry thread seal option is not available for glands with tapered entry threads. IP washers can be supplied if required
- Please note that dimensions (A) and (B) may differ for glands with non-Metric entry threads. Please refer to our thread data tables for specific dimensions
- Unless otherwise stated ISO Metric entry threads have a 1.5mm pitch
- For Flameproof Exd applications the female thread into which the gland is to be fitted must comply with clause 5.3 of EN 50018:2000 (clause 5.3 IEC 79-1) and an engagement of at least 5 full threads must be achieved for parallel threads and should be achieved for tapered threads
- Where CR-1 type glands are fitted into non-metallic Increased Safety Exe enclosures they must be included within the earth circuit of the system
- The user should seek expert advice if intending to combine flammable gases and combustible dusts in one environment/ installation
- Full assembly instructions are supplied with glands, the instructions must be read prior to installation and adhered to in full
- When used to terminate unarmoured cable, the gland is suitable only for fixed installations. The cable must be clamped near the gland to prevent pulling and twisting.
- In order to maintain an IP rating greater than IP54, when used in a clearance hole, a suitable IP washer is required.
- Peppers supplies cable glands with parallel entry threads which conform to the flameproof threaded joint requirements of IEC 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 will not be held responsible for clients' installations ibemer Karakhasanot @2030 ta Republic of Gazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex

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