Peppers Cable Glands Limited

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Cable Gland: - Type A2LF

Including type No's:

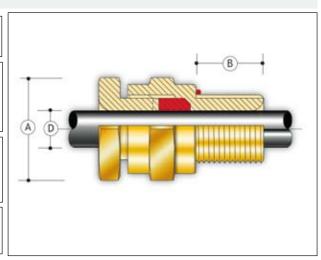
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A2LF type glands provide a single pull resistant seal on the outer sheath of any cable. A2LF type glands maintain Flameproof Exd and Increased Safety Exe methods of explosion protection, IP66 & IP68 to 25 metres. An integral 'O' ring entry thread seal 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	ATEX II 2 GD, E Exd IIC / E Exe II GOST R-Exd IIC/Exe II CSA Exd IIC/Exe II 4X IECEX Exd IIC / Exe II AND REPSI Exd IIC / Exe II			
CERTIFICATE	SIRA 01ATEX1272X - Ex Notified Body No. 0518 POCC GB ΜЛ14.B00030 CSA 1356011 IECEX SIR 07.0096X NEPSI GYJ06186X			
GLAND MARKING	МЛ14 Peppers GU15 3BT UK A2I F/20/M20			



APPLICATION

(EXAMPLE)

EExd Equipment

A2LF 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 A2LF Gland
IIC, IIB, IIA	NO	2 litres or less	Zone 1 or 2	YES
IIB, IIA	YES	Any	Zone 2	YES
IIB, IIA	YES	2 litres or less	Zone 1	YES

EExe Equipment Other Equipment

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

INGRESS
PROTECTION
PROTECTION

IP66 and IP68 @ 25 metres, Enclosure Type 4X

CA Sira 01ATEX1272X Ex II 2 GD EExd IIC/EExe II IEC Ex SIR 07.0096X Exd IIC/Exe II/Ex tD A21 IP68

MATERIALS

Brass CZ121 (A2LF)

316 Stainless Steel (A2LSF) Aluminium Alloy (A2LAF)

Outer sheath seal material:

Standard (A2L) Neoprene, black. Option (A3L) Silicone, white.

Integral entry thread seal: Nitrile is supplied with neoprene outer seal version. Silicone is supplied with silicone outer seal version

VARIATIONS

For lead sheath cables the gland is fitted with a metallic continuity washer:

Brass (A4LF); 316 Stainless Steel (A4LSF)

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 (A3LF); 316 Stainless Steel (A3LSF)

PLATING

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

Standard Seals -20°C to +85°C Silicone Seals -60°C to +180°C

OPERATING TEMPERATURES

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ACCESSORIES

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

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

Serrated Lock Washer - 316 Stainless Steel (ACSSW), Galvanised Steel (ACGSW) Shroud - PVC (ACSPVC); PCP (ACSPCP); Low Smoke Zero Halogen (ACSSIO)

Gland and accessory kits:

CK1 - includes gland, locknut, integral IP 'O' ring and PVC shroud K1 - includes gland, locknut, integral IP 'O' ring and PCP shroud

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

EXAMPLE PART NUMBER

Sample: A2LF CK1/ZP/20S/M20

A2LF:

A*LF - Gland type and body material (Brass)

*2** - Seal material (Neoprene)

CK1 - Supplied complete with accessories (PVC Shroud)

ZP - Zinc plating

20s - Gland size with regards to cable acceptance range

M20 - Entry thread

Gland Size	Entry Threads		Entry Thread Length [B]	Max Across Corners [A]	Max Protrusion Length	Gland Seal Range Cable Outer/Lead Sheath		Shroud Size
						Min	Max	
	Metric	NPT/BSP						
16	M20	¹ /2" or ³ /4"	16	28.0	33.0	4.0	8.4	L24
20s	M20	1/2" or 3/4"	16	28.0	33.0	7.2	11.7	L24
20	M20	¹ /2" or ³ /4"	16	33.0	33.0	9.6	14.0	L30
25	M25	3/4" or 1"	16	41.4	33.0	13.5	20.0	L38
32	M32	1" or 1 ¹ / ₄ "	16	50.6	33.0	19.5	26.3	L46
40	M40	11/4" or 1 ¹ / ₂ "	16	60.5	37.0	23.0	32.2	L55
50s	M50	1 ¹ /2" or 2"	16	71.5	37.0	28.2	38.2	L65
50	M50	2"	16	71.5	37.0	33.2	44.1	L65
63s	M63	2" or 2 ¹ / ₂ "	19	88.0	37.0	39.3	50.1	L80
63	M63	21/2"	19	88.0	37.0	46.7	56.0	L80
75s	M75	2 ¹ /2" or 3"	19	99.0	37.0	52.3	62.0	L90
75	M75	3"	19	99.0	37.0	58.1	68.0	L90
80	M80 x 2	3" or 3 ¹ / ₂ "	25	115.2	50.0	62.3	72.0	L104
85	M85 x 2	3" or 31/2"	25	115.2	50.0	69.1	78.0	L104
90	M90 x 2	3 ¹ /2" or 4"	25	125.7	50.0	74.1	84.0	L114
100	M100 x 2	31/2" or 4"	25	125.7	50.0	82.0	90.0	L114

All Dimensions are in Millimetres

NOTES:

- Suitable only for fixed installations. The cable must be clamped near the gland to prevent pulling and twisting
- 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 A2LF 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

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