Peppers Cable Glands Limited

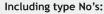
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Cable Gland: Type A2LCMF and A2LCFF

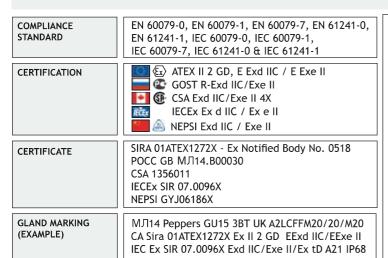


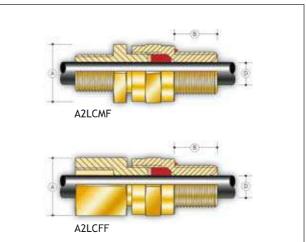
Α	*	L	С	*	*	F
	2			F	S	
	3			М	Α	





A2LCMF and A2LCFF type glands provide a seal on the outer sheath of unarmoured cable and a conduit connection thread. A2LCMF type glands provide a male thread for connection and A2LCFF type glands provide a female thread for connection. A2LCMF and A2LCFF type glands maintain Flameproof Exd and Increased Safety Exe methods of explosion protection and IP66, IP68 to 25 metres. An 'O' ring IP entry thread seal is fitted as standard.





APPLICATION

EExd Equipment

A2L**F 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 A2L**F Gla
IIC, IIB, IIA	NO	Any	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

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

INGRESS
PROTECTION

IP66 and IP68 @ 25 metres, Enclosure Type 4X

MATERIALS

Brass CZ121 (A2L**F) 316 Stainless Steel (A2L**SF) Aluminium Alloy (A2L**AF)

Outer sheath seal material:

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

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

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 (A3L**F); 316 Stainless Steel (A3L**SF)

PLATING

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

OPERATING

TEMPERATURES

Standard Seals -20°C to +85°C

Silicone Seals - 60°C to +180°C

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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)



EXAMPLE PART NUMBER

Sample: A2LCFF M20/ZP/20S/M20

A2LCFF:

A*LCFF - Gland type (Female conection thread) and body material (Brass)

*2**** - Seal material (Neoprene)

M20 - Female connection thread

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]	Gland Seal Range Cable Outer Sheath [D]		Conduit Connector	
					Min	Max		
	Metric	NPT/BSP					NPT	ISO
16	M20	¹ /2" or ³ /4"	16	28.0	4.0	8.4	¹ /2" or ³ /4"	M20
20s	M20	1/2" or 3/4"	16	28.0	7.2	11.7	¹ /2" or ³ /4"	M20
20	M20	1/2" or 3/4"	16	33.0	9.6	14.0	¹ /2" or ³ /4"	M20
25	M25	³ / ₄ " or 1"	16	41.4	13.5	20.0	³ /4" or 1"	M25
32	M32	1" or 1 ¹ / ₄ "	16	50.6	19.5	26.3	1" or 1 ¹ / ₄ "	M32
40	M40	1 ¹ / ₄ " or 1 ¹ / ₂ "	16	60.5	23.0	32.2	1 ¹ / ₄ " or 1 ¹ / ₂ "	M40
50s	M50	1 ¹ / ₂ " or 2"	16	71.5	28.2	38.2	1 ¹ /2" or 2"	M50
50	M50	2"	16	71.5	33.2	44.1	2"	M50
63s	M63	2" or 21/2"	19	88.0	39.3	50.1	2" or 2 ¹ / ₂ "	M63
63	M63	21/2"	19	88.0	46.7	56.0	21/2"	M63
75s	M75	2 ¹ / ₂ " or 3"	19	99.0	52.3	62.0	2 ¹ /2" or 3"	M75
75	M75	3"	19	99.0	58.1	68.0	3"	M75

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
- Other conduit connection threads eg PG, BSP are available upon request
- 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 where this has not been taken into account.

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