

# Peppers Cable Glands Limited

Stanhope Road, Camberley, Surrey, GU15 3BT United Kingdom  
 Telephone: +44 (0) 1276 64232  
 Facsimile: +44 (0) 1276 691752  
 Email: sales@peppers.co.uk



## Cable Gland:- Type A2LDSF



Part of our ATEX Gland Range  
 2006 Catalogue Page 2.2.0

A2LDSF type glands provide two pull resistant seals on the outer sheath of any cable. A2LDSF type glands maintain Flameproof Exd and Increased Safety Exe methods of explosion protection and IP66, IP68 to 25 metres. An integral 'O' ring entry thread seal is fitted to metric versions as standard.

DESIGN STANDARD	EN50014:1998, EN50018:2000, EN50019:2000 and EN 50281-1-1:1998																					
CERTIFICATION	ATEX II 2 GD, E Exd IIC / E Exe II GOST R-Exd IICU/Exe IIU CSA Exd IIC/Exe II 4X, Class 1, Zone 1 IECEX Ex d IIC / Ex e II NEPSI Exd IIC / Exe II																					
CERTIFICATE	SIRA 01ATEX1272X - Ex Notified Body No. 0518 POCC GB 05.B00482 CSA 1356011 IECEX SIR 05.0020X NEPSI GYJ06186X																					
GLAND MARKING	CENELEC and ATEX Example: Peppers GU15 3BT UK A2LDSF SIZE/THREAD XX SIRA 01ATEX1272X  II 2GD IP68 EExdIIC / EExe II (XX = Year Code)																					
APPLICATION	<b>EExd Equipment</b> A2LDSF 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 <table border="1"> <thead> <tr> <th>Gas Group</th> <th>Internal Ignition Source</th> <th>Enclosure Volume</th> <th>Which Zone</th> <th>Use A2LDSF Gland</th> </tr> </thead> <tbody> <tr> <td>IIC, IIB, IIA</td> <td>NO</td> <td>Any</td> <td>Zone 1 or 2</td> <td>YES</td> </tr> <tr> <td>IIB, IIA</td> <td>YES</td> <td>Any</td> <td>Zone 2</td> <td>YES</td> </tr> <tr> <td>IIB, IIA</td> <td>YES</td> <td>2 litres or less</td> <td>Zone 1</td> <td>YES</td> </tr> </tbody> </table> <b>EExe Equipment</b> Gas Group II, Zones 1 and 2			Gas Group	Internal Ignition Source	Enclosure Volume	Which Zone	Use A2LDSF Gland	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
Gas Group	Internal Ignition Source	Enclosure Volume	Which Zone	Use A2LDSF Gland																		
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																		
INGRESS PROTECTION	IP66 and IP68 @ 25 metres, Enclosure Type 4X																					
MATERIALS	Brass CZ121 (A2LDSF) 316 Stainless Steel (A2LDSSF) Aluminium Alloy (A2LDSAF)  Outer sheath seal material: Standard (A2LDSF) Neoprene, black. Option (A3LDSF) 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 (A4LDSF); 316 Stainless Steel (A4LDSSF)																					
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 (A3LDSF); 316 Stainless Steel (A3LDSSF); Aluminium (A3LDSAF)																				
	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																					

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)
EXAMPLE PART NUMBER	Sample: A2LDSF /ZP/20S/M20 <b>A2LDSF:</b> A*LDSF - Gland type and body material (Brass) *2**** - Seal material (Neoprene) 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		Shroud Size
	Metric	NPT/BSP				Cable Outer Sheath [D]		
						Min	Max	
16	M20	1/2" or 3/4"	16	28.0	66.0	4.0	8.4	L24
20s	M20	1/2" or 3/4"	16	28.0	66.0	7.2	11.7	L24
20	M20	1/2" or 3/4"	16	29.7	66.0	9.6	14.0	L27
25	M25	3/4" or 1"	16	39.6	66.0	13.5	20.0	L36
32	M32	1" or 1 1/4"	16	45.1	66.0	19.5	26.3	L41
40	M40	1 1/4" or 1 1/2"	16	55.9	74.0	23.0	32.2	L51
50s	M50	1 1/2" or 2"	16	71.5	74.0	28.2	38.2	L65
50	M50	2"	16	71.5	74.0	33.2	44.1	L65
63s	M63	2" or 2 1/2"	19	88.0	74.0	39.3	50.1	L80
63	M63	2 1/2"	19	88.0	74.0	46.7	56.0	L80
75s	M75	2 1/2" or 3"	19	99.0	74.0	52.3	62.0	L90
75	M75	3"	19	99.0	74.0	58.1	68.0	L90
80	M80 x 2	3" or 3 1/2"	25	115.2	100.0	62.3	72.0	L104
85	M85 x 2	3" or 3 1/2"	25	115.2	100.0	69.1	78.0	L104
90	M90 x 2	3 1/2" or 4"	25	125.7	100.0	74.1	84.0	L114
100	M100 x 2	3 1/2" or 4"	25	125.7	100.0	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

<http://www.cableglands.com>