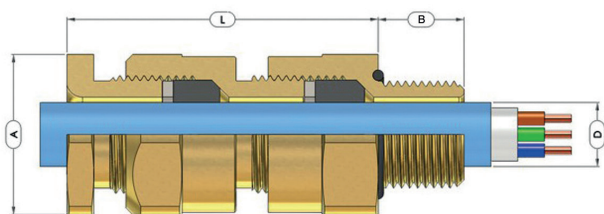




# PRODUCT TYPE A\*LDS

## Double Compression Gland designed for use with Unarmoured Cable

Ex d : Ex e : Ex nR : Ex ta : IP66 : IP68 : Class I Div 2 : AEx e : AEx ta



REFERENCE NUMBER: 2.2.0

EXAMPLE PART NUMBERING:  
A2LDSBF/NP/20/M20

<b>A</b>	Gland featuring controlled displacement sealing
<b>2</b>	Neoprene Seals (2) - Silicone Seals (3) - Neoprene/Lead (1) - Silicone/Lead (4)
<b>L</b>	Peppers Standard Designation
<b>DS</b>	Double Sealing
<b>B</b>	Aluminium (A) / Brass (B) / Stainless Steel (S)
<b>F</b>	Multiple Certification
<b>C</b>	PVC Shroud (C) - PCP Shroud (P) - LSOH Silicone Shroud (3)
<b>K-V-H</b>	Locknut & Nylon (K), Fibre (V) or PTFE (H) IP Washer
<b>T</b>	Including Earth Tag
<b>S</b>	Including Serrated Washer
<b>1</b>	Quantity per kit
<b>NP</b>	Nickel Plated
<b>20</b>	Gland shell size
<b>M20</b>	M20 x 1.5mm Male Entry Thread

OPTIONAL ACCESSORIES:

<b>LOCKNUT</b>	Brass (ACBLN) / St Steel (ACSLN) / Aluminium (ACALN)
<b>EARTH TAG</b>	Brass (ACBET) / St Steel (ACSET) / Aluminium (ACAET)
<b>IP WASHERS</b>	Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW)
<b>SERRATED WASHERS</b>	Stainless Steel (ACSSW)
<b>SHROUDS</b>	PVC (ACSPVC) / PCP (ACSPCP) / LSOH Silicone (ACSSIO)

<b>IP RATING:</b>	IP66 & IP68 (50 metres - 7 Days), Type 4X
<b>OPERATING TEMP:</b>	Neoprene Seals -35°C to +90°C / Silicone Seals -60°C to +180°C
<b>MATERIALS:</b>	Aluminium, Brass or Stainless Steel
<b>PLATING:</b>	Electroless Nickel

### PART NUMBERS:

A	1	L	DS	B	F
	2			S	
	3			A	
	4				



### PRODUCT DESCRIPTION

"A\*LDS" 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. Commonly referred to as "double seal stuffing glands", they provide two controlled pull resistant environmental displacement seals on the cable outer sheath, minimising damage to cables that exhibit "cold flow" characteristics. The gland maintains IP66 & IP68 to 50 metres. It is supplied with an IP O-ring seal as standard on metric entry threads. Options are available for use with 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:

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

CERTIFICATION No:

<b>ATEX</b>	SIRA 01ATEX1272X & SIRA 09ATEX1221X
<b>IECEX</b>	IECEX SIR 07.0096X
<b>CEC - Canada</b>	CSA 1356011
<b>NEC - USA</b>	CSA 2627370
<b>EAC</b>	RU C-GB.Г506.В.00098
<b>INMETRO - Brazil</b>	NCC 13.2012 X
<b>SAC - China</b>	NEPSI GYJ16.1399X
<b>UKRAINE</b>	UA.TR.047.C.0408-13 & 2937
<b>CCoE - India</b>	PESO P365300/2 & P365300/5
<b>ABS</b>	14-LD463991-1-PDA
<b>LLOYD'S</b>	10/00056(E1)
<b>RMRS</b>	14.02755.315

CABLE GLAND SELECTION TABLE  
(ALL DIMENSIONS IN mm)

Gland Size	Entry Thread Size		Metric Thread Length [B]	Cable Acceptance Details Outer Sheath [D]		Nominal Protrusion Length [L] Metric	Dimensions/Weight (Metric Versions)			Shroud Size
	Metric	NPT		Min	Max		Across Flats [A]	Across Corners	Weight Kgs	
12	M12 x 1.5	3/8"	16	0.9	6.0	33	19.0	21.0	0.064	L19
12	M16 x 1.5	3/8" or 1/2"	16	0.9	6.0	33	25.4	28.0	0.119	L24
16	M16 x 1.5	1/2" or 3/4"	16	4.0	8.4	48	25.4	28.0	0.133	L24
20S	M20 x 1.5	1/2" or 3/4"	16	7.2	11.7	48	25.4	28.0	0.209	L24
20	M20 x 1.5	1/2" or 3/4"	16	9.4	14.0	62	30.0	33.0	0.275	L30
25	M25 x 1.5	3/4" or 1"	16	13.5	20.0	62	37.6	41.4	0.408	L38
32	M32 x 1.5	1" or 1 1/4"	16	19.5	26.3	62	46.0	50.6	0.408	L46
40	M40 x 1.5	1 1/4" or 1 1/2"	16	23.0	32.2	68	55.0	60.5	0.666	L55
50S	M50 x 1.5	1 1/2" or 2"	16	28.1	38.2	68	65.0	71.5	0.896	L65
50	M50 x 1.5	2"	16	33.1	44.1	74	65.0	71.5	0.736	L65
63S	M63 x 1.5	2" or 2 1/2"	19	39.2	50.1	74	80.0	88.0	1.330	L80
63	M63 x 1.5	2 1/2"	19	46.7	56.0	74	80.0	88.0	1.114	L80
75S	M75 x 1.5	2 1/2" or 3"	19	52.1	62.0	74	90.0	99.0	1.493	L90
75	M75 x 1.5	3"	19	58.0	68.0	74	90.0	99.0	1.218	L90
80	M80 x 2.0	3" or 3 1/2"	25	62.2	72.0	87	104.0	115.2	2.322	L104
85	M85 x 2.0	3" or 3 1/2"	25	69.0	78.0	87	104.0	115.2	2.107	L104
90	M90 x 2.0	3 1/2" or 4"	25	74.0	84.0	88	114.0	125.7	2.539	L114
100	M100 x 2.0	3 1/2" or 4"	25	82.0	90.0	90	114.0	125.7	2.211	L114

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 supplies 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.