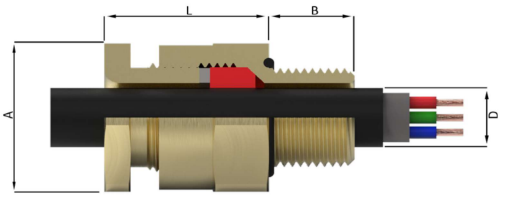
PRODUCT TYPE A

Single Seal Gland for Armoured and Unarmoured Cable

Ex db : Ex eb : Ex nR : Ex ta : IP66 : IP68 : Class I Zone 1 : AEx eb : AEx ta



EXAMPLE PART NUMBERING: A2LBF/NP/20/M20

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

OPTIONAL ACCESSORIES:

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

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

PRODUCT DESCRIPTION

"A" type glands are certified Flameproof Ex db, Increased Safety Ex eb, 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. Also certified for Zone and Division installations for use with Marine Shipboard and Tray Cables under the NEC and CEC. Commonly referred to as "stuffing glands", they provide a controlled pull resistant environmental displacement seal 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. The "A" version is designed to accommodate unarmoured and armoured cables where sealing and retention is required only on the outer sheath.

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 60079-0/1/7/31
UL514B, UL1203, UL2225, UL50E, ANSI/UL 60079-0/7, ISA 60079-31

CERTIFICATION:

UKEX	II 1D 2G Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da
	II 3G Ex nR IIC Gc
ATEX	II 1D 2G Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da
	II 3G Ex nR IIC Gc
IECEx	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
CEC - Canada	Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da
	Class II Group E, F & G
	Class III Type 4X
NEC - USA	Class I Zone 1 AEx eb IIC Gb / Zone 20 AEx ta IIIC Da
	Class II Group E, F & G
	Class III Type 4X
EAC	1Ex d IIC Gb X / 1Ex e IIC Gb X / 2Ex nR IIC Gc X / Ex ta IIIC Da X
INMETRO - Brazil	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
CCC - China	Ex d IIC Gb / Ex e IIC Gb / Ex nR IIC Gc / Ex tD A20
UKRAINE	II 2G Ex db IIC Gb / II 2G Ex eb IIC Gb / II 3G Ex nR IIC Gc / II 1D Ex ta IIIC Da
CCoE - India	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
ABS	Specified ABS Rules
LLOYD'S	Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da
RS - Russia	Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da

CERTIFICATION No:

UKEX	CML 21UKEX1032X & CML 21UKEX4043X
ATEX	CML 19ATEX1345X & CML 19ATEX4109X
IECEx	IECEx CML 19.0103X
CEC - Canada	CSA 1356011
NEC - USA	CSA 1356011
EAC	RU C-GB.BH02.B.00693-18
INMETRO - Brazil	NCC 13.2012 X
CCC - China	2021312313000408
UKRAINE	СЦ 18.0325 X
CCoE - India	PESO P494321/6 & P494321/13
ABS	20-LD1944057-PDA
LLOYD'S	LR2124442TA
RS - Russia	19.00189.278

CABLE GLAND SELECTION TABLE (ALL DIMENSIONS IN mm)

Gland size	Entry Thread Size		ISO Thread Length [B]	Cable Acceptance Details Outer Sheath [D]		Nominal Protrusion Length [L]	Dimensions/Weight (Metric Versions)			Shroud Size (Metric)
	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	0.038	L19
12*	M16 x 1.5	3/8" or 1/2"	16	0.9	6.0	33	25.4	28.0	0.068	L24
12*	M20 x 1.5	3/8" or 1/2"	16	0.9	6.0	33	25.4	28.0	0.082	L24
16	M16 x 1.5	3/8" or 1/2"	16	4.0	8.4	33	25.4	28.0	0.097	L24
16	M20 x 1.5	1/2" or 3/4"	16	4.0	8.4	33	25.4	28.0	0.104	L24**
20S	M20 x 1.5	1/2" or 3/4"	16	7.2	11.7	33	25.4	28.0	0.102	L24**
20	M20 x 1.5	1/2" or 3/4"	16	9.4	14.0	33	30.0	33.0	0.127	L30
25	M25 x 1.5	3/4" or 1"	16	13.5	20.0	33	37.6	41.4	0.166	L38
32	M32 x 1.5	1" or 1 ¼"	16	19.5	26.3	33	46.0	50.6	0.244	L46
40	M40 x 1.5	1 ¼" or 1 ½"	16	23.0	32.2	37	55.0	60.5	0.396	L55
50S	M50 x 1.5	1 ½" or 2"	16	28.1	38.2	37	65.0	71.5	0.558	L65
50	M50 x 1.5	2"	16	33.1	44.1	37	65.0	71.5	0.438	L65
63S	M63 x 1.5	2" or 2 ½"	19	39.2	50.1	37	80.0	88.0	0.832	L80
63	M63 x 1.5	2 ½"	19	46.7	56.0	37	80.0	88.0	0.664	L80
75S	M75 x 1.5	2 ½" or 3"	19	52.1	62.0	37	90.0	99.0	0.924	L90
75	M75 x 1.5	3"	19	58.0	68.0	37	90.0	99.0	0.714	L90
80	M80 x 2.0	3" or 3 ½"	25	62.2	72.0	50	104.0	115.2	1.514	L104
85	M85 x 2.0	3" or 3 ½"	25	69.0	78.0	50	104.0	115.2	1.332	L104
90	M90 x 2.0	3 ½" or 4"	25	74.0	84.0	50	114.0	125.7	1.622	L114
100	M100 x 2.0	3 ½" or 4"	25	82.0	90.0	50	114.0	125.7	1.523	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 canbe 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 supply products with parallel entry threads that conform to the flameproof threaded joint requirements of IEC/EN 60079-1 and other equivalent standards. We usually incorporate a thread run out according to general machining techniques and parts 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 UKEX, ATEX, IECEx and CSA is required, this must be clearly requested at time of enquiry / order.

* Gland sizes 12 not available in aluminium.

** For gland sizes 16 and 20S when used with 3/4" NPT entry thread an L30 shroud would be required.