

**Cable Gland Type A\*LCF - (Single Compression Gland with Female Thread for Conduit Connection)**

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

Part Numbers:

A	1	L	CF	B	F
	2			S	
	3			A	
	4				



"A\*LCF" 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. 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. The gland features a female conduit connection thread as standard.

**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, UL 1203, UL2225, UL50E  
ANSI/UL 60079-0/7, ISA 60079-31

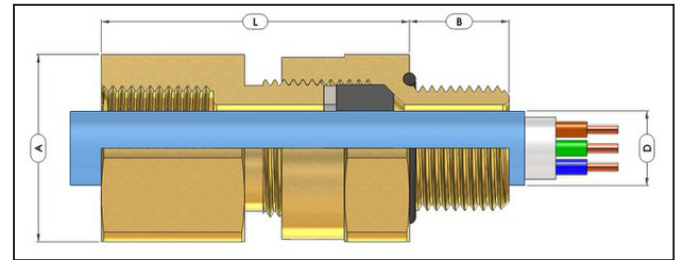
**Certification:** ATEX II 1D 2G Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da  
II 3G Ex nR IIC Gc  
IECEX Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da  
CEC - Canada Class I Zone 1 Ex d IIC / Ex e II  
(except size 12) Class I Division 2, Groups A, B, C & D  
Class II Division 1, Groups E, F & G  
Class III, Enclosure Type 4X  
NEC - USA 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  
EAC Exd IICU / Exe IIU / ExnR IIU  
INMETRO - Brazil Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc  
SAC - China Ex d IIC / Ex e IIC  
UKRAINE Ex d IIC X / Ex e II X  
CCoE - India Petroleum Rules 2002 (PESO)  
ABS Specified ABS Rules  
LLOYD'S Enclosure Systems (Part 1B)  
RMRS Part XI of RS Rules for the classification & construction of sea-going ships (ed. 2014)

**Certificate No.** ATEX SIR A 01ATEX1272X & SIR A 09ATEX1221X  
IECEX IECEX SIR 07.0096X  
CEC - Canada CSA 1356011  
NEC - USA CSA 2627370  
EAC RU C-GB.ГБ06.В.00098  
INMETRO - Brazil NCC 13.2012 X  
SAC - China NEPSI GYJ16.1399X  
UKRAINE UA.TR.047.C.0408-13 & 2937  
CCoE - India PESO P365300/2 & P365300/5  
ABS 14-LD463991-1-PDA  
LLOYD'S 10/00056(E1)  
RMRS 14.02755.315

**IP Rating:** IP66 & IP68 (50 metres - 7 Days), Type 4X

**Operating Temperature:** Neoprene Seals -35°C to +90°C / Silicone Seals -60°C to +180°C

**Materials:** Aluminium, Brass or Stainless Steel  
**Plating:** Electroless Nickel



**Example Part Numbering**  
(See below for details)

A2LCFBF050NPT/NP/20/M20

<b>A</b>	Gland featuring controlled displacement sealing
<b>L</b>	Neoprene Seal (2) - Silicone Seal (3) - Neoprene/Lead (1) - Silicone/Lead (4)
<b>2</b>	Peppers Standard Designation
<b>CF</b>	Female Conduit Connection Thread
<b>B</b>	Brass (B) / Stainless Steel (S) / Aluminium (A)
<b>F</b>	Multiple Certification
<b>050NPT</b>	1/2"NPT Female Conduit Connection Thread
<b>L</b>	Locknut (material dictated by gland entry thread material)
<b>N</b>	Including IP Washer, Nylon (N) - Fibre (V) - PTFE (H)
<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
<b>Optional Accessories</b>	Locknut Brass (ACBLN) / Stainless Steel (ACSLN) / Aluminium (ACALN)
	Earth tag Brass (ACBET) / Stainless Steel (ACSET) / Aluminium (ACAET)
	IP Washers Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW)
	Serrated Washers Stainless Steel (ACSSW)

**CABLE GLAND SELECTION TABLE**

Gland Size	Entry Thread Size		Metric Thread Length [B]	Conduit Connection Thread		Cable Acceptance Outer Sheath [D]		Nominal Protrusion Length [L] (Metric)	Dimensions/Weight (Metric Versions)		
	Metric	NPT		Metric	NPT	Min	Max		Across Flats [A]	Across Corners	Weight Kgs (Metric)
12	M12 x 1.5	3/8"	16	M12 x 1.5	3/8"	0.9	6.0	45	19.0	21.0	0.078
12	M16 x 1.5	3/8" or 1/2"	16	M16 x 1.5	3/8" or 1/2"	0.9	6.0	44	25.4	28.0	0.130
16	M16 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	4.0	8.4	48	25.4	28.0	0.154
20S	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	7.2	11.7	53	25.4	28.0	0.150
20	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	9.4	14.0	53	30.0	33.0	0.206
25	M25 x 1.5	3/4" or 1"	16	M25 x 1.5	3/4" or 1"	13.5	20.0	53	37.6	41.4	0.310
32	M32 x 1.5	1" or 1 1/4"	16	M32 x 1.5	1" or 1 1/4"	19.5	26.3	53	46.0	50.6	0.442
40	M40 x 1.5	1 1/4" or 1 1/2"	16	M40 x 1.5	1 1/4" or 1 1/2"	23.0	32.2	56	55.0	60.5	0.625
50S	M50 x 1.5	1 1/2" or 2"	16	M50 x 1.5	1 1/2" or 2"	28.1	38.2	56	65.0	71.5	0.777
50	M50 x 1.5	2"	16	M50 x 1.5	2"	33.1	44.1	56	65.0	71.5	0.719
63S	M63 x 1.5	2" or 2 1/2"	19	M63 x 1.5	2" or 2 1/2"	39.2	50.1	59	80.0	88.0	1.238
63	M63 x 1.5	2 1/2"	19	M63 x 1.5	2 1/2"	46.7	56.0	59	80.0	88.0	1.142
75S	M75 x 1.5	2 1/2" or 3"	19	M75 x 1.5	2 1/2" or 3"	52.1	62.0	59	90.0	99.0	1.339
75	M75 x 1.5	3"	19	M75 x 1.5	3"	58.0	68.0	59	90.0	99.0	1.218
80	M80 x 2.0	3" or 3 1/2"	25	M80 x 2.0	3" or 3 1/2"	62.2	72.0	74	104.0	115.2	2.454
85	M85 x 2.0	3" or 3 1/2"	25	M85 x 2.0	3" or 3 1/2"	69.0	78.0	74	104.0	115.2	2.272
90	M90 x 2.0	3 1/2" or 4"	25	M90 x 2.0	3 1/2" or 4"	74.0	84.0	74	114.0	125.7	2.643
100	M100 x 2.0	3 1/2" or 4"	25	M100 x 2.0	3 1/2" or 4"	82.0	90.0	75	114.0	125.7	2.209

All dimensions in mm

- 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 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.