



PEPPERS CABLE GLANDS

PRODUCTS AND ACCESSORIES 2017 ISSUE 03A

MORE THAN THE SUM OF OUR PARTS

At Peppers, manufacturing and supplying what are widely regarded as the best cable gland products available, is a key element of what we do - but it's only part of the story.

We appreciate our innovative and superior quality components are really a means to our customer's wider business needs, and therefore customer service which can be 100% relied upon is of critical importance.

At Peppers we know what we are really supplying are total cable gland solutions; meaning confidence, peace of mind and satisfaction for all our customers - from the design engineers who specify our products, to the fitters who use and install them daily all over the world, to the organisations that ultimately rely upon them 24/7 and 365 days of the year.

This calls for an expert approach from initial contact to quotation and ordering to final delivery and support. We call this 'End-To-End Performance' - the unique combination of unrivalled product quality and service delivery which truly sets Peppers apart.

On-time. Every time

Peppers are famously fast when it comes to turnaround. This is partly down to ethos and a determination to protect that reputation; but also due to the structure of the business. A satellite manufacturing unit coupled with a global distribution network gives Peppers full control of the supply chain, allowing us to remain agile and react fast to most customer demands.

Trust Peppers

Peppers are proud of our reputation for knowledge and expertise. This gives customers the confidence that they are receiving accurate advice they can rely on. Equally important is trust and integrity. We don't bend the truth to secure orders. We don't promise what we cannot deliver.

The Innovators

The Peppers engineering team are continually working to design and develop innovative new products and patented systems to benefit our customers:

Simpler, safer solutions

Peppers strive to remain at the forefront of cable gland technology with unique products such as CROCKLOCK®, a gland for armoured cable featuring an ingenious single orientation clamping system. The CROCKLOCK® design minimises the possibility of mistakes occurring during installation and deluge protection is achieved without the use of additional sealing devices.

Reduced installation times and costs

Peppers' Barrier Glands featuring Peppers T-1000 compound enable conductors to be terminated within the equipment after just one hour. At four hours, the compound chamber can be inspected and the equipment can be energised. Our innovative barrier chamber provides a cable acceptance that is on average 17% larger than our competitors designs allowing the use of smaller glands which significantly reduces cost.

Materials Technology

Peppers glands can be supplied in a multitude of materials including brass, aluminium, stainless steel and polyamide. Additionally, plating options for corrosion protection are offered, including nickel, tin and zinc. Peppers also supply accessories, which include a comprehensive range of certified thread Adaptors, Reducers, Stopping Plugs and Breather Drains.

Commitment to Quality

Peppers maintains a quality management system approved to ISO 9001:2008, ISO/IEC 80079-34:2011 Explosive atmospheres -- Part 34: Application of quality systems for equipment manufacture and an Environmental System approved to ISO 14001:2004 as well as operating within Occupational Health and Safety Management (OHS) to BS OHSAS 18001.

Our range of approved products are designed and tested for use in Ex d, Ex e, Ex nR and Ex t hazardous area protection concepts.

Cable Gland Overview Guide / Index

Product Type	Outer Seal	Inner Seal	Compound	Lead Option	Armour Clamp	Conduit Connection	Exd	Exe	Ex nR	Class 1 Div II	Class 1 Div I	IP Rating	Page No.
CR	✓	✓	✗	✓	CROCLOCK®	✗	✓	✓	✓	✓	✗	IP66 / IP68 - NEMA 4X - DELUGE	1.1.0
E	✓	✓	✗	✓	✓	✗	✓	✓	✓	✓	✗	IP66 / IP68 - NEMA 4X	1.2.0
C	✓	✗	✗	✗	✓	✗	✗	✓	✗	✓	✗	IP66 - NEMA 4X	1.2.2
A*L	✓	✗	✗	✓	✗	✗	✓	✓	✓	✓	✗	IP66 / IP68 - NEMA 4X - DELUGE	2.1.0
A*LDS	✓	✗	✗	✓	✗	✗	✓	✓	✓	✓	✗	IP66 / IP68 - NEMA 4X - DELUGE	2.2.0
A*RCC	✓	✗	✗	✓	✗	Rotating Metallic Conduit	✓	✓	✓	✗	✗	IP66 / IP68 - DELUGE	2.3.0
A*RCM	✓	✗	✗	✓	✗	Rotating Male	✓	✓	✓	✓	✗	IP66 / IP68 - NEMA 4X - DELUGE	2.3.2
A*RCF	✓	✗	✗	✓	✗	Rotating Female	✓	✓	✓	✓	✗	IP66 / IP68 - NEMA 4X - DELUGE	2.3.4
A*LCM	✓	✗	✗	✓	✗	Fixed Male	✓	✓	✓	✓	✗	IP66 / IP68 - NEMA 4X - DELUGE	2.4.0
A*LCF	✓	✗	✗	✓	✗	Fixed Female	✓	✓	✓	✓	✗	IP66 / IP68 - NEMA 4X - DELUGE	2.4.1
A8	✓	✗	✗	✗	✗	Rotating Metallic Conduit	✓	✓	✓	✓	✗	IP66 - IP68	3.1.0
A8RC	✓	✗	✗	✗	✗	Fixed Male	✓	✓	✓	✗	✗	IP66 - IP68	3.3.0
A8CM	✓	✗	✗	✗	✗	Fixed Female	✓	✓	✓	✓	✗	IP66 / IP68 - NEMA 4X	3.3.1
A8CF	✓	✗	✗	✗	✗	Male Union	✓	✓	✓	✓	✗	IP66 / IP68 - NEMA 4X	3.3.2
D8X	✗	✓	✗	✗	✓	Rotating Metallic Conduit	✗	✓	✓	✓	✓	IP66 / IP68 - NEMA 4X	3.4.0
E8X	✓	✓	✗	✗	✓	Female Union	✗	✓	✓	✓	✓	IP66 / IP68 - NEMA 4X	3.5.0
E8XCM	✓	✓	✗	✗	✓	Rotating Metallic Conduit	✓	✓	✓	✓	✗	IP66 / IP68	3.5.1
E8XCF	✓	✓	✗	✗	✓	Male Union	✓	✓	✓	✓	✗	IP66 / IP68	3.5.2
PF	✓	✗	✗	✗	✗	Female Union	✗	✗	✓	✗	✓	IP66 - IP68	3.7.0
CR-C	✓	✓	✓	✓	✓	Rotating Metallic Conduit	✗	✓	✓	✓	✓	IP66 - IP68 NEMA 4X - DELUGE	4.1.0
CR-X	✗	✓	✓	✓	✗	Male Union	✗	✓	✓	✓	✓	IP66 - IP68 NEMA 4X - DELUGE	4.2.0
CR-U	✓	✓	✓	✓	✗	Female Union	✗	✓	✓	✓	✓	IP66 - IP68 NEMA 4X - DELUGE	4.2.1
CR-SM	✗	✓	✓	✗	✗	Male Union	✓	✓	✓	✓	✗	IP66 - IP68 NEMA 4X - DELUGE	4.3.0
CR-SF	✗	✓	✓	✗	✗	Female Union	✓	✓	✓	✓	✗	IP66 - IP68 NEMA 4X - DELUGE	4.3.1
LT-C	✗	✓	✓	✗	✗	Rotating Metallic Conduit	✓	✓	✗	✗	✗	IP66 - IP68	4.4.0
UL-C	✓	✓	✓	✗	✓	Male Union	✗	✓	✓	✓	✓	IP66 - IP68 NEMA 4X - DELUGE	4.5.0
UL-X	✗	✓	✓	✗	✗	Female Union	✗	✗	✓	✓	✓	IP66 - IP68 NEMA 4X - DELUGE	4.6.0
UL-U	✓	✓	✓	✗	✗	Male Union	✗	✓	✓	✓	✓	IP66 - IP68 NEMA 4X - DELUGE	4.6.1
A	✓	✗	✗	✓	✗	Female Union	✗	✗	✗	✗	✗	IP66 - IP68	5.1.0
E	✓	✓	✗	✓	✓	Male Union	✓	✗	✗	✗	✗	IP66 - IP68	5.2.0
C	✓	✗	✗	✗	✓	Female Union	✓	✗	✗	✗	✗	IP66	5.2.2
C*IE	✓	✗	✗	✗	✓	Male Union	✓	✗	✗	✗	✗	IP66	5.2.3

AR Metallic Thread Conversion Adaptors & Reducers - Male-Female **7.1.0**
ARMM / ARFF Metallic Thread Conversion Adaptors & Reducers - Male-Male & Female-Female **7.1.1**
SPMH & SPHH / SPA & SPB Metallic Stopping / Blanking Plugs **7.2.0 & 7.2.1**
ACDP Metallic Breather Drains **7.3.0**
ARMR / ARFR Metallic 90 Degree / Right Angle Adaptors **7.4.0**
Cable Gland Accessories Locknuts - Earthtags - IP Washers & O-rings - Serrated Washers & Shrouds **7.5.0**

Cable Gland Type CR - (Double Compression Gland for Armoured Cable featuring "CROCLOCK®")

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

Part No's:	C	R	1	B	*
			2	S	R
			3		
			4		



"CR" 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. Also certified for Class I Zone 1 & Class 1 Div 2 installations for use with Marine Shipboard & Tray Cables under NEC & CEC. They provide a controlled Ex d & IP displacement seal on the cable inner sheath minimising damage to cables that exhibit "cold flow" characteristics, an environmental seal on the outer sheath and "CROCLK®", a unique non reversible multi clamping system for wire, braid and tape armoured cables. The gland maintains IP66 & IP68 to 50 metres and is deluge proof without the use of an additional seal. It is supplied with an IP O-ring seal as standard on metric entry threads. Options are available for use with lead sheath, LSOH cables and extreme temperature applications.

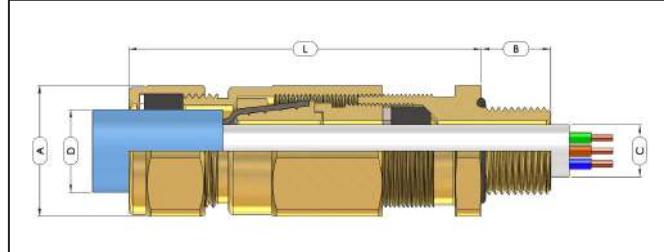
Compliance Standards:	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31 & IEC 60529 C22.2 (see certificate), CAN/CSA 60079-0/1/7 UL514B, UL1203, UL2225, UL504, ANSI/UL 60079-0/7, ISA 60079-31
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Certification:	ATEX	I 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 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)
KCS - Korea		Ex d IIC / Ex e IIC
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	BAS 01ATEX2271X & SIRA 09ATEX1221
IECEx		IECEx SIR 07.0099X
CEC - Canada		CSA 1356011
NEC - USA		CSA 2627370
EAC		RU C-GB-TG066.B.00098
INMETRO - Brazil		NCC 13.2185 X
SAC - China		NEPSI GYJ16.1402X
UKRAINE		UA.TR.047.C.0408-13 & 2937
CCoE - India		PESO P365300/2 & P365300/14
KCS - Korea		15-GA4B0-0669X & 15-GA4B0-0670X
ABS		14-LD463991-1-PDA
LLOYD'S		10/00056(E1)
RMRS		14.02755.315

IP Rating: IP66 & IP68 (50 metres - 7 Days), Type 4X & DTS01:1991
Operating Temperature: Neoprene Seals: -25°C to +100°C / Silicone Seals: -60°C to +180°C

Materials: Brass or Stainless Steel
Plating: Electroless Nickel



Example Part Numbering

(See below for details)

CR-1B/NP/20/M20

Options	CR	Gland featuring "CROClock®", single orientation clamping
	1	Neoprene Seal (1) - Silicone Seal (3) - Neoprene/Lead (2) - Silicone/Lead (4)
	B	Brass (B) - Stainless Steel (S)
	R	Reduced Bore Seal
	C	PVC Shroud (C) - PCP Shroud (P) - LSOH Silicone Shroud (3)
K-V-H		Locknut, Earth Tag & Nylon (K), Fibre (V) or PTFE (H) IP Washer
	S	Including Serrated Washer
	1	Quantity per kit
	NP	Nickel Plated
	20	Gland shell size
	M20	M20 x 1.5 Male Entry Thread
Optional Accessories	Locknut	Brass (ACBLN) / Stainless Steel (ACSLN)
	Earth tag	Brass (ACBET) / Stainless Steel (ACSET)
	IP Washers	Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW)
	Serrated Washer	Stainless Steel (ACSSW)
	Shrouds	PVC (ACSPVC) / PCP (ACSPCP) / LSOH Silicone (ACSSIO)

CABLE GLAND SELECTION TABLE

Gland Size	Entry Thread Size		Metric Thread Length [B]	Cable Acceptance Details						Armour Acceptance Range	Nominal Protrusion Length [L]	Dimensions/Weight (Metric Versions)			Shroud Size
				Inner Sheath [C]		Outer Sheath [D]		Reduced [D]				Across Flats [A]	Across Corners	Weight Kgs	
	Metric	NPT		Min	Max	Min	Max	Min	Max						
16	M20 x 1.5	1 1/2" or 3/4"	16	3.4	8.4	8.4	13.5	6.7	10.3	0.10-1.25	78	25.4	28.0	0.178	EL24
16H	M20 x 1.5	1 1/2" or 3/4"	16	3.4	8.4	11.5	16.0	9.4	12.5	0.10-1.25	78	25.4	28.0	0.173	EL24
20S	M20 x 1.5	1 1/2" or 3/4"	16	7.2	11.7	11.5	16.0	9.4	12.5	0.10-1.25	78	25.4	28.0	0.173	EL24
20	M20 x 1.5	1 1/2" or 3/4"	16	9.4	14.0	15.5	21.1	12.0	17.6	0.10-1.25	78	30.0	33.0	0.233	EL30
25	M25 x 1.5	3/4" or 1"	16	13.5	20.0	20.3	27.4	16.8	23.9	0.10-1.60	90	38.0	41.4	0.416	EL38
32	M32 x 1.5	1" or 1 1/4"	16	19.5	26.3	26.7	34.0	23.2	30.5	0.10-2.00	105	46.0	50.6	0.772	EL46
40	M40 x 1.5	1 1/4" or 1 1/2"	16	23.0	32.2	33.0	40.6	28.6	36.2	0.10-2.00	113	55.0	60.5	1.093	EL55
50S	M50 x 1.5	1 1/2" or 2"	16	28.1	38.2	39.4	46.7	34.8	42.4	0.10-2.50	125	65.0	71.5	1.255	EL65
50H	M50 x 1.5	1 1/2" or 2"	16	28.1	38.2	45.7	53.2	41.1	48.5	0.10-2.50	125	65.0	71.5	1.369	EL65
50	M50 x 1.5	2"	16	33.1	44.1	45.7	53.2	41.1	48.5	0.10-2.50	125	65.0	71.5	1.400	EL65
63S	M63 x 1.5	2" or 2 1/2"	19	39.2	50.1	52.1	59.5	47.5	54.8	0.10-2.50	125	80.0	88.0	2.550	EL80
63H	M63 x 1.5	2" or 2 1/2"	19	39.2	50.1	58.4	65.8	53.8	61.2	0.10-2.50	125	80.0	88.0	2.478	EL80
63	M63 x 1.5	2 1/2"	19	46.7	56.0	58.4	65.8	53.8	61.2	0.10-2.50	125	80.0	88.0	2.104	EL80
75S	M75 x 1.5	2 1/2" or 3"	19	52.1	62.0	64.8	72.2	60.2	68.0	0.10-2.50	131	90.0	99.0	2.916	EL90
75H	M75 x 1.5	2 1/2" or 3"	19	52.1	62.0	71.1	78.0	66.5	73.4	0.10-2.50	131	90.0	99.0	2.808	EL90
75	M75 x 1.5	3"	19	58.0	68.0	71.1	78.0	66.5	73.4	0.10-2.50	131	90.0	99.0	2.315	EL90
80	M80 x 2.0	3" or 3 1/2"	25	62.2	72.0	77.0	84.0	71.9	79.4	0.10-3.15	170	104.0	115.2	4.953	EL104
80H	M80 x 2.0	3" or 3 1/2"	25	62.2	72.0	79.6	90.0	75.0	85.4	0.10-3.15	170	104.0	115.2	4.740	EL104
85	M85 x 2.0	3" or 3 1/2"	25	69.0	78.0	79.6	90.0	75.0	85.4	0.10-3.15	170	104.0	115.2	4.070	EL104
90	M90 x 2.0	3 1/2" or 4"	25	74.0	84.0	88.0	96.0	82.0	91.4	0.10-3.15	170	114.0	125.7	5.129	EL114
90H	M90 x 2.0	3 1/2" or 4"	25	74.0	84.0	92.0	102.0	87.4	97.4	0.10-3.15	170	114.0	125.7	4.867	EL114
100	M100 x 2.0	3 1/2" or 4"	25	82.0	90.0	92.0	102.0	87.4	97.4	0.10-3.15	170	114.0	125.7	4.362	EL114
110	M110 x 2.0	4"	25	92.0	102.0	104.0	117.0	-	-	0.10-3.15	165	135.0	148.5	7.327	-

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 supply cable glands with parallel entry threads that conform to the flameproof threaded joint requirements of IEC/EN 60079-1 and one thread run out according to the available machining techniques and will not have a full form thread for the entire length. Peppers Cable Glands 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.
- Where approval in addition to ATEX, IECEx and CSA is required, this must be clearly requested at time of enquiry / order.

Cable Gland Type E - (Double Compression Gland for Armoured Cable featuring Dedicated Armour Clamping)

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

Part Numbers:	E	1	W	B	*	F	*
	2	X	S	IE		R	
	3		A				
	4						



"E" type double compression 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 Dusts Groups IIIA, IIIB and IIIC. Also certified for Class I Zone 1 & Class I Div 2 installations for use with Marine Shipboard & Tray Cables under NEC & CEC. They provide a controlled Ex d & IP seal on the cable inner sheath, an environmental seal on the outer sheath and a detachable armour specific clamping system for wire (W), braid/tape (X) armoured cables. The gland has been tested to IP66 and IP68 to 50 metres and is available with an IP O-ring seal on metric entry threads. The Integral Earth "IE" version allows the gland to be used with HV cables where the fault load is greater than 10.4kA and options are available for use with lead sheath, 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, UL500, ANSI/UL 60079-0/7, ISA 60079-31

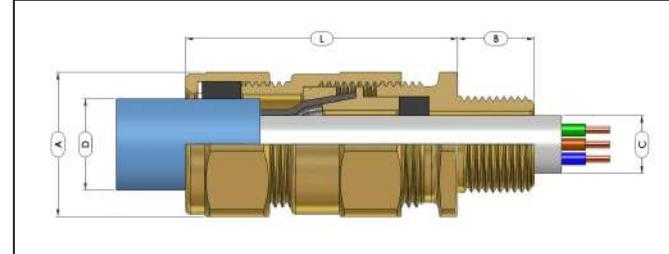
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 II 3G Ex nR IIC Gc
 IECEEx Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da
 CEC - Canada Class I Zone 1 Ex d IIC / Ex e II
 Class I Division 2, Groups A, B, C & D
 Class II Division 1, Groups E, F & G
 Class III, Enclosure Type 4X
 NEC - USA Class I Zone 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 IIIU
 INMETRO - Brazil Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da
 SAC - China Ex d IIC / Ex e IIC
 UKRAINE Ex d IIC X / Ex e II X
 CoCoE - India Petroleum Rules 2002 (PESO)
 Specified ABS Rule
 ABS Enclosure Systems (Part 1B)
 LLOYD'S Part XI of RS Rules for the classification & construction of sea-going ships (ed. 2014)
 RMRS

Certificate No. ATEX SIRA 01ATEX1271X & SIRA 09ATEX1221X
 IECEEx SIR 07.0097X
 CEC - Canada CSA 1356011
 NEC - USA CSA 2627370
 EAC RU-C-GB-F506.B.00098
 INMETRO - Brazil NCC 13.2186 X
 SAC - China NEPSI/GYJ16.1400X
 UKRAINE UA.TR.047.C.0408-13 & 2937
 CoCoE - India PESO P365300/2 & P365300/13
 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)

E1WBF/NP/20/050NPT

E	Gland featuring armour specific clampin
1	Neoprene Seal (1) - Silicone Seal (3) - Neoprene/Lead (2) - Silicone/Lead (4)
W	SWA (W) / SWB or STA (X)
B	Aluminium (A) / Brass (B) / Stainless Steel (S)
IE	IECEx (see page TR-4)
F	Multiple Certification
R	Reduced Bore Seal
C	PVC Shroud (C) - PCP Shroud (P) - LSOH Silicone Shroud (3)
K-V-H	Locknut, Earth Tag & Nylon (K), Fibre (V) or PTFE (H) IP Washer
S	Including Serrated Washer
1	Quantity per kit
NP	Nickel Plated
20	Gland shell size
050NPT	1/2"NPT Male Entry Thread

Optional Accessories	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 Washer	Stainless Steel (ACSSW)

Shrouds	PVC (ACSPVC) / PCP (ACSPCP) / LSOH Silicone (ACSSIO)
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CABLE GLAND SELECTION TABLE

Gland Size	Entry Thread Size	Metric Thread Length [B]	Cable Acceptance Details						Armour Acceptance Range	Nominal Protrusion Length [L]	Dimensions/Weight (Metric)			Shroud Size			
			Inner Sheath [C]		Outer Sheath [D]		Reduced [D]				Across Flats [A]	Across Corners	Weight Kgs				
			Metric	NPT	Min	Max	Min	Max			W	X					
16	M16 x 1.5	1/2" or 3/4"	16		3.5	8.4	8.4	13.5	4.9	10.3	0.90	0.15-0.35	58	24.0	26.5	0.143	L24
16	M20 x 1.5	1/2" or 3/4"	16		3.5	8.4	8.4	13.5	4.9	10.3	0.90	0.15-0.35	58	24.0	26.5	0.154	L24
20S	M20 x 1.5	1/2" or 3/4"	16		8.0	11.7	11.5	16.0	9.4	12.5	0.90-1.25	0.15-0.35	58	24.0	26.5	0.125	L24
20	M20 x 1.5	1/2" or 3/4"	16		6.7*	14.0	15.5	21.1	12.0	17.6	0.90-1.25	0.15-0.50	58	30.0	33.0	0.180	L30
25	M25 x 1.5	3/4" or 1"	16		13.0	20.0	20.3	27.4	16.8	23.9	1.25-1.60	0.15-0.50	58	38.0	41.4	0.256	L38
32	M32 x 1.5	1" or 1 1/4"	16		19.0	26.3	26.7	34.0	23.2	30.5	1.60-2.00	0.15-0.55	65	46.0	50.6	0.400	L46
40	M40 x 1.5	1 1/4" or 1 1/2"	16		25.0	32.2	33.0	40.6	28.6	36.2	1.60-2.00	0.20-0.60	72	55.0	60.5	0.649	L55
50S	M50 x 1.5	1 1/2" or 2"	16		31.5	38.2	39.4	46.7	34.8	42.4	2.00-2.50	0.20-0.60	73	65.0	71.5	0.940	L65
50H	M50 x 1.5	1 1/2" or 2"	16		31.5	38.2	45.7	53.2	41.1	48.5	2.00-2.50	0.30-0.80	73	65.0	71.5	0.849	L65
50	M50 x 1.5	2"	16		36.5	44.1	45.7	53.2	41.1	48.5	2.00-2.50	0.30-0.80	73	65.0	71.5	0.707	L65
63S	M63 x 1.5	2" or 2 1/2"	19		42.5	50.1	52.1	59.5	47.5	54.8	2.50	0.30-0.80	76	80.0	88.0	1.369	L80
63H	M63 x 1.5	2" or 2 1/2"	19		42.5	50.1	58.4	65.8	53.8	61.2	2.50	0.30-0.80	76	80.0	88.0	1.306	L80
63	M63 x 1.5	2 1/2"	19		49.5	56.0	58.4	65.8	53.8	61.2	2.50	0.30-0.80	76	80.0	88.0	1.123	L80
75S	M75 x 1.5	2 1/2" or 3"	19		54.5	62.0	64.8	72.2	60.2	68.0	2.50	0.30-1.00	82	90.0	99.0	1.661	L90
75H	M75 x 1.5	2 1/2" or 3"	19		54.5	62.0	71.1	78.0	66.5	73.4	2.50	0.30-1.00	82	90.0	99.0	1.553	L90
75	M75 x 1.5	3"	19		60.5	68.0	71.1	78.0	66.5	73.4	2.50	0.30-1.00	82	90.0	99.0	1.310	L90
80	M80 x 2.0	3" or 3 1/2"	25		62.2	72.0	77.0	84.0	71.9	79.4	3.15	0.45-1.00	110	104.0	115.2	2.718	L104
80H	M80 x 2.0	3" or 3 1/2"	25		62.2	72.0	79.6	90.0	75.0	85.4	3.15	0.45-1.00	110	104.0	115.2	2.489	L104
85	M85 x 2.0	3" or 3 1/2"	25		69.0	78.0	79.6	90.0	75.0	85.4	3.15	0.45-1.00	110	104.0	115.2	2.326	L104
90	M90 x 2.0	3 1/2" or 4"	25		74.0	84.0	88.0	96.0	82.0	91.4	3.15	0.45-1.00	110	114.0	125.7	2.852	L114
90H	M90 x 2.0	3 1/2" or 4"	25		74.0	84.0	92.0	102.0	87.4	97.4	3.15	0.45-1.00	110	114.0	125.7	2.629	L114
100	M100 x 2.0	3 1/2" or 4"	25		82.0	90.0	92.0	102.0	87.4	97.4	3.15	0.45-1.00	110	114.0	125.7	2.496	L114

All dimensions in mm

- Notes:
- Gland size does not necessarily equate to the entry thread size.
 - 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.
 - For gland size 20 the silicone inner seal has a minimum diameter of 9.3 mm and NOT 6.7mm
 - 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, IECEEx and CSA is required, this must be clearly requested at time of enquiry / order.

Cable Gland Type C - (Single Compression Gland for Armoured Cable featuring Dedicated Armour Clamping)

Ex e : Ex ta : IP66
Class I Div 2 : AEx e : AEx ta

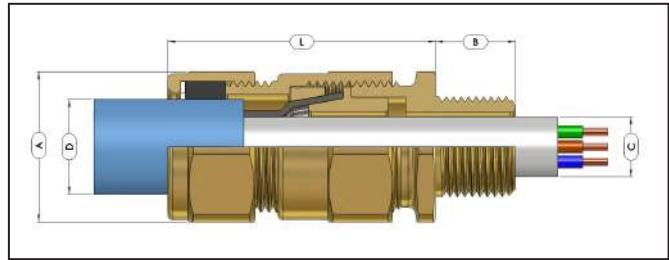
Part Numbers:

C	1	W	B	*	E	*
3		X	S	IE		R
			A			



"C" type single compression glands are certified Increased Safety Ex e 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 Class I Zone 1 & Class I Div 2 installations for use with Marine Shipboard & Tray Cables under NEC & CEC. The gland is suitable for cables that exhibit "cold flow" characteristics, whilst providing an IP66 environmental seal on the cable outer sheath and a detachable armour specific clamping system for wire (W), braid/tape (X) armoured cables. The "IE" version allows the gland to be used with HV cables where the fault load is greater than 10.4kA and options are available for use with LSOH cables and extreme temperature applications.

Compliance Standards:	EN 60079-0, EN 60079-7, EN 60079-31 IEC 60079-0, IEC 60079-7, IEC 60079-31 & IEC 60529 C22.2 (see certific te), CAN/CSA 60079-0/7 UL514B, UL1203, UL2225, UL50E, ANSI/UL 60079-0/7, ISA 60079-31
Certification:	ATEX II 1D 2G Ex e IIC Gb / Ex ta IIIC Da IECEx Ex e IIC Gb / Ex ta IIIC Da CEC - Canada Class I Zone 1 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
	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 Ex e IIU INMETRO - Brazil Ex e IIC Gb / Ex ta IIIC Da SAC - China Ex e IIIC UKRAINE Ex e II X CoE - India Petroleum Rules 2002 (PESO) ABS Specified ABS Rule 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 SIRA 01ATEX1271X IECEx IECEx SIR 07.0097X CEC - Canada CSA 1356011 NEC - USA CSA 2627370 EAC RU C-GB-FB06.B.00098 INMETRO - Brazil NCC 13.2186 X SAC - China NEPSI GYJ16.1400X UKRAINE UA.TR.047.C.0408-13 & 2937 CoE - India PESO P365300/13 ABS 14-LD463991-1-PDA LLOYD'S 10/00056(E1) RMRS 14.02755.315
IP Rating:	IP66, 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)		C1WBE/NP/20/050NPT	
C	Gland featuring armour specific clamping		
1	Neoprene Seal (1) - Silicone Seal (3)		
W	SWA (W) / SWB or STA (X)		
B	Aluminium (A) / Brass (B) / Stainless Steel (S)		
IE	Integral Earth (see page TR-4)		
E	Ex e & Ex ta Certification		
R	Reduced Bore Outer Sheath Seal		
C	PVC Shroud (C) - PCP Shroud (P) - LSOH Silicone Shroud (3)		
K-V-H	Locknut, Earth Tag & Nylon (K), Fibre (V) or PTFE (H) IP Washer		
S	Including Serrated Washer		
1	Quantity per kit		
NP	Nickel Plated		
20	Gland shell size		
050NPT	1/2"NPT 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 Washer	Stainless Steel (ACSSW)
		Shrouds	PVC (ACSPVC) / PCP (ACSPCP) / LSOH Silicone (ACSSIO)

CABLE GLAND SELECTION TABLE

Gland Size	Entry Thread Size		Metric Thread Length [B]	Cable Acceptance Details						Armour Acceptance Range		Nominal Protrusion Length [L]	Dimensions/Weight (Metric)			Shroud Size
				Inner Sheath [C]		Outer Sheath [D]		Reduced [D]					Across Flats [A]	Across Corners	Weight Kgs	
	Metric	NPT		Min	Max	Min	Max	Min	Max	W	X		Across Flats [A]	Across Corners	Weight Kgs	
16	M16 x 1.5	1/2" or 3/4"	16	n/a	8.4	8.4	13.5	4.9	10.3	0.90	0.15-0.35	58	24.0	26.5	0.143	L24
16	M20 x 1.5	1/2" or 3/4"	16	n/a	8.4	8.4	13.5	4.9	10.3	0.90	0.15-0.35	58	24.0	26.5	0.154	L24
20S	M20 x 1.5	1/2" or 3/4"	16	n/a	11.7	11.5	16.0	9.4	12.5	0.90-1.25	0.15-0.35	58	24.0	26.5	0.125	L24
20	M20 x 1.5	1/2" or 3/4"	16	n/a	14.0	15.5	21.1	12.0	17.6	0.90-1.25	0.15-0.50	58	30.0	33.0	0.180	L30
25	M25 x 1.5	3/4" or 1"	16	n/a	20.0	20.3	27.4	16.8	23.9	1.25-1.60	0.15-0.50	58	38.0	41.4	0.256	L38
32	M32 x 1.5	1" or 1 1/4"	16	n/a	26.3	26.7	34.0	23.2	30.5	1.60-2.00	0.15-0.55	65	46.0	50.6	0.400	L46
40	M40 x 1.5	1 1/4" or 1 1/2"	16	n/a	32.2	33.0	40.6	28.6	36.2	1.60-2.00	0.20-0.60	72	55.0	60.5	0.649	L55
50S	M50 x 1.5	1 1/2" or 2"	16	n/a	38.2	39.4	46.7	34.8	42.4	2.00-2.50	0.20-0.60	73	65.0	71.5	0.940	L65
50H	M50 x 1.5	1 1/2" or 2"	16	n/a	38.2	45.7	53.2	41.1	48.5	2.00-2.50	0.30-0.80	73	65.0	71.5	0.849	L65
50	M50 x 1.5	2"	16	n/a	44.1	45.7	53.2	41.1	48.5	2.00-2.50	0.30-0.80	73	65.0	71.5	0.707	L65
63S	M63 x 1.5	2" or 2 1/2"	19	n/a	50.1	52.1	59.5	47.5	54.8	2.50	0.30-0.80	76	80.0	88.0	1.369	L80
63H	M63 x 1.5	2" or 2 1/2"	19	n/a	50.1	58.4	65.8	53.8	61.2	2.50	0.30-0.80	76	80.0	88.0	1.306	L80
63	M63 x 1.5	2 1/2"	19	n/a	56.0	58.4	65.8	53.8	61.2	2.50	0.30-0.80	76	80.0	88.0	1.123	L80
75S	M75 x 1.5	2 1/2" or 3"	19	n/a	62.0	64.8	72.2	60.2	68.0	2.50	0.30-1.00	82	90.0	99.0	1.661	L90
75H	M75 x 1.5	2 1/2" or 3"	19	n/a	62.0	71.1	78.0	66.5	73.4	2.50	0.30-1.00	82	90.0	99.0	1.553	L90
75	M75 x 1.5	3"	19	n/a	68.0	71.1	78.0	66.5	73.4	2.50	0.30-1.00	82	90.0	99.0	1.310	L90
80	M80 x 2.0	3" or 3 1/2"	25	n/a	72.0	77.0	84.0	71.9	79.4	3.15	0.45-1.00	110	104.0	115.2	2.718	L104
80H	M80 x 2.0	3" or 3 1/2"	25	n/a	72.0	79.6	90.0	75.0	85.4	3.15	0.45-1.00	110	104.0	115.2	2.489	L104
85	M85 x 2.0	3" or 3 1/2"	25	n/a	78.0	79.6	90.0	75.0	85.4	3.15	0.45-1.00	110	104.0	115.2	2.326	L104
90	M90 x 2.0	3 1/2" or 4"	25	n/a	84.0	88.0	96.0	82.0	91.4	3.15	0.45-1.00	110	114.0	125.7	2.852	L114
90H	M90 x 2.0	3 1/2" or 4"	25	n/a	84.0	92.0	102.0	87.4	97.4	3.15	0.45-1.00	110	114.0	125.7	2.629	L114
100	M100 x 2.0	3 1/2" or 4"	25	n/a	90.0	92.0	102.0	87.4	97.4	3.15	0.45-1.00	110	114.0	125.7	2.496	L114

All dimensions in mm

Notes:	<ul style="list-style-type: none"> Gland size does not necessarily equate to the entry thread size. 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 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.
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Cable Gland Type A - (Single Compression Gland for Unarmoured Cable)

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

Part Numbers:

A	1	L	B	F
	2		S	E
	3		A	
	4			



"A" 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 "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.

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: 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 IIICU / 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 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)

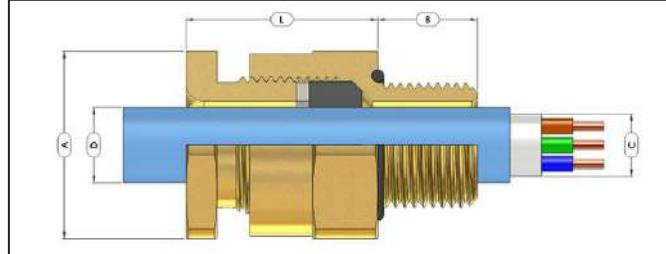
Certificate No. ATEX SIRA 01ATEX1272X & SIRA 09ATEX1221X
 IECEx SIR 07.0096X
 CEC - Canada CSA 1356011
 NEC - USA CSA 2627370
 EAC RU C-GB-TB06.B.00098
 INMETRO - Brazil NCC 13.2012 X
 SAC - China NEPSI/GYJ16.1399X
 UKRAINE UA.TR.047.C.0408-13 & 2937
 CCoE - India PESO P365300/2 & P365300/5
 ABS 14-LD463991-1-PDA
 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)

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
C	PVC Shroud (C) - PCP Shroud (P) - Silicone LSOH Shroud (3)
K-V-H	Locknut & Nylon (K), Fibre (V) or PTFE (H) IP Washer
T	Including Earth Tag
S	Including Serrated Washer
1	Quantity per kit
NP	Nickel Plated
20	Gland shell size
M20	M20 x 1.5mm Male Entry Thread

Options	Locknut	Brass (ACBLN) / St Steel (ACSLN) / Aluminium (ACALN)
	Earth tag	Brass (ACBT) / 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)

CABLE GLAND SELECTION TABLE

Gland Size	Entry Thread Size		ISO Thread Length [B]	Cable Acceptance Details		Nominal Protrusion Length [L]	Dimensions/Weight (Metric Versions)			Shroud Size
				Outer Sheath [D]			Across Flats [A]	Across Corners	Weight Kgs	
	Metric	NPT		Min	Max					
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 1/4"	16	19.5	26.3	33	46.0	50.6	0.244	L46
40	M40 x 1.5	1 1/4" or 1 1/2"	16	23.0	32.2	37	55.0	60.5	0.396	L55
50S	M50 x 1.5	1 1/2" 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 1/2"	19	39.2	50.1	37	80.0	88.0	0.832	L80
63	M63 x 1.5	2 1/2"	19	46.7	56.0	37	80.0	88.0	0.664	L80
75S	M75 x 1.5	2 1/2" 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 1/2"	25	62.2	72.0	50	104.0	115.2	1.514	L104
85	M85 x 2.0	3" or 3 1/2"	25	69.0	78.0	50	104.0	115.2	1.332	L104
90	M90 x 2.0	3 1/2" or 4"	25	74.0	84.0	50	114.0	125.7	1.622	L114
100	M100 x 2.0	3 1/2" or 4"	25	82.0	90.0	50	114.0	125.7	1.523	L114

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 & 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.

Cable Gland 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

Part Numbers:	A	1	L	DS	B	F
		1			S	
		2				A
		3				
		4				



"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: 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)

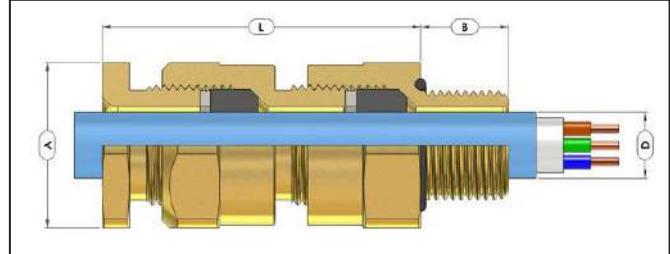
Certificate No. ATEX SIRA 01ATEX1272X & SIRA 09ATEX1221X
IECEx IECEx SIR 07.0096X
CEC - Canada CSA 1356011
NEC - USA CSA 2627370
EAC RU C-GB, IEC606.B.00098
INMETRO - Brazil NCC 13.2012 X
SAC - China NEPSI GVJ16.1399X
UKRAINE UA.TR.047.C.0408-13 & 2937
CCoE - India PESO P365300/2 & P365300/5
ABS 14-LD463991-1-PDA
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)

A2LDSBF/NP/20/M20

Options	A	Gland featuring controlled displacement sealing
	2	Neoprene Seals (2) - Silicone Seals (3) - Neoprene/Lead (1) - Silicone/Lead (4)
	L	Peppers Standard Designation
	DS	Double Sealing
	B	Aluminium (A) / Brass (B) / Stainless Steel (S)
	F	Multiple Certification
	C	PVC Shroud (C) - PCP Shroud (P) - LSOH Silicone Shroud (3)
	K-V-H	Locknut & Nylon (K), Fibre (V) or PTFE (H) IP Washer
	T	Including Earth Tag
	S	Including Serrated Washer
Optional Accessories	1	Quantity per kit
	NP	Nickel Plated
	20	Gland shell size
	M20	M20 x 1.5mm Male Entry Thread
	Locknut	Brass (ACBLN) / St Steel (ACSLN) / Aluminium (ACALN)
	Earth tag	Brass (ACBET) / St Steel (ACSET) / Aluminium (ACAEI)
	IP Washers	Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW)
	Serrated Washers	Stainless Steel (ACSSW)
	Shrouds	PVC (ACSPVC) / PCP (ACSPCP) / LSOH Silicone (ACSSIO)

CABLE GLAND SELECTION TABLE

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 (Metric)	
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
205	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
505	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
635	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
755	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

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 & 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.

Cable Gland Type A*RCC - (Single Compression Gland featuring a Freely Rotating Flexible Metallic Conduit Connector)

Part Numbers:	A	1	R	CC	B	F
					S	
					A	



"A*RCC" 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 "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. The gland features a freely rotating flexible conduit connection.

Compliance Standard: 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

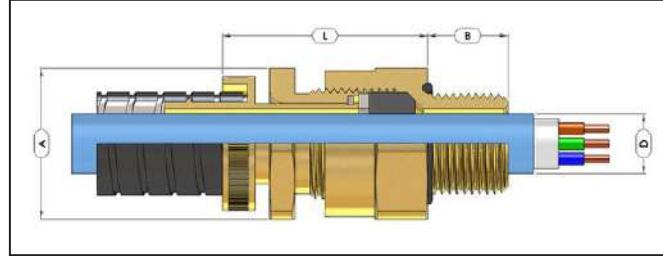
Certification: ATEX II 1D 2G Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da
II 3 G Ex nR IIC Gc
IECEx Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da
EAC Exd IIICU / Exe IIU / ExnR IIU
INMETRO - Brazil Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc
SAC - China Ex d IIC / Ex e IIC
UKRAINE Ex d IIC X / 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 SIRA 01ATEX1272X & SIRA 09ATEX1221X
IECEx SIR 07.0096X
EAC RU C-GB.F006.B.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)

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)

A2RCCBF/NP/20-1/M20

A	Gland featuring controlled displacement sealing
2	Neoprene Seal (2) - Silicone Seal (3) - Neoprene/Lead (1) - Silicone/Lead (4)
R	Rotating Conduit Design
CC	Metallic Flexible Conduit Connector
B	Aluminium (A) / Brass (B) / Stainless Steel (S)
F	Multiple Certification
NP	Nickel Plated
20-1	Gland & Connector Size
M20	M20 x 1.5mm Male Entry Thread

Optional Accessories

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 & Connector Size	Entry Thread Size		Metric Thread Length [B]	Cable Acceptance Details Outer Sheath [D]		Typical Conduit Diameter	Nominal Protrusion Length [L]	Dimensions/Weight (Metric Versions)			Metric Thread Shroud Size
	Metric	NPT		Min	Max			Across Flats [A]	Across Corners	Weight Kgs	
12-1	M12 x 1.5	3/8"	16	0.9	5.4	6.8	10.3	35	19.0	20.9	0.051
12-1	M16 x 1.5	3/8" or 1/2"	16	0.9	5.4	6.8	10.3	34	25.4	28.0	0.059
12-2	M12 x 1.5	3/8"	16	0.9	6.0	9.1	14.3	35	19.0	20.9	0.083
12-2	M16 x 1.5	3/8" or 1/2"	16	0.9	6.0	9.1	14.3	34	25.4	28.0	0.092
12-3	M16 x 1.5	3/8" or 1/2"	16	0.9	6.0	7.7	13.0	34	25.4	28.0	0.107
16-1	M16 x 1.5	3/8" or 1/2"	16	4.0	8.4	10.2	14.1	39	25.4	28.0	0.130
16-1	M20 x 1.5	3/8" or 1/2"	16	4.0	8.4	10.2	14.1	45	25.4	28.0	0.130
16-2	M16 x 1.5	3/8" or 1/2"	16	4.0	8.4	10.9	15.8	39	25.4	28.0	0.130
16-2	M20 x 1.5	3/8" or 1/2"	16	4.0	8.4	10.9	15.8	45	25.4	28.0	0.130
16-3	M16 x 1.5	3/8" or 1/2"	16	4.0	8.4	13.0	17.1	39	25.4	28.0	0.130
16-3	M20 x 1.5	3/8" or 1/2"	16	4.0	8.4	13.0	17.1	45	25.4	28.0	0.130
20S-1	M20 x 1.5	3/8" or 1/2"	16	7.2	11.0	13.0	17.1	45	25.4	28.0	0.133
20S-2	M20 x 1.5	3/8" or 1/2"	16	7.2	11.7	15.0	19.3	45	25.4	28.0	0.133
20S-3	M20 x 1.5	3/8" or 1/2"	16	7.2	11.7	13.6	20.7	45	25.4	28.0	0.133
20-1	M20 x 1.5	1/2" or 3/4"	16	9.4	14.0	16.9	22.3	45	30.0	33.0	0.162
20-2	M20 x 1.5	1/2" or 3/4"	16	9.4	14.0	18.0	23.8	45	30.0	33.0	0.162
20-3	M20 x 1.5	1/2" or 3/4"	16	9.4	14.0	18.7	24.8	45	30.0	33.0	0.174
20-4	M20 x 1.5	1/2" or 3/4"	16	9.4	14.0	20.7	28.3	45	30.0	33.0	0.195
20-5	M20 x 1.5	1/2" or 3/4"	16	9.4	13.0	13.9	19.3	45	30.0	33.0	0.210
25-1	M25 x 1.5	3/4" or 1"	16	13.5	20.0	23.7	31.3	46	37.6	41.4	0.256
25-2	M25 x 1.5	3/4" or 1"	16	13.5	19.0	21.1	26.8	46	37.6	41.4	0.231
25-3	M25 x 1.5	3/4" or 1"	16	13.5	19.0	24.3	31.3	46	37.6	41.4	0.234
25-4	M25 x 1.5	3/4" or 1"	16	13.5	20.0	22.3	28.3	46	37.6	41.4	0.234
32-1	M32 x 1.5	1" or 1 1/4"	16	19.5	26.0	28.1	33.3	47	46.0	50.6	0.322
32-2	M32 x 1.5	1" or 1 1/4"	16	19.5	26.3	30.4	38.2	47	46.0	50.6	0.347
32-3	M32 x 1.5	1" or 1 1/4"	16	19.5	26.3	30.4	40.2	47	46.0	50.6	0.369
40-1	M40 x 1.5	1 1/4" or 1 1/2"	16	23.0	32.2	36.4	46.2	50	55.0	60.5	0.518
40-2	M40 x 1.5	1 1/4" or 1 1/2"	16	23.0	32.2	36.4	44.2	50	55.0	60.5	0.497
40-3	M40 x 1.5	1 1/4" or 1 1/2"	16	23.0	32.2	37.7	44.7	50	55.0	60.5	0.484
50S-1	M50 x 1.5	1 1/2" or 2"	16	28.1	38.2	48.4	55.8	50	65.0	71.5	0.630
50-1	M50 x 1.5	2"	16	33.1	44.1	48.4	55.8	50	65.0	71.5	0.575
63S-1	M63 x 1.5	2" or 2 1/2"	19	39.2	50.1	57.5	64.8	50	80.0	88.0	0.990
63-1	M63 x 1.5	2 1/2"	19	46.7	53.6	57.5	64.8	50	80.0	88.0	0.900

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 gland kits, please be aware of the accessories temperature range to ensure they are suitable for the intended installation.
 - Where approval in addition to ATEX and IECEx is required, this must be clearly requested at time of enquiry / order.
 - It is the installer's responsibility to ensure that the flexible conduit is secured correctly.
 - If fit testing is required for specific conduit please contact Peppers.

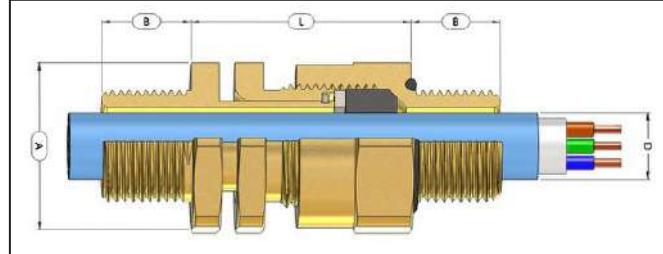
Cable Gland Type A*RCM - (Single Compression Gland with a Freely Rotating Male Conduit Connection)Ex d : Ex e : Ex nR : Ex ta : IP66 : IP68
Class I Div 2 : AEx e : AEx ta

Part Numbers:	A	1	R	CM	B	F
		2			S	
		3			A	
		4				



"A*RCM" 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 and is supplied with an IP O-ring seal as standard on metric entry threads. The gland features a freely rotating male threaded conduit connection for ease of installation.

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 UL514B, UL1203, 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
	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 IIC
	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 SIRA 01ATEX1272X & SIRA 09ATEX1221X
	IECEx IECEx SIR 07.0096X
	NEC - USA CSA 2627370
	EAC RU C-GB.T.0606.B.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:	Brass, Stainless Steel or Aluminium
Plating:	Electroless Nickel

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

A2RCMBF050NPT/NP/20/M20

A	Gland featuring controlled displacement sealing
2	Neoprene Seal (2) - Silicone Seal (3) - Neoprene/Lead (1) - Silicone/Lead (4)
R	Rotating Conduit Design
CM	Male Conduit Connection Thread
B	Aluminium (A) / Brass (B) / Stainless Steel (S)
F	Multiple Certification
050NPT	1/2"NPT Male Conduit Connection Thread
L	Locknut (material dictated by gland entry thread material)
N	Including IP Washer, Nylon [N] - Fibre [V] - PTFE [H]
T	Including Earth Tag
S	Including Serrated Washer
1	Quantity per kit
NP	Nickel Plated
20	Gland & Connector Size
M20	M20 x 1.5mm Male Entry Thread

Optional Accessories	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]	Dimensions/Weight (Metric Versions)		
	Metric	NPT		Metric	NPT	Min	Max		Across Flats [A]	Across Corners	Weight Kgs
12	M12 x 1.5	3/8"	16	M12 x 1.5	3/8" or 1/2"	0.9	6.0	34	19.0	21.0	0.061
12	M16 x 1.5	3/8" or 1/2"	16	M16 x 1.5	3/8" or 1/2"	0.9	6.0	32	25.4	28.0	0.121
16	M16 x 1.5	1/2" or 3/4"	16	M16 x 1.5	1/2" or 3/4"	4.0	8.4	38	25.4	28.0	0.133
20S	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	7.2	11.7	43	25.4	28.0	0.149
20	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	9.4	14.0	43	30.0	33.0	0.174
25	M25 x 1.5	3/4" or 1"	16	M25 x 1.5	3/4" or 1"	13.5	20.0	43	37.6	41.4	0.243
32	M32 x 1.5	1" or 1 1/4"	16	M32 x 1.5	1" or 1 1/4"	19.5	26.3	43	46.0	50.6	0.344
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	46	55.0	60.5	0.510
50S	M50 x 1.5	1 1/2" or 2"	16	M50 x 1.5	1 1/2" or 2"	28.1	38.2	47	65.0	71.5	0.597
50	M50 x 1.5	2"	16	M50 x 1.5	2"	33.1	44.1	47	65.0	71.5	0.540
63S	M63 x 1.5	2" or 2 1/2"	19	M63 x 1.5	2" or 2 1/2"	39.2	50.1	47	80.0	88.0	0.921
63	M63 x 1.5	2 1/2"	19	M63 x 1.5	2 1/2"	46.7	56.0	47	80.0	88.0	0.825
75S	M75 x 1.5	2 1/2" or 3"	19	M75 x 1.5	2 1/2" or 3"	52.1	62.0	47	90.0	99.0	1.132
75	M75 x 1.5	3"	19	M75 x 1.5	3"	58.0	68.0	47	90.0	99.0	1.011
80	M80 x 2.0	3" or 3 1/2"	25	M80 x 2.0	3" or 3 1/2"	62.2	72.0	58	104.0	115.2	1.852
85	M85 x 2.0	3" or 3 1/2"	25	M85 x 2.0	3" or 3 1/2"	69.0	78.0	58	104.0	115.2	1.667
90	M90 x 2.0	3 1/2" or 4"	25	M90 x 2.0	3 1/2" or 4"	74.0	84.0	59	114.0	125.7	2.041
100	M100 x 2.0	3 1/2" or 4"	25	M100 x 2.0	3 1/2" or 4"	82.0	90.0	60	114.0	125.7	1.986

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.

Cable Gland Type A*RCF - (Single Compression Gland with a Freely Rotating Female Conduit Connection)

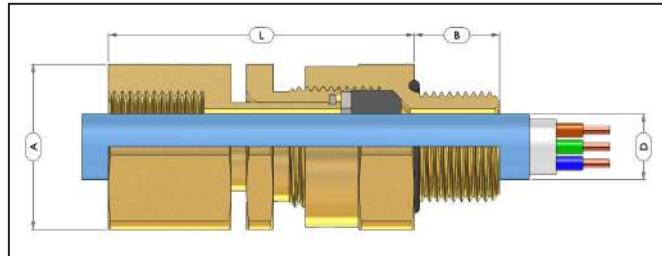
Ex d : Ex e : Ex nR : Ex ta : IP66 : IP68
Class I Div 2 : AEx e : AEx ta

Part Numbers:	A	1	R	CF	B	F
		2			S	
		3			A	
		4				



"A*RCF" 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 and is supplied with an IP O-ring seal as standard on metric entry threads. The gland features a freely rotating female threaded conduit connection for ease of installation.

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 UL514B, UL1203, 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
	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 IIC
	CCoE - India Petroleum Rules 2002 (PESO)
	Specified ABS Rules
	ABS Enclosure Systems (Part 1B)
	LLOYD'S Part XI of RS Rules for the classification & construction of sea-going ships (ed. 2014)
	RMRS
Certificate No.	ATEX SIRA 01ATEX1272X & SIRA 09ATEX1221X
	IECEx IECEx SIR 07.0096X
	NEC - USA CSA 2627370
	EAC RU C-GB.T506.B.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:	Brass, Stainless Steel or Aluminium
Plating:	Electroless Nickel


Example Part Numbering
 (See below for details)

A2RCFBF050NPT/NP/20/M20

A	Gland featuring controlled displacement sealing
2	Neoprene Seal (2) - Silicone Seal (3) - Neoprene/Lead (1) - Silicone/Lead (4)
R	Rotating Conduit Design
CF	Female Conduit Connection Thread
B	Aluminium (A) / Brass (B) / Stainless Steel (S)
F	Multiple Certification
050NPT	1/2" NPT Female Conduit Connection Thread
L	Locknut (material dictated by gland entry thread material)
N	Including IP Washer, Nylon [N] - Fibre [V] - PTFE [H]
T	Including Earth Tag
S	Including Serrated Washer
1	Quantity per kit
NP	Nickel Plated
20	Gland & Connector Size
M20	M20 x 1.5mm Male Entry Thread

Optional Accessories	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]	Dimensions/Weight (Metric Versions)		
	Metric	NPT		Metric	NPT	Min	Max		Across Flats [A]	Across Corners	Weight Kgs
12	M12 x 1.5	3/8"	16	M12 x 1.5	3/8" or 1/2"	0.9	6.0	52	19.0	21.0	0.085
12	M16 x 1.5	3/8" or 1/2"	16	M16 x 1.5	3/8" or 1/2"	0.9	6.0	50	25.4	28.0	0.159
16	M16 x 1.5	1/2" or 3/4"	16	M16 x 1.5	1/2" or 3/4"	4.0	8.4	56	25.4	28.0	0.173
20S	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	7.2	11.7	61	25.4	28.0	0.165
20	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	9.4	14.0	61	30.0	33.0	0.229
25	M25 x 1.5	3/4" or 1"	16	M25 x 1.5	3/4" or 1"	13.5	20.0	61	37.6	41.4	0.340
32	M32 x 1.5	1" or 1 1/4"	16	M32 x 1.5	1" or 1 1/4"	19.5	26.3	61	46.0	50.6	0.471
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	64	55.0	60.5	0.676
50S	M50 x 1.5	1 1/2" or 2"	16	M50 x 1.5	1 1/2" or 2"	28.1	38.2	65	65.0	71.5	0.835
50	M50 x 1.5	2"	16	M50 x 1.5	2"	33.1	44.1	65	65.0	71.5	0.777
63S	M63 x 1.5	2" or 2 1/2"	19	M63 x 1.5	2" or 2 1/2"	39.2	50.1	68	80.0	88.0	1.307
63	M63 x 1.5	2 1/2"	19	M63 x 1.5	2 1/2"	46.7	56.0	68	80.0	88.0	1.211
75S	M75 x 1.5	2 1/2" or 3"	19	M75 x 1.5	2 1/2" or 3"	52.1	62.0	68	90.0	99.0	1.489
75	M75 x 1.5	3"	19	M75 x 1.5	3"	58.0	68.0	68	90.0	99.0	1.368
80	M80 x 2.0	3" or 3 1/2"	25	M80 x 2.0	3" or 3 1/2"	62.2	72.0	85	104.0	115.2	2.775
85	M85 x 2.0	3" or 3 1/2"	25	M85 x 2.0	3" or 3 1/2"	69.0	78.0	85	104.0	115.2	2.437
90	M90 x 2.0	3 1/2" or 4"	25	M90 x 2.0	3 1/2" or 4"	74.0	84.0	86	114.0	125.7	3.062
100	M100 x 2.0	3 1/2" or 4"	25	M100 x 2.0	3 1/2" or 4"	82.0	90.0	86	114.0	125.7	2.559

All dimensions in mm

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