



# PEPPERS CABLE GLANDS

PRODUCTS AND ACCESSORIES 2017 ISSUE 03A

# MORE THAN THE SUM OF OUR PARTS

At Peppers, we are known for the manufacture and supply of what are widely regarded as one of the best cable gland products and accessories available. Although this is a key element of what we do – it's only part of the story.

We take pride in providing our customers with the confidence and peace of mind that comes with a total cable gland solution. From the design engineers who specify our products, to the fitter who installs them, to the organisations that ultimately utilise them all over the world – Peppers products can be relied upon 24 hours a day, 7 days a week, 365 days of the year.

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

## On-time. Every time

Peppers is famously fast when it comes to lead times and turnaround. This is partly due to a determination to protect that reputation - but also due to the structure of the business and smart manufacturing processes. A satellite manufacturing unit and global distribution network gives Peppers full control of the supply chain. Our clever “component manufacturing” process allows us to remain agile and react fast to customer demands.

## Knowledgeable and Trusted

We are proud of our reputation for knowledge and expertise in the industry. When you're in the business of supplying products into hazardous areas, it's comforting for customers to know they're receiving accurate technical information 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

Peppers R&D Engineering Team is continually developing new designs for cutting edge products to benefit our customers:

### Versatile and Multi-Use Solutions

New innovative gland styles such as the A\*RCC, A\*RCM, A\*RCF and LT-C provide added versatility in conduit installations. The CR-S\*M, unlike any other gland on the market, known as a “Conduit Stopper Box”, can effectively stop explosions from either direction. Peppers has also integrated its ingenious CROCKLOCK® single orientation clamping system and Deluge protection concept into various gland designs ensuring more installations are completed without mistakes.

### 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.

### Gland & Enclosure Accessories

Peppers offer a full range of approved hazardous area connectivity solutions to complement their extensive range of glands. Popular enclosure accessories include adapters and reducers, stopping plugs, breather drains, right angle adapters and more, all available in multiple thread conversion options such as Metric, NPT and PG just to name a few. Gland accessories specifically made for use with Peppers glands include locknuts, sealing washers, serrated washers, earth tags and shrouds. Whatever you need for your installation, we've got you covered.

## 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.

**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	✓	✓	✗	✓	✓ CROCKLOCK®	✗	✓	✓	✓	✓	✗	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	✓	✗	✗	✗	✗	✗	✓	✓	✓	✓	✗	IP66 - IP68	3.1.0
A8RC	✓	✗	✗	✗	✗	Rotating Metallic Conduit	✓	✓	✓	✗	✗	IP66 - IP68	3.3.0
A8CM	✓	✗	✗	✗	✗	Fixed Male	✓	✓	✓	✓	✗	IP66 / IP68 - NEMA 4X	3.3.1
A8CF	✓	✗	✗	✗	✗	Fixed Female	✓	✓	✓	✓	✗	IP66 / IP68 - NEMA 4X	3.3.2
D8X	✗	✓	✗	✗	✓	✗	✓	✓	✓	✓	✗	IP66 / IP68 - NEMA 4X	3.4.0
E8X	✓	✓	✗	✗	✓	✗	✓	✓	✓	✓	✗	IP66 / IP68 - NEMA 4X	3.5.0
E8XCM	✓	✓	✗	✗	✓	✗	✓	✓	✓	✗	✗	IP66 / IP68	3.5.1
E8XCF	✓	✓	✗	✗	✓	✗	✓	✓	✓	✗	✗	IP66 / IP68	3.5.2
PF	✓	✗	✗	✗	✗	✗	✗	✓	✗	✓	✗	IP66 - IP68	3.7.0
CR-C	✓	✓	✓	✓	✓ CROCKLOCK®	✗	✓	✓	✓	✓	✗	IP66 - IP68 NEMA 4X - DELUGE	4.1.0
CR-X	✗	✓	✓	✓	✗	✗	✓	✓	✓	✓	✗	IP66 - IP68 NEMA 4X - DELUGE	4.2.0
CR-U	✓	✓	✓	✓	✗	✗	✓	✓	✓	✓	✗	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	✓	✓	✓	✗	✓ CROCKLOCK®	✗	✓	✓	✓	✓	✓	IP66 - IP68 NEMA 4X - DELUGE	4.5.0
UL-X	✗	✓	✓	✗	✗	✗	✓	✓	✓	✓	✗	IP66 - IP68 NEMA 4X - DELUGE	4.6.0
UL-U	✓	✓	✓	✗	✗	✗	✓	✓	✓	✓	✗	IP66 - IP68 NEMA 4X - DELUGE	4.6.1
A	✓	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	IP66 - IP68	5.1.0
E	✓	✓	✗	✓	✓	✗	✗	✗	✗	✗	✗	IP66 - IP68	5.2.0
C	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	IP66	5.2.2
C*IE	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗	✗	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 - Earhtags - 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

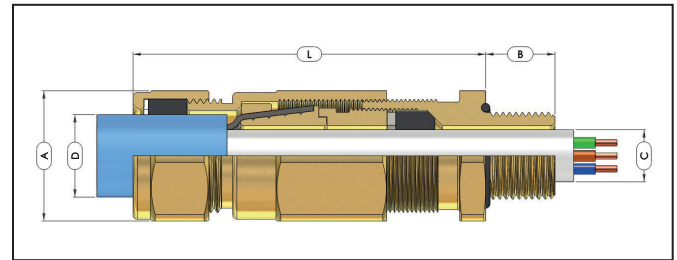
Part No's:

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 I 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 "CROCLOCK®", 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.

<b>Compliance Standards:</b>	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
<b>Certification:</b>	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 Class I Zone 1 Ex d IIC / Ex e II CEC - Canada 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)
<b>Certificate No.</b>	ATEX BAS 01ATEX2271X & SIR A 09ATEX1221X IECEX IECEX SIR 07.0099X CEC - Canada CSA 1356011 NEC - USA CSA 2627370 EAC RU C-GB.Г506.В.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-GA4BO-0669X & 15-GA4BO-0670X ABS 14-LD463991-1-PDA LLOYD'S 10/00056(E1) RMRS 14.02755.315



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

CR-1B/NP/20/M20

<b>CR</b>	Gland featuring "CROCLOCK®", single orientation clamping
<b>1</b>	Neoprene Seal (1) - Silicone Seal (3) - Neoprene/Lead (2) - Silicone/Lead (4)
<b>B</b>	Brass (B) - Stainless Steel (S)
<b>R</b>	Reduced Bore Seal
<b>C</b>	PVC Shroud (C) - PCP Shroud (P) - LSOH Silicone Shroud (3)
<b>Options</b>	K-V-H Locknut, Earth Tag & Nylon (K), Fibre (V) or PTFE (H) IP Washer
<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 1.5 Male Entry Thread
<b>Optional Accessories</b>	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)

**IP Rating:** IP66 & IP68 (50 metres - 7 Days), Type 4X & DT501:1991  
**Operating Temperature:** Neoprene Seals -35°C to +90°C / Silicone Seals -60°C to +180°C  
**Materials:** Brass or Stainless Steel  
**Plating:** Electroless Nickel

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
	Metric	NPT		Inner Sheath [C]		Outer Sheath [D]		Reduced [D]				Across Flats [A]	Across Corners	Weight Kgs	
				Min	Max	Min	Max	Min	Max						
16	M20 x 1.5	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	1/2" 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	1/2" 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	1/2" 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 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 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

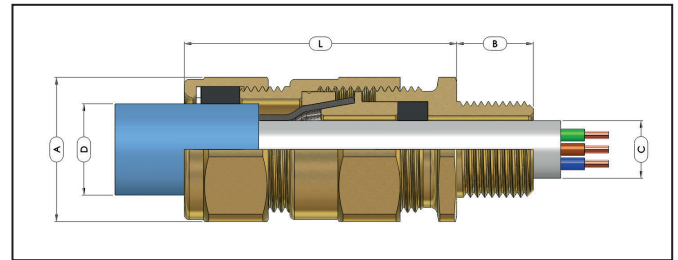
Part Numbers:

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 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. 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.

<b>Compliance Standards:</b>	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
<b>Certification:</b>	ATEX II 2D 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 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 IIC Gb / Ex e IIC Gb / Ex ta IIIC Da INMETRO - Brazil Exd 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 CCoE - 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)
<b>Certificate No.</b>	ATEX SIRA 01ATEX1271X & SIRA 09ATEX1221X IECEx IECEx SIR 07.0097X CEC - Canada CSA 1356011 NEC - USA CSA 2627370 EAC RU C-GB.Γ606.B.00098 INMETRO - Brazil NCC 13.2186 X SAC - China NEPSI GY16.1400X UKRAINE UA.TR.047.C.0408-13 & 2937 CCoE - India PESO P365300/2 & P365300/13 ABS 14-LD463991-1-PDA LLOYD'S 10/00056(E1) RMRS 14.02755.315
<b>IP Rating:</b>	IP66 & IP68 (50 metres - 7 days), Type 4X
<b>Operating Temperature:</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



**Example Part Numbering**

E1WBF/NP/20/050NPT

(See below for details)

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

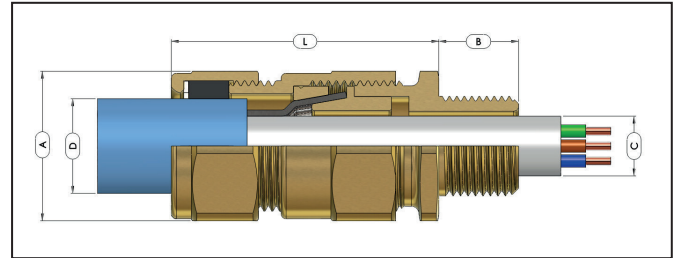
C	1	W	B	*	E	*
	3	X	S	IE		R
			A			



"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.

<b>Compliance Standards:</b>	EN 60079-0, EN 60079-7, EN 60079-31 IEC 60079-0, IEC 60079-7, IEC 60079-31 & IEC 60529 C22.2 (see certificate), CAN/CSA 60079-0/7 UL514B, UL1203, UL2225, UL50E, ANSI/UL 60079-0/7, ISA 60079-31
<b>Certification:</b>	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 Exe IIU INMETRO - Brazil Ex e IIC Gb / Ex ta IIIC Da SAC - China Ex e IIC UKRAINE Ex e II X CCoE - 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)
<b>Certificate No.</b>	ATEX SIRA 01ATEX1271X IECEX IECEX SIR 07.0097X CEC - Canada CSA 1356011 NEC - USA CSA 2627370 EAC RU C-GB.Г506.В.00098 INMETRO - Brazil NCC 13.2186 X SAC - China NEPSI GY16.1400X UKRAINE UA.TR.047.C.0408-13 & 2937 CCoE - India PESO P365300/13 ABS 14-LD463991-1-PDA LLOYD'S 10/00056(E1) RMRS 14.02755.315

<b>IP Rating:</b>	IP66, Type 4X
<b>Operating Temperature:</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



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

C1WBE/NP/20/050NPT

<b>C</b>	Gland featuring armour specific clamping
<b>1</b>	Neoprene Seal (1) - Silicone Seal (3)
<b>W</b>	SWA (W) / SWB or STA (X)
<b>B</b>	Aluminium (A) / Brass (B) / Stainless Steel (S)
<b>IE</b>	Integral Earth (see page TR-4)
<b>E</b>	Ex e & Ex ta Certification
<b>R</b>	Reduced Bore Outer Sheath Seal
<b>C</b>	PVC Shroud (C) - PCP Shroud (P) - LSOH Silicone Shroud (3)
<b>K-V-H</b>	Locknut, Earth Tag & Nylon (K), Fibre (V) or PTFE (H) IP Washer
<b>S</b>	Including Serrated Washer
<b>1</b>	Quantity per kit
<b>NP</b>	Nickel Plated
<b>20</b>	Gland shell size
<b>050NPT</b>	1/2"NPT Male Entry Thread
<b>Optional Accessories</b>	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					
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:
- 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.

**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			



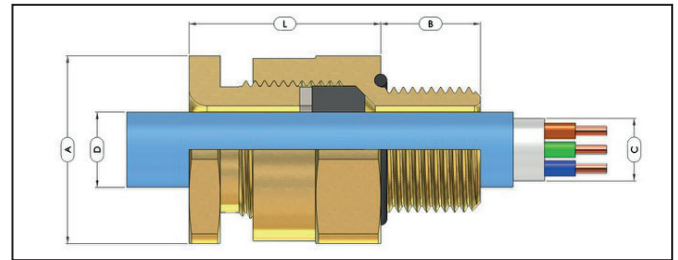
"A" type glands are certified Flameproof Ex d, Increased Safety Ex e, Restricted Breathing Ex nR and Dust Protected Ex ta. They are suitable for use in Zone 1 and 2 for Gas Groups IIA, IIB and IIC and additionally for use in Zones 20, 21 and 22 for Dust Groups IIIA, IIIB and IIIC. Commonly referred to 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 2D G 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 2 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 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.TB06.B.00098  
INMETRO - Brazil NCC 13.2012 X  
SAC - China NEPSI GY16.1399X  
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

<b>A</b>	Type of gland featuring controlled displacement sealing
<b>2</b>	Neoprene Seals (2) - Silicone (3) - Neoprene/Lead (1) - Silicone/Lead (4)
<b>L</b>	Peppers Standard Designation
<b>B</b>	Aluminium (A) / Brass (B) / Stainless Steel (S)
<b>F</b>	Multiple Certification
<b>C</b>	PVC Shroud (C) - PCP Shroud (P) - Silicone LSOH 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
<b>Optional Accessories</b>	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)

CABLE GLAND SELECTION TABLE										
Gland Size	Entry Thread Size		ISO Thread Length [B]	Cable Acceptance Details		Nominal Protusion Length [L]	Dimensions/Weight (Metric Versions)			Shroud Size
	Metric	NPT		Outer Sheath [D]			Across Flats [A]	Across Corners	Weight Kgs	
				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
	2			S	
	3			A	
	4				



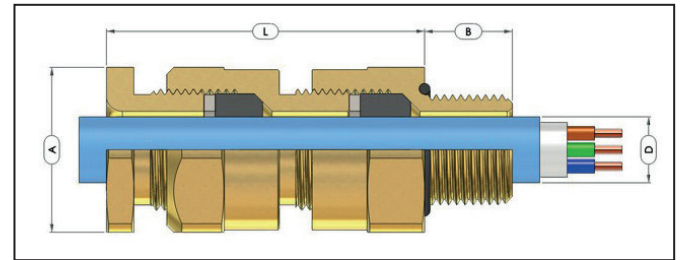
"A\*LDS" type glands are certified Flameproof Ex d, Increased Safety Ex e, Restricted Breathing Ex nR and Dust Protected Ex ta. They are suitable for use in Zone 1 and 2 for Gas Groups IIA, IIB and IIC and additionally for use in Zones 20, 21 and 22 for Dust Groups IIIA, IIIB and IIIC. Commonly referred 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 IIC U / 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.F506.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**

A2LDSBF/NP/20/M20

(See below for details)

<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	
<b>Optional Accessories</b>	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) / 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
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

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)

Ex d : Ex e : Ex nR : Ex ta : IP66 : IP68

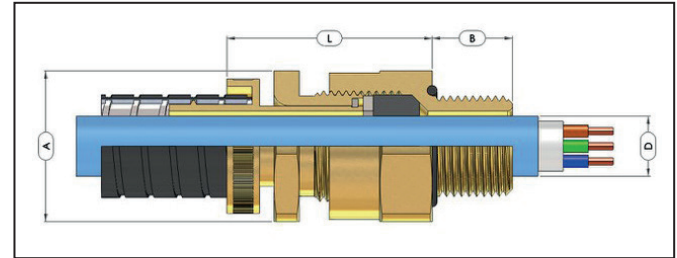
Part Numbers:

A	1	R	CC	B	F
	2			S	
	3			A	
	4				



"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.

<b>Compliance Standard:</b>	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
<b>Certification:</b>	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 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)



**Example Part Numbering** A2RCCBF/NP/20-1/M20  
(See below for details)

<b>A</b>	Gland featuring controlled displacement sealing
<b>2</b>	Neoprene Seal (2) - Silicone Seal (3) - Neoprene/Lead (1) - Silicone/Lead (4)
<b>R</b>	Rotating Conduit Design
<b>CC</b>	Metallic Flexible Conduit Connector
<b>B</b>	Aluminium (A) / Brass (B) / Stainless Steel (S)
<b>F</b>	Multiple Certification
<b>NP</b>	Nickel Plated
<b>20-1</b>	Gland & Connector 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)

<b>Certificate No.</b>	ATEX SIRA 01ATEX1272X & SIRA 09ATEX1221X IECEx IECEx SIR 07.0096X EAC RU C-GB.Г606.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
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<b>IP Rating:</b>	IP66 & IP68 (50 metres - 7 Days)
<b>Operating Temperature:</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

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	I/D	Max O/D		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	n/a
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	n/a
12-2	M12 x 1.5	3/8"	16	0.9	6.0	9.1	14.3	35	19.0	20.9	0.083	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
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	n/a
50-1	M50 x 1.5	2"	16	33.1	44.1	48.4	55.8	50	65.0	71.5	0.575	n/a
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	n/a
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	n/a

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

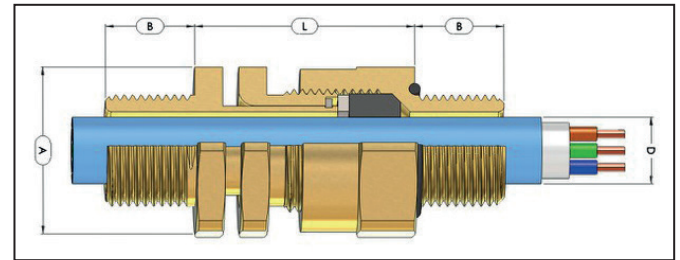
Part Numbers:

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.

<b>Compliance Standards:</b>	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
<b>Certification:</b>	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 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 Exd IICU / Exe IIU / ExnR IIU EAC Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc INMETRO - Brazil Ex d IIC / Ex e IIC SAC - China Ex d IIC X / Ex e II X UKRAINE Petroleum Rules 2002 (PESO) CCoE - India 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
<b>Certificate No.</b>	ATEX SIRA 01ATEX1272X & SIRA 09ATEX1221X IECEX IECEX SIR 07.0096X NEC - USA CSA 2627370 EAC RU C-GB.F506.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
<b>IP Rating:</b>	IP66 & IP68 (50 metres - 7 Days), Type 4X
<b>Operating Temperature:</b>	Neoprene Seals -35°C to +90°C / Silicone Seals -60°C to +180°C
<b>Materials:</b>	Brass, Stainless Steel or Aluminium
<b>Plating:</b>	Electroless Nickel



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

A2RCMBF050NPT/NP/20/M20

<b>A</b>	Gland featuring a controlled displacement seal
<b>R</b>	Neoprene Seal (2) - Silicone Seal (3) - Neoprene/Lead (1) - Silicone/Lead (4)
<b>2</b>	Rotating Conduit Design
<b>CM</b>	Male Conduit Connection Thread
<b>B</b>	Aluminium (A) / Brass (B) / Stainless Steel (S)
<b>F</b>	Multiple Certification
<b>050NPT</b>	1/2"NPT Male 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 & Connector 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]	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"	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:

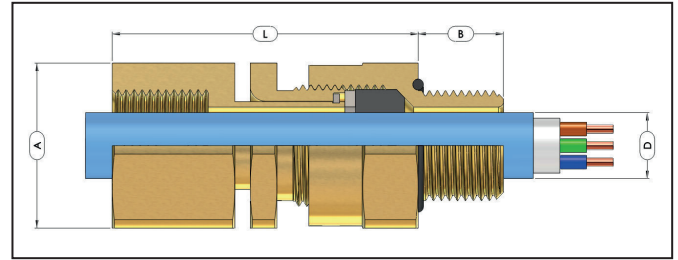
A	1	R	CF	B	F
	2			S	
	3			A	
	4				



"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.

<b>Compliance Standards:</b>	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
<b>Certification:</b>	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 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 Exd IICU / Exe IIU / ExnR IIU EAC Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc INMETRO - Brazil Ex d IIC / Ex e IIC SAC - China Ex d IIC X / Ex e II X UKRAINE Petroleum Rules 2002 (PESO) CCoE - India 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
<b>Certificate No.</b>	ATEX SIRA 01ATEX1272X & SIRA 09ATEX1221X IECEX IECEX SIR 07.0096X NEC - USA CSA 2627370 EAC RU C-GB.F506.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

<b>IP Rating:</b>	IP66 & IP68 (50 metres - 7 Days), Type 4X
<b>Operating Temperature:</b>	Neoprene Seals -35°C to +90°C / Silicone Seals -60°C to +180°C
<b>Materials:</b>	Brass, Stainless Steel or Aluminium
<b>Plating:</b>	Electroless Nickel



<b>Example Part Numbering</b> (See below for details)		<b>A2RCFBF050NPT/NP/20/M20</b>
<b>A</b>	Gland featuring controlled displacement sealing	
<b>R</b>	Neoprene Seal (2) - Silicone Seal (3) - Neoprene/Lead (1) - Silicone/Lead (4)	
<b>2</b>	Rotating Conduit Design	
<b>CF</b>	Female Conduit Connection Thread	
<b>B</b>	Aluminium (A) / Brass (B) / Stainless Steel (S)	
<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 & Connector 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]	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"	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

- 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\*LCM - (Single Compression Gland with Male 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	CM	B	F
	2			S	
	3			A	
	4				



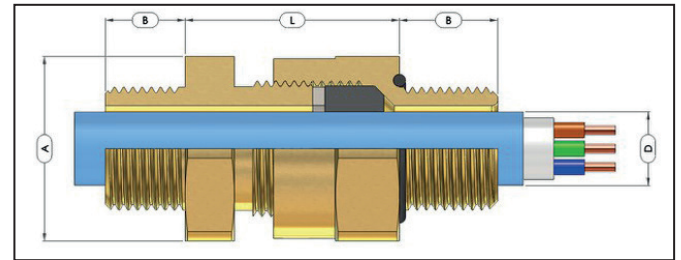
"A\*LCM" type glands are certified Flameproof Ex d, Increased Safety Ex e, Restricted Breathing Ex nR and Dust Protected Ex ta. They are suitable for use in Zone 1 and 2 for Gas Groups IIA, IIB and IIC and additionally for use in Zones 20, 21 and 22 for Dust Groups IIIA, IIIB and IIIC. They provide a 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 male 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, 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 AExe 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 01ATEX1222X & SIR 09ATEX1221X  
IECEX IECEx SIR 07.0096X  
CEC - Canada CSA 1356011  
NEC - USA CSA 2627370  
EAC RU C-GB, F506.B.00098  
INMETRO - Brazil NCC 13.2012 X  
SAC - China NEPSI GY116.1399X  
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)

A2LCMBF050NPT/NP/20/M20

<b>A</b>	Gland featuring controlled displacement sealing
<b>2</b>	Neoprene Seal (2) - Silicone Seal (3) - Neoprene/Lead (1) - Silicone/Lead (4)
<b>L</b>	Peppers Standard Designation
<b>CM</b>	Male Conduit Connection Thread
<b>B</b>	Brass (B) / Stainless Steel (S) / Aluminium (A)
<b>F</b>	Multiple Certification
<b>050NPT</b>	1/2" NPT Male 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) / 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)

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	25	19.0	21.0	0.048
12	M16 x 1.5	3/8" or 1/2"	16	M16 x 1.5	3/8" or 1/2"	0.9	6.0	26	25.4	28.0	0.117
16	M16 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	4.0	8.4	30	25.4	28.0	0.131
20S	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	7.2	11.7	35	25.4	28.0	0.134
20	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	9.4	14.0	35	30.0	33.0	0.150
25	M25 x 1.5	3/4" or 1"	16	M25 x 1.5	3/4" or 1"	13.5	20.0	35	37.6	41.4	0.215
32	M32 x 1.5	1" or 1 1/4"	16	M32 x 1.5	1" or 1 1/4"	19.5	26.3	35	46.0	50.6	0.293
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	38	55.0	60.5	0.472
50S	M50 x 1.5	1 1/2" or 2"	16	M50 x 1.5	1 1/2" or 2"	28.1	38.2	38	65.0	71.5	0.583
50	M50 x 1.5	2"	16	M50 x 1.5	2"	33.1	44.1	38	65.0	71.5	0.525
63S	M63 x 1.5	2" or 2 1/2"	19	M63 x 1.5	2" or 2 1/2"	39.2	50.1	38	80.0	88.0	0.899
63	M63 x 1.5	2 1/2"	19	M63 x 1.5	2 1/2"	46.7	56.0	38	80.0	88.0	0.803
75S	M75 x 1.5	2 1/2" or 3"	19	M75 x 1.5	2 1/2" or 3"	52.1	62.0	38	90.0	99.0	0.994
75	M75 x 1.5	3"	19	M75 x 1.5	3"	58.0	68.0	38	90.0	99.0	0.873
80	M80 x 2.0	3" or 3 1/2"	25	M80 x 2.0	3" or 3 1/2"	62.2	72.0	47	104.0	115.2	1.640
85	M85 x 2.0	3" or 3 1/2"	25	M85 x 2.0	3" or 3 1/2"	69.0	78.0	47	104.0	115.2	1.462
90	M90 x 2.0	3 1/2" or 4"	25	M90 x 2.0	3 1/2" or 4"	74.0	84.0	47	114.0	125.7	1.713
100	M100 x 2.0	3 1/2" or 4"	25	M100 x 2.0	3 1/2" or 4"	82.0	90.0	48	114.0	125.7	1.757

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\*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				



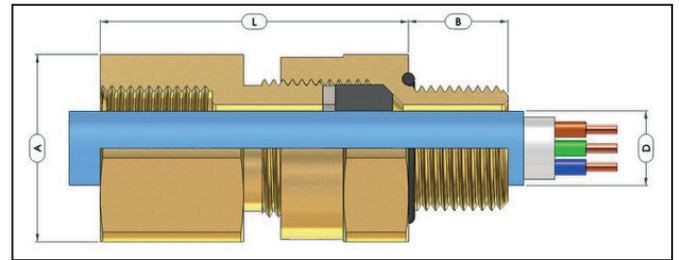
"A\*LCF" type glands are certified Flameproof Ex d, Increased Safety Ex e, Restricted Breathing Ex nR and Dust Protected Ex ta. They are suitable for use in Zone 1 and 2 for Gas Groups IIA, IIB and IIC and additionally for use in Zones 20, 21 and 22 for Dust Groups IIIA, IIIB and IIIC. They provide a 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, 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 SIR A 01ATEX1272X & SIR A 09ATEX1221X  
IECEx IECEx SIR 07.0096X  
CEC - Canada CSA 1356011  
NEC - USA CSA 2627370  
EAC RU C-GB.T606.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** A2LCFBF050NPT/NP/20/M20  
(See below for details)

<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.

**Cable Gland Type A8** - (Single Compression Gland designed for Unarmoured Flat Cable)

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

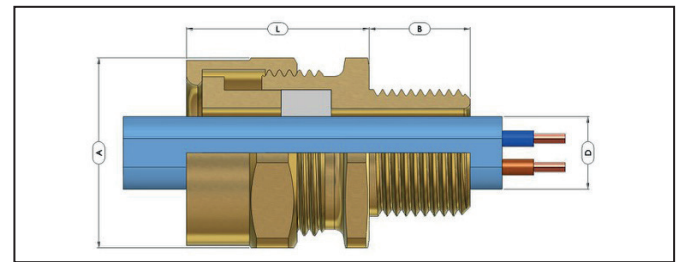
Part Numbers:

A	B	B	F
		S	



"A8" 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. Developed for flat cables, they provide controlled Ex d sealing and have been tested to IP66 and IP68 to 50 metres. The A8 version is designed to accommodate unarmoured and armoured cables where sealing and retention is required only on the outer sheath.

<b>Compliance Standards:</b>	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, ANSI/UL 60079-0/7, ISA 60079-31
<b>Certification:</b>	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 SAC - China Ex d IIC / Ex e IIC INMETRO - Brazil Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc 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)



<b>Certificate No.</b>	ATEX SIRA 01ATEX1270X & SIRA 09ATEX1221X IECEX IECEX SIR 05.0020X NEC - USA CSA 2627370 EAC RU C-GB.ГБ06.В.00098 SAC - China NEPSI GYJ16.1398X INMETRO - Brazil NCC 13.2187 X UKRAINE UA.TR.047.C.0408-13 & 2937 CCoE - India PESO P365300/2 & P365300/6 ABS 14-LD463991-1-PDA LLOYD'S 10/00056(E1) RMRS 14.02755.315
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**IP Rating:** IP66 & IP68 (50 metres - 7 Days)

**Operating Temperature:** Silicone Seals -60°C to +180°C

**Materials:** Brass or Stainless Steel

**Plating:** Electroless Nickel

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

A8BF/NP/20R/M20

<b>A</b>	Gland for Unarmoured Cables	
<b>B</b>	Silicone Seal for flat cables	
<b>B</b>	Brass (B) / Stainless Steel (S)	
<b>F</b>	Multiple Certification	
NP	Nickel Plated	
<b>20R</b>	Gland shell size	
<b>M20</b>	M20 x 1.5mm Male Entry Thread	
<b>Optional Accessories</b>	Locknut	Brass (ACBLN) / Stainless Steel (ACSLN)
	Earth tag	Brass (ACBET) / Stainless Steel (ACSET)
	IP Washers	Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW)
	Serrated Washers	Stainless Steel (ACSSW)

**CABLE GLAND SELECTION TABLE**

Gland Size	Entry Thread Size		ISO Thread Length [B]	Cable Outer Sheath [D]				Nominal Protrusion Length [L]	Dimensions/Weight (Metric Versions)			Metric Thread Shroud Size
	Metric	NPT		Width		Thickness			Across Flats [A]	Across Corners	Weight Kgs (Metric)	
				Min	Max	Min	Max					
20S	M20 x 1.5 M25 x 1.5	3/4" or 1/2"	16	6.3	11.7	4.0	7.0	33	30.0	33.0	0.104	N/A
20R	M20 x 1.5 M25 x 1.5	3/4" or 1/2"	16	8.1	13.5	5.8	6.2	33	30.0	33.0	0.104	N/A
20	M20 x 1.5 M25 x 1.5	3/4" or 1/2"	16	10.3	13.5	5.6	9.0	33	30.0	33.0	0.103	N/A
** 25	M25 x 1.5	3/4" or 1"	16	10.6	16.2	4.0	7.0	31	37.6	41.4	0.162	N/A

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.
  - 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, IECEx and CSA is required, this must be clearly requested at time of enquiry / order.
  - \*\* Size 25mm is only ATEX & IECEx certified.

**Cable Gland Type A8RC** - (Single Compression Gland for use with Unarmoured Flat Cable, featuring a Rotating Flexible Metallic Conduit Connector)

**Ex d : Ex e : Ex nR : Ex ta : IP66 : IP68**

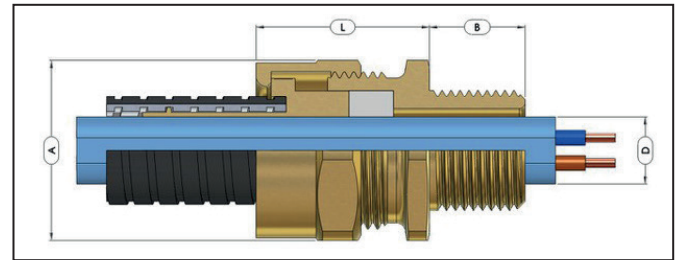
 Part Numbers: 

A	8	RC	B	F
			S	



“A8RC” 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. Developed for flat cables, they provide controlled Ex d sealing and have been tested to IP66 and IP68 to 50 metres. The “A8RC” version is designed to accommodate unarmoured cables where sealing and retention is required only on the outer sheath. The gland features a rotating flexible metallic conduit connection.

<b>Compliance Standards:</b>	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												
<b>Certification:</b>	<table border="0"> <tr> <td>ATEX</td> <td>II 1D 2G Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc</td> </tr> <tr> <td>IECEX</td> <td>Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da</td> </tr> <tr> <td>INMETRO - Brazil</td> <td>Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc</td> </tr> <tr> <td>SAC - China</td> <td>Ex d IIC / Ex e IIC</td> </tr> <tr> <td>CCoE - India</td> <td>Petroleum Rules 2002 (PESO)</td> </tr> <tr> <td>LLOYD'S</td> <td>Enclosure Systems (Part 1B)</td> </tr> </table>	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	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	CCoE - India	Petroleum Rules 2002 (PESO)	LLOYD'S	Enclosure Systems (Part 1B)
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												
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												
CCoE - India	Petroleum Rules 2002 (PESO)												
LLOYD'S	Enclosure Systems (Part 1B)												
<b>Certificate No.</b>	<table border="0"> <tr> <td>ATEX</td> <td>SIRA 01ATEX1270X &amp; SIRA 09ATEX1221X</td> </tr> <tr> <td>IECEX</td> <td>IECEX SIR 05.0020X</td> </tr> <tr> <td>INMETRO - Brazil</td> <td>NCC 13.2187 X</td> </tr> <tr> <td>SAC - China</td> <td>NEPSI GYJ16.1398X</td> </tr> <tr> <td>CCoE - India</td> <td>PESO P365300/2 &amp; P365300/6</td> </tr> <tr> <td>LLOYD'S</td> <td>10/00056(E1)</td> </tr> </table>	ATEX	SIRA 01ATEX1270X & SIRA 09ATEX1221X	IECEX	IECEX SIR 05.0020X	INMETRO - Brazil	NCC 13.2187 X	SAC - China	NEPSI GYJ16.1398X	CCoE - India	PESO P365300/2 & P365300/6	LLOYD'S	10/00056(E1)
ATEX	SIRA 01ATEX1270X & SIRA 09ATEX1221X												
IECEX	IECEX SIR 05.0020X												
INMETRO - Brazil	NCC 13.2187 X												
SAC - China	NEPSI GYJ16.1398X												
CCoE - India	PESO P365300/2 & P365300/6												
LLOYD'S	10/00056(E1)												
<b>IP Rating:</b>	IP66 & IP68 (50 metres - 7 Days)												
<b>Operating Temperature:</b>	Silicone Seals -60°C to +180°C												
<b>Materials:</b>	Brass or Stainless Steel												
<b>Plating:</b>	Electroless Nickel												


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

**A8RCBF/NP/20-1/M20**

<b>A</b>	Gland designed for use with Unarmoured Cables
<b>8</b>	Silicone Seal for Flat Cable
<b>RC</b>	Rotating Metallic Flexible Conduit Connector
<b>B</b>	Brass (B) / Stainless Steel (S)
<b>F</b>	Multiple Certification
<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>20-1</b>	Gland shell size
<b>M20</b>	M20 x 1.5 Male Entry Thread
<b>Options</b>	
<b>Optional Accessories</b>	
Locknut	Brass (ACBLN) / Stainless Steel (ACSLN)
Earth tag	Brass (ACBET) / Stainless Steel (ACSET)
IP Washers	Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW)
Serrated Washers	Stainless Steel (ACSSW)

**CABLE GLAND SELECTION TABLE**

GLAND SIZE	Entry Thread Size		Cable Outer Sheath [D]				Typical Conduit Dia		Nominal Protrusion Length [L]	Dimensions/Weight (Metric)		
	Metric	NPT	Width		Thickness		I/D	Max O/D		Across Flats [A]	Across Corners	Weight Kgs
			Min	Max	Min	Max						
20S-1	M20 x 1.5	1/2" or 3/4"	6.3	11.2	4.0	7.0	13.0	17.1	31	30.0	33.0	0.117
20S-2	M20 x 1.5	1/2" or 3/4"	6.3	11.7	4.0	7.0	15.0	19.3	31	30.0	33.0	0.125
20S-3	M20 x 1.5	1/2" or 3/4"	6.3	11.7	4.0	7.0	16.9	21.5	31	30.0	33.0	0.117
20-1	M20 x 1.5	1/2" or 3/4"	10.3	11.2	5.6	9.0	13.0	17.1	31	30.0	33.0	0.117
20-2	M20 x 1.5	1/2" or 3/4"	10.3	13.5	5.6	9.0	15.0	19.3	31	30.0	33.0	0.125
20-3	M20 x 1.5	1/2" or 3/4"	10.3	13.5	5.6	9.0	16.9	21.5	31	30.0	33.0	0.117
20R-1	M20 x 1.5	1/2" or 3/4"	8.1	11.2	5.8	6.2	13.0	17.1	32	30.0	33.0	0.118
20R-2	M20 x 1.5	1/2" or 3/4"	8.1	13.5	5.8	6.2	15.0	19.3	32	30.0	33.0	0.126
20R-3	M20 x 1.5	1/2" or 3/4"	8.1	13.5	5.8	6.2	16.9	21.5	32	30.0	33.0	0.118
25-1	M25-1.5	3/4" or 1"	10.6	16.2	4.0	7.0	16.9	23.8	31	37.6	41.4	0.164
25-2	M25-1.5	3/4" or 1"	10.6	16.2	4.0	7.0	18.7	24.8	31	37.6	41.4	0.175
25-3	M25-1.5	3/4" or 1"	10.6	16.2	4.0	7.0	21.1	26.8	31	37.6	41.4	0.178
25-4	M25-1.5	3/4" or 1"	10.6	16.2	4.0	7.0	20.7	27.8	31	37.6	41.4	0.185

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.
  - 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.
  - It is the installer’s responsibility to ensure that the conduit is secured correctly.
  - If fit testing is required for specific conduit please contact Peppers.
  - Where approval in addition to ATEX and IECEx is required, this must be clearly requested at time of enquiry / order.

**Cable Gland Type A8CM** (Single Compression Gland designed for use with Unarmoured Flat Cables and featuring a Male Conduit Connection)

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

Part Numbers:

A	B	CM	B	F
			S	

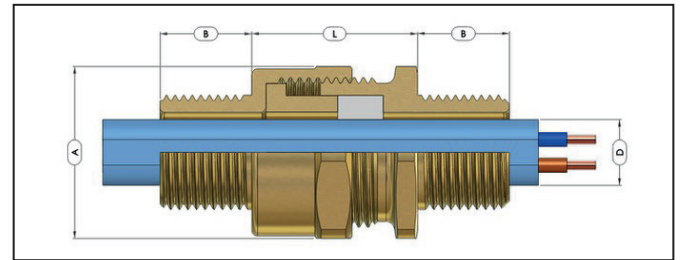


"A8CM" type glands are certified Flameproof Ex d, Increased Safety Ex e, Restricted Breathing Ex nR and Dust Protected Ex ta. They are suitable for use in Zone 1 and 2 for Gas Groups IIA, IIB and IIC and additionally for use in Zones 20, 21 and 22 for Dust Groups IIIA, IIIB and IIIC. Developed for flat cables, they provide controlled Ex d, IP sealing and have been tested to IP66 and IP68 to 50 metres. The "A8CM" version is designed to accommodate unarmoured cables where sealing and retention is required only on the outer sheath and additionally provides a male thread for the connection of conduit.

**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 (except size 25)	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 01ATEX1270X & SIRA 09ATEX1221X
IECEX	IECEX SIR 05.0020X
NEC - USA	CSA 2627370
EAC	RU C-GB.ГБ06.В.00098
INMETRO - Brazil	NCC 13.2187 X
SAC - China	NEPSI GYJ16.1398X
UKRAINE	UA.TR.047.C.0408-13 & 2937
CCoE - India	PESO P365300/2 & P365300/6
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:** Silicone Seals -60°C to +180°C

**Materials:** Brass or Stainless Steel

**Plating:** Electroless Nickel

**Example Part Numbering** A8CMBFM20/NP/20/M20  
(See below for details)

<b>A</b>	Gland designed for use with Unarmoured Cables	
<b>B</b>	Silicone Seal for Flat Cables	
<b>CM</b>	Male Conduit Connection Thread	
<b>B</b>	Brass (B) / Stainless Steel (S)	
<b>F</b>	Multiple Certification	
<b>M20</b>	M20 x 1.5 Male 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 1.5 Male Entry Thread	
<b>Optional Accessories</b>	Locknut	Brass (ACBLN) / Stainless Steel (ACSLN)
	Earth tag	Brass (ACBET) / Stainless Steel (ACSET)
	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]	Connection Thread Options		Cable Outer Sheath [D]				Nominal Protrusion Length [L]	Dimensions/Weight (Metric Versions)		
	Metric	NPT		Metric	NPT	Width		Thickness			Across Flats [A]	Across Corners	Weight Kgs
						Min	Max	Min	Max				
20S	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	6.3	11.7	4.0	7.0	31	30.0	33.0	0.132
20R	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	8.1	13.5	5.8	6.2	32	30.0	33.0	0.133
20	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	10.3	13.5	5.6	9.0	31	30.0	33.0	0.132
25	M25 x 1.5	3/4" or 1"	16	M25 x 1.5	3/4" or 1"	10.6	16.2	4.0	7.0	31	37.6	41.4	0.280

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.
  - 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 A8CF** (Single Compression Gland designed for use with Unarmoured Flat Cables and featuring a Female Conduit Connection)

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

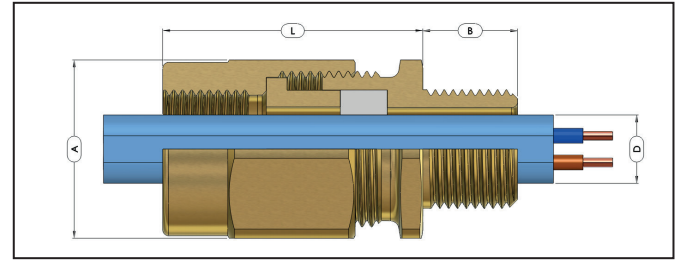
Part Numbers:

A	B	CF	B	F
			S	



"A8CF" 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 IIC. Developed for flat cables, they provide controlled Ex d, IP sealing and have been tested to IP66 and IP68 to 50 metres. The "A8CF" version is designed to accommodate unarmoured cables where sealing and retention is required only on the outer sheath and additionally provides a female thread for the connection of conduit.

<b>Compliance Standards:</b>	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																						
<b>Certification:</b>	<table border="0"> <tr> <td>ATEX</td> <td>II 1D 2G Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc</td> </tr> <tr> <td>IECEX</td> <td>Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da</td> </tr> <tr> <td>NEC - USA (except size 25)</td> <td>Class I Zone 1 AEx e IIC Gb / Class II Zone 20 AEx ta IIIC Da Class II Division 1, Groups E, F &amp; G Class III, Enclosure Type 4X</td> </tr> <tr> <td>EAC</td> <td>Exd IIICU / Exe IIU / ExnR IIU</td> </tr> <tr> <td>INMETRO - Brazil</td> <td>Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc</td> </tr> <tr> <td>SAC - China</td> <td>Ex d IIC / Ex e IIC</td> </tr> <tr> <td>UKRAINE</td> <td>Ex d IIC X / Ex e II X</td> </tr> <tr> <td>CCoE - India</td> <td>Petroleum Rules 2002 (PESO)</td> </tr> <tr> <td>ABS</td> <td>Specified ABS Rules</td> </tr> <tr> <td>LLOYD'S</td> <td>Enclosure Systems (Part 1B)</td> </tr> <tr> <td>RMRS</td> <td>Part XI of RS Rules for the classification &amp; construction of sea-going ships (ed. 2014)</td> </tr> </table>	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 (except size 25)	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 - 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)
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 (except size 25)	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 - 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)																						



**Example Part Numbering** A8CFBFM20/NP/20/M20  
(See below for details)

<b>A</b>	Gland designed for use with Unarmoured Cables	
<b>B</b>	Silicone Seal for Flat Cables	
<b>CF</b>	Female Conduit Connection Thread	
<b>B</b>	Brass (B) / Stainless Steel (S)	
<b>F</b>	Multiple Certification	
<b>M20</b>	M20 x 1.5 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 1.5 Male Entry Thread	
<b>Optional Accessories</b>	Locknut	Brass (ACBLN) / Stainless Steel (ACSLN)
	Earth tag	Brass (ACBET) / Stainless Steel (ACSET)
	IP Washers	Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW)
	Serrated Washers	Stainless Steel (ACSSW)

<b>Certificate No.</b>	<table border="0"> <tr> <td>ATEX</td> <td>SIRA 01ATEX1270X &amp; SIRA 09ATEX1221X</td> </tr> <tr> <td>IECEX</td> <td>IECEX SIR 05.0020X</td> </tr> <tr> <td>NEC - USA</td> <td>CSA 2627370</td> </tr> <tr> <td>EAC</td> <td>RU C-GB.F606.B.00098</td> </tr> <tr> <td>INMETRO - Brazil</td> <td>NCC 13.2187 X</td> </tr> <tr> <td>SAC - China</td> <td>NEPSI GYJ16.1398X</td> </tr> <tr> <td>UKRAINE</td> <td>UA.TR.047.C.0408-13 &amp; 2937</td> </tr> <tr> <td>CCoE - India</td> <td>PESO P365300/2 &amp; P365300/6</td> </tr> <tr> <td>ABS</td> <td>14-LD463991-1-PDA</td> </tr> <tr> <td>LLOYD'S</td> <td>10/00056(E1)</td> </tr> <tr> <td>RMRS</td> <td>14.02755.315</td> </tr> </table>	ATEX	SIRA 01ATEX1270X & SIRA 09ATEX1221X	IECEX	IECEX SIR 05.0020X	NEC - USA	CSA 2627370	EAC	RU C-GB.F606.B.00098	INMETRO - Brazil	NCC 13.2187 X	SAC - China	NEPSI GYJ16.1398X	UKRAINE	UA.TR.047.C.0408-13 & 2937	CCoE - India	PESO P365300/2 & P365300/6	ABS	14-LD463991-1-PDA	LLOYD'S	10/00056(E1)	RMRS	14.02755.315
ATEX	SIRA 01ATEX1270X & SIRA 09ATEX1221X																						
IECEX	IECEX SIR 05.0020X																						
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ABS	14-LD463991-1-PDA																						
LLOYD'S	10/00056(E1)																						
RMRS	14.02755.315																						

**IP Rating:** P66 & IP68 (50 metres - 7 Days), Type 4X

**Operating Temperature:** Silicone Seals -60°C to +180°C

**Materials:** Brass or Stainless Steel

**Plating:** Electroless Nickel

CABLE GLAND SELECTION TABLE													
Gland Size	Entry Thread Size		Metric Thread Length [B]	Connection Thread Options		Cable Outer Sheath [D]				Nominal Protusion Length [L] (Metric)	Dimensions/Weight (Metric Versions)		
	Metric	NPT		Metric	NPT	Width		Thickness			Across Flats [A]	Across Corners	Weight Kgs
						Min	Max	Min	Max				
20S	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	6.3	11.7	4.0	7.0	45	30.0	33.0	0.174
20R	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	8.1	13.5	5.8	6.2	46	30.0	33.0	0.175
20	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	10.3	13.5	5.6	9.0	45	30.0	33.0	0.174
25	M25 x 1.5	3/4" or 1"	16	M25 x 1.5	3/4" or 1"	10.6	16.2	4.0	7.0	48	37.6	41.4	0.194

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.
  - 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 D8X** - (Single Compression Gland designed for use with Armoured Flat Cable)

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

Part Numbers:

D	8	X	B	F
			S	



“D8X” 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 IIC. Developed for flat cables, they provide controlled Ex d sealing and have been tested to IP66 and IP68 to 50 metres. The “D8X” version is designed to accommodate armoured cables, sealing on the inner sheath and also incorporates a detachable armour specific clamping system.

**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 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)

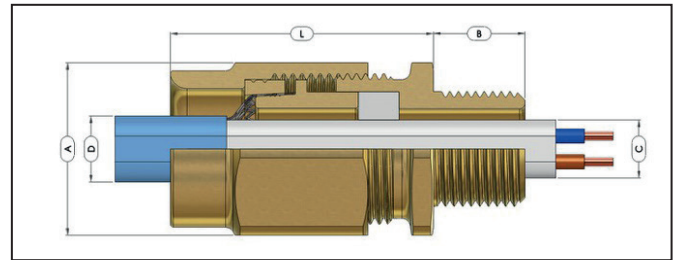
**Certificate No.** ATEX SIRA 01ATEX1270X & SIRA 09ATEX1221X  
IECEx IECEx SIR 05.0020X  
NEC - USA CSA 2627370  
EAC RU C-GB.Г506.В.00098  
INMETRO - Brazil NCC 13.2187 X  
SAC - China NEPSI GYJ16.1398X  
UKRAINE UA.TR.047.C.0408-13 & 2937  
CCoE - India PESO P365300/2 & P365300/6  
ABS 14-LD463991-1-PDA  
LLOYD'S 10/00056(E1)  
RMRS 14.02755.315

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

**Operating Temperature:** Silicone Seals -60°C to +180°C

**Materials:** Brass or Stainless Steel

**Plating:** Electroless Nickel



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

D8XBF/NP/20/050NPT

<b>D</b>	Gland designed for use with Armoured Cables	
<b>8</b>	Silicone Seal for flat cables	
<b>X</b>	Detachably Clamping for Braid Armour	
<b>B</b>	Brass (B) / Stainless Steel (S)	
<b>F</b>	Multiple Certification	
<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>050NPT</b>	1/2" NPT Male Entry Thread	
<b>Optional Accessories</b>	Locknut	Brass (ACBLN) / Stainless Steel (ACSLN)
	Earth tag	Brass (ACBET) / Stainless Steel (ACSET)
	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]	Cable Inner Sheath [C]				Cable Outer Sheath [D]		Armour Acceptance Range	Nominal Protrusion Length [L]	Dimensions/Weight (Metric Versions)		
				Width		Thickness		Width	Thickness			Across Flats [A]	Across Corners	Weight Kgs
	Metric	NPT		Min	Max	Min	Max	Max	Max					
20S	M20 x 1.5	1/2" or 3/4"	16	6.3	11.7	4.0	7.0	15.5	n/a	0.10-0.30	48	30.0	33.0	0.165
20R	M20 x 1.5	1/2" or 3/4"	16	8.1	13.5	5.8	6.2	20.5	n/a	0.10-0.30	49	30.0	33.0	0.166
20	M20 x 1.5	1/2" or 3/4"	16	10.3	13.5	5.6	9.0	20.5	n/a	0.10-0.30	48	30.0	33.0	0.165

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.
  - 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 E8X** - (Double Compression Gland designed for use with Armoured Flat Cable)

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

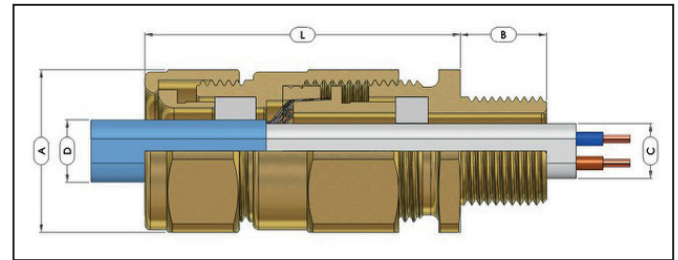
Part Numbers:

E	B	X	B	F
			S	



“E8X” 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. Developed for flat cables, they provide controlled Ex d sealing and have been tested to IP66 and IP68 to 50 metres. The E8X version is designed to accommodate armoured cables, sealing on the inner and outer sheaths and also incorporates a detachable armour specific clamping system.

<b>Compliance Standards:</b>	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
<b>Certification:</b>	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 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)



**Example Part Numbering** E8XBF/NP/20/050NPT  
(See below for details)

<b>E</b>	Gland designed for use with Armoured Cables	
<b>8</b>	Silicone Seals for flat cables	
<b>X</b>	Detachable Clamping for Braid Armour	
<b>B</b>	Brass (B) / Stainless Steel (S)	
<b>F</b>	Multiple Certification	
<b>L</b>	Locknut (material dictated by gland entry thread material)	
<b>H</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>050NPT</b>	1/2" NPT Male Entry Thread	
<b>Optional Accessories</b>	Locknut	Brass (ACBLN) / Stainless Steel (ACSLN)
	Earth tag	Brass (ACBET) / Stainless Steel (ACSET)
	IP Washers	Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW)
	Serrated Washers	Stainless Steel (ACSSW)

<b>Certificate No.</b>	ATEX SIRA 01ATEX1270X & SIRA 09ATEX1221X IECEX IECEX SIR 05.0020X NEC - USA CSA 2627370 EAC RU C-GB.1606.B.00098 INMETRO - Brazil NCC 13.2187 X SAC - China NEPSI GY16.1398X UKRAINE UA.TR.047.C.0408-13 & 2937 CCoE - India PESO P365300/2 & P365300/6 ABS 14-LD463991-1-PDA LLOYD'S 10/00056(E1) RMRS 14.02755.315
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**IP Rating:** IP66 & IP68 (50 metres - 7 Days) Type 4X  
**Operating Temperature:** Silicone Seals -60°C to +180°C  
**Materials:** Brass or Stainless Steel  
**Plating:** Electroless Nickel

CABLE GLAND SELECTION TABLE																
Gland Size	Entry Thread Size		Metric Thread Length [B]	Cable Inner Sheath [C]				Cable Outer Sheath [D]				Armour Acceptance Range	Nominal Protrusion Length [L]	Dimensions/Weight (Metric Versions)		
				Width		Thickness		Width		Thickness				Across Flats [A]	Across Corners	Weight Kgs (Metric)
	Metric	NPT		Min	Max	Min	Max	Min	Max	Min	Max					
20S	M20 x 1.5	1/2" or 3/4"	16	6.3	11.7	4.0	7.0	7.9	11.7	4.5	7.0	0.10-0.30	63	30.0	33.0	0.212
20R	M20 x 1.5	1/2" or 3/4"	16	8.1	13.5	5.8	6.2	10.7	16.1	5.4	8.3	0.10-0.30	64	30.0	33.0	0.213
20	M20 x 1.5	1/2" or 3/4"	16	10.3	13.5	5.6	9.0	11.0	13.5	4.5	9.0	0.10-0.30	63	30.0	33.0	0.212

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.
  - 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 E8XCM

(Double Compression Gland designed for use with Armoured Flat Cables featuring a Male Conduit Connection)

Ex d : Ex e : Ex nR : Ex ta : IP66 : IP68

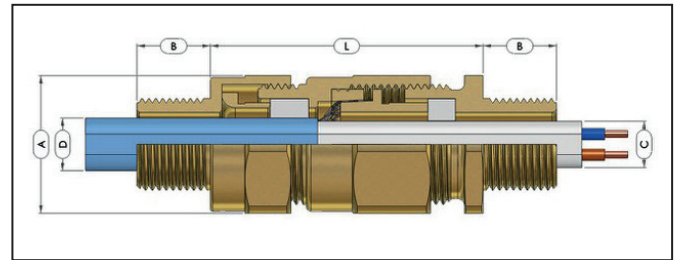
Part Numbers:

E	B	X	CM	B	F
				S	



"E8XCM" 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. Developed for flat cables, they provide controlled Ex d sealing and have been tested to IP66 and IP68 to 50 metres. The "E8XCM" version is designed to accommodate armoured cables, sealing on the inner and outer sheaths and also incorporates a detachable armour specific clamping system. The gland features a male conduit connection thread as standard.

<b>Compliance Standards:</b>	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	
<b>Certification:</b>	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
	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
	CCoE - India	Petroleum Rules 2002 (PESO)
	LLOYD'S	Enclosure Systems (Part 1B)
<b>Certificate No.</b>	ATEX	SIRA 01ATEX1270X & SIRA 09ATEX1221X
	IECEX	IECEX SIR 05.0020X
	INMETRO - Brazil	NCC 13.2187 X
	SAC - China	NEPSI GYJ16.1398X
	CCoE - India	PESO P365300/2 & P365300/6
	LLOYD'S	10/00056(E1)
<b>IP Rating:</b>	IP66 & IP68 (50 metres - 7 Days)	
<b>Operating Temperature:</b>	Silicone Seals -60°C to +180°C	
<b>Materials:</b>	Brass or Stainless Steel	
<b>Plating:</b>	Electroless Nickel	



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

E8XCMBF050NPT/NP/20/M20

<b>E</b>	Gland designed for use with Armoured Cables	
<b>B</b>	Silicone Seals for flat cables	
<b>X</b>	Detachable Clamping for Braid Armour	
<b>CM</b>	Male Conduit Connection Thread	
<b>B</b>	Brass (B) / Stainless Steel (S)	
<b>F</b>	Multiple Certification	
<b>050NPT</b>	1/2"NPT Male 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 1.5 Male Entry Thread	
<b>Optional Accessories</b>	Locknut	Brass (ACBLN) / Stainless Steel (ACSLN)
	Earth tag	Brass (ACBET) / Stainless Steel (ACSET)
	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 Inner Sheath [C]				Cable Outer Sheath [D]				Armour Acceptance Range	Nominal Protrusion Length [L] (Metric)	Dimensions/Weight (Metric Versions)		
	Metric	NPT		Metric	NPT	Min	Max	Min	Max	Min	Max	Min	Max			Across Flats [A]	Across Corners	Weight Kgs (Metric)
20S	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	6.3	11.7	4.0	7.0	7.9	11.7	4.5	7.0	0.10-0.30	63	30.0	33.0	0.230
20R	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	8.1	13.5	5.8	6.2	10.7	16.1	5.4	8.3	0.10-0.30	64	30.0	33.0	0.231
20	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	10.3	13.5	5.6	9.0	11.0	13.5	4.5	9.0	0.10-0.30	63	30.0	33.0	0.230

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.
  - 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 is required, this must be clearly requested at time of enquiry / order.

### Cable Gland Type E8XCF

(Double Compression Gland designed for use with Armoured Flat Cables featuring a Female Conduit Connection)

Ex d : Ex e : Ex nR : Ex ta : IP66 : IP68

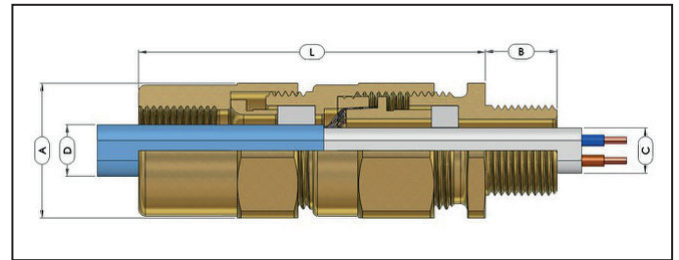
Part Numbers:

E	B	X	CF	B	F
				S	



“E8XCF” 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. Developed for flat cables, they provide controlled Ex d sealing and have been tested to IP66 and IP68 to 50 metres. The E8XCF version is designed to accommodate armoured cables, sealing on the inner and outer sheaths and also incorporates a detachable armour specific clamping system. The gland features a female conduit connection thread as standard.

<b>Compliance Standards:</b>	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
<b>Certification:</b>	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 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 CCoE - India Petroleum Rules 2002 (PESO) LLOYD'S Enclosure Systems (Part 1B)
<b>Certificate No.</b>	ATEX SIRA 01ATEX1270X & SIRA 09ATEX1221X IECEX IECEX SIR 05.0020X INMETRO - Brazil NCC 13.2187 X SAC - China NEPSI GYJ16.1398X CCoE - India PESO P365300/2 & P365300/6 LLOYD'S 10/00056(E1)
<b>IP Rating:</b>	IP66 & IP68 (50 metres - 7 Days)
<b>Operating Temperature:</b>	Silicone Seals -60°C to +180°C
<b>Materials:</b>	Brass or Stainless Steel
<b>Plating:</b>	Electroless Nickel



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

E8XCFCB050NPT/NP/20/M20

<b>E</b>	Gland designed for use with Armoured Cables	
<b>B</b>	Silicone Seal for flat cables	
<b>X</b>	Detachable Clamping for Braid Armour	
<b>CF</b>	Female Conduit Connection Thread	
<b>B</b>	Brass (B) / Stainless Steel (S)	
<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 1.5 Male Entry Thread	
<b>Optional Accessories</b>	Locknut	Brass (ACBLN) / Stainless Steel (ACSLN)
	Earth tag	Brass (ACBET) / Stainless Steel (ACSET)
	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 Inner Sheath [C]				Cable Outer Sheath [D]				Armour Acceptance Range	Nominal Protrusion Length [L] (Metric)	Dimensions/Weight (Metric Versions)		
	Metric	NPT		Metric	NPT	Width		Thickness		Width		Thickness				Across Flats [A]	Across Corners	Weight Kgs
						Min	Max	Min	Max	Min	Max	Min	Max					
20S	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	6.3	11.7	4.0	7.0	7.9	11.7	4.5	7.0	0.10-0.30	81	30.0	33.0	0.273
20R	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	8.1	13.5	5.8	6.2	10.7	16.1	5.4	8.3	0.10-0.30	82	30.0	33.0	0.274
20	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	10.3	13.5	5.6	9.0	11.0	13.5	4.5	9.0	0.10-0.30	81	30.0	33.0	0.273

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.
  - 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 is required, this must be clearly requested at time of enquiry / order.

**Cable Gland Type PF - (Single Compression Nylon Gland)**
**Ex eb : Ex tb : IP68**

 Part Numbers: 

PF	*	E
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Peppers "PF" type glands, certified Increased Safety Ex eb are suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Group IIC. They are manufactured from polyamide and provide a controlled pull resistant displacement seal on the cable outer sheath providing both Ex eb & IP protection. The gland has been tested to IP66 & IP68 to 50 metres and is fully compliant with the Increased Safety standard with no reduced impact restriction. Available in black or blue, in a range of thread forms complete with an IP flat washer on metric entry threads.

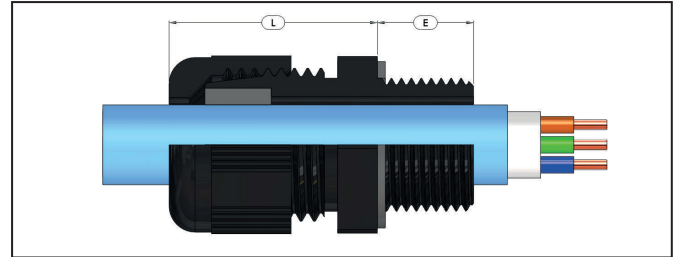
**Compliance Standard:** EN 60079-0, EN 60079-7, EN 60079-31  
 IEC 60079-0, IEC 60079-7, IEC 60079-31 & IEC 60529

**Certification:**

ATEX	II 2GD Ex e IIC / Ex tb IIIC
IECEX	Ex eb IIC / Ex tb IIIC
EAC	Ex e II
CEC - Canada	CAN/CSA C22.2
NEC - USA	ANSI/UL514B
VDE	DIN EN 50262 / VDE 0619
LLOYD'S	Enclosure Systems (Part 1B)
INMETRO	Ex e II

**Certificate No.:**

ATEX	LCIE 07ATEX6082X/02
IECEX	LCI 10.0008X
EAC	RU C-FR.ГБ05.B.00955
CEC - Canada	E306665
NEC - USA	E306665
VDE	131210
LLOYD'S	10/00056(E1)
INMETRO	BR230661-X



**Operating Temperature:** M16-M63 -35°C to +95°C  
 M12 -20°C to +80°C

**Materials:** Polyamide

**IP Rating:** IP66 & IP68 (50 metres - 30 minutes)

**Impact Resistance:** 7Nm

**Options:** Colour - Black / Blue  
 Industrial Non-Ex version - Omit "E" from part number

**Accessories:** Nylon Locknut / IP Washers

CABLE GLAND SELECTION TABLE													
Gland Size	Entry Thread Size	Nominal Protrusion [L]	Cable Sealing Range		ISO Thread Length Standard [E]	Part Number		ISO Thread Length Long [E]	Part Number		Dimensions/Weight		
			Min	Max		Standard Thread			Long Thread		Across Flats	Across Corners	Weight Kgs
						Blue	Black		Blue	Black			
12	M12 x 1.5	23.0	4.0	6.5	8.0	PF7421200E	PF8021200E	15.0	PF7431200E	PF8031200E	15.0	16.5	0.003
16	M16 x 1.5	28.0	5.0	8.0	10.0	PF7421650E	PF8021650E	15.0	PF7431650E	PF8031650E	19.0	22.0	0.009
16	M16 x 1.5	28.0	5.0	10.0	10.0	PF7421600E	PF8021600E	15.0	PF7431600E	PF8031600E	22.0	24.5	0.009
20	M20 x 1.5	28.0	7.0	12.0	10.0	PF7422050E	PF8022050E	15.0	PF7432050E	PF8032050E	24.0	28.0	0.010
20	M20 x 1.5	28.0	10.0	14.0	10.0	PF7422000E	PF8022000E	15.0	PF7432000E	PF8032000E	27.0	30.3	0.010
25	M25 x 1.5	36.0	10.0	14.0	10.0	PF7422550E	PF8022550E	15.0	PF7432550E	PF8032550E	33.0	37.0	0.021
25	M25 x 1.5	36.0	12.0	18.0	10.0	PF7422500E	PF8022500E	15.0	PF7432500E	PF8032500E	33.0	37.0	0.021
32	M32 x 1.5	42.0	16.0	25.0	10.0	PF7423200E	PF8023200E	15.0	PF7433200E	PF8033200E	42.0	47.0	0.038
40	M40 x 1.5	52.5	22.0	32.0	10.0	PF7424000E	PF8024000E	16.0	PF7434000E	PF8034000E	53.0	59.8	0.078
50	M50 x 1.5	54.5	28.0	38.5	12.0	PF7425000E	PF8025000E	16.0	PF7435000E	PF8035000E	60.0	67.6	0.088
63	M63 x 1.5	55.5	40.0	48.0	12.0	PF7426300E	PF8026300E	16.0	PF7436300E	PF8036300E	70.0	78.3	0.128

All dimensions in mm

CABLE GLAND SELECTION TABLE										
Gland Size	Entry Thread Size	Nominal Protrusion Length [L]	Cable Sealing Range		Thread Length	Part Number		Dimensions/Weight		
			Min	Max		Blue	Black	Across Flats	Across Corners	Weight Kgs
16	3/8" NPT	27.0	5.0	8.0	11	PF7440800E	PF8040800E	19.0	22.0	0.008
20	1/2" NPT	27.0	7.0	12.0	14	PF7441200E	PF8041200E	24.0	26.8	0.010
25	3/4" NPT	35.0	12.0	18.0	15	PF7442000E	PF8042000E	33.0	37.0	0.021
32	1" NPT	41.0	16.0	25.0	18	PF7442800E	PF8042800E	42.0	47.0	0.038

All dimensions in mm

- Notes:
- Assembly instructions must be read prior to installation and adhered to in full.
  - If used in a threaded entry, NPT versions may protrude more than "L" length due to engagement of threads.
  - Industrial Non-Ex versions are not supplied with IP thread sealing washer.
  - Industrial Non-Ex versions are available in Black or Grey.

**Cable Gland Type - CR-C** (Double Compression Barrier Gland designed for use with Armoured Cable featuring Peppers CROCKLOCK® & T-1000 Compound)

Ex d : Ex e : Ex nR : Ex ta : IP66 : IP68  
Class 1 Div 2 : AEx d : AEx e : AEx ta

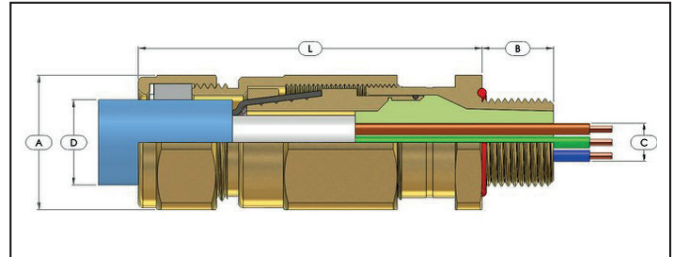
Part Numbers:

C	R	C	*	B	*
2	S	R			



“CR-C” 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 Group I Mining, 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. Occasionally referred to as “potting glands”, they provide a compound barrier Ex d & IP seal on the cable inner cores, eliminating damage to cables that exhibit “cold flow” characteristics and an environmental seal on the outer sheath. The unique features include “CROCKLOCK®”, the non reversible multi-clamping system for wire, braid and tape armoured cables and Peppers T-1000, the sealing compound that enables a quick and easy installation. The innovative barrier chamber provides a cable acceptance that allows for a full inspection of the compound fill. The gland maintains IP66 & IP68 to 100 metres and is deluge proof without the use of an additional seal or deluge boot. It is supplied with an IP O-ring seal as standard on metric entry threads and options are available for use with lead sheath cables.

<b>Compliance Standards:</b>	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 60079-15, IEC 60079-31 & IEC 60529 C22.2 (see certificate), CAN/CSA 60079-0/1/7, UL514B, UL1203, UL2225, UL50E, ANSI/UL 60079-0/1/7, ISA 60079-31
<b>Certification:</b>	ATEX I M2 II 1D 2G Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc IECEX Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da Ex nR IIC Gc 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 d IIC Gb / AEx e IIC Gb / Class II Zone 20 AEx ta IIIC Da Class I Division 2, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X EAC Exd IU / Exd IICU / Exe IU / Exe IIU / ExnR IIU INMETRO - Brazil Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da Ex nR IIC Gc SAC - China Exd IIC / Exe 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)
<b>Certificate No.</b>	ATEX SIRA 03ATEX1479X & SIRA 09ATEX4124X IECEX IECEX SIR 07.0098X CEC - Canada CSA 1356011 NEC - USA CSA 2627370 EAC RU C-GB.F506.B.00098 INMETRO - Brazil NCC 13.2188 X SAC - China Nepsu GY116.1401X UKRAINE UA.TR.047.C.0408-13 & 2937 CCoE - India PESO P365300/4 & P365300/10 ABS 14-LD463991A-1-PDA LLOYD'S 10/00056(E1) RMRS 14.02755.315



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

CR-CB/NP/20/M20

<b>CR-C</b>	Gland featuring “CROCKLOCK®”, single orientation clamping, Peppers T-1000 Compound (Barrier) Inner Seal & Silicone LSOH Elastomeric Outer Seal	
<b>2</b>	for use with Lead Sheath Cables	
<b>B</b>	Brass (B) / Stainless Steel (S)	
<b>R</b>	Reduced Bore Outer Sheath Seal	
<b>C</b>	PVC Shroud (C) - PCP Shroud (P) - Silicone LSOH Shroud (3)	
<b>K-V-H</b>	Locknut, Earth Tag & Nylon (K), Fibre (V) or PTFE (H) IP Washer	
<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 1.5 Male Entry Thread	
<b>Optional Accessories</b>	Locknut	Brass (ACBLN) / Stainless Steel (ACSLN)
	Earth tag	Brass (ACBET) / Stainless Steel (ACSET)
	IP Washers	Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW)
	Serrated Washers	Stainless Steel (ACSSW)
	Shrouds	PVC (ACSPVC) / PCP (ACSPCP) / Silicone LSOH (ACSSIO)
<b>Curing Time:</b>	@ 21°C Conductor termination can be effected after 1 hour Compound chamber can be fully inspected after 4 hours and the equipment then energised	

**IP Rating:** IP66 & IP68 (100 metres - 7 Days), Type 4X & DTS01:1991  
**Operating Temperature:** -60°C to +135°C  
**Materials:** Brass or Stainless Steel  
**Plating:** Electroless Nickel  
**Compound:** Peppers T-1000 Sealing Compound  
**Outer Seal:** Silicone LSOH

**CABLE GLAND SELECTION TABLE**

Gland Size	Entry Thread Size		Metric Thread Length [B]	Cable Acceptance Details						Armour Acceptance Range	Nominal Protrusion Length [L] Metric	Dimensions/Weight (Metric)			Shroud Size	
				Internal Cable Details			Cable Outer Sheath Seal [D]					Across Flats [A]	Across Corners	Weight Kgs		
				Max Number of Cores	Max Ø Over Cores	Max Inner Sheath [C]	Standard		Reduced							
16	M20 x 1.5	1/2" or 3/4"	16	15	10.4	11.7	8.4	13.5	6.7	10.3	0.10-1.25	79	25.4	28.0	0.177	EL24
20S	M20 x 1.5	1/2" or 3/4"	16	35	10.4	11.7	11.5	16.0	9.4	12.5	0.10-1.25	79	25.4	28.0	0.166	EL24
20	M20 x 1.5	1/2" or 3/4"	16	40	12.5	14.0	15.5	21.1	12.0	17.6	0.10-1.25	79	30.0	33.0	0.245	EL30
25	M25 x 1.5	3/4" or 1"	16	60	17.8	20.0	20.3	27.4	16.8	23.9	0.10-1.60	89	37.6	41.4	0.402	EL38
32	M32 x 1.5	1" or 1 1/4"	16	80	23.5	26.3	26.7	34.0	23.2	30.5	0.10-2.00	110	46.0	50.6	0.738	EL46
40	M40 x 1.5	1 1/4" or 1 1/2"	16	130	28.8	32.2	33.0	40.6	28.6	36.2	0.10-2.00	110	55.0	60.5	1.079	EL55
50S	M50 x 1.5	1 1/2" or 2"	16	200	34.2	38.2	39.4	46.7	34.8	42.4	0.10-2.50	125	65.0	71.5	1.455	EL65
50	M50 x 1.5	2"	16	400	39.4	44.1	45.7	53.2	41.1	48.5	0.10-2.50	125	65.0	71.5	1.366	EL65
63S	M63 x 1.5	2" or 2 1/2"	19	400	44.8	50.1	52.1	59.5	47.5	54.8	0.10-2.50	125	80.0	88.0	2.157	EL80
63	M63 x 1.5	2 1/2"	19	425	50.0	56.0	58.4	65.8	53.8	61.2	0.10-2.50	125	80.0	88.0	2.035	EL80
75S	M75 x 1.5	2 1/2" or 3"	19	425	55.4	62.0	64.8	72.2	60.2	68.0	0.10-2.50	130	90.0	99.0	2.399	EL90
75	M75 x 1.5	3"	19	425	60.8	68.0	71.1	78.0	66.5	73.4	0.10-2.50	130	90.0	99.0	2.313	EL90
80	M80 x 2.0	3" or 3 1/2"	25	425	64.4	72.0	77.0	84.0	71.9	79.4	0.10-3.15	162	104.0	115.2	4.763	EL104
85	M85 x 2.0	3" or 3 1/2"	25	425	69.8	78.0	79.6	90.0	75.0	85.4	0.10-3.15	162	104.0	115.2	4.122	EL104
90	M90 x 2.0	3 1/2" or 4"	25	425	75.1	84.0	88.0	96.0	82.0	91.4	0.10-3.15	162	114.0	125.7	5.114	EL114
100	M100 x 2.0	3 1/2" or 4"	25	425	80.5	90.0	92.0	102.0	87.4	97.4	0.10-3.15	162	114.0	125.7	4.356	EL114

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 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.
  - The gland is supplied with the correct amount of the two-part compound, gloves and instructions to allow one complete termination.
  - Where approval in addition to ATEX, IECEx and CSA is required, this must be clearly requested at time of enquiry / order.

**Cable Gland Type - CR-X** (Single Compression Gland designed for use with Unarmoured Cable featuring Peppers T-1000 Compound)

Ex d : Ex e : Ex nR : Ex ta : IP66 : IP68  
Class 1 Div 2 : AEx d : AEx e : AEx ta

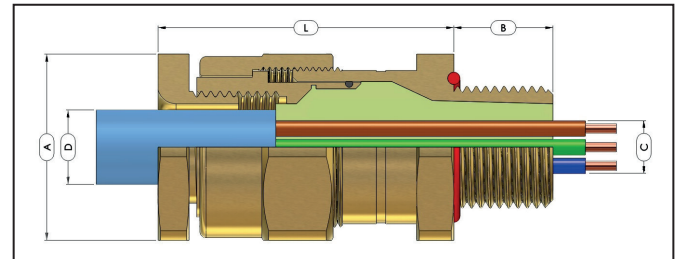
Part Numbers:

C	R	X	B
			S



"CR-X" type glands, approved for use with any shape cable, are certified Flameproof Ex d, Increased Safety Ex e, Restricted Breathing Ex nR and Dust Protected Ex ta. They are suitable for use in Group I Mining, 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. Occasionally referred to as "potting glands", they provide a compound barrier Ex d & IP seal on the cable inner cores (or flying leads), eliminating damage to cables that exhibit "cold flow" characteristics. The unique features include Peppers T-1000, the sealing compound that enables a quick and easy installation and an innovative barrier chamber that allows for a full inspection of the compound fill. The gland maintains IP66 & IP68 to 100 metres and is deluge proof without the use of an additional seal or deluge boot. It is supplied with an IP O-ring seal as standard on metric entry threads.

<b>Compliance Standards:</b>	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 60079-15, IEC 60079-31 & IEC 60529 C22.2 (see certificate), CAN/CSA 60079-0/1/7, UL514B, UL1203, UL2225, UL50E ANS/UL 60079-0/1/7, ISA 60079-31
<b>Certification:</b>	<p>ATEX I M2 II 1D 2G Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc</p> <p>IECEX Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da Ex nR IIC Gc</p> <p>CEC - Canada Class I Zone 1 Ex d IIC / Ex e II Class I Division 2, Groups A, B, C &amp; D Class II Division 1, Groups E, F &amp; G Class III, Enclosure Type 4X</p> <p>NEC - USA Class I Zone 1 AEx d IIC Gb / AEx e IIC Gb / Class II Zone 20 AEx ta IIIC Da Class I Division 2, Groups A, B, C &amp; D Class II Division 1, Groups E, F &amp; G Class III, Enclosure Type 4X</p> <p>EAC Exd IU / Exd IICU / Exe IU / Exe IIU / ExnR IIU</p> <p>INMETRO - Brazil Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da Ex nR IIC Gc</p> <p>SAC - China Ex d IIC / Ex e IIC</p> <p>UKRAINE Ex d IIC X / Ex e II X</p> <p>CCoE - India Petroleum Rules 2002 (PESO)</p> <p>ABS Specified ABS Rules</p> <p>LLOYD'S Enclosure Systems (Part 1B)</p> <p>RMRS Part XI of RS Rules for the classification &amp; construction of sea-going ships (ed. 2014)</p>
<b>Certificate No.</b>	<p>ATEX SIR A 03ATEX1479X &amp; SIR A 09ATEX4124X</p> <p>IECEX IECEx SIR 07.0098X</p> <p>CEC - Canada CSA 1356011</p> <p>NEC - USA CSA 2627370</p> <p>EAC RU C-GB.G606.B.00098</p> <p>INMETRO - Brazil NCC 13.2188 X</p> <p>SAC - China NEPSI GYJ16.1401X</p> <p>UKRAINE UA.TR.047.C.0408-13 &amp; 2937</p> <p>CCoE - India PESO P365300/4 &amp; P365300/10</p> <p>ABS 14-LD463991A-1-PDA</p> <p>LLOYD'S 10/00056(E1)</p> <p>RMRS 14.02755.315</p>
<b>IP Rating:</b>	IP66 & IP68 (100 metres - 7 Days), Type 4X & DTS01:1991
<b>Operating Temperature:</b>	-60°C to +135°C
<b>Materials:</b>	Brass or Stainless Steel
<b>Plating:</b>	Electroless Nickel
<b>Compound:</b>	Peppers T-1000 Sealing Compound



<b>Example Part Numbering</b>		CR-XB/NP/20/M20
(See below for details)		
<b>Options</b>	<b>CR-X</b>	Peppers T-1000 Compound (Barrier) Gland designed for use with unarmoured cable
	<b>B</b>	Brass (B) / Stainless Steel (S)
	<b>C</b>	PVC Shroud (C) - PCP Shroud (P) - Silicone LSOH 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 1.5 Male Entry Thread
<b>Optional Accessories</b>	Locknut	Brass (ACBLN) / Stainless Steel (ACSLN)
	Earth tag	Brass (ACBET) / Stainless Steel (ACSET)
	IP Washers	Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW)
	Serrated Washers	Stainless Steel (ACSSW)
	Shrouds	PVC (ACSPVC) / PCP (ACSPCP) / Silicone LSOH (ACSSIO)
<b>Curing Time:</b>	@ 21°C Conductor termination can be effected after 1 hour Compound chamber can be fully inspected after 4 hours and the equipment then energised	

CABLE GLAND SELECTION TABLE											
Gland Size	Entry Thread Size		Metric Thread Length [B]	Gland Seal Range - Cable Sheath & Cores			Nominal Protrusion Length [L] Metric	Dimensions/Weight (Metric)			Shroud Size
	Metric	NPT		Max Number of Cores [C]	Max Ø Over Cores [C]	Max Outer Sheath [D]		Across Flats [A]	Across Corners	Weight Kgs	
20S	M20 x 1.5	1/2" or 3/4"	16	35	10.4	11.7	42	25.4	28.0	0.126	L24
20	M20 x 1.5	1/2" or 3/4"	16	40	12.5	14.0	44	30.0	33.0	0.167	L30
25	M25 x 1.5	3/4" or 1"	16	60	17.8	20.0	48	37.6	41.4	0.260	L38
32	M32 x 1.5	1" or 1 1/4"	16	80	23.5	26.3	53	46.0	50.6	0.396	L46
40	M40 x 1.5	1 1/4" or 1 1/2"	16	130	28.8	32.2	54	55.0	60.5	0.600	L55
50	M50 x 1.5	2"	16	400	39.4	44.1	54	65.0	71.5	0.710	L65
63	M63 x 1.5	2 1/2"	19	425	50.0	56.0	55	80.0	88.0	1.054	L80
75	M75 x 1.5	3"	19	425	60.8	68.0	60	90.0	99.0	1.318	L90
80	M80 x 2.0	3" or 3 1/2"	25	425	64.4	72.0	80	104.0	115.2	2.734	L104
85	M85 x 2.0	3" or 3 1/2"	25	425	69.8	78.0	80	104.0	115.2	2.282	L104
90	M90 x 2.0	3 1/2" or 4"	25	425	75.1	84.0	85	114.0	125.7	2.854	L114
100	M100 x 2.0	3 1/2" or 4"	25	425	80.5	90.0	85	114.0	125.7	2.453	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 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 Shroud and IP Washer material for use with glands, please be aware of the accessories temperature range to ensure they are suitable for the intended installation.
  - The gland is supplied with the correct amount of the two-part compound, gloves and instructions to allow one complete termination.
  - Where approval in addition to ATEX, IECEx and CSA is required, this must be clearly requested at time of enquiry / order.



**Cable Gland Type - CR-U** (Double Compression Barrier Gland designed for use with Unarmoured Cable featuring Peppers T-1000 Compound)

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

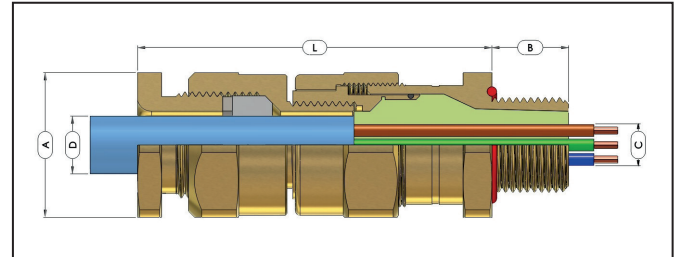
Part Numbers:

C	R	U	B
			S



"CR-U" 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 Group I Mining, 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. Occasionally referred to as "potting glands", they provide a compound barrier Ex d & IP seal on the cable inner cores, eliminating damage to cables that exhibit "cold flow" characteristics and an additional environmental seal on the outer sheath. The unique features include Peppers T-1000, the sealing compound that enables a quick and easy installation and an innovative barrier chamber that allows for a full inspection of the compound fill. The gland maintains IP66 & IP68 to 100 metres and is deluge proof without the use of an additional seal or deluge boot. It is supplied with an IP O-ring seal as standard on metric entry threads.

<b>Compliance Standards:</b>	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 60079-15, IEC 60079-31 & IEC 60529 C22.2 (see certificate), CAN/CSA 60079-0/1/7, UL514B, UL1203, UL2225, UL50E ANSI/UL 60079-0/1/7, ISA 60079-31
<b>Certification:</b>	ATEX I M2 II D 2G Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc IECEX Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da Ex nR IIC Gc 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 d IIC Gb / AEx e IIC Gb / Class II Zone 20 AEx ta IIIC Da Class I Division 2, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X EAC Exd IU / Exd IICU / Exe IU / Exe IIU / ExnR IIU INMETRO - Brazil Ex d I Mb / Ex d IIC Gb / Ex e I Mb / 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)
<b>Certificate No.</b>	ATEX SIRA 03ATEX1479X & SIRA 09ATEX4124X IECEX IECEx SIR 07.0098X CEC - Canada CSA 1356011 NEC - USA CSA 2627370 EAC RU C-GB.FB06.B.00098 INMETRO - Brazil NCC 13.2188 X SAC - China NEPSI GYJ16.1401X UKRAINE UA.TR.047.C.0408-13 & 2937 CCoE - India PESO P365300/4 & P365300/10 ABS 14-LD463991A-1 PDA LLOYD'S 10/00056(E1) RMRS 14.02755.315
<b>IP Rating:</b>	IP66 & IP68 (100 metres - 7 Days) Type 4X & DTS01:1991
<b>Operating Temperature:</b>	-60°C to +135°C
<b>Materials:</b>	Brass or Stainless Steel
<b>Plating:</b>	Electroless Nickel
<b>Compound:</b>	Peppers T-1000 Sealing Compound
<b>Outer Seal:</b>	Silicone LSOH



<b>Example Part Numbering</b> (See below for details)		CR-UB/NP/20/M20
<b>CR-U</b>	Gland with Peppers T-1000 Compound (Barrier) Inner Seal & Silicone LSOH Elastomeric Outer Seal	
<b>B</b>	Brass (B) / Stainless Steel (S)	
<b>C</b>	PVC Shroud (C) - PCP Shroud (P) - Silicone LSOH 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 1.5 Male Entry Thread	
<b>Optional Accessories</b>	Locknut	Brass (ACBLN) / Stainless Steel (ACSLN)
	Earth tag	Brass (ACBET) / Stainless Steel (ACSET)
	IP Washers	Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW)
	Serrated Washers	Stainless Steel (ACSSW)
	Shrouds	PVC (ACSPVC) / PCP (ACSPCP) / Silicone LSOH (ACSSIO)
<b>Curing Time:</b>	@ 21°C Conductor termination can be effected after 1 hour Compound chamber can be fully inspected after 4 hours and the equipment then energised	

**CABLE GLAND SELECTION TABLE**

Gland Size	Entry Thread Size		Metric Thread Length [B]	Cable Acceptance Details				Nominal Protrusion Length [L] Metric	Dimensions/Weight (Metric)			Shroud Size
				Internal Cable Details [C]		Cable Outer Sheath Seal [D]			Across Flats [A]	Across Corners	Weight Kgs	
	Metric	NPT		Max Number of Cores	Max Ø Over Cores	Min	Max					
16	M20 x 1.5	1/2" or 3/4"	16	15	10.4	3.4	8.4	73	25.4	28.0	0.192	EL24
20S	M20 x 1.5	1/2" or 3/4"	16	35	10.4	4.8	11.7	73	25.4	28.0	0.192	EL24
20	M20 x 1.5	1/2" or 3/4"	16	40	12.5	9.5	14.0	73	30.0	33.0	0.258	EL30
25	M25 x 1.5	3/4" or 1"	16	60	17.8	11.7	20.0	74	37.6	41.4	0.382	EL38
32	M32 x 1.5	1" or 1 1/4"	16	80	23.5	18.1	26.3	80	46.0	50.6	0.578	EL46
40	M40 x 1.5	1 1/4" or 1 1/2"	16	130	28.8	22.6	32.2	87	55.0	60.5	0.892	EL55
50S	M50 x 1.5	1 1/2" or 2"	16	200	34.2	28.2	38.2	87	65.0	71.5	1.172	EL65
50	M50 x 1.5	2"	16	400	39.4	33.1	44.1	87	65.0	71.5	1.036	EL65
63S	M63 x 1.5	2" or 2 1/2"	19	400	44.8	39.3	50.1	88	80.0	88.0	1.726	EL80
63	M63 x 1.5	2 1/2"	19	425	50.0	46.7	56.0	88	80.0	88.0	1.558	EL80
75S	M75 x 1.5	2 1/2" or 3"	19	425	55.4	52.3	62.0	97	90.0	99.0	1.882	EL90
75	M75 x 1.5	3"	19	425	60.8	58.0	68.0	97	90.0	99.0	1.672	EL90
80	M80 x 2.0	3" or 3 1/2"	25	425	64.4	61.9	72.0	123	104.0	115.2	3.826	EL104
85	M85 x 2.0	3" or 3 1/2"	25	425	69.8	69.1	78.0	123	104.0	115.2	3.238	EL104
90	M90 x 2.0	3 1/2" or 4"	25	425	75.1	74.1	84.0	123	114.0	125.7	4.063	EL114
100	M100 x 2.0	3 1/2" or 4"	25	425	80.5	81.8	90.0	123	114.0	125.7	3.492	EL114

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 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.
  - The gland is supplied with the correct amount of the two-part compound, gloves and instructions to allow one complete termination.
  - Where approval in addition to ATEX, IECEx and CSA is required, this must be clearly requested at time of enquiry / order.

**Cable Gland Type CR-S\*M** (Single Compression Barrier Gland featuring Peppers T-1000 Compound and a Male Conduit Connection Thread)

Ex d : Ex e : Ex nR : Ex ta : IP66 : IP68  
Class 1 Div 2

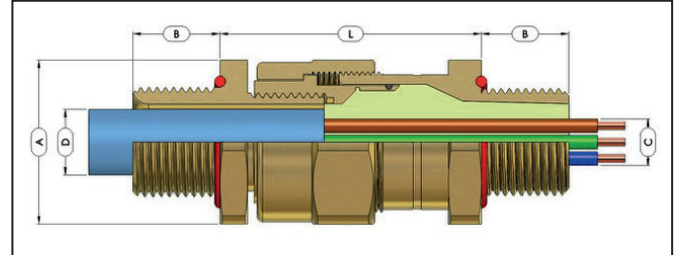
Part Numbers:

C	R	S	B	M
			S	



"CR-S\*M" type glands, used in any orientation, are certified Flameproof Ex d, Increased Safety Ex e, Restricted Breathing Ex nR and Dust Protected Ex ta. They are suitable for use in Group I Mining, 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 a "Conduit Stopper Box", they are suitable for use with conductors carried in conduit or as a line bushing for terminating flying leads. They provide a compound barrier Ex d & IP seal on the cable inner cores, eliminating damage to cables that exhibit "cold flow" characteristics. The unique features include Peppers T-1000, the sealing compound that enables a quick and easy installation and an innovative barrier chamber that allows for a full inspection of the compound fill. The gland maintains IP66 & IP68 to 100 metres and is deluge proof without the use of an additional seal or deluge boot. It is supplied with an IP O-ring seal as standard on metric entry threads. The gland is supplied with a male conduit connection thread.

<b>Compliance Standards:</b>	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 60079-15, IEC 60079-31 & IEC 60529 C22.2 (see certificate), CAN/CSA 60079-0/1/7, UL50
<b>Certification:</b>	ATEX I M2 II 1D 2G Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc IECEX Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc 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 EAC Exd IU / Exd IIUC / Exe IU / Exe IIU / ExnR IIU INMETRO - Brazil Ex d I Mb / Ex d IIC Gb / Ex e I Mb / 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)
<b>Certificate No.</b>	ATEX SIRA 03ATEX1479X & SIRA 09ATEX4124X IECEX IECEx SIR 07.0098X CEC - Canada CSA 1356011 EAC RU C-GB.Γ506.B.00098 INMETRO - Brazil NCC 13.2188 X SAC - China NEPSI GYJ16.1401X UKRAINE UA.TR.047.C.0408-13 & 2937 CCoE - India PESO P365300/4 & P365300/10 KCS - Korea 15-GA4BO-0665X & 15-GA4BO-0666X ABS 14-LD463991A-1-PDA LLOYD'S 10/00056(E1) RMRS 14.02755.315
<b>IP Rating:</b>	IP66 & IP68 (100 metres - 7 Days), Type 4X & DTS01:1991
<b>Operating Temperature:</b>	-60°C to +135°C
<b>Materials:</b>	Brass or Stainless Steel
<b>Plating:</b>	Electroless Nickel
<b>Compound:</b>	Peppers T-1000 Sealing Compound



<b>Example Part Numbering</b> (See below for details)		<b>CR-SBM20/NP/M20/050NPT</b>
<b>CR-S</b>	Gland with Compound (Barrier) Seal	
<b>B</b>	Brass (B) / Stainless Steel (S)	
<b>M</b>	Male Back End Configuration	
<b>20</b>	Gland shell size	
<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>M20</b>	M20 x 1.5 Male Entry Thread	
<b>050NPT</b>	1/2"NPT External Male Connection Thread	
<b>Optional Accessories</b>	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)	
<b>Curing Time:</b>	@ 21°C Conductor termination can be effected after 1 hour Compound chamber can be fully inspected after 4 hours and the equipment then energised	

CABLE GLAND SELECTION TABLE												
Gland Size	Male Entry Threads		Metric Entry Thread Length [B]	Male Conduit Entry Threads		Gland Seal Range - Cable Sheath & Cores			Nominal Protrusion Length [L]	Dimensions/Weight (Metric)		
	Metric	NPT		Metric	NPT	Number of Cores [C]	Max Ø Over Cores [C]	Max Outer Sheath [D]		Across Flats [A]	Across Corners	Weight Kgs
20	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	40	12.5	14.0	45	30.0	33.0	0.224
25	M25 x 1.5	3/4" or 1"	16	M25 x 1.5	3/4" or 1"	60	17.8	20.0	49	37.6	41.4	0.323
32	M32 x 1.5	1" or 1 1/4"	16	M32 x 1.5	1" or 1 1/4"	80	23.5	26.3	55	46.0	50.6	0.548
40	M40 x 1.5	1 1/4" or 1 1/2"	16	M40 x 1.5	1 1/4" or 1 1/2"	130	28.8	32.2	56	55.0	60.5	0.770
50	M50 x 1.5	2"	16	M50 x 1.5	2"	400	39.4	44.1	62	65.0	71.5	0.875
63	M63 x 1.5	2 1/2"	19	M63 x 1.5	2 1/2"	425	50.0	56.0	63	80.0	88.0	1.281
75	M75 x 1.5	3"	19	M75 x 1.5	3"	425	60.8	68.0	63	90.0	99.0	1.406
80	M80 x 2.0	3" or 3 1/2"	25	M80 x 2.0	3" or 3 1/2"	425	64.4	72.0	81	104.0	115.2	2.957
85	M85 x 2.0	3" or 3 1/2"	25	M85 x 2.0	3" or 3 1/2"	425	69.8	78.0	81	104.0	115.2	2.488
90	M90 x 2.0	3 1/2" or 4"	25	M90 x 2.0	3 1/2" or 4"	425	75.1	84.0	81	114.0	125.7	3.029
100	M100 x 2.0	3 1/2" or 4"	25	M100 x 2.0	3 1/2" or 4"	425	80.5	90.0	81	114.0	125.7	2.825

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 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.
  - The gland is supplied with the correct amount of the two-part compound, gloves and instructions to allow one complete termination.
  - Where approval in addition to ATEX, IECEx and CSA is required, this must be clearly requested at time of enquiry / order.

**Cable Gland Type CR-S\*F**

(Single Compression Barrier Gland featuring Peppers T-1000 Compound and a Female Conduit Connection Thread)

Ex d : Ex e : Ex nR : Ex ta : IP66 : IP68  
Class 1 Div 2

Part Numbers:

C	R	S	B	F
			S	



"CR-S\*F" type glands, used in any orientation, are certified Flameproof Ex d, Increased Safety Ex e, Restricted Breathing Ex nR and Dust Protected Ex ta. They are suitable for use in Group I Mining, 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 a "Conduit Stopper Box", they are suitable for use with conductors carried in conduit or as a line bushing for terminating flying leads. They provide a compound barrier Ex d & IP seal on the cable inner cores, eliminating damage to cables that exhibit "cold flow" characteristics. The unique features include Peppers T-1000, the sealing compound that enables a quick and easy installation and an innovative barrier chamber that allows for a full inspection of the compound fill. The gland maintains IP66 & IP68 to 100 metres and is deluge proof without the use of an additional seal or deluge boot. It is supplied with an IP O-ring seal as standard on metric entry threads. The gland is supplied with a female conduit connection thread.

**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 60079-15, IEC 60079-31 & IEC 60529  
C22.2 (see certificate), CAN/CSA 60079-0/1/7, UL50

**Certification:**  
ATEX I M2 II 1D 2G Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb  
Ex ta IIIC Da / II 3G Ex nR IIC Gc  
IECEX Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da  
Ex nR IIC Gc  
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  
EAC Exd IU / Exd IICU / Exe IU / Exe IIU / ExnR IIU  
INMETRO - Brazil Ex d I Mb / Ex d IIC Gb / Ex e I Mb / 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 SIRA 03ATEX1479X & SIRA 09ATEX4124X  
IECEX IECEX SIR 07.0098X  
CEC - Canada CSA 1356011  
EAC RU C-GB.FB06.B.00098  
INMETRO - Brazil NCC 13.2188 X  
SAC - China NEPSI GY16.1401X  
UKRAINE UA.TR.047.C.0408-13 & 2937  
CCoE - India PESO P365300/4 & P365300/10  
KCS - Korea 15-GA4BO-0665X & 15-GA4BO-0666X  
ABS 14-LD463991A-1-PDA  
LLOYD'S 10/00056(E1)  
RMRS 14.02755.315

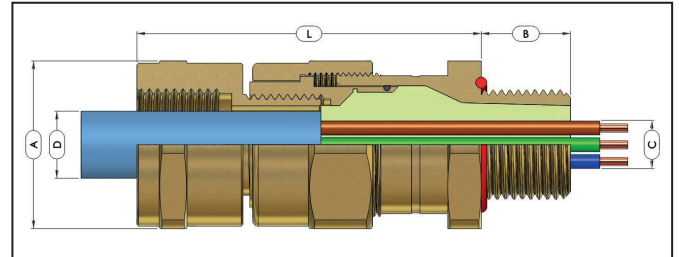
**IP Rating:** IP66 & IP68 (100 metres - 7 Days), Type 4X & DTS01:1991

**Operating Temperature:** -60°C to +135°C

**Materials:** Brass or Stainless Steel

**Plating:** Electroless Nickel

**Compound:** Peppers T-1000 Sealing Compound



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

CR-SBF20/NP/M20/050NPT

<b>CR-S</b>	Gland with Compound (Barrier) Seal	
<b>B</b>	Brass (B) / Stainless Steel (S)	
<b>F</b>	Female Back End Configuration	
<b>20</b>	Gland shell size	
<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>M20</b>	M20 x 1.5 Male Entry Thread	
<b>050NPT</b>	1/2" NPT Internal Female Connection Thread	
<b>Optional Accessories</b>	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)
<b>Curing Time:</b>	@ 21°C Conductor termination can be effected after 1 hour Compound chamber can be fully inspected after 4 hours and the equipment then energised	

CABLE GLAND SELECTION TABLE												
Gland Size	Male Entry Threads		Metric Entry Thread Length [B]	Female Entry Threads		Gland Seal Range - Cable Sheath & Cores			Nominal Protrusion Length [L] Metric	Dimensions/Weight (Metric)		
	Metric	NPT		Metric	NPT	Max Number of Cores [C]	Max Ø Over Cores [C]	Max Outer Sheath [D]		Across Flats [A]	Across Corners	Weight Kgs
20	M20 x 1.5	1/2" or 3/4"	16	M20 x 1.5	1/2" or 3/4"	40	12.5	14.0	57	30.0	33.0	0.324
25	M25 x 1.5	3/4" or 1"	16	M25 x 1.5	3/4" or 1"	60	17.8	20.0	63	37.6	41.4	0.513
32	M32 x 1.5	1" or 1 1/4"	16	M32 x 1.5	1" or 1 1/4"	80	23.5	26.3	67	46.0	50.6	0.726
40	M40 x 1.5	1 1/4" or 1 1/2"	16	M40 x 1.5	1 1/4" or 1 1/2"	130	28.8	32.2	68	55.0	60.5	1.088
50	M50 x 1.5	2"	16	M50 x 1.5	2"	400	39.4	44.1	68	65.0	71.5	1.328
63	M63 x 1.5	2 1/2"	19	M63 x 1.5	2 1/2"	425	50.0	56.0	72	80.0	88.0	2.022
75	M75 x 1.5	3"	19	M75 x 1.5	3"	425	60.8	68.0	78	90.0	99.0	2.314
80	M80 x 2.0	3" or 3 1/2"	25	M80 x 2.0	3" or 3 1/2"	425	64.4	72.0	103	104.0	115.2	4.262
85	M85 x 2.0	3" or 3 1/2"	25	M85 x 2.0	3" or 3 1/2"	425	69.8	78.0	103	104.0	115.2	3.748
90	M90 x 2.0	3 1/2" or 4"	25	M90 x 2.0	3 1/2" or 4"	425	75.1	84.0	104	114.0	125.7	4.791
100	M100 x 2.0	3 1/2" or 4"	25	M100 x 2.0	3 1/2" or 4"	425	80.5	90.0	104	114.0	125.7	4.103

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 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.
  - The gland is supplied with the correct amount of the two-part compound, gloves and instructions to allow one complete termination.
  - Where approval in addition to ATEX, IECEx and CSA is required, this must be clearly requested at time of enquiry / order.

## Cable Gland Type LT-C

(Double Compression Barrier Gland featuring a Liquid Tight Connector for Flexible Metallic Conduit and the Peppers T-1000 Compound)

Ex db : Ex e : Ex ta : IP66 : IP68

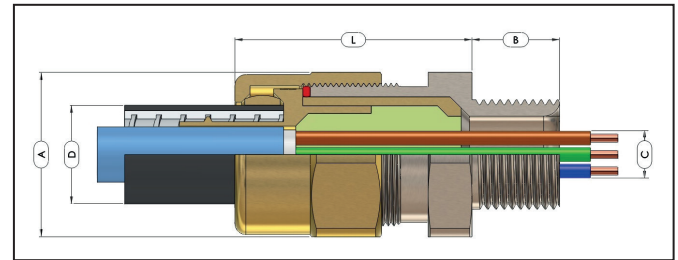
Part Numbers:

L	T	C	B
			S



“LT-C” type glands are certified Flameproof Ex db, 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. Occasionally referred to as “potting glands”, they provide a compound barrier Ex db & IP seal on the cable inner cores, eliminating damage to cables that exhibit “cold flow” characteristics. The gland maintains IP66 & IP68 to 100 metres. The gland incorporates a connection for liquid tight flexible metallic conduit and features the Peppers T-1000 sealing compound that enables a quick and easy installation.

<b>Compliance Standards:</b>	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31 & IEC 60529												
<b>Certification:</b>	<table border="0"> <tr> <td>ATEX</td> <td>I M2 II 1D 2G Ex db I Mb / Ex db IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da</td> </tr> <tr> <td>IECEX</td> <td>Ex db I Mb / Ex db IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da</td> </tr> <tr> <td>INMETRO - Brazil</td> <td>Ex db I Mb / Ex e I Mb / Ex db IIC Gb / Ex e IIC Gb / Ex ta IIIC Da</td> </tr> <tr> <td>SAC - China</td> <td>Ex db IIC / Ex e IIC</td> </tr> <tr> <td>CCoE - India</td> <td>Petroleum Rules 2002 (PESO)</td> </tr> <tr> <td>LLOYD'S</td> <td>Enclosure Systems (Part 1B)</td> </tr> </table>	ATEX	I M2 II 1D 2G Ex db I Mb / Ex db IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da	IECEX	Ex db I Mb / Ex db IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da	INMETRO - Brazil	Ex db I Mb / Ex e I Mb / Ex db IIC Gb / Ex e IIC Gb / Ex ta IIIC Da	SAC - China	Ex db IIC / Ex e IIC	CCoE - India	Petroleum Rules 2002 (PESO)	LLOYD'S	Enclosure Systems (Part 1B)
ATEX	I M2 II 1D 2G Ex db I Mb / Ex db IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da												
IECEX	Ex db I Mb / Ex db IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da												
INMETRO - Brazil	Ex db I Mb / Ex e I Mb / Ex db IIC Gb / Ex e IIC Gb / Ex ta IIIC Da												
SAC - China	Ex db IIC / Ex e IIC												
CCoE - India	Petroleum Rules 2002 (PESO)												
LLOYD'S	Enclosure Systems (Part 1B)												
<b>Certificate No.</b>	<table border="0"> <tr> <td>ATEX</td> <td>SIRA 14ATEX1303X</td> </tr> <tr> <td>IECEX</td> <td>IECEX SIR 14.0106X</td> </tr> <tr> <td>INMETRO - Brazil</td> <td>NCC 16.0275 X</td> </tr> <tr> <td>SAC - China</td> <td>NEPSI GYJ16.1408X</td> </tr> <tr> <td>CCoE - India</td> <td>PESO P365300/1</td> </tr> <tr> <td>LLOYD'S</td> <td>10/00056(E1)</td> </tr> </table>	ATEX	SIRA 14ATEX1303X	IECEX	IECEX SIR 14.0106X	INMETRO - Brazil	NCC 16.0275 X	SAC - China	NEPSI GYJ16.1408X	CCoE - India	PESO P365300/1	LLOYD'S	10/00056(E1)
ATEX	SIRA 14ATEX1303X												
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SAC - China	NEPSI GYJ16.1408X												
CCoE - India	PESO P365300/1												
LLOYD'S	10/00056(E1)												
<b>IP Rating:</b>	IP66 & IP68 (100 metres - 7 Days) & DTS01:1991												
<b>Operating Temperature:</b>	-60°C to +135°C												
<b>Materials:</b>	Brass or Stainless Steel												
<b>Plating:</b>	Electroless Nickel												
<b>Compound:</b>	Peppers T-1000 Sealing Compound												
<b>Curing Time:</b>	@ 21°C the conductor termination can be effected after 1 hour. The equipment can be energised after 4 hours.												



### Example Part Numbering

(See below for details)

LT-CB/NP/20-1/M20

<b>LT-C</b>	Gland featuring Peppers T-1000 Compound and connection for liquid tight flexible metallic conduit	
<b>B</b>	Brass (B) / Stainless Steel (S)	
<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>20-1</b>	Gland and Conduit Connection Size	
<b>M20</b>	M20 x 1.5 Male Entry Thread	
<b>Optional Accessories</b>	Locknut	Brass (ACBLN) / Stainless Steel (ACSLN)
	Earth tag	Brass (ACBET) / Stainless Steel (ACSET)
	IP Washers	Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW)
	Serrated Washers	Stainless Steel (ACSSW)

### CABLE GLAND SELECTION TABLE

Gland & Connection Size	Standard Entry Thread Size		Metric Thread Length [B]	Cable Acceptance Details [C]			Conduit Data [D]		Nominal Protrusion Length [L]	Dimensions/Weight (Metric Versions)		
	Metric	NPT		Max No. of Cores	Max Ø Over Cores	Max Cable Inner Sheath Ø	Typical Conduit I/D	Max Conduit O/D		Across Flats [A]	Across Corners	Weight Kgs
20S-1	M20 x 1.5	½" or ¾"	16	9	5.0	5.0	6.2 - 7.1	11.4 - 12.9	45.0	25.4	28.0	0.180
20S-2	M20 x 1.5	½" or ¾"	16	20	7.8	7.8	9.8 - 10.3	14.2 - 15.6	44.0	25.4	28.0	0.177
20-1	M20 x 1.5	½" or ¾"	16	35	10.4	10.4	12.1 - 13.0	17.0 - 19.1	44.0	30.0	33.0	0.217
20-2	M20 x 1.5	½" or ¾"	16	40	12.5	13.3	15.8 - 16.3	20.8 - 22.3	42.0	30.0	33.0	0.218
25-1	M25 x 1.5	¾" or 1"	16	60	17.8	18.0	20.8 - 21.3	26.0 - 27.8	46.0	41.3	45.4	0.364
32-1	M32 x 1.5	1" or 1 ¼"	16	80	23.5	23.6	26.0 - 27.1	32.7 - 34.5	54.0	46.0	50.6	0.482
40-1	M40 x 1.5	1 ¼" or 1 ½"	16	130	28.8	31.8	34.8 - 35.8	41.1 - 43.3	57.0	55.0	60.5	0.706
50-1	M50 x 1.5	2"	16	200	35.2	37.0	40.0 - 40.6	47.3 - 49.4	66.0	65.0	71.5	0.989
63-1	M63 x 1.5	2 1/2"	19	300	48.0	48.0	50.5 - 51.9	59.4 - 61.4	67.0	80.0	88.0	1.410
75-1	M75 x 1.5	3"	19	325	59.3	59.3	62.9 - 63.9	72.1 - 74.1	67.0	98.8	108.7	1.945
75-2	M75 x 1.5	3"	19	425	60.8	68.0	77.9 - 78.7	87.8 - 90.0	67.0	104.7	115.2	2.338

All dimensions in mm

- Notes:
- Gland size does not necessarily equate to the entry thread size.
  - All brass entry threads are Nickel Plated as standard.
  - 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.
  - It is the installer’s responsibility to ensure that the conduit is secured correctly.
  - The gland is supplied with the correct amount of the two-part compound, gloves and instructions to allow one complete termination.
  - If fit testing is required for specific conduit please contact Peppers.
  - 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 and IECEx is required, this must be clearly requested at time of enquiry / order.

**Cable Gland Type - UL-C** (Double Seal Barrier Gland designed for use with Armoured Cable featuring Peppers CROCLOCK® & T-1000 Compound) **Class I Div 1 : Class II Div 1 : Class III Type 4X** Ex d : Ex e : Ex nR : Ex ta : AEx d : AEx e : AEx ta : IP66 : IP68

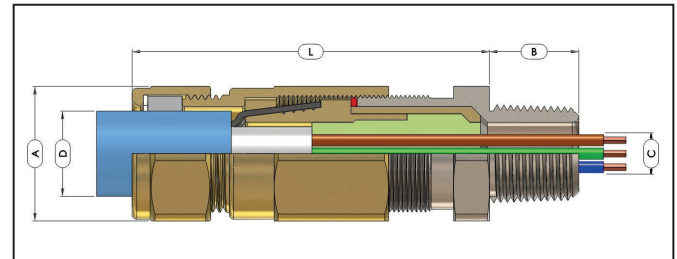
Part Numbers:

UL	C	B	*
		S	R



"UL-C" type glands, certified Explosion Proof Class I Div 1, Gas Groups ABCD, Flameproof Ex d, Increased Safety Ex e, Restricted Breathing Ex nR & dust protected Ex ta are suitable for use in Zone 1, Zone 2, Zone 20, Zone 21, Zone 22, Group I Mining, Gas Groups IIA, IIB, IIC and Dust Groups IIIA, IIIB, IIIC. Occasionally referred to as "potting glands", they provide a compound barrier Ex d & IP seal on the cable inner cores, eliminating damage to cables that exhibit "cold flow" characteristics and an environmental seal on the outer sheath. The gland is suitable for use with all certified Marine Shipboard Cable and Tray Cable whilst being UL listed for Marine Shipboard Armoured, Jacketed or Non Jacketed cable. The unique features include "CROCLOCK®", the non reversible multi-clamping system for wire, braid and tape armoured cables and Peppers T-1000, the sealing compound that enables a quick and easy installation. The gland is AEx d, AEx e, AEx ta approved and rated Type 4X, maintains IP66, IP68 to 100 metres and is deluge proof without the use of an additional seal or deluge boot.

<b>Compliance Standards:</b>	UL514B, UL14203, UL2225, UL50E, ANSI/UL 60079-1/1/7, ISA 60079-31 C22.2 No. 0/25/30/94.1/94.2/174 & CAN/CSA C22.2 60079-0/1/7/31 EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 60079-31 IEC 60079-0, IEC 60079-1, 60079-7, IEC 60079-15, IEC 60079-31 & IEC 60529
<b>Certification:</b>	UL Class I Division 1 / Division 2, Gas Groups ABCD Type 4X CEC - Canada Class I Zone 1 Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da Class I Division 1, Groups A, B, C & D Class II Division 2, Groups A, B, C & D Class III, Enclosure Type 4X NEC - USA Class I Zone 1 AEx d IIC Gb / AEx e IIC Gb Class II Zone 21 AEx ta IIIC Da Class I Division 1, Groups A, B, C & D Class I Division 2, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X ATEX IM2 II D 2G Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb Ex ta IIIC Da / II 3G Ex nR IIC Gc IECEX Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc EAC Exd IU / Exd IICU / Exe IU / Exe IIU / ExnR IIU INMETRO - Brazil Ex d I Mb / Ex d IIC Gb / Ex e I Mb / 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 R5 Rules for the classification & construction of sea-going ships (ed. 2014)
<b>Certificate No.</b>	UL E248936 CEC - Canada CSA 70004604 NEC - USA CSA 70004604 ATEX SIRA 09ATEX1066X & SIRA 09ATEX4124X IECEX IECEx SIR 09.0033X EAC RU C-GB.F506.B.00098 INMETRO - Brazil NCC 13.1957 X SAC - China NEPSI GYJ16.1403X UKRAINE UA.TR.047.C.0408-13 & 2937 CCoE - India PESO P365300/3 & P365300/10 ABS 14-LD463991A-1-PDA LLOYD'S 10/00056(E1) RMRS 14.02755.315
<b>IP Rating:</b>	IP66 & IP68 (100 metres - 7 Days), Type 4X, Oil Resistant II & DTS01:1991
<b>Operating Temperature:</b>	-60°C to +135°C (-25°C to +85°C for UL applications)
<b>Materials:</b>	Brass or Stainless Steel
<b>Plating:</b>	Electroless Nickel
<b>Compound:</b>	Peppers T-1000 Sealing Compound
<b>Elastomeric Seal:</b>	Silicone LSOH



<b>Example Part Numbering</b> (See below for details)		<b>UL-CB/NP/20/075NPT</b>
<b>Options</b>	<b>UL-C</b>	Gland featuring "CROCLOCK®", single orientation clamping, Compound (Barrier) Inner Seal & Silicone Elastomeric Outer Seal with Nickel Plated Entry Thread
	<b>B</b>	Brass (B) / Stainless Steel (S)
	<b>R</b>	Reduced Bore Seal Outer Sheath Seal
	<b>C</b>	PVC Shroud (C) - PCP Shroud (P) - Silicone LSOH Shroud (3)
	<b>K-V-H</b>	Locknut, Earth Tag & Nylon (K), Fibre (V) or PTFE (H) IP Washer
	<b>S</b>	Including Serrated Washer
	<b>1</b>	Quantity per kit
	<b>NP</b>	Nickel Plated
	<b>20</b>	Gland shell size
	<b>075NPT</b>	3/4"NPT Male Entry Thread
<b>Optional Accessories</b>	Locknut	Brass (ACBLN) / Stainless Steel (ACSLN)
	Earth tag	Brass (ACBET) / Stainless Steel (ACSET)
	IP Washers	Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW)
	Serrated Washers	Stainless Steel (ACSSW)
	Shrouds	PVC (ACSPVC) / PCP (ACSPCP) / Silicone LSOH (ACSSIO)
<b>Curing Time:</b>	@ 21°C Conductor termination can be effected after 1 hour The equipment can be energised after 4 hours	

Gland Size	Entry Thread Size		Metric Thread Length [B]	NPT Thread Length [B]	Cable Acceptance Details						Armour Acceptance Range	Nominal Protrusion Length [L]	Dimensions/Weight (NPT Entry Thread Versions)			Shroud Size		
					Internal Cable Details			Cable Outer Sheath Seal [D]					Across Flats [A]	Across Corners	Weight (lbs)			
	Max No. of Cores IEC - NEC	Max Ø Over Cores			Max Inner Sheath [C]	Standard		Reduced										
						Min	Max	Min	Max									
16	M20 x 1.5	1/2" or 3/4"	0.630	0.783 or 0.795	15	1	0.409	0.461	0.362	0.531	0.264	0.406	0.006-0.049	3.228	1.000	1.102	0.589	EL24
20S	M20 x 1.5	1/2" or 3/4"	0.630	0.783 or 0.795	35	4	0.409	0.461	0.453	0.630	0.370	0.492	0.006-0.049	3.228	1.000	1.102	0.606	EL24
20	M20 x 1.5	1/2" or 3/4"	0.630	0.783 or 0.795	40	8	0.492	0.551	0.610	0.831	0.563	0.693	0.006-0.049	3.268	1.180	1.299	0.721	EL30
25	M25 x 1.5	3/4" or 1"	0.630	0.795 or 0.985	60	16	0.701	0.787	0.799	1.079	0.689	0.941	0.006-0.063	3.661	1.480	1.630	1.290	EL38
32	M32 x 1.5	1" or 1 1/4"	0.630	0.985 or 1.008	80	30	0.925	1.035	1.051	1.339	0.984	1.201	0.006-0.079	4.331	1.810	1.992	2.083	EL46
40	M40 x 1.5	1 1/4" or 1 1/2"	0.630	1.008 or 1.024	130	60	1.134	1.268	1.299	1.598	1.154	1.425	0.008-0.079	4.528	2.170	2.382	2.900	EL55
50S	M50 x 1.5	2"	0.630	1.059	200	5	1.374	1.736	1.551	1.839	1.499	1.669	0.008-0.098	4.921	2.560	2.815	4.800	EL65
50	M50 x 1.5	2"	0.630	1.059	400	5	1.551	1.736	1.799	2.094	1.618	1.909	0.008-0.098	4.921	2.560	2.815	4.200	EL65
63S	M63 x 1.5	2 1/2"	0.748	1.571	400	4	1.764	2.205	2.051	2.343	1.846	2.157	0.012-0.098	4.921	3.150	3.465	7.740	EL80
63	M63 x 1.5	2 1/2"	0.748	1.571	425	4	1.969	2.205	2.299	2.591	2.118	2.409	0.012-0.098	4.921	3.150	3.465	6.810	EL80
75S	M75 x 1.5	3"	0.748	1.634	425	4	2.181	2.677	2.551	2.843	2.469	2.677	0.012-0.098	5.315	3.890	4.280	9.150	EL104
75	M75 x 1.5	3"	0.748	1.634	425	4	2.394	2.677	2.799	3.071	2.618	2.890	0.012-0.098	5.315	3.890	4.280	8.040	EL104

All dimensions in inches - [Convert to millimetres (mm) multiply by 25.4] - All weights in lbs [Convert to kilograms (Kgs) multiply by 0.4536]

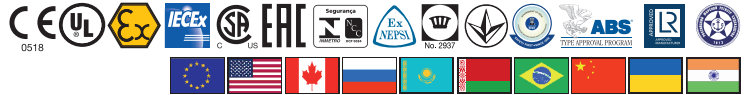
- Notes:
- Gland size does not necessarily equate to the entry thread size.
  - UL approval/applications have a reduced core quantity. Consult product installation instructions for specific core data.
  - Dimensions (A) & (B) may differ for glands with non metric entry threads. Please refer to our "Thread 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.
  - The gland is supplied with the correct amount of the two-part compound, gloves and instructions to allow one complete termination.
  - Metric versions are supplied with an IP O-ring.
  - All brass entry threads are Nickel Plated as standard.
  - Where approval in addition to UL, CSA, ATEX, and IECEx is required, this must be clearly requested at time of enquiry / order.

**Cable Gland Type UL-X** (Single Seal Barrier Gland designed for use with Unarmoured Cable featuring Peppers T-1000 Compound)

Class I Div 2 : Class II Div 1 : Class III Type 4X  
Ex d : Ex e : Ex nR : Ex ta : AEx d : AEx e : AEx ta : IP66 : IP68

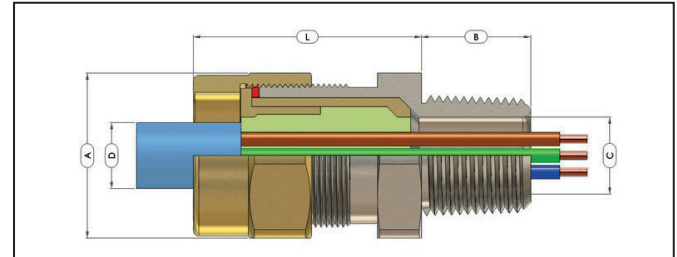
Part Numbers:

UL	X	B
		S



“UL-X” type glands, certified Explosion Proof Class I Div 2, Gas Groups ABCD, Flameproof Ex d, Increased Safety Ex e, Restricted Breathing Ex nR & Dust Protected Ex ta. They are suitable for use in Zone 1, Zone 2, Zone 20, Zone 21, Zone 22, Group I Mining, Gas Groups IIA, IIB, IIC and Dust Groups IIIA, IIIB, IIIC. Occasionally referred to as “potting glands”, they provide a compound barrier Ex d & IP seal on the cable inner cores, eliminating damage to cables that exhibit “cold flow” characteristics. The gland is suitable for use with all certified Marine Shipboard Cable and Tray Cable whilst being UL listed for Marine Shipboard Unarmoured, Jacketed or Non Jacketed cable. A unique feature includes, Peppers T-1000, the sealing compound that enables a quick and easy installation. The gland is AEx d, AEx e, AEx ta approved and rated Type 4X, maintains IP66, IP68 to 100 metres and is deluge proof without the use of an additional seal or deluge boot.

<b>Compliance Standards:</b>	UL514B, UL1203, UL2225, UL50E, ANSI/UL 60079-0/1/7, ISA 60079-31 C22.2 No. 0/25/30/94.1/94.2/174 & CAN/CSA C22.2 60079-0/1/7/31 EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 60079-31 IEC 60079-0, IEC 60079-1, 60079-7, IEC 60079-15, IEC 60079-31 & IEC 60529																										
<b>Certification:</b>	<table border="0"> <tr> <td>UL</td> <td>Class I Division 2, Gas Groups ABCD Type 4X</td> </tr> <tr> <td>CEC - Canada</td> <td>Class I Zone 1 Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da Class I Division 2, Groups A, B, C &amp; D Class II Division 1, Groups E, F &amp; G Class III, Enclosure Type 4X</td> </tr> <tr> <td>NEC - USA</td> <td>Class I Zone 1 AEx d IIC Gb / AEx e IIC Gb / AEx ta IIIC Da Class I Division 2, Groups A, B, C &amp; D Class II Division 1, Groups E, F &amp; G Class III, Enclosure Type 4X</td> </tr> <tr> <td>ATEX</td> <td>I M2 II 1D 2G Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc</td> </tr> <tr> <td>IECEx</td> <td>Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc</td> </tr> <tr> <td>EAC</td> <td>Exd IU / Exd IICU / Exe IU / Exe IIU / ExnR IIU</td> </tr> <tr> <td>INMETRO - Brazil</td> <td>Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc</td> </tr> <tr> <td>SAC - China</td> <td>Ex d IIC / Ex e IIC</td> </tr> <tr> <td>UKRAINE</td> <td>Ex d IIC X / Ex e II X</td> </tr> <tr> <td>CCoE - India</td> <td>Petroleum Rules 2002 (PESO)</td> </tr> <tr> <td>ABS</td> <td>Specified ABS Rules</td> </tr> <tr> <td>LLOYD'S</td> <td>Enclosure Systems (Part 1B)</td> </tr> <tr> <td>RMRS</td> <td>Part XI of RS Rules for the classification &amp; construction of sea-going ships (ed. 2014)</td> </tr> </table>	UL	Class I Division 2, Gas Groups ABCD Type 4X	CEC - Canada	Class I Zone 1 Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da 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 d IIC Gb / AEx e IIC Gb / AEx ta IIIC Da Class I Division 2, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X	ATEX	I M2 II 1D 2G Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc	IECEx	Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc	EAC	Exd IU / Exd IICU / Exe IU / Exe IIU / ExnR IIU	INMETRO - Brazil	Ex d I Mb / Ex d IIC Gb / Ex e I Mb / 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)
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<b>Certificate No.</b>	<table border="0"> <tr> <td>UL</td> <td>E248936</td> </tr> <tr> <td>CEC - Canada</td> <td>CSA 70004604</td> </tr> <tr> <td>NEC - USA</td> <td>CSA 70004604</td> </tr> <tr> <td>ATEX</td> <td>SIRA 09ATEX1066X &amp; SIRA 09ATEX4124X</td> </tr> <tr> <td>IECEx</td> <td>IECEx SIR 09.0033X</td> </tr> <tr> <td>EAC</td> <td>RU C-GB.F506.B.00098</td> </tr> <tr> <td>INMETRO - Brazil</td> <td>NCC 13.1957 X</td> </tr> <tr> <td>SAC - China</td> <td>NEPSI GYJ16.1403X</td> </tr> <tr> <td>UKRAINE</td> <td>UA.TR.047.C.0408-13 &amp; 2937</td> </tr> <tr> <td>CCoE - India</td> <td>PESO P365300/3 &amp; P365300/10</td> </tr> <tr> <td>ABS</td> <td>14-LD463991A-1-PDA</td> </tr> <tr> <td>LLOYD'S</td> <td>10/00056(E1)</td> </tr> <tr> <td>RMRS</td> <td>14.02755.315</td> </tr> </table>	UL	E248936	CEC - Canada	CSA 70004604	NEC - USA	CSA 70004604	ATEX	SIRA 09ATEX1066X & SIRA 09ATEX4124X	IECEx	IECEx SIR 09.0033X	EAC	RU C-GB.F506.B.00098	INMETRO - Brazil	NCC 13.1957 X	SAC - China	NEPSI GYJ16.1403X	UKRAINE	UA.TR.047.C.0408-13 & 2937	CCoE - India	PESO P365300/3 & P365300/10	ABS	14-LD463991A-1-PDA	LLOYD'S	10/00056(E1)	RMRS	14.02755.315
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ABS	14-LD463991A-1-PDA																										
LLOYD'S	10/00056(E1)																										
RMRS	14.02755.315																										
<b>IP Rating:</b>	IP66 & IP68 (100 metres - 7 Days), Type 4X, Oil Resistant II & DTS01:1991																										
<b>Operating Temperature:</b>	-60°C to +135°C (-25°C to +85°C for UL applications)																										
<b>Materials:</b>	Brass or Stainless Steel																										
<b>Plating:</b>	Electroless Nickel																										
<b>Compound:</b>	Peppers T-1000 Sealing Compound																										



**Example Part Numbering** (See below for details) **UL-XB/NP/20/075NPT**

<b>UL-X</b>	Gland featuring a Compound (Barrier) Inner Seal with Nickel Plated Entry Thread	
<b>B</b>	Brass (B) / Stainless Steel (S)	
<b>C</b>	PVC Shroud (C) - PCP Shroud (P) - Silicone LSOH 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>075NPT</b>	3/4" NPT Male Entry Thread	
<b>Optional Accessories</b>	Locknut	Brass (ACBLN) / Stainless Steel (ACSLN)
	Earth tag	Brass (ACBET) / Stainless Steel (ACSET)
	IP Washers	Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW)
	Serrated Washers	Stainless Steel (ACSSW)
	Shrouds	PVC (ACSPVC) / PCP (ACSPCP) / Silicone LSOH (ACSSIO)
<b>Curing Time:</b>	@ 21°C Conductor termination can be effected after 1 hour The equipment can be energised after 4 hours	

**CABLE GLAND SELECTION TABLE**

Gland Size	Entry Thread Size		Metric Thread Length [B]	NPT Thread Length [B]	Cable Acceptance Details				Nominal Protusion Length [L]	Dimensions/Weight (NPT Entry Thread Versions)			Shroud Size
	Metric	NPT			Max No. of Cores IEC - NEC	Max Ø Over Cores	Max Outer Sheath [D]	Across Flats [A]		Across Corners	Weight (lbs)		
20S	M20 x 1.5	1/2" or 3/4"	0.630	0.783 or 0.795	35	4	0.409	0.461	41	1.000	1.102	0.138	L24
20	M20 x 1.5	1/2" or 3/4"	0.630	0.783 or 0.795	40	8	0.492	0.551	41	1.180	1.299	0.170	L30
25	M25 x 1.5	3/4" or 1"	0.630	0.795 or 0.985	60	16	0.701	0.787	47	1.480	1.630	0.320	L38
32	M32 x 1.5	1" or 1 1/4"	0.630	0.985 or 1.008	80	30	0.925	1.035	58	1.810	1.992	0.612	L46
40	M40 x 1.5	1 1/4" or 1 1/2"	0.630	1.008 or 1.024	130	60	1.134	1.268	58	2.170	2.382	0.790	L55
50	M50 x 1.5	2"	0.630	1.059	400	5	1.551	1.736	65	2.560	2.815	0.980	L65
63	M63 x 1.5	2 1/2"	0.748	1.571	425	4	1.969	2.205	66	3.150	3.465	1.510	L80
75	M75 x 1.5	3"	0.748	1.634	425	4	2.394	2.677	66	3.890	4.280	1.732	L104

All dimensions in inches - [Convert to millimetres (mm) multiply by 25.4] - All weights in lbs [Convert to kilograms (Kgs) multiply by 0.4536]

- Notes:
- Gland size does not necessarily equate to the entry thread size.
  - UL approval/applications have a reduced core quantity. Consult product installation instructions for specific core data.
  - 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.
  - The gland is supplied with the correct amount of the two-part compound, gloves and instructions to allow one complete termination.
  - All brass entry threads are Nickel Plated as standard.
  - Where approval in addition to UL, CSA, ATEX, and IECEx is required, this must be clearly requested at time of enquiry / order.

**Cable Gland Type UL-U**

(Double Seal Barrier Gland designed for use with Unarmoured Cable featuring Peppers T-1000 Compound)

Class I Div 2 : Class II Div 1 : Class III Type 4X  
Ex d : Ex e : Ex nR : Ex ta : AEx d : AEx e : AEx ta : IP66 : IP68

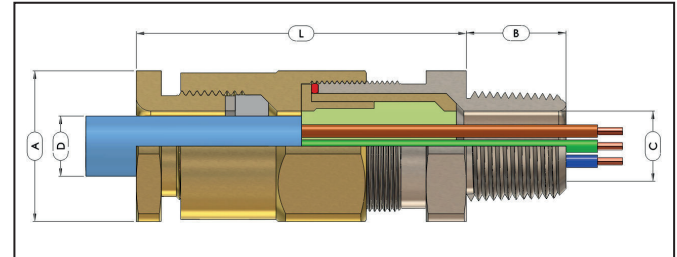
Part Numbers:

UL	U	B
		S



“UL-U” type glands, certified Explosion Proof Class I Div 2, Gas Groups ABCD, Flameproof Ex d, Increased Safety Ex e, Restricted Breathing Ex nR & Dust Protected Ex ta. They are suitable for use in Zone 1, Zone 2, Zone 20, Zone 21, Zone 22, Group I Mining, Gas Groups IIA, IIB, IIC and Dust Groups IIIA, IIIB, IIIC. Occasionally referred to as “potting glands”, they provide a compound barrier Ex d & IP seal on the cable inner cores, eliminating damage to cables that exhibit “cold flow” characteristics and an environmental seal on the outer sheath. The gland is suitable for use with all certified Marine Shipboard Cable and Tray Cable whilst being UL listed for Marine Shipboard Unarmoured, Jacketed or Non Jacketed cable. A unique feature includes, Peppers T-1000, the sealing compound that enables a quick and easy installation. The gland is AEx d, AEx e, AEx ta approved and rated Type 4X, maintains IP66, IP68 to 100 metres and is deluge proof without the use of an additional seal or deluge boot.

<b>Compliance Standards:</b>	UL514B, UL1203, UL2225, UL505E, ANSI/UL 60079-0/1/7, ISA 60079-31 C22.2 No. 0/25/30/94.1/94.2/174 & CAN/CSA C22.2 60079-0/1/7/31 EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 60079-31 IEC 60079-0, IEC 60079-1, 60079-7, IEC 60079-15, IEC 60079-31 & IEC 60529
<b>Certification:</b>	UL Class I Division 2, Gas Groups ABCD Type 4X CEC - Canada Class I Zone 1 Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da 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 d IIC Gb / AEx e IIC Gb / AEx ta IIIC Da Class I Division 2, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X ATEX IM2 II 1D 2G Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc IECEx Ex d I Mb / Ex d IIC Gb / Ex e I Mb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc EAC Exd IU / Exd IICU / Exe IU / Exe IIU / ExnR IIU INMETRO - Brazil Ex d I Mb / Ex d IIC Gb / Ex e I Mb / 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)
<b>Certificate No.</b>	UL E248936 CEC - Canada CSA 70004604 NEC - USA CSA 70004604 ATEX SIRA 09ATEX1066X & SIRA 09ATEX4124X IECEx IECEx SIR 09.0033X EAC RU C-GB.F506.B.00098 INMETRO - Brazil NCC 13.1957 X SAC - China NEPSI GYJ16.1403X UKRAINE UA.TR.047.C.0408-13 & 2937 CCoE - India PESO P365300/3 & P365300/10 ABS 14-LD463991A-1-PDA LLOYD'S 10/00056(E1) RMRS 14.02755.315
<b>IP Rating:</b>	IP66 & IP68 (100 metres - 7 Days), Type 4X, Oil Resistant II & DTS01:1991
<b>Operating Temperature:</b>	-60°C to +135°C (-25°C to +85°C for UL applications)
<b>Materials:</b>	Brass or Stainless Steel
<b>Plating:</b>	Electroless Nickel
<b>Compound:</b>	Peppers T-1000 Sealing Compound



**Example Part Numbering**  
(See below for details) **UL-UB/NP/20/075NPT**

<b>UL-U</b>	Gland featuring a Compound (Barrier) Inner Seal with Nickel Plated Entry Thread	
<b>B</b>	Brass (B) / Stainless Steel (S)	
<b>C</b>	PVC Shroud (C) - PCP Shroud (P) - Silicone LSOH 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>075NPT</b>	3/4"NPT Male Entry Thread	
<b>Optional Accessories</b>	Locknut	Brass (ACBLN) / Stainless Steel (ACSLN)
	Earth tag	Brass (ACBET) / Stainless Steel (ACSET)
	IP Washers	Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW)
	Serrated Washers	Stainless Steel (ACSSW)
	Shrouds	PVC (ACSPVC) / PCP (ACSPCP) / Silicone LSOH (ACSSIO)
<b>Curing Time:</b>	@ 21°C Conductor termination can be effected after 1 hour The equipment can be energised after 4 hours	

CABLE GLAND SELECTION TABLE														
Gland Size	Entry Thread Size		ISO Thread Length [B]	NPT Thread Length [B]	Cable Acceptance Details				Nominal Protrusion Length [L]	Dimensions/Weight (NPT Entry Thread Versions)			Shroud Size	
					Cable Inner Sheath [C]		Cable Outer Sheath [D]			Across Flats	Across Corners [A]	Weight (lbs)		
	Metric	NPT			Number of Cores IEC - NEC	Max Ø Over Cores	Min	Max						
16	M20 x 1.5	1/2" or 3/4"	0.630	0.783 - 0.795	15	1	0.409	0.134	0.331	2.717	1.000	1.102	0.602	EL24
20S	M20 x 1.5	1/2" or 3/4"	0.630	0.783 - 0.795	35	4	0.409	0.189	0.461	2.717	1.000	1.102	0.590	EL24
20	M20 x 1.5	1/2" or 3/4"	0.630	0.783 - 0.795	40	8	0.492	0.374	0.551	2.717	1.180	1.299	0.710	EL30
25	M25 x 1.5	3/4" or 1"	0.630	0.795 - 0.985	60	16	0.701	0.461	0.787	2.953	1.480	1.630	1.120	EL38
32	M32 x 1.5	1" or 1 1/4"	0.630	0.985 - 1.008	80	30	0.925	0.713	1.035	3.425	1.810	1.992	1.797	EL46
40	M40 x 1.5	1 1/4" or 1 1/2"	0.630	1.008 - 1.024	130	60	1.134	0.890	1.268	3.543	2.170	2.382	2.577	EL55
50S	M50 x 1.5	2"	0.630	1.059	200	5	1.346	1.110	1.504	3.937	2.560	2.815	3.770	EL65
50	M50 x 1.5	2"	0.630	1.059	400	5	1.551	1.303	1.736	3.937	2.560	2.815	3.263	EL65
63S	M63 x 1.5	2 1/2"	0.748	1.571	400	4	1.764	1.547	1.972	3.937	3.150	3.465	6.190	EL80
63	M63 x 1.5	2 1/2"	0.748	1.571	425	4	1.969	1.839	2.205	3.937	3.150	3.465	5.309	EL80
75S	M75 x 1.5	3"	0.748	1.634	425	4	2.181	2.059	2.441	3.937	3.890	4.280	6.960	EL104
75	M75 x 1.5	3"	0.748	1.634	425	4	2.394	2.283	2.677	3.937	3.890	4.280	6.490	EL104

All dimensions in inches - [Convert to millimetres (mm) multiply by 25.4] - [Convert to kilograms (Kgs) multiply by 0.4536]

- Notes:
- Gland size does not necessarily equate to the entry thread size.
  - UL approval/applications have a reduced core quantity. Consult product installation instructions for specific core data.
  - 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.
  - The gland is supplied with the correct amount of the two-part compound, gloves and instructions to allow one complete termination.
  - All brass entry threads are Nickel Plated as standard.
  - Where approval in addition to UL, CSA, ATEX, and IECEx is required, this must be clearly requested at time of enquiry / order.

**Cable Gland Type A** - (Single Seal Gland designed for use with Unarmoured Cable)

IEC 62444 : EN 62444 : BS 6121 : IP66 : IP68

Part Numbers:

A	1	L	B
	2		S
	3		A
	4		



"A" type glands are 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. Options are available for use with LSOH cables and extreme temperature applications.

**Compliance Standards:** IEC 62444  
EN 62444  
BS 6121

**Certification:** ABS Specified ABS Rules

**Certificate No.** ABS 14-LD463991-1-PDA

**IP Rating:** IP66 & IP68 (50 metres - 7 Days)

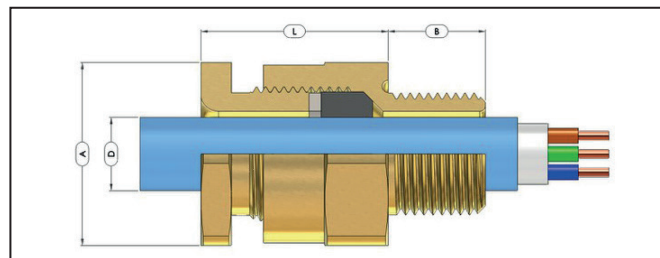
**Operating Temperature:** Neoprene Seals -35°C to +90°C / Silicone Seals -60°C to +180°C

**Materials:** Aluminium, Brass, Stainless Steel

**Plating:** Electroless Nickel

**Optional Accessories:**

Locknut	Brass (ACBLN) / St Steel (ACSLN) / Aluminium (ALALN)
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)


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

A2LB/NP/20/M20

<b>A</b>	Gland featuring controlled displacement sealing
<b>2</b>	Neoprene Seal (2) - Silicone Seal (3) - Neoprene/Lead (1) - Silicone/Lead (4)
<b>L</b>	Peppers Standard Designation
<b>B</b>	Aluminium (A) / Brass (B) / Stainless Steel (S)
<b>C</b>	PVC Shroud (C) - PCP Shroud (P) - Silicone LSOH 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

**CABLE GLAND SELECTION TABLE**

Gland Size	Entry Thread Size		Metric Thread Length [B]	Cable Acceptance Details		Nominal Protusion Length [L]	Dimensions/Weight (Metric Versions)			Shroud Size
	Metric	NPT		Outer Sheath [D]			Across Flats [A]	Across Corners	Weight Kgs	
				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.
  - 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.



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

IEC 62444 : EN 62444 : BS 6121 : IP66 : IP68

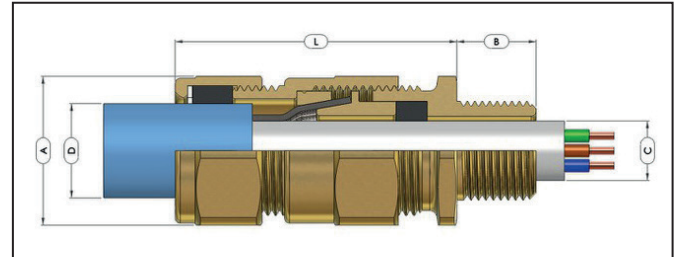
Part Numbers:

<b>E</b>	<b>1</b>	<b>W</b>	<b>B</b>	<b>*</b>	<b>*</b>
	<b>2</b>	<b>X</b>	<b>S</b>	<b>IE</b>	<b>R</b>
	<b>3</b>		<b>A</b>		



"E" type double compression glands provide a controlled 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. 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.

<b>Compliance Standards:</b>	IEC 62444 EN 62444 BS 6121
<b>Certification:</b>	ABS Specified ABS Rules
<b>Certificate No.</b>	ABS 14-LD463991-1-PDA
<b>IP Rating:</b>	IP66 & IP68 (50 metres - 7 Days)
<b>Operating Temperature:</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
<b>Optional Accessories:</b>	Locknut Brass (ACBLN) / St Steel (ACSLN) / Aluminium (ACALN) Earth tag Brass (ACBET) / St Steel (ACSET) / Aluminium (ACALN) IP Washers Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW) Serrated Washer Stainless Steel (ACSSW) Shrouds PVC (ACSPVC) / PCP (ACSPCP) / LSOH Silicone (ACSSIO)



<b>Example Part Numbering</b> (See below for details)	E1WB/NP/20/050NPT
<b>E</b>	Gland featuring armour specific clamping
<b>1</b>	Neoprene Seals (1) - Silicone Seals (3) - Neoprene/Lead (2) - Silicone/Lead (4)
<b>W</b>	SWA (W) / SWB or STA (X)
<b>B</b>	Aluminium (A) / Brass (B) / Stainless Steel (S)
<b>IE</b>	Integral Earth (see page TR-2)
<b>R</b>	Reduced Bore Seal
<b>C</b>	PVC Shroud (C) - PCP Shroud (P) - LSOH Silicone Shroud (3)
<b>K-V-H</b>	Locknut, Earth Tag & Nylon (K), Fibre (V) or PTFE (H) IP Washer
<b>S</b>	Including Serrated Washer
<b>1</b>	Quantity per kit
<b>NP</b>	Nickel Plated
<b>20</b>	Gland shell size
<b>050NPT</b>	1/2"NPT Male Entry Thread

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	
	Min	Max		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.

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

IEC 62444 : EN 62444 : BS 6121 : IP66

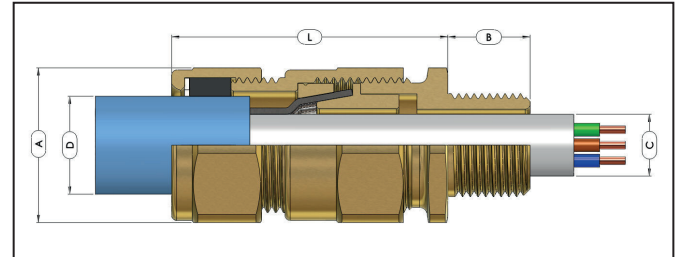
Part Numbers:

C	1	W	B	*
	3	X	S	R
			A	



"C" type single compression glands provide a controlled IP and 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 options are available for use with LSOH cables and extreme temperature applications.

<b>Compliance Standards:</b>	IEC 62444 EN 62444 BS 6121
<b>Certification:</b>	ABS Specified ABS Rules
<b>Certificate No.:</b>	ABS 14-LD463991-1-PDA
<b>IP Rating:</b>	IP66
<b>Operating Temperature:</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
<b>Optional Accessories:</b>	Locknut Brass (ACBLN) / St Steel (ACSLN) / Aluminium (ACALN) Earth tag Brass (ACBET) / St Steel (ACSET) / Aluminium (ACALN) IP Washers Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW) Serrated Washer Stainless Steel (ACSSW) Shrouds PVC (ACSPVC) / PCP (ACSPCP) / LSOH Silicone (ACSSIO)



<b>Example Part Numbering</b> (See below for details)	<b>C1WB/NP/20/050NPT</b>
<b>C</b>	Gland featuring armour specific clamping
<b>1</b>	Neoprene Seals (1) - Silicone Seals (3)
<b>W</b>	SWA (W) / SWB or STA (X)
<b>B</b>	Aluminium (A) / Brass (B) / Stainless Steel (S)
<b>R</b>	Reduced Bore Seal
<b>C</b>	PVC Shroud (C) - PCP Shroud (P) - LSOH Silicone Shroud (3)
<b>K-V-H</b>	Locknut, Earth Tag & Nylon (K), Fibre (V) or PTFE (H) IP Washer
<b>S</b>	Including Serrated Washer
<b>1</b>	Quantity per kit
<b>NP</b>	Nickel Plated
<b>20</b>	Gland shell size
<b>050NPT</b>	1/2"NPT Male Entry Thread

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
	Metric	NPT		Inner Sheath [C]		Outer Sheath [D]		Reduced [D]		W	X		Across Flats [A]	Across Corners	Weight Kgs	
				Min	Max	Min	Max	Min	Max							
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:
- 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.
  - 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.

**Cable Gland Type C IE** (Single Compression Gland for Armoured Cable featuring Dedicated Armour Clamping and an Integral Earth Connection for HV Cables)

IEC 62444 : EN 62444 : BS 6121 : IP66

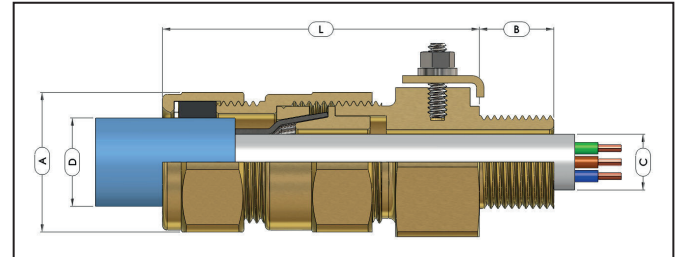
Part Numbers:

<b>C</b>	<b>1</b>	<b>W</b>	<b>B</b>	<b>*</b>	<b>*</b>
	<b>3</b>	<b>X</b>	<b>S</b>	<b>IE</b>	<b>R</b>
			<b>A</b>		



"C" type single compression glands provide a controlled IP and 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 incorporates an Integral Earth, "IE", which allows the gland to be used with HV cables where the fault load is greater than 10.4kA. Options are available for use with LSOH cables and extreme temperature applications.

<b>Compliance Standards:</b>	IEC 62444 EN 62444 BS 6121
<b>Certification:</b>	ABS Specified ABS Rules
<b>Certificate No.:</b>	ABS 14-LD463991-1-PDA
<b>IP Rating:</b>	IP66
<b>Operating Temperature:</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
<b>Optional Accessories:</b>	Locknut Brass (ACBLN) / St Steel (ACSLN) / Aluminium (ACALN) IP Washers Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW) Serrated Washer Stainless Steel (ACSSW) Shrouds PVC (ACSPVC) / PCP (ACSPCP) / LSOH Silicone (ACSSIO)


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

C1WBIE/NP/20/050NPT

<b>C</b>	Gland featuring armour specific clamping
<b>1</b>	Neoprene Seals (1) - Silicone Seals (3)
<b>W</b>	SWA (W) / SWB or STA (X)
<b>B</b>	Aluminium (A) / Brass (B) / Stainless Steel (S)
<b>IE</b>	Integral Earth
<b>R</b>	Reduced Bore Seal
<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>S</b>	Including Serrated Washer
<b>1</b>	Quantity per kit
<b>NP</b>	Nickel Plated
<b>20</b>	Gland shell size
<b>050NPT</b>	1/2" NPT Male Entry Thread

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
	Metric	NPT		Inner Sheath [C]		Outer Sheath [D]		Reduced [D]		W	X		Across Flats [A]	Across Corners	Weight Kgs	
				Min	Max	Min	Max	Min	Max							
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	72	24.0	26.5	0.237	n/a
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	72	24.0	26.5	0.248	n/a
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	72	24.0	26.5	0.213	n/a
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	72	30.0	33.0	0.323	n/a
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	72	38.0	41.4	0.385	n/a
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	81	46.0	50.6	0.636	n/a
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	94	55.0	60.5	0.967	n/a
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	95	65.0	71.5	1.383	n/a
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	95	65.0	71.5	1.292	n/a
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	95	65.0	71.5	1.088	n/a
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	101	80.0	88.0	2.091	n/a
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	101	80.0	88.0	2.132	n/a
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	101	80.0	88.0	1.748	n/a
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	107	90.0	99.0	2.463	n/a
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	107	90.0	99.0	2.355	n/a
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	107	90.0	99.0	2.007	n/a
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	132	104.0	115.2	3.692	n/a
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	132	104.0	115.2	3.463	n/a
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	132	104.0	115.2	3.197	n/a
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	132	114.0	125.7	3.900	n/a
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	132	114.0	125.7	3.677	n/a
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	132	114.0	125.7	3.404	n/a

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.
  - 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.

**Product Type AR - (Metallic Adaptors and Reducers)**

Ex d : Ex e : Ex nR : Ex tb : IP66 : IP68  
Class I Div 1 : AEx d : AEx e : AEx tb

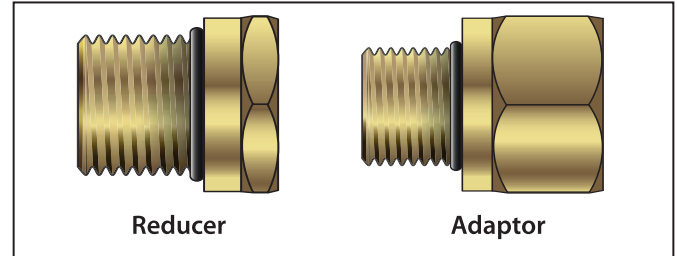
Part No's:

A	R	1	B	F
		3	S	
			A	



"AR" Series Certified Adaptors & Reducers provide a method of matching electrical thread forms on Ex equipment whilst maintaining Ex d, Ex e, Ex tb and Ex nR methods of explosion protection. Approved for use in mining (except Aluminium) and surface installations, they maintain IP66 & IP68 for IEC type applications and Class I Division 1 and NEMA 4X for CEC / NEC type applications. All external metric threads are fitted with a nitrile O-ring as standard.

<b>Compliance Standard:</b>	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 60079-15, IEC 60079-31 & 60529 C22.2 (see certificate), UL514B, UL1203, ANSI/UL 60079-0/1/7, ISA 60079-31, UL 50E
<b>Certification:</b>	<p>ATEX I M2 II 2GD Exd I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex tb IIIC Db II 3G Ex nR IIC Gc</p> <p>IECEX Ex d I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex tb IIIC Db / Ex nR IIC Gc</p> <p>CEC - Canada Class I Zone 1 Ex d IIC / Ex e IIC / Class II Zone 21 Ex tb IIIC Class I Division 1, Groups A, B, C &amp; D Class II Division 1, Groups E, F &amp; G Class III, Enclosure Type 4X</p> <p>NEC - USA Class I Zone 1 AEx d IIC Gb / AEx e IIC Gb / Class II Zone 21 AEx tb IIIC Db Class I Division 1, Groups A, B, C &amp; D Class II Division 1, Groups E, F &amp; G Class III, Enclosure Type 4X</p> <p>EAC Exd IU / Exd IICU / Exe IU / Exe IIU / ExnR IIU</p> <p>INMETRO - Brazil Ex d I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex tb IIIC Db / Ex nR IIC Gc</p> <p>SAC - China Ex d IIC / Ex e IIC</p> <p>UKRAINE Exd IU / Exd IICU / Exe IU / Exe IIU</p> <p>CCoE - India Ex d IIC Gb / Ex e IIC Gc</p> <p>ABS Specified ABS Rules</p> <p>LLOYD'S Enclosure Systems (Part B1)</p> <p>RMRS Part XI of Rules for sea-going ships (ed.2014)</p>
<b>Certificate No.</b>	<p>ATEX SIRA 09ATEX1322X &amp; SIRA 09ATEX4323X</p> <p>IECEX IECEX SIR 09.0131X</p> <p>CEC - Canada CSA 2310046</p> <p>NEC - USA CSA 2310046</p> <p>EAC RU C-GB.Г506.В.00098</p> <p>INMETRO - Brazil NCC 13.2189 X</p> <p>SAC - China NEPSI GYJ16.1404X</p> <p>UKRAINE UA.TR.047.C.0408-13 &amp; 2937</p> <p>CCoE - India PESO P365300/9 &amp; P365300/12</p> <p>ABS 14-LD1183401-PDA</p> <p>LLOYD'S 10/00056(E1)</p> <p>RMRS 14.02755.315</p>



<b>Example Part Numbering</b> (Always Quote Male Thread First)	AR1BF/NP/M20/M25
<b>AR</b>	Thread converting Adaptor/Reducer
<b>1</b>	No IP O-ring (0) - Nitrile (1) - Silicone (3)
<b>B</b>	Brass (B) - Stainless Steel (S) - Aluminium (A)
<b>F</b>	Ex d & Ex e certification including Marine Approvals
<b>NP</b>	Nickel Plated
<b>M20</b>	Male Entry Thread
<b>M25</b>	Female Entry Thread
<b>Optional Accessories</b>	<p>IP Washers - (N) Nylon (ACNSW) / (V) Fibre (ACFSW) / (H) PTFE (ACPSW)</p> <p>(T) Earth Tag - Brass (ACBET) / St-Steel (ACSET) / Aluminium (ACAET)</p> <p>(L) Locknut - Brass (ACBLN) / St-Steel (ACSLN) / Aluminium (ACALN)</p> <p>(S) Serrated Washer - Stainless Steel (ACSSW)</p>

<b>IP Rating:</b>	IP66 & IP68 (100 metres for 7 days) & NEMA 4X
<b>Impact Resistance:</b>	20Nm (Aluminium 7Nm)
<b>Operating Temperature:</b>	<p>O-ring - None -100°C to +400°C</p> <p>O-ring - Nitrile -30°C to +100°C</p> <p>O-ring - Silicone -60°C to +200°C</p>
<b>Materials:</b>	Brass, Stainless Steel or Aluminium
<b>Plating:</b>	Electroless Nickel

Male and Female Thread References and Size information can be found on page TR-1 of our product catalogue.

Adaptor and Reducer size information is available on pages TR-2 & TR-3 of our product catalogue.

Male and female threads are manufactured in accordance with:-

- ISO Metric threads to ISO 965-1, ISO 965-3, BS3643 and IEC 60423
- NPT and NPS threads are in accordance to ANSI B1.20.1
- PG threads to DIN40430
- ET threads to Imperial Conduit BS31
- ISO Pipe Parallel to ISO 228 and BS2779 (BSPP, G, R, PF & Tpy 6)
- ISO Pipe Taper to ISO 7-1 and BS21 (BSPT, Gc, Gk, Rk, PT & Kmpy 6)

- Notes:**
- Assembly instructions must be read prior to installation and adhered to in full.
  - For Ex d applications female threads must comply with clause 5.3 of IEC 60079-1.
  - For Ex nR applications parallel entry threads must be installed with a suitable entry thread seal.
  - ATEX / IECEx versions are supplied as standard.
  - Additional approvals must be requested at time of order.
  - Where applicable, the standard O-ring material is nitrile. Other options are available upon request.
  - Aluminium versions are not suitable for Group I Mining applications.

**Product Type ARMM & ARFF - (Metallic Adaptors)**

Ex d : Ex e : Ex nR : Ex ta : IP66 : IP68  
Class I Div 1 : AEx e : AEx ta

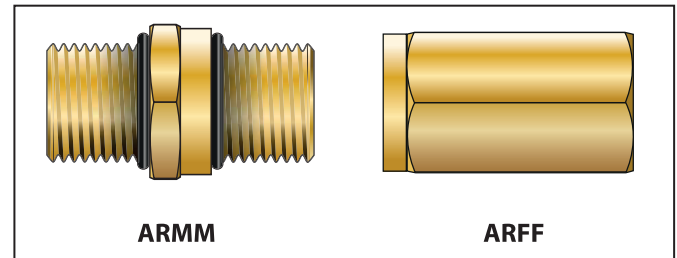
Part No's:

<b>A</b>	<b>R</b>	<b>MM</b>	<b>0</b>	<b>B</b>	<b>F</b>
		<b>FF</b>	<b>1</b>	<b>S</b>	
			<b>3</b>	<b>A</b>	



"ARMM & ARFF" Series Certified Adaptors provide a method of matching electrical thread forms on Ex equipment whilst maintaining Ex d, Ex e, Ex tb and Ex nR methods of explosion protection. Approved for use in mining (except Aluminium) and surface installations, they maintain IP66 & IP68 for IEC type applications and Class I Division 1 and NEMA 4X for CEC type applications. All external metric threads are fitted with a nitrile O-ring as standard.

<b>Compliance Standard:</b>	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 60079-15, IEC 60079-31 & 60529 C22.2 (see certificate), UL514B, UL1203, ANSI/UL 60079-0/1/7, ISA 60079-31, UL 50E
<b>Certification:</b>	ATEX I M2 II 2GD Exd I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc  IECEX Ex d I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc  CEC - Canada Class I Zone 1 Ex d IIC / Ex e IIC / Class II Zone 21 Ex tb IIIC Class I Division 1, 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 d IIC Gb / AEx e IIC Gb / Class II Zone 21 AEx tb IIIC Db Class I Division 1, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X  EAC Exd IU / Exd IICU / Exe IU / Exe IIU / ExnR IIU  INMETRO - Brazil Ex d I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex tb IIIC Db / Ex nR IIC Gc  SAC - China Ex d IIC / Ex e IIC  UKRAINE Exd IU / Exd IICU / Exe IU / Exe IIU  CCoE - India Ex d IIC Gb / Ex e IIC Gc  ABS Specified ABS Rules  LLOYD'S Enclosure Systems (Part 1B)  RMRS Part XI of Rules for sea-going ships (ed.2014)



**Example Part Numbering** ARMM1BF/NP/M20/M25

<b>ARMM or ARFF</b>	<b>ARMM</b> = Male x Male - <b>ARFF</b> = Female x Female
<b>1</b>	No IP O-ring (0) - Nitrile (1) - Silicone (3)
<b>B</b>	Brass (B) - Stainless Steel (S) - Aluminium (A)
<b>F</b>	Ex d & Ex e certification including Marine Approvals
<b>NP</b>	Nickel Plated
<b>M20</b>	Male or Female Entry Thread
<b>M25</b>	Male or Female Entry Thread

ARFF part numbers will always contain the "0" as this product cannot be fitted with O-rings  
For ARMM always quote the smallest thread first so the product is an Adaptor not Reducer  
Accessories are available for ARMM series

<b>Certificate No.</b>	ATEX SIRA 09ATEX1322X & SIRA 09ATEX4323X IECEX IECEX SIR 09.0131X CEC - Canada CSA 2310046  NEC - USA CSA 2310046 EAC RU C-GB.Г506.В.00098 INMETRO - Brazil NCC 13.2189 X  SAC - China NEPSI GYJ16.1404X UKRAINE UA.TR.047.C.0408-13 & 2937 CCoE - India PESO P365300/9 & P365300/12 ABS 14-LD1183401-PDA LLOYD'S 10/00056(E1) RMRS 14.02755.315
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<b>IP Rating:</b>	IP66 & IP68 (100 metres for 7 days) & NEMA 4X
<b>Impact Resistance:</b>	20Nm (Aluminium 7Nm)
<b>Operating Temperature:</b>	O-ring - None -100°C to +400°C O-ring - Nitrile -30°C to +100°C O-ring - Silicone -60°C to +200°C
<b>Materials:</b>	Brass, Stainless Steel or Aluminium
<b>Plating:</b>	Electroless Nickel

Male and Female Thread References and Size information can be found on page TR-1 of our product catalogue.  
Adaptor and Reducer size information is available on pages TR-2 & TR-3 of our product catalogue.

Male and female threads are manufactured in accordance with:-  
ISO Metric threads to ISO 965-1, ISO 965-3, BS3643 and IEC 60423  
NPT and NPS threads are in accordance to ANSI B1.20.1  
PG threads to DIN40430  
ET threads to Imperial Conduit BS31  
ISO Pipe Parallel to ISO 228 and BS2779 (BSPP, G, R, PF & Tpy 6)  
ISO Pipe Taper to ISO 7-1 and BS21 (BSPT, Gc, Gk, Rk, PT & Kmpy 6)

- Notes:**
- Assembly instructions must be read prior to installation and adhered to in full.
  - For Ex d applications female threads must comply with clause 5.3 of IEC 60079-1.
  - For Ex nR applications parallel entry threads must be installed with a suitable entry thread seal.
  - ATEX / IECEX versions are supplied as standard.
  - Additional approvals must be requested at time of order.
  - Where applicable, the standard O-ring material is nitrile. Other options are available upon request.
  - Aluminium versions are not suitable for Group I Mining applications.

**Product Type SPMH & SPHH - (Metallic Dome Head & Hex Head Stopping Plug)**

Ex d : Ex e : Ex nR : Ex tb : IP66 :  
IP68 Class I Div 1 : AEx e : AEx ta

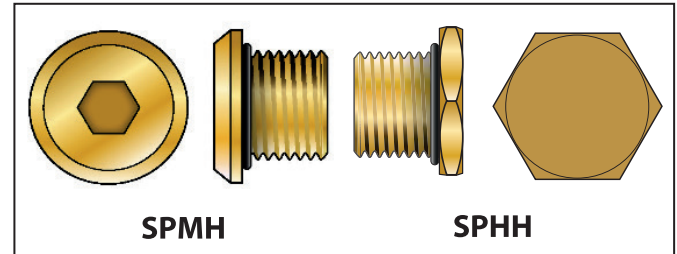
Part No's:

SP	MH	0	B	F
	HH	1	S	
		3	A	



"SPMH & SPHH" Series Certified Metallic Stopping (Blanking) Plugs provide a method of sealing unused entries in Ex equipment. They maintain Ex d, Ex e, Ex tb and Ex nR methods of protection and IP66, IP68 for IEC type applications. They are Class I Division 1, Class II Division 1, Class II and Class 1 Zone 1 approved for for NEC and CEC type applications whilst also maintaining Type 4X rating.

<b>Compliance Standard:</b>	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 60079-15, IEC 60079-31 & IEC 60529 C22.2 (see certificate), UL514B, UL1203, ANSI/UL 60079-0/1/7, ISA 60079-31, UL 50E
<b>Certification:</b>	<p><b>ATEX</b> I M2 II 2GD Exd I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex tb IIIC Db II 3G Ex nR IIC Gc</p> <p><b>IECEX</b> Ex d I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex tb IIIC Db / Ex nR IIC Gc</p> <p><b>CEC - Canada</b> Class I Zone 1 Ex d IIC / Ex e IIC / Class II Zone 21 Ex tb IIIC Class I Division 1, Groups A, B, C &amp; D Class II Division 1, Groups E, F &amp; G Class III, Enclosure Type 4X</p> <p><b>NEC - USA</b> Class I Zone 1 AEx d IIC Gb / AEx e IIC Gb / Class II Zone 21 AEx tb IIIC Db Class I Division 1, Groups A, B, C &amp; D Class II Division 1, Groups E, F &amp; G Class III, Enclosure Type 4X</p> <p><b>EAC</b> Exd IU / Exd IICU / Exe IU / Exe IIU / ExnR IIU</p> <p><b>INMETRO - Brazil</b> Ex d I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex tb IIIC Db / Ex nR IIC Gc</p> <p><b>SAC - China</b> Ex d IIC / Ex e IIC</p> <p><b>UKRAINE</b> Exd IU / Exd IICU / Exe IU / Exe IIU</p> <p><b>CCoE - India</b> Ex d IIC Gb / Ex e IIC Gc</p> <p><b>ABS</b> Specified ABS Rules</p> <p><b>LLOYD'S</b> Enclosure Systems (Part 1B)</p> <p><b>RMRS</b> Part XI of Rules for sea-going ships (ed.2014)</p>
<b>Certificate No.</b>	<p><b>ATEX</b> SIRA 09ATEX1320X &amp; SIRA 09ATEX4323X</p> <p><b>IECEX</b> IECEX SIR 09.0131X</p> <p><b>CEC - Canada</b> CSA 2310046</p> <p><b>NEC - USA</b> CSA 2310046</p> <p><b>EAC</b> RU C-GB.F606.B.00098</p> <p><b>INMETRO - Brazil</b> NCC 13.2189 X</p> <p><b>SAC - China</b> GYJ16.1406X</p> <p><b>UKRAINE</b> UA.TR.047.C.0408-13 &amp; 2937</p> <p><b>CCoE - India</b> PESO P365300/7 &amp; P365300/12</p> <p><b>ABS</b> 14-LD1183401-PDA</p> <p><b>LLOYD'S</b> 10/00056(E1)</p> <p><b>RMRS</b> 14.02755.315</p>



**Example Part Numbering**

SPMH1BF/NP/M20

<b>SP</b>	Stopping (Blanking) Plug
<b>MH</b>	Dome (Mushroom) Head (MH) / Hex Head (HH)
<b>1</b>	No IP O-ring (0) - Nitrile (1) - Silicone (3)
<b>B</b>	Brass (B) - Stainless Steel (S) - Aluminium (A)
<b>F</b>	Ex d & Ex e certification including Marine Approvals
<b>NP</b>	Nickel Plated
<b>M20</b>	Male Thread
<b>Optional Accessories</b>	IP Washers - (N) Nylon (ACNSW) / (V) Fibre (ACFSW) / (H) PTFE (ACPSW) (T) Earth Tag - Brass (ACBET) / St-Steel (ACSET) / Aluminium (ACAET) (L) Locknut - Brass (ACBLN) / St-Steel (ACSLN) / Aluminium (ACALN) (S) Serrated Washer - Stainless Steel (ACSSW)

**IP Rating:** IP66 & IP68 (100 metres for 7 days) & NEMA 4X

**Impact Resistance:** 20Nm (Aluminium 7Nm)

**Operating Temp:**  
 O-ring - None -100°C to +400°C  
 O-ring - Nitrile -30°C to +100°C  
 O-ring - Silicone -60°C to +200°C

**Materials:** Brass, Stainless Steel or Aluminium

**Plating:** Electroless Nickel

**Male threads are manufactured in accordance with:-**

- ISO Metric threads to ISO 965-1, ISO 965-3, BS3643 and IEC 60423
- NPT and NPS threads are in accordance to ANSI B1.20.1
- PG threads to DIN40430
- ET threads to Imperial Conduit BS31
- ISO Pipe Parallel to ISO 228 and BS2779 (BSPP, G, R, PF & Tpy 6)
- ISO Pipe Taper to ISO 7-1 and BS21 (BSPT, Gc, Gk, Rk, PT & Kmpy 6)

**Notes:**

- Assembly instructions must be read prior to installation and adhered to in full.
- For Ex d applications female threads must comply with clause 5.3 of IEC 60079-1.
- For Ex nR applications parallel entry threads must be installed with a suitable entry thread seal.
- ATEX / IECEX versions are supplied as standard.
- Additional approvals must be requested at time of order.
- Where applicable, the standard O-ring material is nitrile. Other options are available upon request.
- Aluminium versions are not suitable for Group I Mining applications.

**Product Type SPA & SPB - (Metallic Stopping Plugs)**

Ex d : Ex e : Ex tb : IP66  
Class I Div 1 : AEx e : AEx tb

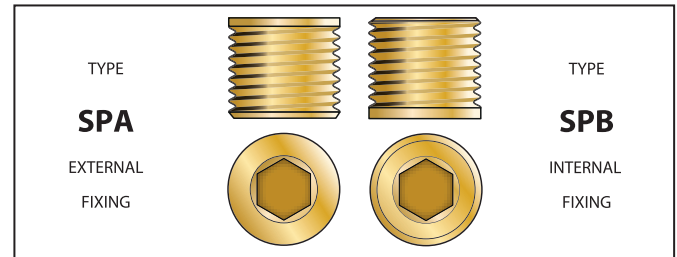
Part No's:

SP	A	0	B	D
	B		S	
			A	



"SP" Series Certified Metallic Stopping (Blanking) Plugs provide a method of sealing unused entries in Ex equipment. They maintain Ex d, Ex e and Ex tb methods of protection and IP66 for IEC type applications. They are Class I Division 1, Class II Division 1, Class II and Class I Zone 1 approved for for NEC and CEC type applications whilst also maintain Type 4X rating.

<b>Compliance Standard:</b>	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 60079-15, IEC 60079-31 & 60529 C22.2 (see certificate), UL514B, UL1203, ANSI/UL 60079-0/1/7, ISA 60079-31, UL 50E
<b>Certification:</b>	ATEX I M2 II 2GD Exd I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb Ex tb IIIC Db II IECEX Ex d I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex tb IIIC Db CEC - Class I Zone 1 Ex d IIC / Ex e IIC / Class II Zone 21 Ex tb IIIC Canada Class I Division 1, 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 d IIC Gb / AEx e IIC Gb / Class II Zone 21 AEx tb IIIC Db Class I Division 1, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X EAC Exd IU / Exd IICU / Exe IU / Exe IIU / ExnR IIU INMETRO - Brazil Ex d I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex tb IIIC Db SAC - China Ex d IIC / Ex e IIC UKRAINE Exd IU / Exd IICU / Exe IU / Exe IIU CCoE - India Ex d IIC Gb / Ex e IIC Gc ABS Specified ABS Rules LLOYD'S Enclosure Systems (Part 1B) RMRS Part XI of Rules for sea-going ships (ed.2014)



**Example Part Numbering**

SPA0BD/NP/M20

<b>SP</b>	Stopping (Blanking) Plug
<b>A</b>	Type A External Fixing (A) - Type B Internal Fixing (B)
<b>0</b>	No IP O-ring
<b>B</b>	Brass (B) - Stainless Steel (S) - Aluminium (A)
<b>D</b>	Ex d & Ex e certification including Marine Approvals
<b>NP</b>	Nickel Plated
<b>M20</b>	Male Thread

<b>Certificate No.</b>	ATEX SIRA 09ATEX1320X
IECEX	IECEX SIR 09.0131X
CEC - Canada	CSA 2310046
NEC - USA	CSA 2310046
EAC	RU C-GB,ГБ06.В.00098
INMETRO - Brazil	NCC 13.2189 X
SAC - China	NEPSI GYJ16.1406X
UKRAINE	UA.TR.047.C.0408-13 & 2937
CCoE - India	PESO P365300/7
ABS	14-LD1183401-PDA
LLOYD'S	10/00056(E1)
RMRS	14.02755.315

**IP Rating:** IP66 & NEMA 4X

**Impact Resistance:** 20Nm (Aluminium 7Nm)

**Operating Temperature:**  
O-ring - None -100°C to +400°C  
O-ring - Nitrile -30°C to +100°C  
O-ring - Silicone -60°C to +200°C

**Materials:** Brass, Stainless Steel or Aluminium

**Plating:** Electroless Nickel

SPA & SPB Information Table							
ISO METRIC Thread	Hex Socket A/F	Overall Length	Weight	NPT Thread	Hex Socket A/F	Overall Length	Weight
M12	6.0	17.0	0.011	1/4"	6.0	11.2	0.009
M16	8.0	17.0	0.025	3/8"	8.0	11.3	0.030
M20	10.0	17.0	0.035	1/2"	10.0	14.5	0.030
M25	12.0	17.0	0.060	3/4"	12.0	14.8	0.050
M32	12.0	17.0	0.105	1"	12.0	18.5	0.110
M40	14.0	17.0	0.170	1-1/4"	14.0	19.1	0.180
M50	17.0	17.0	0.265	1-1/2"	17.0	19.5	0.250
M63	17.0	17.0	0.450	2"	17.0	20.5	0.430
M75	19.0	17.0	0.600	2-1/2"	19.0	30.5	0.930
M80	22.0	22.0	0.750	3"	22.0	32.1	1.490
M85	22.0	22.0	0.880	3-1/2"	22.0	33.4	2.060
M90	22.0	22.0	0.940	4"	22.0	34.7	2.760
M100	22.0	22.0	1.030				

All dimensions in mm / weight in kgs

**Male threads are manufactured in accordance with:-**

- ISO Metric threads to ISO 965-1, ISO 965-3, BS3643 and IEC 60423
- NPT and NPS threads are in accordance to ANSI B1.20.1
- PG threads to DIN40430
- ET threads to Imperial Conduit BS31
- ISO Pipe Parallel to ISO 228 and BS2779 (BSPP, G, R, PF & Tpy 6)
- ISO Pipe Taper to ISO 7-1 and BS21 (BSPT, Gc, Gk, Rk, PT & Kmpy 6)

- Notes:**
- Assembly instructions must be read prior to installation and adhered to in full.
  - For Ex d applications female threads must comply with clause 5.3 of IEC 60079-1.
  - ATEX / IECEX versions are supplied as standard.
  - Additional approvals must be requested at time of order.
  - Aluminium versions are not suitable for Group I Mining applications.

**Product Type ACDP - (Metallic Breather Drain)**

Ex e : Ex ta  
IP66 : AEx e : AEx ta

Part No's:

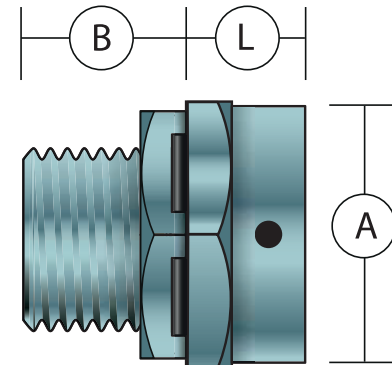
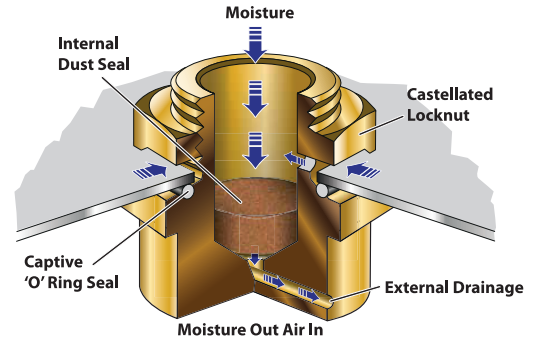
ACDP	0	B	E
	1	S	
	3	A	



"ACDP" Series Breather Drains allow the inside of the equipment to breathe with the outside atmosphere and provide a method of effectively draining any moisture from within the equipment. ACDP series Breather Drains maintain Ex e method of protection and IP66 for IEC type applications. A Castellated Locknut and O-ring is supplied with every Breather Drain.

**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 60079-15, IEC 60079-31 & 60529  
C22.2 (see certificate), UL514B, UL1203, ANSI/UL 60079-0/1/7, ISA 60079-31, UL 50E

**Certification:** ATEX I M2 II 2GD Ex eb I Mb / Ex eb IIC Gb / Ex ta IIC Da  
IECEX Ex eb I Mb / Ex eb IIC Gb / Ex ta IIC Da  
CEC - Canada Class I Zone 1 Ex e IIC / Class II Zone 21 Ex tb IIIC  
NEC - USA Class I Zone 1 AEx e IIC Gb / Class II Zone 21 AEx tb IIIC Db  
EAC Exe IU / Exe IIU  
INMETRO - Brazil Exeb I Mb / Ex eb IIC Gb / Ex ta IIC Da  
SAC - China Ex e IIC  
UKRAINE Exe IU / Exe IIU  
CCoE - India Ex e IIC Gc  
ABS Specified ABS Rules  
LLOYD'S Enclosure Systems (Part 1B)  
RMRS Part XI of Rules for sea-going ships (ed.2014)



**Certificate No.**

ATEX	SIRA09 ATEX3321X
IECEX	IECEX SIR 09.0132X
CEC - Canada	CSA 2310046
NEC - USA	CSA 2310046
EAC	RU C-GB.Г506.В.00098
INMETRO - Brazil	NCC 13.2189 X
SAC - China	NEPSI GYJ16.1407X
UKRAINE	UA.TR.047.C.0408-13 & 2937
CCoE - India	PESO P365300/8
ABS	14-LD1183401-PDA
LLOYD'S	10/00056(E1)
RMRS	14.02755.315

**IP Rating:** IP66 & NEMA 4X

**Impact Resistance:** 20Nm (Aluminium 7Nm)

**Operating Temperature:**  
O-ring - None -100°C to +400°C  
O-ring - Nitrile -30°C to +100°C  
O-ring - Silicone -60°C to +200°C

**Materials:** Brass, Stainless Steel or Aluminium

**Plating:** Electroless Nickel

**Flow Rate:** 0.25 Litres per Hour

- Notes:**
- \* Assembly instructions must be read prior to installation and adhered to in full.
  - \* The ACDP flow rate was obtained from testing in an empty enclosure filled with water. The enclosure had no heat or pressure producing equipment inside. Flow rates in the field may vary depending on operational parameters and surrounding environmental conditions.
  - \* To maintain the specified IP rating, clearance holes must be in accordance with EN 62444 and the entry device should be suitably secured.
  - \* IECEX / ATEX versions are supplied as standard. If additional approvals are required they must be requested at time of order.
  - \* The standard O-ring material is nitrile. Other options are available upon request.
  - \* All Breather Drains are supplied with Castellated locknut as standard.
  - \* Aluminium versions are not suitable for Group I Mining application.

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

ACDP1BE/NP/M20/10

<b>ACDP</b>	Breather Drain c/w Castellated Locknut
<b>1</b>	No IP O-ring (0) - Nitrile (1) - Silicone (3)
<b>B</b>	Brass (B) - Stainless Steel (S) - Aluminium (A)
<b>E</b>	Ex e certification including Marine Approvals
<b>NP</b>	Nickel Plated
<b>M20</b>	Male Entry Thread
<b>10</b>	Entry Thread Length 10mm or 15mm

Dimension Data					
Thread Size	A/F	A/C [A]	Length [B]	Length [L]	Weight
M12 x 1.5	19.0	20.9	10 or 15	12.0	0.032
M16 x 1.5	24.0	26.4	10 or 15	12.0	0.052
M20 x 1.5	27.0	29.7	10 or 15	12.0	0.065
M25 x 1.5	31.8	34.9	10 or 15	12.0	0.097
M32 x 1.5	37.6	41.3	10 or 15	12.0	0.107
1/2"NPT	28.6	31.4	15	12.0	0.075
3/4"NPT	33.0	36.3	15	12.0	0.107

All dimensions in mm / weight in kgs (for 10mm metric versions)



**Product Type ARMR & ARFR - (Metallic 90 Degree / Right Angle Adaptors)**

Ex d : Ex e : Ex nR : Ex ta : IP66 : IP68  
Class I Div 1 : AEx d : AEx e : AEx tb

Part No's:

AR	MR	1	B	F
	FR	3	S	
			A	



"ARMR" & "ARFR" Series Dual Certified Right Angled Adaptors are designed to protect cables when installed in confined spaces where the cable may otherwise be subject to excessive bending and / or stress. The series is available with Male/Female or Female/Female connection threads. They are approved for Ex d, Ex e, Ex ta and Ex nR methods of explosion protection whilst maintaining IP66, IP68 for IEC type applications and Class I Division 1, and NEMA 4X for NEC/CEC type applications. All external parallel threads are fitted with a nitrile O-ring as standard.

**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 60079-15, IEC 60079-31 & 60529  
C22.2 (see certificate), UL514B, UL1203, ANSI/UL 60079-0/1/7, ISA 60079-31, UL 50E

**Certification:** ATEX I M2 II 2GD Exd I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc  
IECEX Ex d I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc  
CEC - Canada Class I Zone 1 Ex d IIC / Ex e IIC / Class II Zone 21 Ex tb IIIC Class I Division 1, 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 d IIC Gb / AEx e IIC Gb / Class II Zone 21 AEx tb IIIC Db Class I Division 1, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X  
EAC Exd IU / Exd IICU / Exe IU / Exe IIU / ExnR IIU  
INMETRO - Brazil Ex d I Mb / Ex d IIC Gb / Exe I Mb / Ex e IIC Gb / Ex ta IIIC Da / Ex nR IIC Gc  
SAC - China Ex d IIC / Ex e IIC  
UKRAINE Exd IU / Exd IICU / Exe IU / Exe IIU  
CCoE - India Ex d IIC Gb / Ex e IIC Gc  
ABS Specified ABS Rules  
LLOYD'S Enclosure Systems (Part 1B)  
RMRS Part XI of Rules for sea-going ships (ed.2014)

**Certificate No.** ATEX SIRA 10ATEX1132U & SIRA 10ATEX4133U  
IECEX IECEX SIR 10.0068U  
CEC - Canada CSA 2310046  
NEC - USA CSA 2310046  
EAC RU C-GB.ГБ06.В.00098  
INMETRO - Brazil NCC 13.2190 U  
SAC - China NEPSI GYJ16.1405X  
UKRAINE UA.TR.047.C.0408-13 & 2937  
CCoE - India PESO P365300/11  
ABS 14-LD1183401-PDA  
LLOYD'S 10/00056(E1)  
RMRS 14.02755.315

**IP Rating:** IP66 & IP68 (100 metres for 7 days) & NEMA 4X

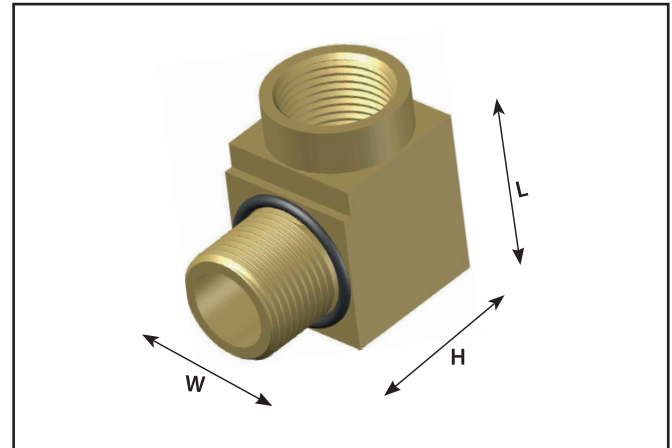
**Impact Resistance:** 20Nm (Aluminium 7Nm)

**Operating Temperature:** O-ring - None -100°C to +400°C  
O-ring - Nitrile -30°C to +100°C  
O-ring - Silicone -60°C to +200°C

**Materials:** Brass, Stainless Steel or Aluminium

**Plating:** Electroless Nickel

- Notes:**
- \* Differing threads and thread forms are available upon request.
  - \* 90 Degree Adaptors are approved and available up to size M100.
  - \* Aluminium versions are not suitable for Group I Mining application.
  - \* When used in an Ex nR application ARMR & ARFR adaptors must be fitted with an appropriate seal.



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

ARMR1BF/NP/M20/M20

<b>ARMR</b>	90 Degree Adaptor Male/Female (Right Angled)
<b>OR</b>	
<b>ARFR</b>	90 Degree Adaptor Female/Female (Right Angled)
<b>1</b>	No IP O-ring (0) - Nitrile (1) - Silicone (3) (Only available on ARMR)
<b>B</b>	Brass (B) - Stainless Steel (S) - Aluminium (A)
<b>F</b>	Ex d & Ex e certification including Marine Approvals
<b>NP</b>	Nickel Plated
<b>M20</b>	Male Entry Thread
<b>M20</b>	Female Entry Thread

Size	Bore	Height	Length	Width
M16 x M16	10.0	38.1	27.0	25.4
M20 x M20	14.0	38.1	27.0	25.4
M25 x M25	18.0	44.5	37.0	31.8
M32 x M32	24.0	50.8	45.0	38.1
M40 x M40	32.0	63.5	52.0	50.8
M50 x M50	41.0	72.0	67.0	60.0
M63 x M63	53.0	90.0	83.0	75.0
M75 x M75	64.0	102.0	94.0	88.0

All dimensions in mm

**Also available in 30 degree and 45 degree configurations**

## Cable Gland Accessories

A complete range of locknuts, earthtags, IP washers, serrated washers and shrouds.

LOCKNUTS	ISO Thread Dia	Nominal Thickness	Nominal A/F	Nominal A/C	Weight (Kgs/100)	NPT Thread Dia	Nominal Thickness	Nominal A/F	Nominal A/C
Locknuts are recommended for securing external entry threads into equipment. They are available in various materials such as brass, plated brass, stainless steel, aluminium and nylon.	M16 x 1.5	4.0	22.0	24.2	0.772	1/2"	3.2	27.0	29.7
	M20 x 1.5	4.0	24.0	26.4	0.683	3/4"	4.0	30.5	33.5
	M25 x 1.5	4.0	30.0	33.0	1.027	1"	6.4	36.0	39.5
	M32 x 1.5	4.0	40.0	44.0	2.020	1-1/4"	6.4	46.0	50.5
	M40 x 1.5	4.8	46.0	50.5	2.200	1-1/2"	6.4	55.0	60.6
	M50 x 1.5	5.0	65.0	71.5	6.997	2"	6.4	65.0	70.8
	M63 x 1.5	6.4	80.0	88.0	12.40	2-1/2"	9.0	90.0	99.0
	M75 x 1.5	7.0	90.0	99.0	14.871	3"	9.0	104.8	115.3
	M80 x 2	9.0	90.0	99.0	15.140	3-1/2"	10.0	114.3	125.7
	M85 x 2	9.0	104.8	115.3	27.518	4"	10.0	140.0	152.0
	M90 x 2	9.0	104.8	115.3	23.256	Sizes M110 to M130, PG7 to PG48 and BSPP / BSPT are available upon request			
	M100 x 2	9.0	114.3	125.7	25.256	All dimensions in mm - Weights are based on metric versions			

Order Code Example

Brass ACBLN/M20  
Brass Nickel Plated ACBLN/NP/M20  
Stainless Steel ACSLN/M20  
Aluminium ACALN/M20  
Nylon ACNLN/M20



Note: Dimensions shown are only applicable to metallic locknuts and are subject to change without notice.

EARTH TAGS	ISO Thread Dia	Nominal Thickness	Nominal Centres	Bolt Hole Dia	Weight (Kgs/100)	NPT Thread Dia	Nominal Thickness	Nominal Centres	Bolt Hole Dia
Earth tags are recommended for providing an earth bond connection for an entry component into the equipment. Earth tags are available in brass, plated brass, stainless steel and aluminium.	M16	1.5	31.8	6.9	0.746	1/2"	1.5	33.0	6.9
	M20	1.5	33.0	6.9	0.672	3/4"	1.5	36.5	6.9
	M25	1.5	36.5	6.9	0.797	1"	1.5	42.5	11.8
	M32	1.5	42.5	11.8	1.476	1-1/4"	1.5	45.4	13.5
	M40	1.5	45.4	13.5	2.089	1-1/2"	1.5	58.1	13.5
	M50	1.5	58.1	13.5	3.729	2"	1.5	66.8	13.5
	M63	1.5	66.8	13.5	4.898	2-1/2"	1.5	73.0	13.5
	M75	1.5	73.0	13.5	5.220	3"	1.5	90.0	13.5
	M80	1.5	73.0	13.5	4.647	3-1/2"	1.5	112.0	13.5
	M85	2.0	90.0	13.5	7.600	4"	1.5	120.0	13.5
	M90	2.0	90.0	13.5	8.800	Sizes M110 to M130, PG7 to PG48 and BSPP / BSPT are available upon request			
	M100	2.0	112.0	13.5	13.800	All dimensions in mm - Weights are based on metric versions			

Order Code Example

Brass ACBET/M20  
Brass Nickel Plated ACBET/NP/M20  
Stainless Steel ACSET/M20  
Aluminium ACAET/M20



Peppers Earth tags are compliant with the Category B requirements of EN 50262: 1999

IP WASHERS	ISO Thread Dia	Thickness Nylon	Thickness Fibre	Outside Diameter	Weight (Kgs/100)	NPT Thread Dia	Thickness Nylon	Thickness Fibre	Outside Diameter
In order to maintain the integrity of an enclosure greater than IP54, washers are recommended to be installed at the gland entry interface.	M16	2.00	1.50	25.0	0.116	1/2"	2.0	1.50	30.0
	M20	2.00	1.50	29.4	0.164	3/4"	2.0	1.50	38.0
	M25	2.00	1.50	38.1	0.257	1"	2.0	1.50	46.3
	M32	2.00	1.50	42.5	0.341	1-1/4"	2.0	1.50	55.5
	M40	2.00	1.50	52.0	0.386	1-1/2"	2.0	1.50	60.0
	M50	2.00	1.50	65.0	0.594	2"	2.0	1.50	79.4
	M63	2.00	1.50	79.4	0.794	2-1/2"	2.0	1.50	90.5
	M75	2.00	1.50	90.5	0.868	3"	2.0	1.50	114.3
	M80	2.00	1.50	104.8	0.839	3-1/2"	2.0	1.50	114.3
	M85	2.00	1.50	104.8	0.698	4"	2.0	1.50	146.0
	M90	2.00	1.50	114.3	0.913	Sizes M110 to M130, PG7 to PG48 and BSPP / BSPT are available upon request			
	M100	2.00	1.50	114.3	0.512	All dimensions in mm - Weights are based on metric versions			

Order Code Example      Temperature

Fibre ACFSW/M20      -40°C to +95°C  
Nylon ACNSW/M20      -40°C to +135°C  
PTFE ACPSW/M20      -200°C to +260°C

Colour

Fibre      Metric = Red      NPT = Red  
Nylon      Metric = Red      NPT = White  
PTFE      Metric = White      NPT = White



SERRATED WASHERS	ISO Thread Dia	Nominal Thickness	Outside Diameter	Weight (Kgs/100)	NPT Thread Dia	Nominal Thickness	Nominal O/D
Serrated or "shake proof" washers act as an anti-vibration device to prevent the cable gland or other cable entry device and locknut arrangement from loosening. It can also be used as an earth enhancing device on painted enclosures. They are only available in Stainless Steel.	M16	1.2	25.5	0.262	1/2"	1.5	35.5
	M20	1.4	32.5	0.560	3/4"	1.5	43.5
	M25	1.5	37.5	0.675	1"	1.5	52.0
	M32	1.5	48.0	1.042	1-1/4"	1.5	59.5
	M40	1.5	60.0	1.730	1-1/2"	1.5	71.0
	M50	1.5	71.0	2.154	2"	1.5	87.0
	M63	1.5	87.0	3.259	2-1/2"	1.5	102.0
	M75	1.5	102.0	4.189	3"	1.5	125.0
	M80	1.5	120.0	6.880	3-1/2"	1.5	140.0
	M85	1.5	120.0	6.550	4"	1.5	155.0
	M90	1.5	125.0	6.233	Sizes M110 to M130 are available upon request		
M100	1.5	140.0	7.985	All dimensions in mm - Weights are based on metric versions			

Order Code Example

Stainless Steel ACSSW/M20



O-RINGS	Peppers Item Reference	Seal Material	Code	Temperature
Please note: IP flat washers and O-rings cannot be used in conjunction with one another.	ORN	Nitrile	1	-30°C to +100°C
O-rings fitted on Glands as standard can be removed and replaced by a flat washer if required.	ORS	Silicone	3	-60°C to +200°C
O-rings procured from other sources and fitted to Peppers glands will invalidate the IP certification.				



SHROUDS	Order Code Example	Temperature
Peppers manufacture a range of shrouds in various materials to complement our complete range of glands. Materials available are Polyvinylchloride (PVC), Polychloroprene (PCP) & Low Smoke Halogen Free Silicone (LSOH).		
Please note that the shrouds are manufactured to fit our glands and will not necessarily fit other manufacturer's products.		
The shroud sizes are detailed on each of the product pages.		
	PVC ACSPVC/L24	-25°C to +70°C
	PCP ACSPCP/L24	-30°C to +100°C
	LSOH ACSSIO/L24	-60°C to +200°C
Please note where glands have a larger than standard entry thread the standard shroud will not fit over the gland hexagon body section		



**Technical Information**
**Thread Reference Tables**

Thread Type	Thread	Peppers Reference	Pitch	TPI	Major Dia	Thread Length	Max Clearance Hole Dia
ISO Metric IEC 60423	M16	M16	1.50	16.93	15.97	16.0	16.7
	M20	M20	1.50	16.93	19.97	16.0	20.7
	M25	M25	1.50	16.93	24.97	16.0	25.7
	M32	M32	1.50	16.93	31.97	16.0	32.7
	M40	M40	1.50	16.93	39.97	16.0	40.7
	M50	M50	1.50	16.93	49.97	16.0	50.7
	M63	M63	1.50	16.93	62.97	19.0	63.7
	M75	M75	1.50	16.93	74.97	19.0	75.7
	M80	M80	2.00	12.70	79.97	25.0	80.7
	M85	M85	2.00	12.70	84.97	25.0	85.7
	M90	M90	2.00	12.70	89.97	25.0	90.7
M100	M100	2.00	12.70	99.97	25.0	100.7	

Thread Type	Thread	Peppers Reference	Pitch	TPI	Major Dia	Thread Length	Max Clearance Hole Dia
NPT ANSI B1.20.1	1/2"	050NPT	1.81	14.0	21.34	19.9	22.04
	3/4"	075NPT	1.81	14.0	26.67	20.1	27.37
	1"	100NPT	2.20	11.5	33.40	25.0	34.10
	1-1/4"	125NPT	2.20	11.5	42.16	25.6	42.86
	1-1/2"	150NPT	2.20	11.5	48.26	26.0	48.96
	2"	200NPT	2.20	11.5	60.33	26.9	61.03
	2-1/2"	250NPT	3.18	8.0	73.03	39.9	73.73
	3"	300NPT	3.18	8.0	88.90	41.5	89.60
	3-1/2"	350NPT	3.18	8.0	101.60	42.8	102.30
4"	400NPT	3.18	8.0	114.30	44.0	115.00	

Thread Type	Thread	Peppers Reference	Pitch	TPI	Major Dia	Thread Length	Max Clearance Hole Dia
NPS ANSI B1.20.1	1/2"	050NPS	1.81	14.0	20.90	19.9	21.60
	3/4"	075NPS	1.81	14.0	26.26	20.2	26.96
	1"	100NPS	2.20	11.5	32.84	25.0	33.54
	1-1/4"	125NPS	2.20	11.5	41.61	25.6	42.31
	1-1/2"	150NPS	2.20	11.5	47.68	26.0	48.37
	2"	200NPS	2.20	11.5	59.72	26.9	60.42
	2-1/2"	250NPS	3.18	8.0	72.16	39.9	72.86
	3"	300NPS	3.18	8.0	88.06	41.5	88.76
	3-1/2"	350NPS	3.18	8.0	100.78	42.8	101.48
	4"	400NPS	3.18	8.0	113.43	44.0	114.13

Thread Type	Thread	Peppers Reference	Pitch	TPI	Major Dia	Thread Length	Max Clearance Hole Dia
PG DIN 40430	PG7	PG7	1.27	20.0	12.50	16.0	13.20
	PG9	PG9	1.41	18.0	15.20	16.0	15.90
	PG11	PG11	1.41	18.0	18.60	16.0	19.30
	PG13.5	PG13.5	1.41	18.0	20.40	16.0	21.10
	PG16	PG16	1.41	18.0	22.50	16.0	23.20
	PG21	PG21	1.59	16.0	28.30	16.0	29.00
	PG29	PG29	1.59	16.0	37.00	16.0	37.70
	PG36	PG36	1.59	16.0	47.00	16.0	47.70
	PG42	PG42	1.59	16.0	54.00	16.0	54.70
	PG48	PG48	1.59	16.0	59.30	16.0	60.00

Thread Type	Thread	Peppers Reference	Pitch	TPI	Major Dia	Thread Length	Max Clearance Hole Dia
ISO Pipe Parallel ISO R/7 BS2779 (BSPP, G, R & PF)	1/2"	050BSP	1.81	14.0	20.96	19.9	21.66
	3/4"	075BSP	1.81	14.0	26.44	20.2	27.14
	1"	100BSP	2.31	11.0	33.25	25.0	33.95
	1-1/4"	125BSP	2.31	11.0	41.91	25.6	42.61
	1-1/2"	150BSP	2.31	11.0	47.80	26.0	48.50
	2"	200BSP	2.31	11.0	59.61	26.9	60.31
	2-1/2"	250BSP	2.31	11.0	75.18	39.9	75.88
	3"	300BSP	2.31	11.0	87.88	41.5	88.58
	3-1/2"	350BSP	2.31	11.0	100.33	42.8	101.03
	4"	400BSP	2.31	11.0	113.03	44.0	113.73

Thread Type	Thread	Peppers Reference	Pitch	TPI	Major Dia	Thread Length	Max Clearance Hole Dia
ISO Pipe Taper ISO R/7 BS21 (BSPT & GK)	1/2"	050BST	1.81	14.0	20.96	19.9	21.66
	3/4"	075BST	1.81	14.0	26.44	20.2	27.14
	1"	100BST	2.31	11.0	33.25	25.0	33.95
	1-1/4"	125BST	2.31	11.0	41.91	25.6	42.61
	1-1/2"	150BST	2.31	11.0	47.80	26.0	48.50
	2"	200BST	2.31	11.0	59.61	26.9	60.31
	2-1/2"	250BST	2.31	11.0	75.18	39.9	75.88
	3"	300BST	2.31	11.0	87.88	41.5	88.58
	3-1/2"	350BST	2.31	11.0	100.33	42.8	101.03
	4"	400BST	2.31	11.0	113.03	44.0	113.73

**Glands are available with Metric or NPT threads as standard. All other thread forms are manufactured to order**

**SPMH & SPHH Dimensional Data**

SPHH Information Table							
ISO METRIC Thread	A/F	Overall Length	Weight	NPT Thread	A/F	Overall Length	Weight
M12	19.0	20.5	0.024	1/4"	20.0	19.1	0.029
M16	23.4	20.5	0.032	3/8"	24.0	19.3	0.045
M20	27.0	21.0	0.049	1/2"	27.9	24.4	0.076
M25	31.8	21.0	0.078	3/4"	33.0	24.7	0.118
M32	37.6	21.0	0.134	1"	41.2	30.0	0.225
M40	47.2	21.5	0.218	1-1/4"	50.0	31.1	0.379
M50	57.2	21.5	0.333	1-1/2"	57.2	31.5	0.499
M63	69.9	22.0	0.544	2"	69.9	32.9	0.814
M75	90.0	22.0	0.777	2-1/2"	82.5	46.4	1.671
M80	90.0	28.0	1.050	3"	106.4	49.5	2.652
M85	104.8	28.0	1.225	3-1/2"	114.3	50.8	3.566
M90	104.8	28.0	1.326	4"	127.0	52.0	4.602
M100	114.3	28.0	1.680				

All dimensions in mm / weight in kgs

SPMH Information Table							
ISO METRIC Thread	Hex Socket A/F	Overall Length	Weight	NPT Thread	Hex Socket A/F	Overall Length	Weight
M12	6.0	21.5	0.020	1/4"	6.0	20.6	0.027
M16	8.0	21.5	0.032	3/8"	8.0	20.8	0.041
M20	10.0	21.5	0.049	1/2"	10.0	25.4	0.062
M25	12.0	21.5	0.078	3/4"	12.0	25.7	0.125
M32	12.0	21.5	0.134	1"	12.0	30.5	0.202
M40	14.0	21.5	0.218	1-1/4"	14.0	31.1	0.337
M50	17.0	21.5	0.333	1-1/2"	17.0	31.5	0.451
M63	17.0	21.5	0.544	2"	17.0	32.4	0.743
M75	19.0	21.5	0.777	2-1/2"	19.0	45.4	1.499
M80	22.0	25.5	1.050	3"	22.0	47.0	2.310
M85	22.0	25.5	1.225	3-1/2"	22.0	48.3	3.133
M90	22.0	25.5	1.326	4"	22.0	49.5	4.086
M100	22.0	25.5	1.680				

All dimensions in mm / weight in kgs  
 Head Diameter = Minimum 5.5mm larger than the major thread diameter

**AR Series Metallic Adaptor & Reducers - Size Reference**

MALE SIZE	METRIC FEMALE SIZES													
	M16	M20	M25	M32	M40	M50	M63	M75	M80	M85	M90	M100	M110	M120
M16	A01	A01												
M20	R02	A02	A03	A05										
M25	R05	R05	A04	A05	A06									
M32	R07	R07	R07	A05	A06	A08								
M40	R09	R09	R09	R09	A07	A08	A11							
M50	R12	R12	R12	R12	R12	A09	A11	A12						
M63	R14	R14	R14	R14	R14	R14	A11	A12	A13	A14				
M75	R16	R16	R16	R16	R16	R16	R16	A12	A13	A14	A14	A15		
M80	R16	R16	R16	R16	R16	R16	R16	A12	A13	A14	A14	A15		
M85	R17	R17	R17	R17	R17	R17	R17	R17	A13	A14	A14	A15		
M90	R17	R17	R17	R17	R17	R17	R17	R17	A14	A14	A15	A16		
M100	R18	R18	R18	R18	R18	R18	R18	R18	R18	R18	A15	A16	A17	
M110	R19	R19	R19	R19	R19	R19	R19	R19	R19	R19	R19	A16	A17	
M120	R20	R20	R20	R20	R20	R20	R20	R20	R20	R20	R20	R20	A17	
NPT														
½"	R01*	A01*	A03	A05										
¾"	R03*	R03*	A03*	A05	A06									
1"	R06*	R06*	R06*	A05*	A06	A08								
1¼"	R08*	R08*	R08*	R08*	A06*	A08	A11							
1½"	R10*	R10*	R10*	R10*	R10*	A08*	A11	A12						
2"	R13	R13	R13	R13	R13	R13	A11	A12	A13	A14				
2½"	R15	R15	R15	R15	R15	R15	R15	A12	A13	A14	A14			
3"	R16*	R16*	R16*	R16*	R16*	R16*	R16*	R16*	A13*	A14	A14	A15	A16	A17
3 ½"	R17*	R17*	R17*	R17*	R17*	R17*	R17*	R17*	R17*	R17*	R17*	A15	A16	A17
4"	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	A16	A17	
5"	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	
PG														
PG9	A01	A01												
PG11	A01	A02	A03											
PG13.5	R02	A02	A03	A05										
PG16	R04	A03	A03	A05										
PG21	R07	R07	A05	A05	A06									
PG29	R08	R08	R08	R08	A06	A08								
PG36	R11	R11	R11	R11	R11	A08	A11							
PG42	R13	R13	R13	R13	R13	A10	A11	A12						
PG48	R14	R14	R14	R14	R14	R14	A11	A12						

NPT FEMALE SIZES										
½"	¾"	1"	1¼"	1½"	2"	2½"	3"	3½"	4"	5"
A18										
A19	A20	A22								
R05	A21	A22	A23							
R07	R07	A22	A23	A24						
R09	R09	R09	A23	A24	A26					
R12	R12	R12	R12	A24	A26	A27				
R14	R14	R14	R14	R14	A26	A27				
R16	R16	R16	R16	R16	R16	A28	A29	A30		
R16	R16	R16	R16	R16	R16	R16	A29	A30		
R17	R17	R17	R17	R17	R17	R17	A29	A30		
R17	R17	R17	R17	R17	R17	R17	A29	A30	A31	
R18	R18	R18	R18	R18	R18	R18	R18	A30	A31	
R19	R19	R19	R19	R19	R19	R19	R19	R19	A31	A33
R20	R20	R20	R20	R20	R20	R20	R20	R20	A32	A33
A18*	A20	A22								
R03*	A20*	A22	A23							
R06*	R06*	A22*	A23	A24						
R08*	R08*	R08*	A23*	A24	A26					
R10*	R10*	R10*	R10*	A24*	A26	A27				
R13	R13	R13	R13	R13	A26	A27	A29			
R15	R15	R15	R15	R15	R15	A27	A29	A30		
R16*	R16*	R16*	R16*	R16*	R16*	R16*	A29	A30	A31	
R17*	R17*	R17*	R17*	R17*	R17*	R17*	R17*	A30	A31	
R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	A31	A33
R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	A33
A18										
A19	A20									
A19	A20	A22								
A20	A20	A22								
R07	A22	A22	A23							
R08	R08	A23	A23	A24						
R11	R11	R11	A24	A24	A26					
R13	R13	R13	R13	R13	A26	A27				
R14	R14	R14	R14	R14	A26	A27				

<b>Adaptor</b>
<b>Reducer</b>

ADAPTORS AND REDUCERS WITH NPT MALE THREADS ARE DESIGNED TO BE USED IN THREADED ENTRIES. IF REQUIRED WITH A SEALING WASHER FOR USE IN CLEARANCE HOLES WITH A LOCKNUT THESE ITEMS CAN BE MANUFACTURED FROM A LARGER HEXAGON SIZE TO PROVIDE A SUITABLE SEALING FACE.

**AR Series Metallic Adaptor & Reducers - Size Reference & Dimensions**

MALE SIZE	PG FEMALE SIZES									
	PG7	PG9	PG11	PG13.5	PG16	PG21	PG29	PG36	PG42	PG48
Metric										
M16	R01	A01	A01	A01						
M20	R02	R02	A02	A02	A02	A04				
M25	R05	R05	R05	R05	A04	A04	A06			
M32	R07	R07	R07	R07	R07	A05	A06	A08		
M40	R09	R09	R09	R09	R09	R09	A07	A08	A10	
M50	R12	R12	R12	R12	R12	R12	R12	A09	A10	A11
M63	R14	R14	R14	R14	R14	R14	R14	R14	R14	A11
M75	R16	R16	R16	R16	R16	R16	R16	R16	R16	R16
M80	R16	R16	R16	R16	R16	R16	R16	R16	R16	R16
M85	R17	R17	R17	R17	R17	R17	R17	R17	R17	R17
M90	R17	R17	R17	R17	R17	R17	R17	R17	R17	R17
M100	R18	R18	R18	R18	R18	R18	R18	R18	R18	R18
M110	R19	R19	R19	R19	R19	R19	R19	R19	R19	R19
M120	R20	R20	R20	R20	R20	R20	R20	R20	R20	R20
NPT										
½"	R01*	R01*	A01*	A01*	A02	A04				
¾"	R03*	R03*	R03*	R03*	A03*	A04	A06			
1"	R06*	R06*	R06*	R06*	R06*	A05*	A06	A08		
1¼"	R08*	R08*	R08*	R08*	R08*	R08*	A06*	A08	A10	
1½"	R10*	R10*	R10*	R10*	R10*	R10*	R10*	A08*	A10	A11
2"	R13	R13	R13	R13	R13	R13	R13	R13	R13	A11
2½"	R15	R15	R15	R15	R15	R15	R15	R15	R15	R15
3"	R16*	R16*	R16*	R16*	R16*	R16*	R16*	R16*	R16*	R16*
3 ½"	R17*	R17*	R17*	R17*	R17*	R17*	R17*	R17*	R17*	R17*
4"	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*	R19*
5"	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*	R21*
PG										
PG9	A01	A01	A01	A01						
PG11	A01	A01	A01	A01	A02	A04				
PG13.5	R02	R02	A02	A02	A02	A04				
PG16	R04	R04	R04	A03	A03	A04				
PG21	R07	R07	R07	R07	R07	A05	A06			
PG29	R08	R08	R08	R08	R08	R08	A07	A08		
PG36	R11	R11	R11	R11	R11	R11	R11	A08	A10	A11
PG42	R13	R13	R13	R13	R13	R13	R13	R13	A10	A11
PG48	R14	R14	R14	R14	R14	R14	R14	R14	R14	A11

**ADAPTORS**

Metric x Metric / Metric x PG / PG x Metric / PG x PG																	
AR Adaptor Details	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17
A/F Dim (Min)	23.4	27.0	30.0	31.8	37.6	44.5	47.2	55.9	57.2	61.2	69.9	90.2	104.8	104.8	114.3	120.7	140.0
A/C Dim (Min)	25.7	29.7	33.0	35.0	41.4	48.9	51.9	61.5	62.9	67.3	76.8	99.2	99.2	115.3	125.7	132.8	154.0
Nominal Protrusion Length *	22.5	22.5	22.5	22.5	22.5	22.5	22.5	23.5	23.5	23.5	23.5	23.5	29.0	29.0	29.0	29.0	29.0

**Metric x NPT / NPT x NPT / PG x NPT**

AR Adaptor Details	A18	A19	A20	A21	A22	A23	A24	A25	A26	A27	A28	A29	A30	A31	A32	A33
A/F Dim (Min)	23.4	27.0	30.0	31.8	37.6	47.2	55.9	57.2	69.9	80.0	90.2	104.8	114.3	127.0	133.0	160.0
A/C Dim (Min)	25.7	29.7	33.0	35.0	41.4	51.9	61.5	62.9	76.9	88.0	99.2	115.3	125.7	139.7	146.3	176.0
Nominal Protrusion Length **	26.0	26.0	26.0	26.0	31.0	31.0	32.0	32.0	32.0	44.4	44.4	46.0	47.3	48.5	48.5	53.7

**REDUCERS**
**Metric / NPT / PG**

AR Reducer Details	R01	R02	R03	R04	R05	R06	R07	R08	R09	R10	R11	R12	R13	R14	R15	R16	R17	R18	R19	R20	R21
A/F Dim (Min)	23.4	27.0	27.9	30.0	31.8	34.9	37.6	44.5	47.2	52.1	55.9	57.2	61.2	69.9	80.0	90.2	104.8	114.3	120.7	133.4	146.0
A/C Dim (Min)	25.7	29.7	30.7	33.0	35.0	38.4	41.4	48.9	51.9	57.3	61.5	62.9	67.3	76.8	88.0	99.2	115.3	125.7	132.8	146.7	160.7
Nominal Protrusion Length **	12.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	12.0	12.0

\* Stated nominal protrusion lengths do not take into account if any form of IP seal (o-ring / washer) is used in conjunction with the entry thread

\*\* Due to the nature of tapered threads the nominal protrusion length may be further away from the enclosure wall than the stated figure

## Technical Information

### Ingress Protection

It is essential when selecting cable glands and / or accessories to ensure that the products will maintain the IP rating of the equipment and the integrity of the installation. All Peppers' products have been tested in accordance with the requirements of IEC 60529 and as such the pressure applied during the IPX8 testing is a static pressure.

Please note that clearance holes must be drilled in accordance with EN 50262 table 1 and any gland without an integral O-ring must have a suitable IP washer fitted in order to maintain greater than IP54. If in doubt about the installation please contact Peppers for installation guidance.

### Integral Earth Glands



Cable Glands with an integral earth connection are recommended for use with high voltage systems. The earth connection on these glands has been successfully tested in accordance with the 43kA short-circuit test specified in BS 6121, Part 5, 1992.

Ex Standards do not cover the requirements of cable glands for HV cable. BS6121 Part 5 Section 4.6.2 for non integral earth connections suggests that if the short circuit for 1 second is more than 10.4 kA we then revert to section 4.6.3 "Integral Earth Connection" where the short circuit rating for 1 second is between 26 & 43kA.

### Bi-Metallic Corrosion

Bi-metallic Corrosion (or Galvanic Corrosion) is the process by which metals, when in contact with each other, oxidize or corrode. In order for Bi-metallic Corrosion to occur there are three conditions that must exist or the process of corrosion will not begin:-

- There must be two electrochemically dissimilar metals present but not necessarily in direct contact with each other.
- There must be an electrically conductive path between the two metals.
- There must be an electrolyte to allow the metal ions to conduct along the provided path from the more anodic metal to the more cathodic metal.

If any one of these three conditions does not exist, bi-metallic corrosion will not occur.

### Temperature Classification

The equipment must be selected so that its maximum surface temperature will not reach the ignition temperature of any gas or vapour that may be present.

Generally, T-class is based on fault conditions or, at the very least, worst case normal operating conditions. When selecting equipment, the T-class must be below the auto-ignition temperature of the gas.

As glands do not generate heat they are classified as passive and not subject to a T rating.

### Thread Standard/Gauging

ISO M IEC 60423, 6g fit - M16 to M75 1.5mm pitch, M80 to M130 2.0mm pitch

NPT ANSI/ASME B1.20.1, 1983, Gauging to Clause 8

NPSM ANSI/ASME B1.20.1, 1983, Gauging to Clause 9

BSPT BS21, 1985 (ISO 7/1), Standard Threads Only (Clause 5.4), Gauging to Clause 5a, System A

BSPP BS EN ISO 228-1:2003, Class A Full Form External Threads

PG DIN 40430, 1971

### Installation

Installation of cable glands intended for use in an explosive atmosphere should only be carried out by competent personnel, skilled in the installation of cable glands and in accordance with the appropriate national or international standards and/or codes of practice. Cable Glands should not be installed whilst circuits are live and should only be installed in accordance with the provided assembly instructions. Cable Gland components are not interchangeable with other manufacturers and any modification to the cable gland will invalidate the certification.

### Material Specifications

Peppers use a standard range of materials and finishes that are in accordance with the following specification:-

Brass to EN12164, EN12165 & EN12168 Grade CW614N

Stainless Steel to EN 10088-3 Grade 316L

Aluminium to BS EN 573-3 Grade AW6082 T6 & AW6262

Electroless Nickel Plating in accordance with BS EN ISO 4527

### EMC

Terminations suitable for EMC protection can be made using armoured cables with our armour clamping glands. Following tests, Peppers has been informed by ERA Technology Ltd that our glands do not significantly reduce the ability of an enclosure to which they are attached to withstand electromagnetic interference. We conclude that the effectiveness of a cable entry in EMC terms will generally be limited by the cable, including the cable armour or screen. Braid screens are not necessarily the most effective means of EMC protection. Tape armours can give the best results. Since a Peppers cable gland makes a 360° clamp on cable armour, it will not inhibit the EMC protection of the cable entry.

The cable gland standard BS EN 50262 states that cable glands are EMC neutral. This is taken to mean that cable glands are neither affected by electro-magnetic radiation nor will cause any electro-magnetic interference in other equipment.

### Peppers T-1000 Compound

PEPPERS T-1000 COMPOUND is a hand-mixable, UL-approved, epoxy putty sealing compound that mixes easily in minutes and cures in one hour to provide water, dust and vapour-tight seals for cable fittings and electrical connectors. PEPPERS T-1000 COMPOUND is in a handy concentric putty stick form with the curing agent encapsulated in the contrasting colour base material. Its dough-like consistency eliminates drips and runs for a "no mess" application with no tools required for use. PEPPERS T-1000 COMPOUND cures to a hard rigid material that is resistant to hydrocarbons, ketones, esters and alcohols with excellent adhesion to most substrates including metals and ceramics.

PEPPERS T-1000 COMPOUND complies with the Underwriters Laboratory requirements for sealing compounds, Class I, Groups A, B, C and D; Class II, Groups E, F and G, in cable sealing fittings or lead seals for use in hazardous locations, UL File E334661. The product complies with Class I requirements following exposure to acetone, ammonium hydroxide, ethyl acetate, acetic acid, ASTM Reference Fuel C, benzene, hexane, furfural, 2-nitropropane, methanol, methylethyl ketone, ethylenedichloride and diethylether. For additional health and safety information please consult the available Material Safety Data Sheet.

#### **HEALTH & SAFETY**

When used and installed as recommended within the assembly instructions provided, Peppers Cable Glands products will not cause any danger or hazard to the health or safety of persons, animals or property. The products should be installed by suitably trained / skilled personnel and in full accordance with the relevant legislative regulations (including the UK's wiring regulations) and the accepted rules for the industry concerned.

#### **WARNING**

Peppers' cable glands should not be used within any application other than those specified for each product, unless Peppers Cable Glands issue a statement in writing that the product is suitable for the specified application. For further information on each product, we refer you to the specific assembly instructions and General Arrangement drawings, which are available on request. Using the links on our web site, catalogue pages and instructions may be downloaded. Peppers Cable Glands Limited take no responsibility for any damage, injury or other consequential loss caused where the glands are not installed or used according to our instructions.

#### **HAZARDOUS AREA INSTALLATION**

When selecting equipment for use in hazardous areas the appropriate national or international standards or codes of practice must be considered.

#### **GENERAL SUITABILITY FOR THE INSTALLATION ENVIRONMENT**

Peppers' cable glands are designed for normal industrial environments with regard to temperature, humidity and vibration. Construction materials include steel, brass, aluminium alloys, neoprene, nitrile and silicone rubbers. To minimise galvanic corrosion, the metallic gland components are made from similar materials. Material compatibility under chemical corrosion or attack by aggressive substances must be considered before installation.

#### **SPARE PARTS**

The nature of the product is such that spare parts are not applicable. If part of a gland needs to be replaced for any reason, the user should refer back to the manufacturer and seek advice. No special tools are required for the commissioning and servicing of our products.

#### **DIMENSIONAL DATA**

The dimensions shown within this catalogue may vary due to material availability.

#### **CE CONFORMITY**

Copies of Peppers CE declarations regarding LVD, EMC and ATEX directives are available upon request. BS EN 50262 classification with regard to mechanical and electrical properties of cable glands is available upon request.

#### **RoHS / WEEE DIRECTIVES**

Peppers Cable Glands can confirm that its full product range either complies or is outside the scope of these directives. Further documentation is available upon request.

#### **DISCLAIMER**

Whilst every care has been taken in the compilation of this catalogue, and every attempt made to present up-to-date and accurate information, we cannot guarantee that inaccuracies will not occur. Peppers Cable Glands Ltd will not be held responsible for any loss, damage or inconvenience caused as a result of any inaccuracy or errors. If you discover any information in our pages which you believe to be inaccurate or inappropriate, please notify us by e-mailing [sales@peppers.co.uk](mailto:sales@peppers.co.uk).

#### **TERMS & CONDITIONS**

Full terms and conditions of sale are available upon request.



**peppers**<sup>™</sup>

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