For over 65 years, Peppers Cable Glands has been involved in the manufacture and sale of Cable Glands, giving the company a wealth of experience and expertise within the industry.

Operating from its UK base in Surrey, Peppers Cable Glands runs a satellite manufacturing system using group companies situated in the North of England. This provides an assured supply chain and when paired with their global distribution network, results in on-time deliveries. We believe quick deliveries are only part of the service. “It’s all about the complete experience.” We aim to give our customers excellent service not just in terms of our quick deliveries but from when the initial contact is made throughout the quotation, ordering and expediting process.

Peppers’ customers can be sure that they are getting accurate advice, and if we are unable to meet your requirements, we will inform you. We don’t bend the truth to secure orders. Peppers simply does not promise what it cannot deliver.

Peppers operates a quality management system, approved to ISO 9001:2008 and an Environmental System approved to ISO 14001:2004. All new employees are trained to recognise what it takes to meet these standards and staff assessments are undertaken regularly to ensure that the highest levels of customer service are maintained at all times.

Peppers has an extensive range of international approvals incorporating ATEX, IECEx, UL, CSA, GOST, INMETRO & NEPSI as well as marine type approvals by ABS (American Bureau of Shipping), RMRS (Russian Maritime) & Lloyd’s Register. Our range of approved products are designed and tested for use in Ex d, Ex e, Ex nR and Ex t hazardous area protection concepts.

Peppers’ range of glands incorporate some unique engineering features. The CR gland for armoured cable features a single orientation clamping system, “CROCLK™” allowing the clamping of all armour types with no mistakes being possible during installation. The advertising slogan “No reversible Components – No Mistakes” sums up this benefit. Due to ingenious design features Deluge is achieved without the use of additional sealing devices.

Peppers’ barrier glands incorporate unique features that reduce installation times by using the Peppers T-1000 compound, which enables the conductors to be terminated within the equipment after one hour. At four hours, the compound chamber may be inspected and the equipment can be energized. Our innovative barrier chamber provides a cable acceptance that is on average 17% larger than other barrier gland designs allowing the use of smaller glands thereby significantly reducing cost.

Glands can be supplied in various materials including brass, aluminium, stainless steel and polyamide. We offer plating options for corrosion protection, including nickel, tin and zinc. Peppers also supply accessories, which include a comprehensive range of certified thread adaptors, reducers, stopping plugs and breather drains.

Peppers Engineering Team are constantly striving to improve the quality of our range whilst continually working to design and develop new and innovative products.

---

**Peppers ... “a refreshing attitude to manufacturing”**
### Cable Gland Overview Guide

#### Elastomeric Seal Cable Glands

<table>
<thead>
<tr>
<th>Gland Type</th>
<th>Outer Seal</th>
<th>Inner Seal</th>
<th>Lead Option</th>
<th>Armour Clamp</th>
<th>Certification</th>
<th>Protection Concepts / Methods</th>
<th>IP Rating</th>
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#### Industrial Cable Glands

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<th>Armour Clamp</th>
<th>For Use In</th>
<th>Compliance</th>
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### Accessories

- **Cable Gland Accessories:** Locknuts - Earthtags - IP Washers - Serrated Washers - Shrouds
- **Enclosure Accessories:** Stopping (Blanking) Plugs - Adaptors and Reducers - Breather Drains

### Technical Information

- **Entry Thread Reference Tables - Adaptor / Reducer Size Options:** TR-1
- **IP Information - Temperature Classifications - Integral Earth Options - Is a Barrier Gland Required?:** TR-3

---

**www.cableglands.com**
**Cable Type CR (featuring “CROCLOCK®”)**

Including type Nos:

- **Standard:** Nickel - Zinc Plating:

  - ATEX BAS 01ATEX2271X & SIRA 09ATEX1221X
  - Operating Temperature:
    - IP66 & IP68 (25 metres - 30 minutes), NEMA 4X & DTS 01 1991
  - IP Rating:

  - **Materials:** entry threads. Options are available for use with lead sheath, LSOH cables and extreme temperature applications.

  - 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...
**Cable Gland Type E - (Double Compression for Armoured Cables)**

<table>
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<tr>
<td>E</td>
<td>W B *</td>
</tr>
<tr>
<td>F</td>
<td>R</td>
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**Part Numbers:**

- ATEX II 2 GD Ex d IIC / Ex e II / Ex tD A21
- EN 60079-0, EN 60079-1, EN 60079-7, IEC 61241-0, IEC 61241-1 & IEC 60529
- Compliance: ATEX SIRA 01ATEX1271X & SIRA 09ATEX1221X
- Certificate No.

**Plating:**

- Brass or Stainless Steel

**Materials:**

- Silicone Seals -60ºC to +180ºC

**Operating:**

- IP66 & IP68 (35 metres - 7 days), NEMA 4X

- Modulation: E1WBFC1/K/1/20/050NPT

**Example Numbering:**

(See below for details)

**Types of gland featuring armour specific clamping:**


**Options:**

- R Reduced Bore Seal
- C PVC Shroud (C): PCP Shroud (P): LSOH Shroud (D)
- K or V Locknut: Brass (ACBLN): Stainless Steel (ACSLN)
- IP Washers: Nylon (ACNSW): Fibre (ACFW)
- S Serrated Washer: Stainless Steel (ACSSW)
- Shrouds: PVC (ACPVC): PCP (ACPCP): LSOH (ACSSD)

**Dimensions/Weight (Metric):**

<table>
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<th>Shroud Size</th>
<th>Dimensions/Weight (Metric)</th>
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</table>

**Notes:**

- Gland size does not necessarily equate to the entry thread size. Gland size 16 is also available with an M16 x 1.5 entry thread.

- The IP O-ring seal option 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.

- Where glands are fitted into non-metallic Ex e enclosures they must be included within the earth circuit of the system.

- The user should seek expert advice if intending to combine flammable and combustible dust in one environment/installation.

- 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 will not be held responsible for clients' installations where this has not been taken into account.

- To maintain the specified IP rating, clearance holes must be in accordance with EN 50262 Table 1 and the entry device should be suitably secured.

- For gland size 20 the silicon inner seal has a minimum diameter of 11.0mm and NOT 6.7mm.

- All gland kits supplied with silicone seals will include a PTFE IP washer to maintain the temperature range.
Cable Gland Type C - (Single Compression for Armoured Cables)

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<th>W</th>
<th>S</th>
<th>B</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>E</th>
<th>8</th>
<th>R</th>
<th>Z</th>
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</thead>
</table>

"C" type single compression glands, certified Increased Safety Ex e are suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Group II. 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 (X) or tape (Z) 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.

Example Part Numbering
(Cable Gland Type C - Single Compression for Armoured Cables)

C1WBECK1/NP/20/050NPT

Specifications:
- **Ex e Certification**: ATEX II 2 GD Ex e II / Ex tD A21
- **Certificate No.**: ATEX SIRA01ATEX1271X
- **Operating Temperature**: IP66 & NEMA 4X
- **Plating**: Nickel - Zinc
- **Materials**: Brass or Stainless Steel
- **Dimensions/Weight (Metric)**: LADY'S / Telescopic Cylindrical
- **Weight (Kgs)**: Metric NPT Min Max Min Max Min Max W XZ
- **Nominal Protrusion (Length)**: Across Flats Across Corners (A) Weight (Kgs)
- **Cable Acceptance Details**: Swa (W) / Swb (X) or Sta (Z)
- **Ex e Certification Options**: Reduced Bore Seal
- **Earth Tag**: Integral Earth (see page TR-3)
- **Locknut**: Stainless Steel (S)
- **Brass (B)**: Stainless Steel (S)
- **Cable Acceptance Details**: LSOH (3) Shroud
- **LSOH (3)**: Shroud - PVC (ACSPVC) / PC (ACPVC) / LSOH (ACSSLOH)
- **Terminal Connectors**: LSOH Shroud (3)
- **Type of gland featuring armour specific clamping**
- **Seal**: Neoprene Seals (1) - Silicone (3)
- **Reduced Bore Seal**: Reduced Bore Seal
- **Earth Tag**: Integral Earth (see page TR-3)
- **Locknut**: Stainless Steel (S)
- **Brass (B)**: Stainless Steel (S)
- **Cable Acceptance Details**: LSOH (3) Shroud
- **LSOH (3)**: Shroud - PVC (ACSPVC) / PC (ACPVC) / LSOH (ACSSLOH)
- **Terminal Connectors**: LSOH Shroud (3)
- **Type of gland featuring armour specific clamping**
- **Seal**: Neoprene Seals (1) - Silicone (3)

Notes:
- * Gland size does not necessarily equate to the entry thread size. Gland size 16 is also available with an M16 x 1.5 entry thread.
- * The IP-0 Ring seal option 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.
- * Where glands are fitted into non-metallic Ex e enclosures they must be included within the earth circuit of the system.
- * Gland size does not necessarily equate to the entry thread size. Gland size 16 is also available with an M16 x 1.5 entry thread.
- * The IP-0 Ring seal option 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.
- * Where glands are fitted into non-metallic Ex e enclosures they must be included within the earth circuit of the system.
- * Gland size does not necessarily equate to the entry thread size. Gland size 16 is also available with an M16 x 1.5 entry thread.
- * The IP-0 Ring seal option 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.
- * Where glands are fitted into non-metallic Ex e enclosures they must be included within the earth circuit of the system.
- * Gland size does not necessarily equate to the entry thread size. Gland size 16 is also available with an M16 x 1.5 entry thread.
- * The IP-0 Ring seal option 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.
- * Where glands are fitted into non-metallic Ex e enclosures they must be included within the earth circuit of the system.
Gland Size

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<td></td>
<td></td>
<td></td>
<td>Min</td>
<td>Max</td>
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If the IP O-ring is not used in conjunction with a flat IP washer.

Notes:
- Gland size does not necessarily equate to the entry thread size. Gland size 16 is also available with an M16 x 1.5 entry thread.
- The IP O-ring seal is only available on metric entry threads. IP washers can be supplied for tapered entry threads.
- Please ensure that the IP O-ring is not used in conjunction with a flat IP washer.
- Dimensions (A) & (B) may differ for glands with non metric entry threads. Please refer to our "Thread Reference Tables" for specific dimensions.
- Where glands are fitted into non-metallic Ex enclosures they must be included within the earth circuit of the system.
- The user should seek expert advice if intending to combine flammable and combustible dust in one environment/installation.
- 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 will not be held responsible for clients/installations where this has not been taken into account.
- To maintain the specified IP rating, clearance holes must be in accordance with EN 50262 Table 1 and the entry device should be suitably secured.
- All gland kits supplied with silicon seals will include a PTFE IP washer in order to maintain the temperature range.

Example Part Numbering

A2LBFCK1/NP/20/05ONPT

- A: Type of gland featuring controlled displacement sealing
- L: Neoprene Seals (2) - Silicone (3) - Neoprene/Lead (1) - Silicone/Lead (4)
- B: Peppers Lightweight Design
- P: Multiple Certification
- F: Brass (B) - Stainless Steel (S) - Aluminium (A)
- C: PVC-Shroud (C) - PCP-Shroud (P) - LSZH-Shroud (Z)
- K & V: Locknut & Nylon (K) or Fibre (V) IP Washer
- T: Including Earth Tag
- S: Including Serrated Washer
- Q: Quantity per kit
- N: Nickle Plated (NP) - Zinc Plated (ZP)
- 20: Gland shell size
- 05ONPT: 1/2"NPT Entry Thread

Cable Gland Type A - (Single Compression for any Cable)
**Cable Gland Type A*LDS - (Double Compression for any Cable)**

<table>
<thead>
<tr>
<th>Part Numbers:</th>
<th>A</th>
<th>1</th>
<th>L</th>
<th>DS</th>
<th>B</th>
<th>F</th>
</tr>
</thead>
</table>

**Notes:**
- “A*LDS” type glands, certified Flameproof Ex d, Increased Safety Ex e & Restricted Breathing Ex nR are suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Groups IIA, IIB and IIC. 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 25 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. Options are available for use with LSOH cables and extreme temperature applications.

**Compliance:**
- EN 60079-0, EN 60079-1, EN 60079-15, EN 61241-0, EN 61241-1
- IEC 60079-0, IEC 60079-1, IEC 61241-0, IEC 61241-1 & IEC 60529

**Certificate No.:**
- ATEX 20/050NP

**Example Part Numbering (see below for details):**
- A2 LDSBFCK1/NP/20/050NP

**Dimensions (A) & (B):**
- Metric: NPT
- Min: Max

### Entry Thread Size
<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
</table>

**Accessories:**
- Locknut
- Earth tag
- Serrated Shrouds

**Seals:**
- Silicone Seals: -60ºC to +180ºC
- Neoprene Seals: -20ºC to +85ºC

**Cable Gland Selection Table**

<table>
<thead>
<tr>
<th>Gland Size</th>
<th>Entry Thread Size</th>
<th>ISO/Thread Length (B)</th>
<th>Cable Acceptance Details</th>
<th>Nominal Protrusion Length (L)</th>
<th>Across Flats</th>
<th>Across Corners (A)</th>
<th>Weight Kgs</th>
<th>Metric Thread Shroud Size</th>
</tr>
</thead>
</table>

**Notes:**
- * Gland size does not necessarily equate to the entry thread size. Gland size 16 is also available with an M16 x 1.5 entry thread.
- * The IP O-ring seal is only available on metric entry threads. IP washers can be supplied for tapered entry threads.
- * Please ensure the IP O-ring seal is not used in conjunction with a flat IP washer.
- * Dimensions (A) & (B) may differ for glands with non-metric entry threads. Please refer to our “Thread Reference Tables” for specific dimensions.
- * Where glands are fitted into non-metallic Ex e enclosures they must be included within the earth circuit of the system.
- * The user should seek expert advice if intending to combine flammable and combustible dust in one environment/installation.
- * 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 will not be held responsible for clients’ installations where this has not been taken into account.
- * To maintain the specified IP rating, clearance holes must be in accordance with EN 500262 Table 1 and the entry device should be suitably secured.
- * All gland kits supplied with silicone seals will include a PTFE IP washer in order to maintain the temperature range.
## Cable Gland Type A*LC - (Single Compression Conduit Gland)

**Ex d : Ex e : Ex nR : Ex td A21 : IP66 : IP68**

### Part Numbers:
- Nickel - Zinc
- Brass, Stainless Steel or Aluminium

**Operating**
- IP66 & IP68 (25 metres - 30 minutes), NEMA 4X & DTS01 1991

**Certificate No.**
- ATEX SIRA 01ATEX1272X & SIRA 09ATEX1221X

**Notes:**
- Certification: ATEX II 2 GD Ex d IIC / Ex e II / Ex tD A21
- Compliance:
  - IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1
  - IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1 & IEC 60529

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

**Optional Accessories**
- Locknut
- Brass (ACBLN) / Stainless Steel (ACSSNL)
- Earth tag
- Brass (ACBET) / Stainless Steel (ACSET)
- IP Washers
- Nylon (ACNSW) / Fibre (ACFSW)
- Serrated Washers Stainless Steel (ACSSW)

### CABLE GLAND SELECTION TABLE

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Across Flats</td>
<td>Across Corners [A]</td>
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<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>M20 x 1.5</td>
<td>1/2&quot; or 3/4&quot;</td>
<td>16</td>
<td>M20 x 1.5</td>
<td>1/2&quot; or 3/4&quot;</td>
<td>4.0</td>
<td>8.0</td>
</tr>
<tr>
<td>20</td>
<td>M20 x 1.5</td>
<td>1/2&quot; or 3/4&quot;</td>
<td>16</td>
<td>M20 x 1.5</td>
<td>1/2&quot; or 3/4&quot;</td>
<td>7.2</td>
<td>11.7</td>
</tr>
<tr>
<td>25</td>
<td>M25 x 1.5</td>
<td>2/3&quot; or 1 1/4&quot;</td>
<td>16</td>
<td>M25 x 1.5</td>
<td>2/3&quot; or 1 1/4&quot;</td>
<td>13.5</td>
<td>20.0</td>
</tr>
<tr>
<td>32</td>
<td>M32 x 1.5</td>
<td>1&quot; or 1 1/4&quot;</td>
<td>16</td>
<td>M32 x 1.5</td>
<td>1&quot; or 1 1/4&quot;</td>
<td>19.5</td>
<td>26.3</td>
</tr>
<tr>
<td>40</td>
<td>M40 x 1.5</td>
<td>1 1/4&quot; or 1 1/2&quot;</td>
<td>16</td>
<td>M40 x 1.5</td>
<td>1 1/4&quot; or 1 1/2&quot;</td>
<td>23.0</td>
<td>32.2</td>
</tr>
<tr>
<td>50</td>
<td>M50 x 1.5</td>
<td>1 1/2&quot; or 2&quot;</td>
<td>16</td>
<td>M50 x 1.5</td>
<td>1 1/2&quot; or 2&quot;</td>
<td>28.1</td>
<td>38.2</td>
</tr>
<tr>
<td>50</td>
<td>M50 x 1.5</td>
<td>1 1/2&quot; or 2&quot;</td>
<td>2</td>
<td>M50 x 1.5</td>
<td>2&quot;</td>
<td>33.1</td>
<td>44.1</td>
</tr>
<tr>
<td>63</td>
<td>M63 x 1.5</td>
<td>2&quot; or 2 1/2&quot;</td>
<td>19</td>
<td>M63 x 1.5</td>
<td>2&quot; or 2 1/2&quot;</td>
<td>39.2</td>
<td>50.1</td>
</tr>
<tr>
<td>63</td>
<td>M63 x 1.5</td>
<td>2&quot; or 2 1/2&quot;</td>
<td>19</td>
<td>M63 x 1.5</td>
<td>2&quot; or 2 1/2&quot;</td>
<td>46.7</td>
<td>56.0</td>
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<tr>
<td>75</td>
<td>M75 x 1.5</td>
<td>2 1/2&quot; or 3&quot;</td>
<td>19</td>
<td>M75 x 1.5</td>
<td>2 1/2&quot; or 3&quot;</td>
<td>52.1</td>
<td>62.0</td>
</tr>
<tr>
<td>75</td>
<td>M75 x 1.5</td>
<td>2 1/2&quot; or 3&quot;</td>
<td>3</td>
<td>M75 x 1.5</td>
<td>3&quot;</td>
<td>58.0</td>
<td>68.0</td>
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<tr>
<td>80</td>
<td>M80 x 2</td>
<td>3&quot; or 3 1/2&quot;</td>
<td>25</td>
<td>M80 x 2</td>
<td>3&quot; or 3 1/2&quot;</td>
<td>62.2</td>
<td>72.0</td>
</tr>
<tr>
<td>85</td>
<td>M85 x 2</td>
<td>3&quot; or 3 1/2&quot;</td>
<td>25</td>
<td>M85 x 2</td>
<td>3&quot; or 3 1/2&quot;</td>
<td>69.0</td>
<td>78.0</td>
</tr>
<tr>
<td>90</td>
<td>M90 x 2</td>
<td>3 1/2&quot; or 4&quot;</td>
<td>25</td>
<td>M90 x 2</td>
<td>3 1/2&quot; or 4&quot;</td>
<td>74.0</td>
<td>84.0</td>
</tr>
<tr>
<td>100</td>
<td>M100 x 2</td>
<td>3 1/2&quot; or 4&quot;</td>
<td>25</td>
<td>M100 x 2</td>
<td>3 1/2&quot; or 4&quot;</td>
<td>82.0</td>
<td>90.0</td>
</tr>
</tbody>
</table>

**Notes:**
- * Gland size does not necessarily equate to the entry thread size. Gland size 16 is also available with an M16 x 1.5 entry thread.
- * The IP O-ring seal is only available on metric entry threads. IP washers can be supplied for tapered entry threads.
- * Please ensure that the IP O-ring is not used in conjunction with a flat IP washer.
- * Dimensions (A) & (B) may differ for glands with non metric entry threads. Please refer to our "Thread Reference Tables" for specific dimensions.
- * Where glands are fitted into non-metallic ex e enclosures they must be included within the earth circuit of the system.
- * The user should seek expert advice if intending to combine flammable and combustible dust in one environment/installation.

**Dimensions in mm**

**All dimensions in mm**

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**Peppers Cable Glands Limited**

Stanhope Road, Camberley, Surrey, GU15 3BJ United Kingdom

Telephone: +44 (0) 1276 642322 • Facsimile: +44 (0) 1276 691752

Email: sales@peppers.co.uk • Website: www.cableglands.com
E8 & A8 type glands, certified Flameproof Ex d, Increased Safety Ex e & Restricted Breathing Ex nR are suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Groups II A, II B and II C. Developed for flat cables they provide controlled Ex d, IP sealing and have been tested to IP66 and IP68 to 25 metres. The A8 version is designed to accommodate unarmoured cables whilst the E8 features an environmental seal on the outer sheath and a detachable armour specific clamping system.

| Compliance | EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 61241-0, EN 61241-1 |
| Standard  | IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241-0, IEC 61241-1 & IEC 60529 |

**Example Part Numbering**

- **A8BF/20/M20**: E8XBF/20R/M20
- **ABB8/20/M20**: A8BF/20/M20

**Cable Gland Type**

<table>
<thead>
<tr>
<th>Type</th>
<th>(Armoured)</th>
<th>(Unarmoured)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>B</td>
<td>X</td>
</tr>
<tr>
<td>B</td>
<td>A</td>
<td>F</td>
</tr>
<tr>
<td>S</td>
<td>A</td>
<td>B</td>
</tr>
</tbody>
</table>

**Part Numbers (Armoured):**

- E
- B
- X
- B
- F

**Part Numbers (Unarmoured):**

- A
- B
- S

---

**CABLE GLAND SELECTION TABLE - E8XBF for Armoured Cables**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric</td>
<td>NPT</td>
<td>Width [Min, Max] (Width [Min, Max])</td>
<td>Thickness [Min, Max] (Thickness [Min, Max])</td>
<td>Width [Min, Max] (Width [Min, Max])</td>
<td>Thickness [Min, Max] (Thickness [Min, Max])</td>
<td>Across Flats/ Across Comers [A]</td>
<td>Weight Kgs (Metric)</td>
<td>Across Flats/ Across Comers [A]</td>
</tr>
<tr>
<td>20S</td>
<td>M20 x 1.5</td>
<td>1/2&quot; or 3/4&quot;</td>
<td>5.8 (6.2)</td>
<td>5.4 (5.8)</td>
<td>0.10-0.30</td>
<td>0.10-0.30</td>
<td>58 (30.0)</td>
<td>0.196 (0.196)</td>
</tr>
<tr>
<td>20R</td>
<td>M20 x 1.5</td>
<td>1/2&quot; or 3/4&quot;</td>
<td>5.6 (6.0)</td>
<td>5.2 (5.6)</td>
<td>0.10-0.30</td>
<td>0.10-0.30</td>
<td>58 (30.0)</td>
<td>0.196 (0.196)</td>
</tr>
</tbody>
</table>

**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.
- * Where glands are fitted into non-metallic Ex e enclosures they must be included within the earth circuit of the system.
- * The user should seek expert advice if intending to combine flammable and combustible dust in one environment/installation.
- * 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 will not be held responsible for clients’ installations where this has not been taken into account.
- * To maintain the specified IP rating, clearance holes must be in accordance with EN 50262 Table 1 and the entry device should be suitably secured.

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**CABLE GLAND SELECTION TABLE - A8BF for Unarmoured Cables**

<table>
<thead>
<tr>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric</td>
<td>NPT</td>
<td>Width [Min, Max] (Width [Min, Max])</td>
<td>Thickness [Min, Max] (Thickness [Min, Max])</td>
<td>Across Flats/ Across Comers [A]</td>
<td>Weight Kgs (Metric)</td>
<td>Across Flats/ Across Comers [A]</td>
</tr>
<tr>
<td>20S</td>
<td>M20 x 1.5</td>
<td>1/2&quot; or 3/4&quot;</td>
<td>5.8 (6.2)</td>
<td>5.4 (5.8)</td>
<td>0.10-0.30</td>
<td>0.10-0.30</td>
</tr>
<tr>
<td>20R</td>
<td>M20 x 1.5</td>
<td>1/2&quot; or 3/4&quot;</td>
<td>5.6 (6.0)</td>
<td>5.2 (5.6)</td>
<td>0.10-0.30</td>
<td>0.10-0.30</td>
</tr>
</tbody>
</table>
Peppers "PF" type glands, certified Increased Safety Ex e are suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Group II. They are manufactured from polyamide and provide a controlled pull resistant displacement seal on the cable outer sheath providing both Ex e & IP protection. The gland has been tested to IP66 & IP68 to 50 metres and is fully compliant with the Ex e 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: EN 60079-0, EN 60079-7, EN 61241-0, EN 61241-1
Standard: IEC 60079-0, IEC 60079-7, IEC 61241-0, IEC 61241-1 & IEC 60529

Certification:
- ATEX II 2 GD Ex e II / Ex TD A21
- IECEx Ex e II / Ex TD A21
- GOST R Ex e IIU
- UL ANSI/UL514B
- CSA CAN/CSA C22.2
- VDE DIN EN 50262 / VDE 0619
- Lloyd's Enclosure Systems (Part 1B)

Certificate No.
- ATEX LCIE 07ATEX6082X/02
- IECEx LCI 10.0008X
- GOST POCC FR M14.B00153
- UL E306665
- CSA E306665
- VDE 131210
- Lloyd's 10/00056

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

Optional Accessories:
- Nylon Locknut / IP Washers

CABLE GLAND SELECTION TABLE

<table>
<thead>
<tr>
<th></th>
<th></th>
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<td></td>
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<td></td>
<td></td>
<td></td>
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<td>Blue</td>
</tr>
<tr>
<td>12</td>
<td>M12 x 1.5</td>
<td>23.0</td>
<td>4.0</td>
<td>6.5</td>
<td>PF7421200E PF8021200E 15.0</td>
<td>PF7431200E PF8031200E 15.0</td>
<td>16.5</td>
<td>0.003</td>
</tr>
<tr>
<td>16</td>
<td>M16 x 1.5</td>
<td>28.0</td>
<td>5.0</td>
<td>8.0</td>
<td>PF7421600E PF8021600E 15.0</td>
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<td>22.0</td>
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<td>28.0</td>
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<td>10.0</td>
<td>PF7421600E PF8021600E 15.0</td>
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<td>24.5</td>
<td>0.010</td>
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<td>M20 x 1.5</td>
<td>28.0</td>
<td>7.0</td>
<td>12.0</td>
<td>PF7422000E PF8022000E 15.0</td>
<td>PF7432000E PF8032000E 15.0</td>
<td>28.0</td>
<td>0.010</td>
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<td>M20 x 1.5</td>
<td>28.0</td>
<td>10.0</td>
<td>14.0</td>
<td>PF7422000E PF8022000E 15.0</td>
<td>PF7432000E PF8032000E 15.0</td>
<td>30.3</td>
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<td>M25 x 1.5</td>
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<td>10.0</td>
<td>14.0</td>
<td>PF7422500E PF8022500E 15.0</td>
<td>PF7432500E PF8032500E 15.0</td>
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<td>0.021</td>
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<td>M25 x 1.5</td>
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<td>12.0</td>
<td>18.0</td>
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<td>PF7432500E PF8032500E 15.0</td>
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<td>M25 x 1.5</td>
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<td>16.0</td>
<td>25.0</td>
<td>PF7423200E PF8023200E 15.0</td>
<td>PF7433200E PF8033200E 15.0</td>
<td>47.0</td>
<td>0.038</td>
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<td>M40 x 1.5</td>
<td>52.5</td>
<td>22.0</td>
<td>32.0</td>
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<td>PF7434000E PF8034000E 16.0</td>
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<td>PF7463000E PF8063000E 16.0</td>
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<td>0.128</td>
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</table>

All dimensions in mm

Notes:
* The user should seek expert advice if intending to combine flammable and combustible dust in one environment/installation.
* 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 tapered threads.
* Industrial Non-Ex versions are not supplied with IP thread sealing washer.
* Industrial Non-Ex versions are only available in Black.
Peppers Cable Glands Limited
Stanhope Road, Camberley, Surrey, GU15 3BT United Kingdom
Telephone: +44 (0) 1276 691752 - Facsimile: +44 (0) 1276 691752
Email: sales@peppers.co.uk - Website: www.cableglands.com

Cable Gland Type CR-C (featuring “CROCLOCK®”)

Part Numbers:

<table>
<thead>
<tr>
<th>CR</th>
<th>C</th>
<th>R</th>
<th>B</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>5</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

“CR-C” type glands, certified Flameproof Ex d, Increased Safety Ex e & Restricted Breathing Ex nR are suitable for use in Zone 1, Zone 2, Zone 21, Zone 22, Group I Mining, Gas Groups IIIA, IIB, IIC and Dust Groups IIIA, IIIB, IIC. 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, “CROCLOCK®”, the non-reversible multi-clamping system for glands with non-metric entry threads. Please refer to our “Thread Reference Tables” for specific dimensions.

- Reduced Bore Seal
- PVC Shroud (C) - PCP Shroud (P) - LSZH Shroud (3)
- Locknut, Earth Tag & Nylon (K) or Fibre (V) IP Washer
- Including Serrated Washer
- Quantity per kit
- Nickel Plated (NP) - Zinc Plated (ZP)
- 20 Gland shell size

Example Part Numbering

CR-CBK1/NP/20/M20

<table>
<thead>
<tr>
<th>CR-C</th>
<th>Type of gland featuring “CROCLOCK®”, single orientation clamping, Compound (Barrier) Inner Seal &amp; Silicone Elastomeric Outer Seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>For Lead Sheath Cables</td>
</tr>
<tr>
<td>B</td>
<td>Brass (B) / Stainless Steel (S)</td>
</tr>
<tr>
<td>K or V</td>
<td>Nickel Plated (NP) - Zinc Plated (ZP)</td>
</tr>
</tbody>
</table>

Options

<table>
<thead>
<tr>
<th>CR</th>
<th>Type of gland featuring “CROCLOCK®”</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>Single orientation clamping, Compound (Barrier) Inner Seal &amp; Silicone Elastomeric Outer Seal</td>
</tr>
</tbody>
</table>

Gland kits can be supplied with a PTFE IP washer in order to be included within the earth circuit of the system.

Assembly instructions must be read prior to installation and adhered to in full.

Notes:

- Gland size does not necessarily equate to the entry thread size.
- The O-Ring seal is only available on metric entry threads. IP washers can be supplied for tapered entry threads.
- Please ensure that the IP O-Ring is not used in conjunction with a flat IP washer.
- Dimensions (A) & (B) may differ for glands with non metric entry threads. Please refer to our “Thread Reference Tables” for specific dimensions.
- Where glands are fitted into non-metallic Ex e enclosures they must be included within the earth circuit of the system.
- The user should seek expert advice if intending to combine flammable and combustible dust in one environment/installation.
- 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 essential equivalents. 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 will not be held responsible for clients’ installations where this has not been taken into account.
- To maintain the specified IP rating, clearance holes must be in accordance with EN 50262 Table 1 and the entry device should be suitably secured.
- The equipment can be energised after 4 hours following the time given in the tables.
- The equipment can be energised after 4 hours following the time given in the tables.
- Compound gland can be fully inspected after 4 hours.

Cable Gland Selection Table

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric</td>
<td>NPT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>M20 x 1.5</td>
<td>1/2&quot; or 3/4&quot;</td>
<td>16</td>
<td>15</td>
<td>10.4</td>
<td>11.7</td>
<td>9.0</td>
</tr>
<tr>
<td>205</td>
<td>M20 x 1.5</td>
<td>1/2&quot; or 3/4&quot;</td>
<td>20</td>
<td>20</td>
<td>10.4</td>
<td>11.7</td>
<td>12.9</td>
</tr>
<tr>
<td>20</td>
<td>M20 x 1.5</td>
<td>1/2&quot; or 3/4&quot;</td>
<td>20</td>
<td>20</td>
<td>12.5</td>
<td>14.0</td>
<td>15.5</td>
</tr>
<tr>
<td>25</td>
<td>M25 x 1.5</td>
<td>3/4&quot; or 1&quot;</td>
<td>25</td>
<td>25</td>
<td>17.8</td>
<td>19.0</td>
<td>20.3</td>
</tr>
<tr>
<td>32</td>
<td>M32 x 1.5</td>
<td>1&quot; or 1/4” or 1/2&quot;</td>
<td>32</td>
<td>32</td>
<td>23.5</td>
<td>26.3</td>
<td>26.7</td>
</tr>
<tr>
<td>40</td>
<td>M40 x 1.5</td>
<td>1&quot; or 1/4” or 1/2”</td>
<td>40</td>
<td>40</td>
<td>28.8</td>
<td>32.2</td>
<td>33.0</td>
</tr>
<tr>
<td>50</td>
<td>M50 x 1.5</td>
<td>1” or 1/2” or 2”</td>
<td>50</td>
<td>50</td>
<td>34.2</td>
<td>38.2</td>
<td>39.4</td>
</tr>
<tr>
<td>85</td>
<td>M85 x 1.5</td>
<td></td>
<td>85</td>
<td>85</td>
<td>49.0</td>
<td>54.1</td>
<td>45.7</td>
</tr>
<tr>
<td>63</td>
<td>M63 x 1.5</td>
<td>2” or 2” or 1/2”</td>
<td>63</td>
<td>63</td>
<td>50.0</td>
<td>56.8</td>
<td>52.1</td>
</tr>
<tr>
<td>75</td>
<td>M75 x 1.5</td>
<td>2” or 2” or 3”</td>
<td>75</td>
<td>75</td>
<td>55.4</td>
<td>62.0</td>
<td>64.8</td>
</tr>
<tr>
<td>90</td>
<td>M90 x 1.5</td>
<td>3” or 2” or 4”</td>
<td>90</td>
<td>90</td>
<td>60.8</td>
<td>68.0</td>
<td>71.1</td>
</tr>
<tr>
<td>100</td>
<td>M100 x 1.5</td>
<td>3” or 2” or 4”</td>
<td>100</td>
<td>100</td>
<td>65.0</td>
<td>72.0</td>
<td>68.0</td>
</tr>
</tbody>
</table>

All dimensions in mm

Notes:

- Gland size does not necessarily equate to the entry thread size.
- The O-Ring seal is only available on metric entry threads. IP washers can be supplied for tapered entry threads.
- Please ensure that the IP O-Ring is not used in conjunction with a flat IP washer.
- Dimensions (A) & (B) may differ for glands with non metric entry threads. Please refer to our “Thread Reference Tables” for specific dimensions.
- Where glands are fitted into non-metallic Ex e enclosures they must be included within the earth circuit of the system.
- The user should seek expert advice if intending to combine flammable and combustible dust in one environment/installation.
- 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 essential equivalents. 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 will not be held responsible for clients’ installations where this has not been taken into account.
- To maintain the specified IP rating, clearance holes must be in accordance with EN 50262 Table 1 and the entry device should be suitably secured.
- The gland is supplied with the correct amount of the two-part compound, gloves and instructions to allow one complete termination.
- Gland kits can be supplied with a PTFE IP washer in order to maintain the temperature range if required.
Part Numbers:

```
C R X B S
```

**Gland Type CR-X** (Single Compression for Unarmoured Cables)

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

---

**CR-X** type glands, when used with any shape cable, are certified Flameproof Ex d. Increased Safety Ex e & Restricted Breathing Ex nR are suitable for use in Zone 1, Zone 2, 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 (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 provides a cable acceptance that is on average 17% greater than other designs. 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.

**Notes:**
- Temperature: -60°C to +135°C
- Materials: Brass or Stainless Steel
- Plating: Nickel - Zinc
- Compound: Peppers T-1000 Sealing Compound
- Curing Time: @ 21°C

---

**Cable Gland Selection Table**

<table>
<thead>
<tr>
<th>Gland Size</th>
<th>Entry Thread Size</th>
<th>ISO Thread Length (B)</th>
<th>Number of Cores (C)</th>
<th>Max Ø Over Cores (C)</th>
<th>Max Outer Sheath (D)</th>
<th>Dimensions/Weight (Metric)</th>
<th>Metric Thread Shroud Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>205</td>
<td>M20 x 1.5</td>
<td>1/2&quot; or 3/4&quot;</td>
<td>16</td>
<td>35</td>
<td>10.4</td>
<td>11.7</td>
<td>25.4</td>
</tr>
<tr>
<td>20</td>
<td>M20 x 1.5</td>
<td>1/2&quot; or 3/4&quot;</td>
<td>16</td>
<td>40</td>
<td>12.5</td>
<td>14.0</td>
<td>44.0</td>
</tr>
<tr>
<td>25</td>
<td>M25 x 1.5</td>
<td>3/4&quot; or 1&quot;</td>
<td>16</td>
<td>60</td>
<td>17.8</td>
<td>20.0</td>
<td>48.0</td>
</tr>
<tr>
<td>32</td>
<td>M32 x 1.5</td>
<td>1&quot; or 1 1/4&quot;</td>
<td>16</td>
<td>80</td>
<td>23.5</td>
<td>26.3</td>
<td>53.0</td>
</tr>
<tr>
<td>40</td>
<td>M40 x 1.5</td>
<td>1 1/4&quot; or 1 1/2&quot;</td>
<td>16</td>
<td>130</td>
<td>28.8</td>
<td>32.2</td>
<td>54.0</td>
</tr>
<tr>
<td>50</td>
<td>M50 x 1.5</td>
<td>2&quot;</td>
<td>16</td>
<td>400</td>
<td>39.4</td>
<td>44.1</td>
<td>54.0</td>
</tr>
<tr>
<td>63</td>
<td>M63 x 1.5</td>
<td>2 1/2&quot;</td>
<td>19</td>
<td>425</td>
<td>50.0</td>
<td>56.0</td>
<td>55.0</td>
</tr>
<tr>
<td>75</td>
<td>M75 x 1.5</td>
<td>3&quot;</td>
<td>19</td>
<td>425</td>
<td>60.8</td>
<td>68.0</td>
<td>60.0</td>
</tr>
<tr>
<td>80</td>
<td>M80 x 2</td>
<td>3&quot; or 3 1/2&quot;</td>
<td>25</td>
<td>425</td>
<td>64.4</td>
<td>72.0</td>
<td>80.0</td>
</tr>
<tr>
<td>85</td>
<td>M85 x 2</td>
<td>3&quot; or 3 1/2&quot;</td>
<td>25</td>
<td>425</td>
<td>69.8</td>
<td>78.0</td>
<td>80.0</td>
</tr>
<tr>
<td>90</td>
<td>M90 x 2</td>
<td>3 1/2&quot; or 4&quot;</td>
<td>25</td>
<td>425</td>
<td>75.1</td>
<td>84.0</td>
<td>85.0</td>
</tr>
<tr>
<td>100</td>
<td>M100 x 2</td>
<td>3 1/2&quot; or 4&quot;</td>
<td>25</td>
<td>425</td>
<td>80.5</td>
<td>90.0</td>
<td>85.0</td>
</tr>
</tbody>
</table>

**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.
- Please ensure that the IP O-ring is not used in conjunction with a flat IP washer.
- Dimensions (A) & (B) may differ for glands with non metric entry threads. Please refer to our “Thread Reference Tables” for specific dimensions.
- Where glands are fitted into non-metallic Ex e enclosures they must be included within the earth circuit of the system.
- The user should seek expert advice if intending to combine flammable and combustible dust in one environment/installation.
- 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 will not be held responsible for clients’ installations where this has not been taken into account.
- To maintain the specified IP rating, clearance holes must be in accordance with EN 50262 Table 1 and the entry device should be suitably secured.
- The gland is supplied with the correct amount of the two-part compound, gloves and instructions to allow one complete termination.
- Gland kits can be supplied with a PTFE IP washer in order to maintain the temperature range if required.
**Cable Gland Type CR-U (Double Compression for Unarmoured Cables)**

**Part Numbers:**
- CR U B S

---

- **Temperature:** 
  -60

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

- **Certificate No:**
  - ATEX SIRA 03ATEX1479X & SIRA 09ATEX4124X

- **ATEX:**
  - I M2 II 2GD Ex d I Mb & IIC Gb / Ex e I Mb & IIC Gb / Ex ta IIIC Da
  - Certification:
  - Standard:
  - Compliance

- **Part Numbers:**
  - Plating:
    - Nickel - Zinc
    - Brass or Stainless Steel
  - Materials:
    - Gland
    - 
    - \& 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.
    - Enables a quick and easy installation and an innovative barrier chamber that provides a cable acceptance that is on average 17% greater than other designs. 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.
  - Size
  - Entry Thread Size ISO Thread
  - Length
  - Weight
  - Dimensions/Weight (Metric)
  - Metric Thread Shroud Size

---

**Example Part Numbering**

**CR-UBCK1/NP/20/M20**

- **Options**
  - **B**
    - Brass (B) / Stainless Steel (S)
  - **K or V**
    - Locknut, & Nylon (K) or Fibre (V) IP Washer
  - **S**
    - Including Serrated Washer
  - **NP**
    - Quantity per kit
    - Nickel Plated (NP) - Zinc Plated (ZP)
  - **20**
    - Gland shell size

---

**Cable Gland Type CR-U**

- **Type of gland with Compound (Barrier) Inner Seal & Silicone Elastomeric Outer Seal**
  - Brass (B) / Stainless Steel (S)

- **Locknut**
  - Brass (ACBLN) / Stainless Steel (ACSSLN)

---

**Cable Acceptance Details**

- **Number of Cores**
  - Max Ø Over Cores
  - Min
  - Max

---

**Cable Gland Selection Table**

|------------|-------------------|---------------------|-----------------|-----------------------|------------------------|-----------------------------|---------------------------|---------------------------|

---

**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.
- Please ensure that the IP O-ring is not used in conjunction with a flat IP washer.
- Dimensions (A) & (B) may differ for glands with non metric entry threads. Please refer to our “Thread Reference Tables” for specific dimensions.
- Where glands are fitted into non-metallic Ex e enclosures they must be included within the earth circuit of the system.
- The user should seek expert advice if intending to combine flammable and combustible dust in one environment/installation.
- Assembly instructions must be read prior to installation and an innovative barrier chamber to conform to the flameproof threaded joint requirements of IEC/EN 60079-1 and other equivalent standards.
- The equipment can be energised after 4 hours
- The user should seek expert advice if intending to combine flammable and combustible dust in one environment/installation.
- Assembly instructions must be read prior to installation and an innovative barrier chamber to conform to the flameproof threaded joint requirements of IEC/EN 60079-1 and other equivalent standards.
**Cable Gland Type CR-S (Single Compression for use with Conduit)**

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

**Part Numbers:**

<table>
<thead>
<tr>
<th>C</th>
<th>R</th>
<th>S</th>
<th>F</th>
<th>B</th>
<th>S</th>
<th>M</th>
</tr>
</thead>
</table>

---

**Curing Time:** @ 21°C (See below for details) CR-UBCK1/NP/20/M20

**Options**

K or V Locknut, & Nylon (K) or Fibre (V) IP Washer

Type of gland with Compound (Barrier) Inner Seal & Silicone Elastomeric

M20 Gland shell size

**Quantity per kit**

Including Serrated Washer

**Outer Seal**

Shrouds PVC (ACSPVC) / PCP (ACSPCP) / LSOH (ACSSIO)

Serrated Washers Stainless Steel (ACSSW)

IP Washers Nylon (ACNSW) / Fibre (ACFSW)

**Earth tag**

Locknut Brass (ACBLN) / Stainless Steel (ACSLN)

The equipment can be energised after 4 hours

Conductor termination can be effected after 1 hour

---

**Standard:**

IEC 60079-0, IEC 60079-7, IEC 60079-15, IEC 60079-31 & IEC 60529

**Certification:**

ATEX I M2 II 2GD Ex d II Mb & IEC Gb / Ex e I Mb & IEC Gb / Ex ta I IEC Da II 3GD Ex nr IIC Ge

IEEx Ex d I & IEC Gb / Ex e I Mb & IEC Gb / Ex ta I IEC Da / Ex nr I IEC Ge

GOST-R Ex d I & IECU / Ex e I IIU

CSA Ex d I & IEC Class I Zone 1

Class I Division 2, Groups A, B, C & D

Class II Division 2, Groups E, F & G

Class III, Enclosure Types 3, 4 & 4X

NEPSI Ex d IIC

INMETRO NCC 5881/09 X

ABS - MD Rules 4-3-9-3/9

LLOYD'S Enclousure Systems (Part 1B)

RMRS Part XI of Rules for sea-going ships (ed.2008)

---

**Certificate No.**

SIRA 03ATEXI479X & SIRA 09ATEX124X

IEEx 070099X

GOST-R POCG FBG00853

CSA CSA 13566011

NEPSI GVD5168X

INMETRO NGC 5881/09 X

ABS 09-LD434991A-PDA

LLOYD'S 1000056

RMRS 09-008741-01

---

**IP Rating:**

IP66 & IP68 (100 metres - 7 Days), NEMA 4X & DTS01 1991

---

**Temperature:** -60°C to +135°C

**Materials:** Brass or Stainless Steel

**Plating:** Nickel - Zinc

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

---

**Cable Gland Type Selection Table**

<table>
<thead>
<tr>
<th>Gland Size</th>
<th>Male Entry Threads</th>
<th>Metric Entry Thread Length (B)</th>
<th>Female Entry Threads</th>
<th>Gland Seal Range - Cable Sheath &amp; Cores</th>
<th>Nominal Threads Protrusion Length (L)</th>
<th>Dimensions/Weight (Metric)</th>
<th>Metric Thread Shroud Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Metric</td>
<td>NPT</td>
<td>Metric</td>
<td>NPT</td>
<td>Number of Cores</td>
<td>C</td>
<td>Max Ø Over Cores</td>
</tr>
<tr>
<td>M3 x 1.5</td>
<td>1/2” or 3/4”</td>
<td>16</td>
<td>M20 x 1.5</td>
<td>1/2” or 3/4”</td>
<td>40</td>
<td>12.5</td>
<td>14.0</td>
</tr>
<tr>
<td>M32 x 1.5</td>
<td>3/4” or 1”</td>
<td>16</td>
<td>M32 x 1.5</td>
<td>3/4” or 1”</td>
<td>60</td>
<td>17.8</td>
<td>20.0</td>
</tr>
<tr>
<td>M40 x 1.5</td>
<td>1” or 1 1/4”</td>
<td>16</td>
<td>M40 x 1.5</td>
<td>1” or 1 1/4”</td>
<td>80</td>
<td>23.5</td>
<td>26.3</td>
</tr>
<tr>
<td>M50 x 1.5</td>
<td>2”</td>
<td>16</td>
<td>M50 x 1.5</td>
<td>2”</td>
<td>130</td>
<td>28.8</td>
<td>32.2</td>
</tr>
<tr>
<td>M63 x 1.5</td>
<td>2 1/2”</td>
<td>16</td>
<td>M63 x 1.5</td>
<td>2 1/2”</td>
<td>400</td>
<td>39.4</td>
<td>44.1</td>
</tr>
<tr>
<td>M75 x 1.5</td>
<td>3”</td>
<td>19</td>
<td>M75 x 1.5</td>
<td>3”</td>
<td>425</td>
<td>50.0</td>
<td>56.0</td>
</tr>
<tr>
<td>M80 x 1.5</td>
<td>3” or 3 1/2”</td>
<td>25</td>
<td>M80 x 2</td>
<td>3” or 3 1/2”</td>
<td>425</td>
<td>64.4</td>
<td>72.0</td>
</tr>
<tr>
<td>M85 x 1.5</td>
<td>3” or 3 1/2”</td>
<td>25</td>
<td>M85 x 2</td>
<td>3” or 3 1/2”</td>
<td>425</td>
<td>69.8</td>
<td>78.0</td>
</tr>
<tr>
<td>M90 x 1.5</td>
<td>3 1/2” or 4”</td>
<td>25</td>
<td>M90 x 2</td>
<td>3 1/2” or 4”</td>
<td>425</td>
<td>75.1</td>
<td>84.0</td>
</tr>
<tr>
<td>M100 x 2</td>
<td>3 1/2” or 4”</td>
<td>25</td>
<td>M100 x 2</td>
<td>3 1/2” or 4”</td>
<td>425</td>
<td>80.5</td>
<td>90.0</td>
</tr>
</tbody>
</table>

**Notes:**

- **Gland size** does not necessarily equate to the entry thread size. **Dimension [L]** relates to the female back end configuration only.
- The IP O-ring seal is only available on metric entry threads. IP washers can be supplied for tapered entry threads.
- Please ensure that the IP O-ring is not used in conjunction with a flat IP washer.
- **Dimensions [A] & [B]** may differ for glands with non metric entry threads. Please refer to our “Thread Reference Tables” for specific dimensions.
- Where glands are fitted into non-metallic Ex e enclosures they must be included within the earth circuit of the system.
- The user should seek expert advice if intending to combine flammable and combustible dust in one environment/installation.
- **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 will not be held responsible for clients’ installations where this has not been taken into account.
- To maintain the specified IP rating, clearance holes must be in accordance with EN 50262 Table 1 and the entry device should be suitably secured.
- The gland is supplied with the correct amount of the two-part compound, gloves and instructions to allow one complete termination.
**Cable Gland Type UL-C (featuring “CROCLOCK”)**

**Part Numbers:**
UL | L | 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 are suitable for use in Zone 1, Zone 2, Zone 21, Zone 22, Group I Mining, Gas Groups II(A), II(B), II(C) and Dust Groups III(A), III(B), III(C). 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 UL listed for Marine Shipboard Armoured, Jacketed or Non Jacketed cable. The unique features include, “CROCLOCK™”, the non reversible multi clamping system for wire (W), braid (X) and tape (Z) armoured cables the cable inner cores, eliminating damage to cables that exhibit “cold flow” characteristics and an environmental seal on the outer sheath. The gland is rated NEMA 4X, maintains IP66, IP68 to 100 metres and is deluge proof without the use of an additional seal or deluge boot.**

**Example Part Numbering**

**UL-CBCK1/NP/20/075NPT**

**Options**

- **B** Brass (B) / Stainless Steel (S)
- **R** Reduced Bore Seal
- **K or V** Locknut, Earth Tag & Nylon (K) or Fibre (V) IP Washer
- **S** Including Serrated Washer
- **NP** Nickel Plated (NP)

**Cable Gland Selection Table**

<table>
<thead>
<tr>
<th>Gland Size</th>
<th>Entry Thread Size</th>
<th>ISO Thread Length</th>
<th>NPT Thread Length</th>
<th>Number of Cores</th>
<th>Max Ø Over Cores</th>
<th>Max Ø Inner Sheath</th>
<th>Max Ø Inner Sheath Standard</th>
<th>Reduced</th>
<th>Nominal Protection Range</th>
<th>Dimensions/Weight (NPT Entry Thread Version)</th>
<th>Metric Thread Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>M20 x 1.5</td>
<td>1/2” or 3/4”</td>
<td>0.630</td>
<td>0.783</td>
<td>15</td>
<td>0.409</td>
<td>0.461</td>
<td>0.362</td>
<td>0.531</td>
<td>0.264</td>
<td>0.406</td>
</tr>
<tr>
<td>20</td>
<td>M20 x 1.5</td>
<td>1/2” or 3/4”</td>
<td>0.630</td>
<td>0.783</td>
<td>35</td>
<td>0.409</td>
<td>0.461</td>
<td>0.508</td>
<td>0.630</td>
<td>0.370</td>
<td>0.492</td>
</tr>
<tr>
<td>25</td>
<td>M25 x 1.5</td>
<td>3/4” or 1”</td>
<td>0.630</td>
<td>0.795</td>
<td>60</td>
<td>0.701</td>
<td>0.787</td>
<td>0.799</td>
<td>1.079</td>
<td>0.689</td>
<td>0.941</td>
</tr>
<tr>
<td>32</td>
<td>M32 x 1.5</td>
<td>1” or 1 1/4”</td>
<td>0.630</td>
<td>0.985</td>
<td>80</td>
<td>0.925</td>
<td>1.035</td>
<td>1.051</td>
<td>1.339</td>
<td>0.984</td>
<td>1.201</td>
</tr>
<tr>
<td>40</td>
<td>M40 x 1.5</td>
<td>1 1/4” or 1 1/2”</td>
<td>0.630</td>
<td>1.008</td>
<td>130</td>
<td>1.134</td>
<td>1.268</td>
<td>1.299</td>
<td>1.598</td>
<td>1.154</td>
<td>1.425</td>
</tr>
<tr>
<td>50</td>
<td>M50 x 1.5</td>
<td>2”</td>
<td>0.630</td>
<td>1.059</td>
<td>200</td>
<td>1.346</td>
<td>1.736</td>
<td>1.551</td>
<td>1.839</td>
<td>1.499</td>
<td>1.669</td>
</tr>
<tr>
<td>63</td>
<td>M63 x 1.5</td>
<td>2 1/2”</td>
<td>0.748</td>
<td>1.571</td>
<td>400</td>
<td>1.764</td>
<td>2.205</td>
<td>2.051</td>
<td>2.343</td>
<td>1.846</td>
<td>2.157</td>
</tr>
<tr>
<td>75</td>
<td>M75 x 1.5</td>
<td>3”</td>
<td>0.748</td>
<td>1.634</td>
<td>425</td>
<td>2.181</td>
<td>2.677</td>
<td>2.551</td>
<td>2.843</td>
<td>2.469</td>
<td>2.677</td>
</tr>
<tr>
<td>75</td>
<td>M75 x 1.5</td>
<td>3”</td>
<td>0.748</td>
<td>1.634</td>
<td>425</td>
<td>2.394</td>
<td>2.677</td>
<td>2.799</td>
<td>3.071</td>
<td>2.618</td>
<td>2.890</td>
</tr>
</tbody>
</table>

**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.
- Where glands are fitted into non-metallic enclosures they must be included within the earth circuit of the system.
- The user should seek expert advice if intending to combine flammable and combustible dust in one environment/installation.
- 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 will not be held responsible for clients’ installations where this has not been taken into account.
- To maintain the specified IP rating, clearance holes must be in accordance with EN 50026:1 Table 1 and the entry device should be suitably secured.
- 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 D-ring.
- All entry threads are nickel plated as standard.
- Gland kits can be supplied with a PTFE IP washer in order to maintain the temperature range if required.
Cable Gland Type UL-U (for Unarmoured Cables)

**Part Numbers:**

<table>
<thead>
<tr>
<th>U</th>
<th>L</th>
<th>B</th>
<th>S</th>
</tr>
</thead>
</table>

**Example Part Numbering**

UL-UBCK1/NP/20/075NPT

**Compliance**

UL2225 & UL514B

**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 & IEC 60529

**Certification:**

UL

Class I, Division 2, Gas Groups ABCD

ATEX

I IM 1D Ex e I Mb & Ic Gb / Ex e I Mb & Ic Gb / Ex ta I Ic Da

IECEx

Ex d I Mb & Ic Gb / Ex e I Mb & Ic Gb / Ex ta I Ic Da

GOST-R

Ex d I Mb & Ic Gb / Ex e I Mb & Ic Gb / Ex ta I Ic Da

CE

Modex Rules 4-3-9

LLOYDS

Enclosure Systems (Part 1B)

**Certificate No.:**

UL File No. E284936

ATEX SIRA 09ATEX1066X & SIRA 09ATEX4124X

ISEX SR 09.0033X

GOST-R POCC GRF.066.00853

ABS 09-LD46991A-PDA

LLOYDS 10/0006

**IP Rating:**

IP66 & IP68 (100 metres - 7 Days), NEMA 4X & DTS01 1991

**Operating Temperature:**

UL -25°C to +85°C

ATEX/IECEx -60°C to +135°C

**Materials:**

Brass or Stainless Steel

**Plating:**

Nickel

**Compound:**

Peppers T-1000 sealing compound

**Curing Time:**

@ 21°C

Conductor termination can be effected after 1 hour

The equipment can be energised after 4 hours.

**Cable Gland Type UL-U**

- **Type of gland featuring "CROCLOCK®", single orientation clamping:**
- **Accessories:**
  - NP Nickel Plated (NP)
  - Brass (B) / Stainless Steel (S)
- **Shrouds:**
  - PVC Shroud (C)
  - PCP Shroud (P)
  - LSOH Shroud (3)
  - Reduced Bore Seal (R)
  - Compound (Barrier) Inner Seal & Silicone Elastomeric Outer Seal (S)
- **Optional Accessories:**
  - IP Washers
  - Serrated Washers
- **Certificate No.**
  - UL
  - ATEX
  - IECEx
  - GOST-R
  - ABS
  - ABS 1-1-4/7.7, 4.8-3/1.7, 4-8-3/13 and 4-8-4/27.5

**Cable Gland SELECTION TABLE**

**Size**

**Entry Thread Size**

**ISO Thread Length [B]**

**NPT Thread Length [B]**

**Cable Acceptance Details**

**Nominal Profusion Length [L]**

**Dimensions/Weight**

**Shroud Size**

**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.
- Where glands are fitted into non-metallic Ex e enclosures they must be included within the earth circuit of the system.
- The user should seek expert advice if intending to combine flammable and combustible dust in one environment/installation.
- 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 will not be held responsible for clients’ installations where this has not been taken into account.
- To maintain the specified IP rating, clearance holes must be in accordance with EN 50262 Table 1 and the entry device should be suitably secured.
- 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 entry threads are nickel plated as standard.
- Gland kits can be supplied with a PTFE IP washer in order to maintain the temperature range if required.

**Example Part Numbering**

UL-UBCK1/NP/20/075NPT

**Options**

- Brass (B) / Stainless Steel (S)
- PVC Shroud (C) - PCP Shroud (P) - LSOH Shroud (3)
- Locknut & Nylon (K) or Fibre (V) IP Washer
- Including Serrated Washer
- Nickel Plated (NP)

**NP 75NPT**

3/4" NPT Entry Thread

**Optional Accessories**

- Locknut
- Brass (ACBLN) / Stainless Steel (ACSLN)
- Earth tag
- Brass (ACBET) / Stainless Steel (ACSET)
- IP Washers
- Nylon (ACN5W) / Fibre (ACF5W)
- Serrated Washers
- Stainless Steel (ACSSW)
- Shrouds
- PVC (ACSPVC) / PCP (ACSPCP) / LSOH (ACSSHO)

**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.
- Where glands are fitted into non-metallic Ex e enclosures they must be included within the earth circuit of the system.
- The user should seek expert advice if intending to combine flammable and combustible dust in one environment/installation.
- 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 will not be held responsible for clients’ installations where this has not been taken into account.
- To maintain the specified IP rating, clearance holes must be in accordance with EN 50262 Table 1 and the entry device should be suitably secured.
- 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 entry threads are nickel plated as standard.
- Gland kits can be supplied with a PTFE IP washer in order to maintain the temperature range if required.
“A” type glands 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 35 metres and is deluge proof without the use of an additional seal or deluge boot. Options are available for use with LSOH cables and extreme temperature applications.

Compliance with:
EN 50262, BS6121 & IEC 60529

IP Rating:
IP66 & IP68 (35 metres - 7 days)

Materials:
Brass
Stainless Steel
Aluminium

Plating:
Nickel
Zinc

Operating Temperature:
Neoprene Seals -30°C to +105°C
Silicone Seals -70°C to +200°C

Optional Accessories

Locknut Brass (ACBLN) / Stainless Steel (ACSSL)
Earth tag Brass (ACBET) / Stainless Steel (ACSET)
Serrated Washer Stainless Steel (ACSSW)
Shrouds PVC (ACSPVC) / PCP (ACSPCP) / LSOH (ACSSLIO)

Example Part Numbering
A2LBCK1/NP/20/050NPT
A Type of gland featuring controlled displacement sealing
2 Neoprene Seals (2) - Silicone (3) - Neoprene/Lead (1) - Silicone/Lead (4)
L Peppers Lightweight Design
B Brass (B) / Stainless Steel (S) / Aluminium (A)
C PVC Shroud (C) - PCP Shroud (P) - LSOH Shroud (3)
K or V Locknut & Nylon (K) or Fibre (V) ip Washer
T Including Earth Tag
S Including Serrated Washer
1 Quantity per kit
NP Nickel Plated (NP) - Zinc Plated (ZP)
20 Gland shell size
050NPT 1/2”NPT Entry Thread

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Outer Sheath [d] (mm)</td>
<td>Across Flats (mm)</td>
<td>Across Corners (mm)</td>
</tr>
<tr>
<td>16</td>
<td>M20 x 1.5</td>
<td>Metric NPT</td>
<td>16</td>
<td>4.0</td>
<td>8.4</td>
<td>33</td>
<td>25.4</td>
</tr>
<tr>
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<td>M20 x 1.5</td>
<td>Metric NPT</td>
<td>16</td>
<td>7.2</td>
<td>11.7</td>
<td>33</td>
<td>25.4</td>
</tr>
<tr>
<td>25</td>
<td>M25 x 1.5</td>
<td>Metric NPT</td>
<td>16</td>
<td>13.5</td>
<td>20.0</td>
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<td>37.6</td>
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<td>Metric NPT</td>
<td>16</td>
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<td>26.3</td>
<td>33</td>
<td>46.0</td>
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<td>Metric NPT</td>
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<td>28.1</td>
<td>38.2</td>
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<tr>
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<td>Metric NPT</td>
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<td>44.1</td>
<td>37</td>
<td>65.0</td>
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<tr>
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<td>Metric NPT</td>
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<td>46.7</td>
<td>56.0</td>
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<td>80.0</td>
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<td>M75 x 1.5</td>
<td>Metric NPT</td>
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<td>62.0</td>
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<td>90.0</td>
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<td>80</td>
<td>M80 x 2</td>
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<td>58.0</td>
<td>68.0</td>
<td>37</td>
<td>90.0</td>
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<td>M85 x 2</td>
<td>Metric NPT</td>
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<td>72.0</td>
<td>50</td>
<td>104.0</td>
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<td>78.0</td>
<td>50</td>
<td>104.0</td>
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<td>100</td>
<td>M100 x 2</td>
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<td>84.0</td>
<td>50</td>
<td>114.0</td>
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<td>110</td>
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<td>90.0</td>
<td>50</td>
<td>114.0</td>
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<tr>
<td>120</td>
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<td>87.0</td>
<td>102.0</td>
<td>88</td>
<td>135.0</td>
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<tr>
<td>130</td>
<td>M130 x 2</td>
<td>Metric NPT</td>
<td>25</td>
<td>97.0</td>
<td>112.0</td>
<td>88</td>
<td>145.0</td>
</tr>
</tbody>
</table>

Notes:
* Gland size does not necessarily equate to the entry thread size. Gland size 16 is also available with an M16 x 1.5 entry thread.
* Dimensions (A) & (B) may differ for glands with non metric entry threads. Please refer to our “Thread Reference Tables” for specific dimensions.
* Where glands are fitted into non-metallic enclosures they must be included within the earth circuit of the system.
* 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 will not be held responsible for clients’ installations where this has not been taken into account.
* To maintain the specified IP rating, clearance holes must be in accordance with EN 50262 Table 1 and the entry device should be suitably secured.
* All gland kits supplied with silicone seals will include a PTFE ip washer in order to maintain the temperature range.
EN 50262, BS6121 & IEC 60529

Compliance with:

Part Numbers:

Variations:

D****F Omission of Outer Seal

Plating:

Nickel - Zinc

Materials:

Brass

Silicone Seals -70ºC to +200ºC

Temperature:

Operating Neoprene Seals -30ºC to +105ºC

IP66 & IP68

IP Rating:

Brass versions to UK Highway Agency Specification available upon request

Aluminium versions comply with UK Highways Agency Specifications

Notes:

Gland Type E -

• Website: www.cableglands.com

Email: +44 (0) 1276 64232

+44 (0) 1276 691752

• Facsimile:

Stanhope Road, Camberley, Surrey, GU15 3BT United Kingdom

Peppers Cable Glands Limited

90 M90 x 2 3 1/2” or 4” 25 74.0 84.0 88.0 96.0 82.0 91.4

85 M85 x 2 3” or 3 1/2” 25 69.0 78.0 79.6 83.0 69.0 78.4

80 M80 x 2 3” or 3 1/2” 25 62.5 72.0 73.8 80.0 63.0 72.4

75 M75 x 1.5 1 1/2” or 2” 19 45.5 56.0 58.4 65.8 53.8 61.2

63S M63 x 1.5 2” or 2 1/2” 19 49.5 56.0 58.4 65.8 53.8 61.2

50 S M50 x 1.5 2” 19 36.5 44.1 45.7 53.2 41.1 48.5

20 M20 x 1.5 1/2” or 3/4” 16 13.0 20.0 20.3 27.4 16.8 23.9

90 M90 x 2 3” or 3 1/2” 25 74.0 84.0 92.0 102.0 84.7 97.4

120 M120 x 2 3” or 3 1/2” 25 82.0 90.0 92.0 102.0 84.7 97.4

110 M110 x 2 25 87.0 102.0 100.0 117.0 - -

120 M120 x 2 - 25 97.0 112.0 110.0 127.0 - -

130 M130 x 2 - 25 107.0 122.0 120.0 137.0 - -

All dimensions in mm

Notes:

* Gland size does not necessarily equate to the entry thread size. Gland size 16 is also available with an M16 x 1.5 entry thread.

* Dimensions (A) & (B) may differ for glands with non-metric entry threads. Please refer to our "Thread Reference Tables" for specific dimensions.

* Where glands are fitted into non-metallic enclosures they must be included within the earth circuit of the system.

* 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 will not be held responsible for clients' installations where this has not been taken into account.

* To maintain the specified IP rating, clearance holes must be in accordance with EN 50262 Table 1 and the entry device should be suitably secured.

* For gland size 20 the silicon inner seal has a minimum diameter of 11.0mm and NOT 6.7mm

* All gland kits supplied with silicon seals will include a PTFE IP washer in order to maintain the temperature range.
**Cable Gland Type C - (Single Compression for Armoured Cables)**

**Part Numbers:**

<table>
<thead>
<tr>
<th>C</th>
<th>W</th>
<th>B</th>
<th>* *</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>X</td>
<td>S</td>
<td>IE</td>
</tr>
<tr>
<td>Z</td>
<td>A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

"C" type single compression glands are 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 (X) or tape (Z) armoured cables. The "IE" version allows the gland to be used with HV cables where the fault load is greater than 10.4kA and options are available for use with LSOH cables and extreme temperature applications.

**Compliance with:**

EN 50262, BS6121 & IEC 60529

**IP Rating:**

IP66

**Operating Temperature:**

Neoprene Seals: -30ºC to +105ºC

Silicone Seals: -70ºC to +200ºC

**Materials:**

- Brass versions to UK Highway Agency Specification available upon request
- Aluminium versions comply with UK Highways Agency Specifications
- Brass (B) / Stainless Steel (S) / Aluminium (A)

**Plating:**

- Nickel
- Zinc

Aluminium versions comply with UK Highways Agency Specifications

Brass versions to UK Highway Agency Specification available upon request

**Optional Accessories**

- Locknut
- Earth tag
- IP Washers
- Serrated Washers
- Shrouds

**Cable Gland Selection Table**

- **Gland Size**
- **Entry Thread Size**
- **ISO Thread Length (B)**
- **Cable Acceptance Details**
- **Armour Acceptance Range**
- **Nominal Protrusion Length (H)**
- **Dimensions/Weight (Metric)**
- **Metric Thread Size/Thread Size (Inch)**

**Notes:**

- Gland size does not necessarily equate to the entry thread size. Gland size 16 is also available with an M16 x 1.5 entry thread.
- Dimensions (A) & (B) may differ for glands with non metric entry threads. Please refer to our "Thread Reference Tables" for specific dimensions.
- Where glands are fitted into non-metallic enclosures they must be included within the earth circuit of the system.
- 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 will not be held responsible for clients' installations where this has not been taken into account.
- To maintain the specified IP rating, clearance holes must be in accordance with EN 50262 Table 1 and the entry device should be suitably secured.
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- To maintain the specified IP rating, clearance holes must be in accordance with EN 50262 Table 1 and the entry device should be suitably secured.
- All gland kits supplied with silicone seals will include a PTFE IP washer in order to maintain the temperature range.

**Example Part Numbering**

(See below for details)

C1WBCK1/NP/20/050NPT

**Part Numbers:**

- Brass (B) / Stainless Steel (S) / Aluminium (A)

**Materials:**

- Neoprene Seals (C1) - Silicone (C3)

**Plating:**

- Nickel
- Zinc

**Locknut**

- Brass (ACBLN) / Stainless Steel (ACSLN)

**Earth tag**

- Brass (ACBT) / Stainless Steel (ACSET)

**IP Washers**

- Nylon (ACNSW) / Fibre (ACFSW)

**Serrated Washers**

- Stainless Steel (ACSSW)

**Shrouds**

- PVC (ACSPVC) / PCP (ACSCP) / LSOH (ACSSO)

**Examples:**

- **C1**
  - Type of gland featuring armour specific clamping
  - Neoprene Seals (C1) - Silicone (C3)

- **W**
  - SWA (W) / SWB or STA (X)

- **B**
  - Brass (B) / Stainless Steel (S) / Aluminium (A)

- **K or V**
  - Locknut, Earth Tag & Nylon (K) or Fibre (V) IP Washer

- **K**
  - Including Serrated Washer

- **NP**
  - Nickel Plated (NP) - Zinc Plated (2P)

**20**

- Gland shell size

050NPT

1/2"NPT Entry Thread

**Options**

- Including Serrated Washer

- 1 Quantity per kit

- NP Nickel Plated (NP) - Zinc Plated (2P)

**Dimensions per kit**

- 0.45-1.00 110 104.0 115.2 2.515 L104
- 0.45-1.00 110 104.0 115.2 2.874 L104

**Weight Kg**

- 80.0 88.0 1.073 L80

**Dimensions/Weight (Metric)**

- Across Flats
- Across Corners
- Weight Kg
- Metric Thread

**Thread Size (Inch)**

- 0.8 0.15-0.35 40 24.0 26.5 0.139 L40
- 0.8 0.15-0.35 32 26.0 28.3 0.165 L32

**Weight Kg**

- 0.8 0.15-0.35 60 30.0 33.0 0.180 L60
- 0.8 0.15-0.35 75 35.0 38.7 0.242 L75
- 0.8 0.15-0.35 85 40.0 44.0 0.292 L85

**Weight Kg**

- 0.8 0.15-0.35 100 45.0 50.0 0.408 L100
- 0.8 0.15-0.35 110 50.0 55.0 0.642 L110

**Weight Kg**

- 0.8 0.15-0.35 115 55.0 60.0 0.642 L115
- 0.8 0.15-0.35 120 60.0 65.0 0.716 L120

**Weight Kg**

- 0.8 0.15-0.35 125 65.0 71.5 0.947 L125
- 0.8 0.15-0.35 130 70.0 76.0 1.322 L130

**All dimensions in mm**

**Notes:**

- * Gland size does not necessarily equate to the entry thread size. Gland size 16 is also available with an M16 x 1.5 entry thread.
- Dimensions (A) & (B) may differ for glands with non metric entry threads. Please refer to our "Thread Reference Tables" for specific dimensions.
- Where glands are fitted into non-metallic enclosures they must be included within the earth circuit of the system.
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- To maintain the specified IP rating, clearance holes must be in accordance with EN 50262 Table 1 and the entry device should be suitably secured.
- All gland kits supplied with silicone seals will include a PTFE IP washer in order to maintain the temperature range.
LOCKNUTS

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.

Order Code | Example
--- | ---
Brass | ACBLN/M20
Brass Nickel Plated | ACBNP/M20
Stainless Steel | ACSSW/M20
Aluminium | ACALN/M20
Nylon | ACNLN/M20

Note: Dimensions shown are only applicable to metallic locknuts

EARTH TAGS

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.

Order Code | Example
--- | ---
Brass | ACBET/M20
Brass Nickel Plated | ACBNP/M20
Stainless Steel | ACSET/M20
Aluminium | ACASET/M20

IP WASHERS

In order to maintain the integrity of an enclosure greater than IP54, washers are recommended to be installed at the gland entry interface.

Order Code | Example | Temperature
--- | --- | ---
Fibre | ACFSW/M20 | -40°C to +95°C
Nylon | ACNFSW/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

Serrated or "shave 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.

Order Code | Example
--- | ---
Stainless Steel | ACSSW/M20

SHROUDS

Peppers manufacture a range of shrouds in various materials to complement our complete range of glands. Materials available are Polyvinyl Chloride (PVC), Polyethylene (PC), and Polypropylene (PP). 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 product page.

Order Code | Example | Temperature
--- | --- | ---
PVC | ACSPVC/124 | -25°C to +70°C
PCP | ACSPCP/124 | -30°C to +100°C
LSZH | ACSSD/124 | -60°C to +200°C
**Enclosure Accessories**

**TYPE A & B PLUGS - METALLIC**

*“SPAR” & “SPB” Series Certified Metallic Stopping (Blanking)*

Plugs provide a method of sealing unused entry threads in Ex equipment. They maintain Ex d method of explosion protection and IP66 for IEC type applications. In addition they are approved to Class I Division 1 and NEMA 3 for CEC type applications. Type SPB are externally recessed and type SP are tamperproof.

**Options:**

- **Plating:**
  - Brass, Stainless Steel or Aluminium
  - Aluminium not suitable for Group I Applications

**Materials:**

- Brass, Stainless Steel or Aluminium

**Certification:**

- ATEX
- GOST - R

**IP Rating:**

- IP64 & NEMA 3

**Options:**

- Nickel - Zinc

**HEX HEAD TYPE PLUGS - METALLIC**

*“SPMH” Series Certified Metallic Stopping (Blanking)*

Plugs provide a method of sealing unused entries in Ex equipment. They maintain Ex d / Ex e methods of explosion protection and IP66, IP68 for IEC type applications. In addition they are approved to Class I, Division 1 and NEMA 4X for CEC type applications.

**Options:**

- **Plating:**
  - Nickel - Zinc
- **Materials:**
  - Brass, Stainless Steel or Aluminium
  - Aluminium not suitable for Group I Applications

**Certification:**

- ATEX
- GOST - R

**IP Rating:**

- IP66 & IP68 & NEMA 4X

**Options:**

- Nickel - Zinc

**METALLIC ADAPTORS & REDUCERS**

*“AR” Series Dual Certified Adaptors & Reducers* provide a method of matching electrical thread forms on Ex equipment whilst maintaining Ex d / Ex e methods of explosion protection. In addition they are approved to IP66 & IP68 for IEC type applications and Class I, Division 1 and NEMA 4X for CEC type applications.

**Options:**

- **Plating:**
  - Nickel - Zinc
- **Materials:**
  - Brass, Stainless Steel or Aluminium

**Certification:**

- ATEX
- GOST - R

**IP Rating:**

- IP66 & IP68 & NEMA 4X

**Options:**

- Male x Male, Female x Female, Earth Lead, Nylon and Round Adaptors/Reducers and Insulated Adaptors. Please contact our sales team for further information as details may vary.

**METALLIC 90 DEGREE ADAPTORS**

*“ACDP” Series Breather Drain* provides a method of effectively draining any moisture within an enclosure whilst allowing the air inside to breathe with the surrounding atmosphere. “ACDP” Series Breather Drains maintain Ex e method of protection and IP66 for IEC type applications. A Castellated Locknut is supplied with every Breather Drain.

**Options:**

- **Plating:**
  - Nickel - Zinc
- **Materials:**
  - Brass, Stainless Steel or Aluminium

**Certification:**

- ATEX
- GOST - R

**IP Rating:**

- IP66

**Options:**

- Female x Female. Please contact our sales team for further information as details may vary.

**Notes:**

* Assembly instructions must be read prior to installation and adhered to in full.
* To maintain the specified IP rating, clearance holes must be in accordance with EN 500262 Table 1 and the entry device should be suitably secured.
* For Ex applications female threads must comply with clause 5.3 of IEC 60079-1
* ATEX versions are supplied as standard. If additional approvals are required they must be requested at time of order.
* Where applicable the standard O-ring material is Nitrile. Other options are available upon request.
### ISO Metric / NEC 6433

<table>
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<tr>
<th>Thread Type</th>
<th>Thread</th>
<th>Peppers Reference</th>
<th>Pitch</th>
<th>TPI</th>
<th>Major Dia</th>
<th>Thread Length</th>
<th>Gland Min A/C</th>
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### Adaptor / Reducer Options

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<th>NPT FEMALE SIZES</th>
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</table>

A = Certified Adaptor / R = Certified Reducer

All blank options are available as an industrial version
**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:

1. There must be two electrochemically dissimilar metals present but not necessarily in direct contact with each other.
2. There must be an electrically conductive path between the two metals.
3. 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.

---

**CR-S*M - A NEW CONCEPT**

**Connecting Ex d Junction Boxes**

So how do you connect two Ex d – Flameproof enclosures?

Most installations do not call for enclosures to be connected together but what do you do if you need to connect two (or more) Ex d enclosures within a Zone 1 hazardous area?

Traditional practice has been to use a compound barrier gland mounted at the entry of both enclosures with a length of cable or conduit. In the event of an ignition or explosion inside one of the enclosures this practice prevents the transmission of the explosion to the other enclosure. Whilst this will maintain the integrity of the installation it carries significant cost implications.

Peppers can now provide a substantially more cost effective solution for this type of installation. Peppers CR-S*M range of barrier glands can now be installed directly between two Ex d enclosures. Tested in accordance with IEC / EN 60079-1 the gland is capable of maintaining the integrity of the installation having passed pressure and sealing tests from both directions to simulate the event of an explosion in either enclosure. Supplied with two male threads, the gland allows conductors to pass through the compound ensuring that a flameproof seal is maintained for each enclosure. In the event of an explosion within one enclosure the CR-S*M gland will prevent any transmission to the second enclosure or the surrounding atmosphere.

---

**PEPPERS T-1000 Barrier/Sealing 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 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.

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

---

**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.

---

**Thread Standard/Gauging**

ISO M IEC 60423, 6g fit - M16 to M75 1.5mm pitch, M80 to M100 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

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

PG DIN 40430, 1971
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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.

<table>
<thead>
<tr>
<th>INGRESS PROTECTION (IP) CODE IEC 60529</th>
<th>NEMA TESTING APPROXIMATE EQUIVALENT TO IPXX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protection against solid objects</td>
<td>Protection against water</td>
</tr>
<tr>
<td>0 - No special protection</td>
<td>0 - No special protection</td>
</tr>
<tr>
<td>1 - Objects &gt; 1mm diameter (e.g. pin)</td>
<td>1 - Vertically dropping water</td>
</tr>
<tr>
<td>2 - Objects &gt; 2.5mm diameter (e.g. nail)</td>
<td>2 - Vertically dripping water when enclosed tilted by 15°</td>
</tr>
<tr>
<td>3 - Objects &gt; 5mm diameter (e.g. screw)</td>
<td>3 - Sprayed water up to 60° from the vertical</td>
</tr>
<tr>
<td>4 - Objects &gt; 12.5mm diameter (e.g. wire)</td>
<td>4 - Sprayed water from all directions</td>
</tr>
<tr>
<td>5 - Dust protected</td>
<td>5 - Water yes</td>
</tr>
<tr>
<td>6 - Dust tight</td>
<td>6 - Powerful water jets</td>
</tr>
<tr>
<td>7 - Temporary submersion to a depth of 1m</td>
<td>7 - Temporary submersion to a depth of 1m</td>
</tr>
<tr>
<td>8 - Extended submersion to a depth of 3m</td>
<td>8 - Extended submersion to a depth of 3m</td>
</tr>
</tbody>
</table>

N.B. For Group I applications, apparatus has rigid 150°C (coal dust) and 450°C (methane) limits rather than T classes.

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.

<table>
<thead>
<tr>
<th>TEMPERATURE CLASS (GROUP II)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Surface Temperature</td>
</tr>
<tr>
<td>450°C</td>
</tr>
<tr>
<td>300°C</td>
</tr>
<tr>
<td>200°C</td>
</tr>
<tr>
<td>135°C</td>
</tr>
<tr>
<td>100°C</td>
</tr>
<tr>
<td>85°C</td>
</tr>
</tbody>
</table>

N.B. For Group I applications, apparatus has rigid 150°C (coal dust) and 450°C (methane) limits rather than T classes.

IS A BARRIER GLAND REQUIRED?

Selection chart for cable entry devices into flameproof enclosures for cables complying with item b) of Section 10.4.2.b.

On condition the cable gland is not certified as part of the equipment but tested and certified as a separate component and the used cable is substantially compact and circular the selection chart above taken from section 10 of EN/IEC60079-1 can be used.

Start

Apply 10.4.2

Is the area of installation Zone 1?

Yes

No

Is the volume of the enclosure greater than 2 dm³?

Yes

No

Does this enclosure contain an internal source of ignition?

Yes

No

Use a suitable flameproof cable entry device with a sealing ring

Is the hazardous gas require IEC apparatus?

Yes

No

Is a barrier gland required?

Yes

No

Barrier Gland Required

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 cause any electro-magnetic interference in other equipment.

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 1, 1992.

Ex Standards do not cover the requirements of cable glands for HV cable. BS 6121 Part 5 Section 4.6.2 for non integral earth connections suggests that if the short circuit for 1 second is more than 10.4kA we then revert to section 4.6.3 “Integral Earth Connection” where the short circuit rating for 1 second is between 26 & 43kA.

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 1, 1992.

Ex Standards do not cover the requirements of cable glands for HV cable. BS 6121 Part 5 Section 4.6.2 for non integral earth connections suggests that if the short circuit for 1 second is more than 10.4kA we then revert to section 4.6.3 “Integral Earth Connection” where the short circuit rating for 1 second is between 26 & 43kA.

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.
General Information

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 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 service 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.

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