CMP Cable Glands & Accessories
CMP Products

What We Promise for Your Business

CMP Products is a market leading specialist designer, manufacturer, and supplier of cable glands, cleats and accessories. Established as part of British Engines group in 1957, we have ensured that our customers remain at the heart of everything that we do, wherever they are around the world.

We believe in setting standards for quality and service, and leading the way in product innovation, whilst maintaining integrity, safety and reliability. This means that whether our products are used for onshore or offshore oil and gas installations, in power generation, transportation infrastructure, or for surface or underground mining applications, they always protect the safety of your people and your infrastructure.

By remaining focused on this commitment to our customers, our business has grown to become a world leader in our market, continuing to provide assurance of the highest standards of quality and service.

Innovation in Products & Solutions

Evolving technical standards and stringent certification processes have helped to drive innovation at CMP. As a market leader in cable gland and cleat technology, we invest heavily in advanced manufacturing techniques, dedicated IT systems and effective training for our employees and customers.

The solutions chosen by our customers are often rigorously tested to perform above and beyond the normal standards, since they are used in progressively demanding applications and environments.

People & Networks

CMP’s structure allows us the flexibility to meet these continuously evolving needs, and we nurture this culture further by recruiting specialist, highly talented people in all areas of our business.

We have also formed excellent relationships with the people and organisations that do business with us, developing alliances with distributors and end-users internationally. This network is key to our strategy for bringing products to a worldwide market, via a strategic global distribution network reflective of our business.

Customer Care

Putting the customer at the centre of what we do and ensuring a positive experience for everyone we work with is a vital part of our vision.

An Introduction to Cable Glands

Cable Glands are mechanical cable entry devices, which can be constructed from metallic or non-metallic materials or a combination of both, and are used throughout all industries in conjunction with cable and wiring used in the electrical, instrumentation, control and automation systems.

Cable Glands may be used on all types of electrical power, control, instrumentation, data and telecommunications cables and are used as sealing/terminating devices to ensure that the characteristics of the enclosure which the cable enters can be safely maintained. The main functions of the Cable Gland, depending on type, are listed briefly as follows:

- Provide a holding force on the cable to ensure adequate levels of cable pull out resistance, and prevent lateral and axial loads being applied to the internal cable conductor terminations.

- Provide additional sealing on the part of the cable entering the enclosure, when a high degree of ingress protection is required.

- Provide additional environmental sealing at the cable entry point, maintaining the ingress protection rating of the enclosure and cable gland combination, with the selection of applicable accessories dedicated to performing this function.

- Constructed from corrosion-resistant materials determined by selection to a technical standard, or by corrosion resistance tests.

When used in explosive atmospheres it is crucial that Cable Glands are selected correctly according to the specified installation code or standard requirements, taking into account any certification limitations or conditions of use, are approved for the type of cable selected, and maintain the level of protection of the equipment to which they are attached.

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CMP Products Cable Gland Range

- Industrial Cable Glands
- SOLO - Low, Smoke & Fume Cable Glands
- CIEL - Cast Integral Earth Lug Equipped Cable Glands
- ZEN - Insulated Cable Glands
- Explosive Atmosphere Cable Glands
- RapidEx Resin Barrier Cable Glands
- Compound Barrier Cable Glands
- ThermEx & Thermln - High Temperature Cable Glands
- Flat-Form Cable Glands
- Mining Cable Glands
- North American Cable Glands

CMP Products Accessory Range

- Adaptors & Reducers
- Stopper Plugs
- Breather / Drain Plugs
- Unions
- Installation Accessories
- Installation Tools
Why Choose CMP Products?

**Quality Assurance & Reliability**

CMP Products has an international reputation for quality and reliability and is highly regarded as the leading specialist in the design and manufacture of cable glands and accessories for industrial and explosive atmospheres.

This position as market leader is maintained by listening to our customers and understanding their needs, to ensure that our solutions are practical to install and fully compliant with the latest industry standards and specifications.

In recognition of the need to demonstrate and maintain standards, CMP Products has attained approval as a ‘quality assured’ company, covering the design and manufacture of Cable Glands, Cable Cleats and associated accessories. Our Quality Management System is approved to ISO 9001:2008 and Environmental Management System ISO 14001 with our 3rd party periodic audit and ongoing approval is performed by Bureau Veritas.

**Research & Development**

Research and development (R&D) is fundamental to the successful advances made with our product innovations and is a major contributor to helping customers achieve reciprocal success, whilst setting CMP apart from the rest of the market. R&D at CMP Products is powered by an engineering community of highly skilled technical experts in several locations around the world.

Such a comprehensive R&D team allows us to create bespoke solutions to meet the needs of our customers, which in turn can be thoroughly tested in our on-site certified laboratory and additionally third party certified if required.

**Material Selection**

We use only the best quality materials to suit the arduous conditions that our products often face. Our brass Cable Glands are produced using material grade CuZn39Pb3 (CW614N) to EN 12168 and EN 12164, stainless steel Cable Glands are produced using material grade 316L to BS EN 10088:Part 3, and copper free aluminium Cable Glands manufactured from grade AW-6262 to EN 573-3. Polymer components and products are also produced in Low Smoke & Fume (LSF), Low Smoke Zero Halogen (LSZH or LS0H), or Zero Halogen Low Smoke (ZHLS) materials. CMP Products believes strongly in providing value and does not compromise in its choice of materials that could otherwise jeopardise its ultra-high quality solutions.

**Compliance with Current Standards**

CMP Products leads the way in the application of technical standards and with a dedicated certification team we design, manufacture and supply products that are compliant with all of the latest standards for IEC, NEC and CEC based installations.

**Technical Support & Training**

With several offices spread across six continents including Europe, the Americas, Australia, Asia and Africa we are able to satisfy the worldwide demand for comprehensive training in the installation of our products.

Attendees at all CMP training courses will receive a certificate of proficiency following successful completion. We also provide installation videos, as well as technical support and practical demonstrations at your premises or on-site.

**Global Certification**

CMP Products remains in constant touch with the changes in development of national and international technical standards, and consequently is able to offer product solutions that are certified for multiple applications around the world. This entails a number of single off-the-shelf product solutions marked with Global Certification as standard.

International explosive atmospheres approvals held include ATEX, IECEx, cCSAus, CSA, UL, KCS, NEPSI, CIDET, CCfE, PESO, RETIE, EAC, INMETRO, and Global Marine Approvals.
CMP Products Cable Glands - The Key Features

1. Unique Independent Inner Sealing

The CMP inner sealing principal is quite different from other cable gland types and because the activation of the inner sealing ring is separated from the armour clamping components this means that the possibility of inadvertent over-tightening is eliminated. Unlike traditional compression seals that have no means of direct control on their application, the CMP inner sealing technique is achieved using a displacement seal that is independently controlled by the user during installation.

The Compensating Displacement Seal System (1) has helped CMP to take its original displacement sealing ring concept to another level. The unique Compensator has allowed the cable gland components to be fully tightened metal-to-metal and relieve the potential excess forces that could be transferred to the cable bedding, eliminating cable damage.

2. Secure Armour Termination

CMP Products’ armour clamping method involves a unique termination solution that ensures a permanent crimping of the cable armour, creating a low impedance connection that does not suffer from self-loosening. The patented AnyWay™ clamping ring aids an easy ‘Right First Time’ installation. Secure armour clamping like this also contributes to enhanced levels of EMC performance as well as reliable earth continuity.

3. Outer Seal

The unique CMP Products Outer Seal Tightening Guide (OSTG) and Load Retention Sealing Ring (LRS) ensure an IP/NEMA rated seal is formed against the cable to the CORRECT degree. This is also applicable to our sealing rings on unarmoured Cable Glands.

4. Proven Internally Enclosed Deluge Seal

CMP Products integrated ‘O’ ring deluge seal (tested to DTS 01:91) prevents corrosion of the cable armour by ensuring that moisture cannot track around the Cable Gland threads and into the armour termination body. As an internally enclosed deluge seal the ‘O’ ring is protected from mechanical damage and harmful UV rays.

Barrier Glands Made Easy

RapidEx is a liquid pour, fast curing, liquid resin barrier seal that installs in seconds and cures in minutes.

Its unique formula begins with a low viscosity liquid that flows into the cable interstices completely surrounding the cable conductors, and in the process, displacing the air from the Cable Gland’s sealing chamber ensuring the ‘Perfect Seal’.

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Selecting the Correct Cable Gland & Accessories

The following steps together with the information throughout this catalogue will ensure that the CMP Cable Gland selected will be fit for purpose and perform to relevant specifications.

• Identify the type of cable to be used
• Check the construction, size and material properties of the cable

When the cable is armoured, check the following:

• The type and material of the cable armour*
• The short circuit fault current rating of the cable armour**
• The diameter of the inner bedding (where present) ‘A’
• The diameter of the lead covering (where present)
• The size of the overall cable diameter ‘B’
• The size and type of armour or braid (where present) ‘C’

Understanding the installation the Cable Gland is intended, Check the following:

• Any special environmental requirements in relation to corrosion protection
• The material of the mating electrical enclosures to eliminate dissimilar metals where possible
• Whether any protective plating or coating is required to be applied to the Cable Gland, e.g. Nickel Plating
• The type and size of the cable entry hole in the mating electrical equipment
• The wall thickness of the enclosure or gland plate, as a longer cable gland thread may be required
• The ingress protection rating of the electrical equipment or site standard required to be maintained
• Whether a single seal or double seal Cable Gland is required
• If an entry thread sealing washer is required to meet the ingress protection rating
• Is there a deluge protection requirement ‘D’
• If fixing accessories such as locknuts and serrated washers are required
• If an earth tag is required**
• If shrouds are required
• If a thread conversion adaptor/reducer is required to complete the installation
• If any stopper plugs are required to close unused cable entries
• Select a Cable Gland type

For installations in explosive atmospheres, special considerations should be taken into account to ensure compliance with national or international standard codes of practice.

Accessory Selection

In addition to entry thread sealing washers, CMP also provides locknuts, earth tags, serrated washers and shrouds as required, which should be used as appropriate to the installation standard or equipment configuration.

These CMP accessories may be critical to the safety of the installation and overall performance, it is vital that the CMP accessories are correctly specified and installed. Accessories are not typically included with the cable glands as standard, unless a cable gland pack/kit is ordered.

In order to maintain product warranty it is vital that genuine CMP accessories are used for installation of CMP cable glands. Compatibility of material selection, short circuit rating (in the case of earth tags) and sealing performance (in the case of sealing washers) cannot be guaranteed if accessories from other sources are used.

*If the cable armour is of a non-standard material, e.g. Aluminium Wire Armour, it may be necessary to consider an alternative Cable Gland material, e.g. Aluminium.

**For certain medium voltage and high voltage cables CIEL Cable Glands may be required.
Typical Configurations

The illustrations provided below are indicative of some of the common methods of installation configurations adopted. These are for informative guidance only and relevant site conditions and Engineering Specification along with any specified National or International Codes of Practice must always take precedence.

PARALLEL THREADED CABLE GLAND THROUGH CLEARANCE HOLE

Earth continuity may be achieved via Earth Tag when specified.
- Locknut (L. 2 mm).
- Sealing Washer (2.5 mm).
- 10 Gauge Stainless Steel Screen (Width 6 mm) — Total: 6.4 mm.
- Cable gland Thread Length = 15.9 mm.

PARALLEL X PARALLEL ADAPTOR THROUGH CLEARANCE HOLE

Earth continuity may be achieved via Earth Tag when specified.
- Locknut (L. 2 mm).
- Sealing Washer (2.5 mm).
- 10 Gauge Stainless Steel Screen (Width 6 mm) — Total: 6.4 mm.
- Cable gland Thread Length = 15.9 mm.

PARALLEL threaded CABLE GLAND INTO THREADED ENCLOSURE

Earth continuity may be achieved via Earth Tag when specified.
- Locknut (L. 2.5 mm).
- Sealing Washer (2.5 mm).
- 10 Gauge Stainless Steel Screen (Width 6 mm) — Total: 6.4 mm.
- Cable gland Thread Length = 15.9 mm.

TAPER threaded CABLE GLAND THROUGH CLEARANCE HOLE

Earth continuity may be achieved via Earth Tag when specified.
- Locknut (L. 2.5 mm).
- Sealing Washer (2.5 mm).
- 10 Gauge Stainless Steel Screen (Width 6 mm) — Total: 6.4 mm.
- Cable gland Thread Length = 15.9 mm.

TAPER threaded CABLE GLAND INTO THREADED ENCLOSURE

Earth continuity achieved via threaded entry.
- Note that care needs to be taken to ensure that adequate tightening torque is applied to the enclosure when the gland is secured.
- Cable gland Thread length = 15.9 mm.

TAPER X TAPERED ADAPTOR INTO THREADED ENCLOSURE

Earth continuity may be achieved via Earth Tag when specified.
- Locknut (L. 2 mm).
- Sealing Washer (1.5 mm).
- 20 Gauge Stainless Steel Screen (Width 6 mm) — Total: 6.4 mm.
- Cable gland Thread Length = 15.9 mm.

* IP67, IP68 Rating with Deluge Seal  ** IP67, IP68 Rating with Deluge seal and appropriate thread grease on tapered threads

CMP NPT threads do not require additional sealing for IP66 since a male CMP NPT thread fitted to an enclosure/equipment with a female NPT entry thread will maintain equipment ingress Protection ratings of IP66 without additional sealing (1), provided CMP Installation Fitting Instructions are followed and the threads are ‘wrench tight’.

(1) The mating female thread must be machined with the full female thread depth, in compliance with the dimensions and tolerances detailed in the NPT Thread Standard ANSI / ASME B1.20.1.2013. It should be noted that all female NPT threads supplied by CMP are machined in full compliance with this Standard.
Maintaining the Integrity of the Installation

Sealing Performance

The continuing technical integrity of installations requires significant attention to detail in sealing ring suitability, reliability and functional performance. Three things that can affect this performance include the choice of materials, cable sealing design, and an effective and validated testing programme. Examples of testing include thermal endurance, ingress protection and cable anchorage, twist and pull out resistance tests. CMP Products has excelled in this process and offers the widest temperature rating of any standard cable gland (-60°C to +130°C). CMP Products Cable Glands are 3rd party certified to IEC 62444, IEC 60079, UL SL14B and are included in the London Underground register of products. This allows customers to make selection decisions safe in the knowledge that nothing has been left to chance.

The unique CMP Products Seal Tightening Guides (STG) shown below allows the user to determine the number of turns that should be applied to the sealing ring, in order to ensure the correct installation is achieved. The STG also has the added feature of verifying the recommended cable gland size for the section of cable to be used.

Armour Clamping - Right First Time

The CMP Products armour clamping technique offers a level of reliability, and inspectability, that is unrivalled. The armour cone and AnyWay™ clamping ring are designed to be fully tightened, metal-to-metal, in a ‘Right First Time’ termination that securely captivates the armour wires in the crimping process. CMP Products Cable Glands’ internal armour termination is engineered to secure on installation for the life-time of the product, providing added cable security. They are designed to terminate a range of armour sizes in all available forms including single wire armour, pliable wire armour, wire braid, strip and tape armours. The specific ranges shown on the product pages of this catalogue indicate which armour cone should be used for a given armour type, size and application. CMP Products’ SWA™ armour cone clamping ranges closely follow the specified armour wire criteria in IEC 605021, as well as BS & AS/NZS standards. However in cases where the cable is non-standard, alternative armour clamping components for oversized and undersized armour wires are available upon request.

More information on products for use with non-standard armour wire products please see page 10

Reliable Earth Continuity

Potential equalisation, or equipotential bonding, could be adversely affected by cable glands that either do not clamp the armoured cables effectively, or otherwise suffer from self-loosening. The CMP Products armour clamping method ensures that a low impedance termination is created, which does not suffer from self-loosening and in turn facilitates a reliable earth path. As shown below, the armour clamping maintains guaranteed cable security and earth continuity for the life-time of the cable gland.

Maintaining Ingress Protection

 CMP Products accessories are available to maintain the Ingress Protection level of the Cable Gland and enclosure.

Parallel Threads - For Explosive Atmospheres, IEC 60079-14 states that when the cable entry is via a parallel threaded hole, it is possible to achieve an ingress protection rating of IP54 without a sealing washer being used. Provided always that the threaded enclosure or cable gland plate is a minimum of 6 mm thick, and the axis of the cable entry is perpendicular to the enclosure or cable gland plate.

For enclosures with a parallel threaded hole that require a IP55, IP65 or IP66 level of ingress protection, a CMP Products nylon entry thread sealing washer must be used; without this sealing washer, the desired level of protection is unlikely to be maintained between the Cable Gland and the enclosure. To achieve and maintain ingress protection ratings of IP67 or IP68, a CMP Products nylon entry thread sealing washer must be used and the Cable Gland must be rated for the application (1).

Tapered Threads - When Cable Glands with tapered threads are installed into taper threaded holes, an entry thread sealing washer cannot be fitted due to the conical nature of the thread. IP66 will be maintained with no additional sealing if the connection is ‘wrench tight’ (2) but to achieve and maintain ingress protection ratings of IP67 or IP68, thread grease must be used on tapered threads and the Cable Gland must be rated for the application (1) (2).

Clearance Holes - Where the cable entry is via a through or punched clearance hole and the application requires an IP54, IP55, IP65 or IP66 level of ingress protection, a CMP Products nylon entry thread sealing washer must be used; without this sealing washer, the desired level of protection is unlikely to be maintained between the Cable Gland and the enclosure. To achieve and maintain ingress protection ratings of IP67 or IP68, a CMP Products nylon entry thread sealing washer must be used and the Cable Gland must be rated for the application (1).

Note: Some CMP products are available with integrated ‘O’ ring interface seals which perform an identical function to CMP nylon entry thread seals.

For best long term ingress protection performance and integrity CMP Products recommends its nylon entry thread sealing washers. Fibre sealing washers can be supplied upon request but will not perform as well in hostile conditions.

(1) If terminating armoured cable an additional deluge seal is required to protect the armour termination.

(2) The mating female thread must be machined with the full female thread depth, in compliance with the dimensions and tolerances detailed in the NPT Thread Standard ANSI / ASME B1.20.1-2013. It should be noted that all female NPT threads of any product supplied by CMP are machined in full compliance with this Standard.
How to Order

On each of the main Cable Gland product pages in this catalogue you will find a Cable Gland selection table which includes the part number; typically of a standard metric product, for ordering purposes. The part number is composed of the CMP size, type number, and standard suffix. The default material is normally brass and the thread type is metric. The basic part number would reflect this unless one or more suffixes are added to the part number changing the material or the thread type and size, as demonstrated below.

The ordering system shown below is correct for the majority of CMP’s Cable Glands (BW, TMC*, TC, **RC, **FC) use an alternative ordering system, please refer to the individual product page.

A CMP Products size 20 T3CDS Cable Gland in nickel plated brass with a ½” NPT entry thread ordering example is shown.

### Quick How to Order

<table>
<thead>
<tr>
<th>Size</th>
<th>Type</th>
<th>Standard Suffix</th>
<th>Material</th>
<th>Thread Type</th>
<th>Thread Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>T3CDS</td>
<td>1RA</td>
<td>5</td>
<td>3</td>
<td>1</td>
</tr>
</tbody>
</table>

**BRASS - METRIC**

**Nickel Plated Brass - METRIC**

**Nickel Plated Brass - NPT**

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* Cable Gland Packs are available with various accessories included providing either one or two terminations per pack. Please contact CMP for further information.

** No suffix required when brass metric Cable glands are ordered. Digit ‘0’ is only applied to brass product when the thread type is other than metric e.g. 20A2F1RA032

*** Other thread sizes available upon request.

† Metric entry thread suffix only applicable to conduit connection cable glands, thread converters and stopper plugs.

†† PG threads are not included in cable gland standard EN 62444 but may be placed on the market in EU for installation refurbishment or replacement.
Non-Standard Single Armour Wires

CMP also provide alternate cable glands for when the cable armour wires are outside of the standard range.

This is especially true for single wire armour cables (SWA), where a change in the wire size can affect the cable gland selection. IEC 605021 outlines the nominal wire sizes that should be used in relation to the cable bedding diameter. There are two possible, and different outcomes, when there is a variation in the armour wire thickness, one being a different nominal size of wire is used in the cable manufacture, and another being the nominal wire thickness being over or under size. Details of these alternatives are included in the table below.

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Example Ordering Reference*</th>
<th>Armour Range Standard W Cone &quot;1RA&quot;</th>
<th>Armour Range Standard X Cone &quot;1RA&quot;</th>
<th>Armour Range Undersize &quot;1RE&quot;</th>
<th>Armour Range Oversize &quot;1RB&quot;</th>
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</thead>
<tbody>
<tr>
<td>20S16</td>
<td>20ST3CDS1RA</td>
<td>0.8 1.25</td>
<td>0.3 1.0</td>
<td>0.7 1.15</td>
<td>1.15 1.6</td>
</tr>
<tr>
<td>20S</td>
<td>20ST3CDS1RA</td>
<td>0.8 1.25</td>
<td>0.3 1.0</td>
<td>0.7 1.15</td>
<td>1.15 1.6</td>
</tr>
<tr>
<td>20</td>
<td>20T3CDS1RA</td>
<td>0.8 1.25</td>
<td>0.4 1.0</td>
<td>0.7 1.15</td>
<td>1.15 1.6</td>
</tr>
<tr>
<td>25S</td>
<td>25T3CDS1RA</td>
<td>1.25 1.6</td>
<td>0.4 1.2</td>
<td>0.77 1.22</td>
<td>1.63 2.13</td>
</tr>
<tr>
<td>25</td>
<td>25T3CDS1RA</td>
<td>1.25 1.6</td>
<td>0.4 1.2</td>
<td>0.77 1.22</td>
<td>1.63 2.13</td>
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<tr>
<td>32</td>
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<td>0.4 1.2</td>
<td>1.12 1.62</td>
<td>2.0 2.6</td>
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<td>0.4 1.6</td>
<td>1.33 2.0</td>
<td>2.4 3.1</td>
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<td>0.6 1.6</td>
<td>1.33 2.0</td>
<td>2.4 3.1</td>
</tr>
<tr>
<td>63S</td>
<td>63ST3CDS1RA</td>
<td>2.0 2.5</td>
<td>0.6 1.6</td>
<td>1.33 2.0</td>
<td>2.4 3.1</td>
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<td>2.4 3.1</td>
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<td>2.4 3.1</td>
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<tr>
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<td>0.8 1.6</td>
<td>2.0 3.2</td>
<td>3.6 4.3</td>
</tr>
</tbody>
</table>

All dimension shown are in millimetres unless otherwise stated

*Example ordering reference, T3CDS reference should be replaced by ordered Cable Gland. "1RA" suffix should be replaced with reference depending on armour size needed

Brass M20 shown as example
Cable Gland & Enclosure Material Selection

The specific conditions of any installation will play a major part in the selection of the Cable Gland material, taking into account the level of environmental exposure along with the nature of the enclosure and cable armour material.

The following table is offered as a CMP guide to operations under normal conditions. Subject to there being no adverse environmental conditions, this table can be used to determine the Cable Gland (or Adaptor) material recommended by CMP.

Typical feedthrough cable arrangement

Typical metallic cable layer in contact with cable gland

### Enclosure / Gland Plate Material

<table>
<thead>
<tr>
<th>Feedthrough Cable Arrangement*</th>
<th>Aluminium</th>
<th>Brass</th>
<th>Stainless Steel</th>
<th>Steel</th>
<th>Non-Metallic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unarmoured</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>e.g. PVC/XLPE, or any screened cable with metallic screen</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metallic Cable Layers in contact with Cable Gland</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminium Armour</td>
<td>e.g. AWA, ASA, ATA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steel Armour</td>
<td>e.g. GSWA, SWA, STA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steel Wire Braid</td>
<td>e.g. SWB, GSWB</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stainless Steel Wire Braid</td>
<td>e.g. SSWB</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bronze Wire Armour / Braid</td>
<td>e.g. BWB</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Brass Tape, Screen or Armour</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Copper Screen</td>
<td>e.g. CWB, TCWB, CTS, CWS</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* This feedthrough arrangement would involve the whole cable passing inside the enclosure without any metallic layers being in contact with the cable gland. Any screens or other metallic layers needing to be earthed would be earthed or grounded inside the enclosure.
### Industrial Cable Gland Matrix

<table>
<thead>
<tr>
<th>Cable Gland Type</th>
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**CABLE TYPES**

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<th>Armoured Cables</th>
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<td>Wire Braid</td>
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<tr>
<td>Conduit Connection</td>
<td>Steel Tape Armour</td>
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<tr>
<td>Flat Form Cable</td>
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**Environmental Protection**

- Normal
- Lead Sheathed
- Conduit Connection
- Flat Form Cable
- Single Wire Armour**
- Wire Braid
- Steel Tape Armour

**Sealing Technique**

- High Temperature
- Option Available

**Certification**

- Deluge 'O' Ring Seal
- IP66
- IP67
- IP68*
- Deluge Proof

*IP68 ratings are qualified with depth of water and duration of test. Please refer to individual product pages.

**Single Wire Armour includes both Steel Wire Armour and Aluminium Wire Armour.**
### FEATURES

<table>
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<th>High Temperature Option Available</th>
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* IP68 ratings are qualified with depth of water and duration of test. Please refer to individual product pages.

** Single Wire Armour includes both Steel Wire Armour and Aluminium Wire Armour.
### Explosive Atmosphere Cable Gland Matrix

#### Cable Gland Type

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#### CABLE TYPES

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<thead>
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<th>Cable Gland Type</th>
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<th>Armoured Cables</th>
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<td>BRAIDS &amp; TAPES</td>
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#### Explosive Atmosphere

- **EXPLOSIVE ATMOSPHERE**: Indicates cable glands suitable for use in explosive atmospheres.
- **DELUDE PROTECTED**: Indicates cable glands suitable for use in deluge protected environments.
- **BARRIER**: Indicates cable glands suitable for use in barrier applications.

---

*IP68 ratings are qualified with depth of water and duration of test. Please refer to individual product pages.

** Single Wire Armour includes both Steel Wire Armour and Aluminium Wire Armour.

***When used in Group II (on ground).
<table>
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*IP68 ratings are qualified with depth of water and duration of test. Please refer to individual product pages.*

**Single Wire Armour includes both Steel Wire Armour and Aluminium Wire Armour**

***When used in Group II (over ground)***
Industrial Cable Glands

The CMP Products range of Industrial Cable Glands embraces products used in a wide and diverse variety of market sectors, in conjunction with virtually every kind of industrial cable installation. With a wealth of experience in terminating all types of armoured and unarmoured cables CMP understands that when it comes to such critical installations, quality and reliability really do count.

CMP Cable Gland options for all types of cables are available in a wide range of sizes and are supplied in a variety of thread forms. Cable glands are available in various materials including Brass, Electroless Nickel Plated Brass, Aluminium and Stainless Steel. Significantly the brass grade used in the production of all CMP brass Cable Glands is CuZn39Pb3 (CW614N) to BS EN 12164:2011 / BS EN 12168:2011.

CMP Products designs and manufactures Cable Glands and Accessories conforming to the prevailing industry standards including EN 62444, IEC 62444 and the more rigorous BS6121:Part 1:1989. CMP Products holds a host of internationally recognised approvals, and it’s product range is manufactured under a 3rd party approved Quality Management System conforming to ISO 9001:2008.

All Cable Glands shown in Nickel Plated Brass, alternative materials are available.
**BW**

BW Industrial Cable Gland

For all types of Steel & Aluminium Wire Armoured Cables

- High quality durable materials
- Simple, effective two part arrangement
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- -60°C to +200°C
- Superior EMC performance

---

**Cable Gland Selection Table**

Refer to illustration at the top of the page.

<table>
<thead>
<tr>
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</thead>
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*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass “5”

Example: 32BW1RA5 = Nickel Plated Brass

Dimensions are displayed in millimetres unless otherwise stated.

---

**TECHNICAL DATA**

- **Mechanical Classifications**: Impact = Level 8, Cable Anchorage = Class D
- **Enclosure Protection**: IK10 to IEC 62262 (20 joules)
- **Electrical Classifications**: Category C
- **Marine Approvals**: LR: 01/00171 (E1); ABS: 16-LD1472056-POA
- **GOST R Certificate**: POCC GB.A Г35.H00102
- **Continuous Operating Temperature**: -60°C to +200°C
- **Ingress Protection Rating**: IPX

**Cable Gland Material**: Brass, Electroless Nickel Plated Brass

**Cable Type**: Single Wire Armour (SWA), Aluminium Wire Armour (AWA)

**Armour Clamping**: Two Part Armour Lock

**Cable Gland Kits Available**: Cable Gland Kit for use with all types of SWA cable, including 2 Brass Cable Glands, 2 Steel Locknuts, 2 Brass Earth Tags and 2 PVC Shrouds for sizes up to and including 32mm. For sizes 40mm and above each kit includes 1 of each component.

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444

** When CMP Installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

---

BW Industrial Cable Gland

- High quality durable materials
- Simple, effective two part arrangement
- Direct & remote installation
- Permanently crimped, low impedance earth termination
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Cable Gland Selection Table
Refer to illustration at the top of the page.

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</tbody>
</table>

*For material options add the following suffix to the Ordering Reference: brass (no suffix required), Nickel Plated Brass ‘5’

Example: 20S16 M20 10.0 11.7 15.9 0.8 1.25 24.0 26.4 35.2 BWL 1RA PVC04 0.084

As IEC 62444 and EN 62444 do not cover cable glands which are supplied without cable sealing rings, the information provided here is for information only.

**When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

BWL Heavy Duty Industrial Cable Gland
For all types of Steel & Aluminium Wire Armoured Cables
- High-quality durable materials
- Simple, effective two part arrangement
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Robust, heavy-duty design
- Longer body protects armour wires from impact
- -60°C to +200°C
- Superior EMC performance
**C2KGP**

**C2KGP Single Seal Industrial Cable Gland**

For all types of Armoured Cables

- High quality durable materials
- Robust, heavy duty design
- Metal-to-metal armour clamping
- Direct & remote installation
- Controlled outer ‘load retention’ seal
- Integral protected deluge seal
- -60˚C to +130˚C
- Unique OSTG prevents overtightening
- Controlled outer ‘load retention’ seal
- Metal-to-metal armour clamping
- Robust, heavy duty design
- High quality durable materials

**Cable Gland Selection Table**

- **Grooved Cone (X)**: Predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Single Wire Braid Armour (SWBA), Aluminium Strip Braid Armour (ASBA), and Stainless Steel Wire Armour (SSWA) cables.
- **Stepped (W) Cone**: Suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables. Single Wire Braid Armour (SWBA), Aluminium Strip Braid Armour (ASBA), and Stainless Steel Wire Armour (SSWA) cables.

**Dimensions listed below are for metric cable glands only**

**Design Specification**

BS 6721:Part 1:1989, IEC 62444, EN 62444

**Mechanical Classifications**

Impact = Class D, Cable Anchorage = Class D

**Enclosure Protection**

IK10 to IEC 62262 (II) (jude) Brass & Stainless Steel only

**Electrical Classifications**

Category B (Category A when used with braid, tape or pliable wire armour cables)

**Marine Approvals**

LRS: D100171 (EI)

**GOST R Certificate**

Г35.H00102

**Ingress Protection Rating**

IP66, IP67 & IP68***

**Deluge Protection Compliance**

DTS01 : 91

**Cable Gland Material**

Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

**Seal Material**

CMP Thermoset Rubber

**Seal Dimensions**

Dimensions listed above are for metric cable glands only

**Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444**

**When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.**

***** IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths/durations can be provided upon request**

**Cable Gland Selection Table**

Refer to illustration at the top of the page.

**Cable Gland Selection Table**

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Available Entry Threads</th>
<th>&quot;C&quot; (Alternate Metric Thread Lengths Available)</th>
<th>Bedding Diameter &quot;A&quot;</th>
<th>Overall Cable Diameter &quot;B&quot;</th>
<th>Grooved Cone X</th>
<th>Stepped Cone W</th>
<th>Across Flats &quot;D&quot;</th>
<th>Across Combs &quot;D&quot;</th>
<th>Protection Length &quot;F&quot;</th>
<th>Combined Ordering Reference (Brass Material)</th>
<th>Shroud</th>
<th>Cable Gland Weight (Kgs)</th>
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**Metric Thread Length (Metric) "E"**

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<td>200</td>
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</table>

**Gland Bedding Reference**

- Grooved Cone (X): Predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Single Wire Braid Armour (SWBA), Aluminium Strip Braid Armour (ASBA), and Stainless Steel Wire Armour (SSWA) cables.
- Stepped Cone (W): Suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables. Single Wire Braid Armour (SWBA), Aluminium Strip Braid Armour (ASBA), and Stainless Steel Wire Armour (SSWA) cables.

**Dimensions for alternative threads may vary, please see supplementary technical data sheet**

**For NPT options please add the following suffix to the Ordering Reference, Brass (e.g. suffix required): Nickel Plated Brass "N", 316 Stainless Steel "S", Copper Free Aluminium "C"**

**Examples:** 20C2KGP1RA535 = Nickel Plated Brass 75% NPT, 25C2KGP1RA435 = Brass 75% NPT, 25C2KGP1RA435S = Stainless Steel 75% NPT, 25C2KGP1RA435C = Nickel Plated Brass 435C

**Dimensions are displayed in millimeters unless otherwise stated.**
Cable Gland Selection Table

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Available Entry Threads &quot;C&quot;</th>
<th>Cable Bedding Diameter &quot;A&quot;</th>
<th>Overall Cable Diameter &quot;B&quot;</th>
<th>Armour Range</th>
<th>Across Flats &quot;D&quot;</th>
<th>Across Corners &quot;D&quot;</th>
<th>Protrusion Length &quot;F&quot;</th>
<th>Combined Ordering Reference</th>
<th>Shroud</th>
<th>Cable Gland Weight (Kgs)</th>
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<tr>
<td>Metric</td>
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<td>Option</td>
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<td>Thread Length (NPT) &quot;E&quot;</td>
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**For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'.

**For NPT options please add the following digits to the material suffix; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38, 3 ½" = 39, 4" = 310 (Brass requires prefix "0").

Examples: 20CW1RA5 = Nickel Plated Brass M20, 50CW1RA = Brass 50mm, 25CW1RA4 = Stainless Steel 25mm.

Deluge Proof option available (CWD)
## CX Single Seal Industrial Cable Gland

**For Braided & Steel Tape Armoured Cables**

- High quality durable materials
- Robust, heavy duty design
- Metal-to-metal armour clamping
- Direct & remote installation
- Controlled outer ‘load retention’ seal
- Unique OSTG prevents overtightening
- -60°C to +130°C (standard), -20°C to 200°C (Thermor option page 91)
- Deluge protection option
- Superior EMC performance

### TECHNICAL DATA

- **Design Specification**
  BS 6121; Part 1:1989, IEC 62444, EN 62444

- **Mechanical Classifications***
  Impact = Level 8, Cable Anchorage = Class D

- **Enclosure Protection**
  IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only

- **Electrical Classifications***
  Category A

- **Marine Approvals**
  LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA

- **GOST R Certificate**
  POCC GB.AГ35.Г00102

- **Ingress Protection Rating**
  IP66 as standard (IP67, IP68*** available upon request)

- **Cable Gland Material**
  Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

- **Seal Material**
  CMP Thermostat Rubber

- **Armour Type**
  Wire Braid Armour, Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA)

- **Armour Clamping**
  Detachable Armour Cone & AnyWay Universal Clamping Ring

- **Sealing Technique**
  Unique CMP LRS Inner Seal (Load Retention Seal)

- **Sealing Area(s)**
  Cable Outer Sheath

- **Cable Gland Kits Available**
  Cable Gland kit for use with all types of cable includes 2 Brass Cable Glands, 2 Steel Locknuts, 2 Brass Earth Tags and 2 PVC Shrouds for sizes up to and including 32mm. For sizes 40mm and above each kit includes 1 of each component.

### CX Single Seal Cable Gland

For Braided & Steel Tape Armoured Cables

- High quality durable materials
- Robust, heavy duty design
- Metal-to-metal armour clamping
- Direct & remote installation
- Controlled outer ‘load retention’ seal
- Unique OSTG prevents overtightening
- -60°C to +130°C (standard), -20°C to 200°C (Thermor option page 91)
- Deluge protection option
- Superior EMC performance

### Cable Gland Selection Table

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</table>

**Notes:**

- *Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444
- **For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass ‘5’; 316 Grade Stainless Steel ‘4’; Copper Free Aluminium ‘1’
- **Examples: 20CX1RA5 = Nickel Plated Brass M20
- Dimensions are displayed in millimetres unless otherwise stated

**Cable Gland Weight (Kgs):**

- 20S16: 0.100
- 20S: 0.100
- 20: 0.100
- 25S: 0.224
- 25: 0.221
- 32: 0.306
- 40: 0.448
- 50: 0.567
- 50: 0.751
- 63: 1.036
- 63: 1.016
- 75: 1.787
- 75: 2.091
- 90: 3.044
- 115: 4.476
- 130: 5.761

---

**Grooved Cone (X):**

- Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Asbestos Cloth Tape Armour (ACTA) but is also suitable for Single Wire Armour (SWA), Multiwire (MWA) and Braided Wire Armour (BWA) if the range is outside that of the Stepped Cone (W).
- Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cable. Tapes can also be doubled over for cables that have only a single layer of Armour such as SWA. The clamping range should be used as shown in the table below.

---

**Dimensions:**

- *grooved cone (X) is predominantly used for wire braid (e.g. GSWB, TCWB), steel tape armour (STA, DSTA) and asbestos cloth tape armour (ACTA) but is also suitable for single wire armour (SWA), multiwire (MWA) and braided wire armour (BWA) if the range is outside that of the stepped cone (W).
- Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cable. Tapes can also be doubled over for cables that have only a single layer of armour such as SWA. The clamping range should be used as shown in the table below.
- Dimensional specifications are provided in millimeters unless otherwise stated.
**A2 Single Seal Industrial Cable Gland**

For all types of Unarmoured & Braided Cables

- High quality durable materials
- Robust, heavy duty design
- Displacement type seal
- Deluge protected
- -60˚C to +130˚C (standard), -20˚C to 200˚C (ThermIn option page 91)

**Cable Gland Selection Table**

Refer to illustration at the top of the page.

<table>
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*For material options add the following suffix to the ordering reference: Brass (no suffix required); Nickel Plated Brass ‘5’; Copper ‘1’; Brass Free Aluminium ‘4’

**Examples:** 20S2A21RA5 = Nickel Plated Brass M20

*Dimensions are displayed in millimetres unless otherwise stated
### A2RC

**A2RC Industrial Cable Gland with Conduit Connection Facility**

For all types of Unarmoured Cables

- Designed for rigid & flexible conduits
- Easy install running coupler design
- Displacement type seal
- -60°C to +130°C

#### Enclosure Protection

- IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only

#### Ingress Protection Rating

- IP66

#### Materials

- **Cable Gland Material**: Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
- **Seal Material**: CMP Thermoset Rubber

#### Cable Type

- Unarmoured

#### Sealing Technique

- CMP Unique Displacement Seal Concept

#### Sealing Area(s)

- Cable Outer Sheath

---

#### Table: Cable Gland Selection

Refer to illustration at the top of the page.

**Cable Gland Selection Table**

See 'thread option ordering examples' table below for typical NPT & Metric thread ordering references.

Refer to 'how to order' page for complete list of ordering codes.

*For Metric female threads please insert '0' before thread size code e.g. 32A2RC1RA5031 1¼" NPT Male x 1½" NPT Female

---

#### Table: Technical Data


**Mechanical Classifications**

- Impact = Level 8
- Cable Anchorage = Class D

**Enclosure Protection**: IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only

**GOST R Certificate**: Г35.H00102

**Ingress Protection Rating**: IP66

**Cable Gland Material**: Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

**Seal Material**: CMP Thermoset Rubber

**Cable Type**: Unarmoured

**Sealing Technique**: CMP Unique Displacement Seal Concept

**Sealing Area(s)**: Cable Outer Sheath

---

#### Table: Alternative Conduit Sizes

Alternative conduit sizes available upon request.

See 'thread option ordering examples' table below for typical NPT & Metric thread ordering references.

---

#### Table: Thread Option Ordering Examples

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Refers to 'how to order' page for complete list of ordering codes.

*For Metric female threads please insert '0' before thread size code (e.g. 32A2RC5A3A031 1¼" NPT Male x 1½" NPT Female

---

#### Table: Dimensions

**Cable Gland Selection**: Refer to illustration at the top of the page.

**Dimensions for alternative threads may vary, please see supplementary technical data sheet**

**Dimensions listed below are for metric cable glands only**

---

#### Table: Dimensions

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<tr>
<th>Cable Gland Size</th>
<th>Standard Diameter &quot;A&quot;</th>
<th>Across Flats &quot;E&quot;</th>
<th>Across Corners &quot;D&quot;</th>
<th>Female Conduit Connection &quot;G&quot;</th>
<th>Pretrusion Length &quot;F&quot;</th>
<th>Size Type</th>
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<th>Cable Gland Weight (Kgs)</th>
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*For material options add the following suffix to the Ordering Reference: Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'

**Examples**: 32A2RC1RA5 = Nickel Plated Brass M32 male x 1¼" NPT Female, 20A2RC1RA031 = Brass M20 x ½" NPT Female, 25A2RC1RA031 = Stainless Steel M25 male x ¾" NPT Female, 25A2RC1RA048 = Nickel Plated Brass M25 male & female

**Dimensions are displayed in millimetres unless otherwise stated**

---

<Refer to illustration at the top of the page>
## TECHNICAL DATA

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<tr>
<td>Mechanical Classifications*</td>
<td>Impact = Level 8, Cable Anchorage = Class B</td>
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<td>Enclosure Protection</td>
<td>IK10 to IEC 62262 (20 (nuc)) Brass &amp; Stainless Steel only</td>
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<td>Electrical Classifications*</td>
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<td>Sealing Area(s)</td>
<td>Cable Outer Sheath</td>
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<td>Included Accessories</td>
<td>Locknut &amp; Washer</td>
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### PRECAUTIONS:

- **Material Options:** Add the following suffix to the Ordering Reference: Brass (no suffix required); Nickel Plated Brass ‘5’; 316 Grade Stainless Steel ‘4’; Copper Free Aluminium ‘1’

- **NPT Options:** Add the following digits to the material suffix: ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 ½” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix ‘0’)

**Examples:** 32CXT1RA5 = Nickel Plated Brass 1¼” NPT, 50SCXT1RA035 = Brass 1½” NPT, 25CXT1RA432 = Stainless Steel ¾” NPT, 20CXT1RA5 = Nickel Plated Brass M20

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444

**When CMP Installation accessories are used, refer to page 7 or www.cmp-products.com for further information.

## CXT

### CXT Single Seal Industrial Cable Gland

For Screened Flexible (EMC) Braided Cables

- Easy install
- Mechanical retention of wire braid for electrical continuity
- Displacement type seal
- -60°C to +130°C
- Superior EMC performance

### Cable Gland Selection Table

Refer to illustration at the top of the page.

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Entry Thread &quot;C&quot;</th>
<th>Thread Length (Metric) &quot;E&quot;</th>
<th>Overall Cable Diameter &quot;A&quot;</th>
<th>Across Flats &quot;D&quot;</th>
<th>Across Corners &quot;D&quot;</th>
<th>Protrusion Length &quot;F&quot;</th>
<th>Combined Ordering Reference (*Brass Metric)</th>
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* Dimensions are displayed in millimetres unless otherwise stated.

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www.cmp-products.com
## TECHNICAL DATA

### Design Specification
BS 6121:Part 1:1989, IEC 62444, EN 62444

### Mechanical Classifications*
Impact = Level 8, Cable Anchorage = Class B

### Enclosure Protection
IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only

### Marine Approvals
LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA

### GOST R Certificate
POCC GB.A Г35.H00102

### Ingress Protection Rating**
IP66, IP67 & IP68***

### Cable Gland Material
Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

### Seal Material
CMP Thermoset Rubber

### Cable Type
Unarmoured

### Sealing Technique
CMP Unique Displacement Seal Concept

### Sealing Area(s)
Cable Inner Bedding & Outer Cable Sheath

---

### Dimensions listed below are for metric cable glands only

## Cable Gland Selection Table
Refer to illustration at the top of the page.

<table>
<thead>
<tr>
<th></th>
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<td>20S16</td>
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<td>M40 25.0 1 ¼” 25.6 1 ½” 31.0 29.2 55.0 60.5 120.0 129.0 260.5 50 S2KGP 1RA</td>
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<tr>
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</tbody>
</table>

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* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444
** When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request

---

*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass ‘5’; 316 Grade Stainless Steel ‘4’; Copper Free Aluminium ‘1’

**For NPT options add the following digits to the material suffix; ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 3/8” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix ‘0’)

---

Examples: 325SS2KGP1RA534 = Nickel Plated Brass 1¼” NPT, 50SSS2KGP1RA035 = Brass 1½” NPT, 25SS2KGP1RA432 = Stainless Steel ¾” NPT, 20SS2KGP1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated.

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* Dimensions for alternative threads may vary, please see supplementary technical data sheet

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SS2KGP
SS2KGP Double Seal Industrial Cable Gland
For all types of Unarmoured & Braided Cables
- Direct & remote installation
- Superior levels of cable retention
- Displacement type seals
- Deluge protected
- -60˚C to +130˚C

** SS2KGP Double Seal Industrial Cable Gland**
For all types of Unarmoured & Braided Cables
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Dimensions are displayed in millimetres unless otherwise stated.

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www.cmp-products.com
### TECHNICAL DATA

**Design Specification**
BS 6121:Part 1:1989, IEC 62444, EN 62444

**Mechanical Classifications***
Impact = Level 8, Cable Anchorage = Class B

**Enclosure Protection**
IK10 to IEC 62626 (20 Joules) Brass & Stainless Steel only

**Marine Approvals**
LR: 01/001771 (E1), ABS: 16-1D1472056-POA

**GOST R Certificate**
POCC GB:AF38,000102

**Ingress Protection Rating**
IP66, IP67 & IP68***

**Cable Gland Material**
Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

**Seal Material**
CMP Thermostat Rubber

**Cable Type**
Unarmoured Lead Sheathed, Steel Tape Armour (STA), Aluminium Tape Armour (ATA)

**Sealing Technique**
CMP Unique Displacement Seal Concept

**Sealing Area(s)**
Cable Inner Lead Sheath & Outer Sheath

---

### Cable Gland Selection Table

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Available Entry Threads “C”</th>
<th>Option</th>
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<tr>
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<td>Standard</td>
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<table>
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<tr>
<th>Cable Gland Size</th>
<th>Available Entry Threads “C”</th>
<th>Option</th>
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<tbody>
<tr>
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<td>Standard</td>
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</table>

### Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet

### Example:
SS2KGPPB = Nickel Plated Brass
S = Stainless Steel
A = Active Seal
**32SS2KGPPB1RA5** = Nickel Plated Brass 1 ¼” NPT, 32SS2KGPPB1RA432 = Stainless Steel ¾” NPT

**For NPT options add the following digits to the material suffix;**

- ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 ½” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix ‘0’)

**Examples:**

- SS2KGPPB1RA534 = Nickel Plated Brass 1 ¼” NPT, SS2KGPPB1RA43 = Brass ¾” NPT, 25SS2KGPPB1RA35 = Stainless Steel 1 ¼” NPT, 25SS2KGPPB1RA41 = Nickel Plated Brass MDI

Dimensions are displayed in millimetres unless otherwise stated.
E1U Double Seal Industrial Cable Gland

For all types of Armoured Cables

- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Displacement type inner seal
- Controlled outer “load retention” seal
- Unique OSTG prevents overtightening
- Secure against self-loosening
- Permanently crimped, low impedance earth termination
- Direct & remote installation
- Metal-to-metal armour clamping

**Gland**

- **20S16 M20** 10.0 ½” 19.9 ¾” 19.9 ¾” 19.9 ¾” 19.9 ¾”
- **20S16 E1U 1RA PVC04 0.163**

**Electrical Classifications**

- **Category B** (Category A when used with braid, tape or pliable wire armour cables)

**Marine Approvals**

- LRS: 01/00171 (E1), ABS: 16-LC427056-PDA

**GOST R Certificate**

- POCG GB:AF95M H00102

**Ingress Protection Rating**

- IP66 as standard (IP67, IP68*** available upon request)

**Cable Gland Material**

- Brass, Electroless Nickel Plated Brass, Aluminium

**Seal Material**

- CMP Thermostat Rubber

**Cable Type**

- Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Steel Tape Armour (STA), Wire Braid Armour, Aluminium Strip Armour (ASA), Screened Flexible (EMC) Wire Braid (e.g. C1 / 2Y, Armoured & jacketed)

**Armour Clamping**

- Reversible Armour Core & AnyWay Universal Clamping Ring

**Sealing Technique**

- CMP Inner Displacement Seal & Unique CMP LRS™ Outer Load Retention Seal

**Sealing Area(s)**

- Cable Inner Bedding & Outer Cable Sheath

---

**Dimensions are displayed in millimetres unless otherwise stated**

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**Note:** For material options please add the following suffix to change the Ordering Reference; Brass (no suffix required), Nickel Plated Brass “5”, Copper Free Aluminium “1”

For NPT options add the following digits to the material suffix; ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 ½” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix ‘0’)

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**Example:** E1U1IRA520 520 is Nickel Plated Brass. E1U1IRA520(0)520 is Brass 150. E1U1IRA520(0)520 is Nickel Plated Brass.

---

**Dimensions listed below are for metric cable glands only**

Dimensions for alternative thread types may vary, please see supplementary technical data sheet

---

**Cable Gland Selection Table**

Refer to illustration at the top of the page.
E2U Double Seal Industrial Cable Gland

For all types of Lead Sheathed Armoured Cables

- Effectively earths / grounds lead sheathed cables
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently cramped, low impedance earth termination
- Secures against self-loosening
- Displacement type inner seal
- Controlled outer ‘load retention’ seal
- Unique OSTG prevents overtightening
- Secure against self-loosening
- Permanently crimped, low impedance earth termination
- Direct & remote installation
- Metal-to-metal armour clamping

**Cable Gland Selection Table**

<table>
<thead>
<tr>
<th>Metric</th>
<th>Lead Sheath Diameter “A”</th>
<th>Overall Cable Diameter “B”</th>
<th>Armour Range</th>
<th>Core Flats “D”</th>
<th>Across “D”</th>
<th>Precision Length “P”</th>
<th>Combined Ordering Reference (+Cable Metric)</th>
<th>Size</th>
<th>Type</th>
<th>Suffix</th>
<th>Combining Suffix</th>
<th>Shroud</th>
<th>Cable Gland Weight (Kgs)</th>
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<tbody>
<tr>
<td>20 (M20)</td>
<td>10.0 1/2”</td>
<td>19.9 5/8”</td>
<td>21 7/8”</td>
<td>21 7/8”</td>
<td>0.7</td>
<td>1.8</td>
<td>1.25</td>
<td>24.0 26.4</td>
<td>72.5</td>
<td>20S16 E2U 1RA PVC04</td>
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<td>25 (M25)</td>
<td>10.0 5/8”</td>
<td>20.2 1 9/16”</td>
<td>21 7/8”</td>
<td>21 11/16”</td>
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<td>28 7/16”</td>
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<td>63 1/2”</td>
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**Dimensions listed below are for metric cable glands only**

Dimensions for alternative threads may vary, please see supplementary technical data sheet

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**Notes:**
- For mechanical & electrical classifications applied as per IEC 62444 & EN 62444
- When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.
- **IP66** tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request
- Dimensions are displayed in millimetres unless otherwise stated
- GOST R Certificate: Г35.H00102
- Marine Approvals: ABS: 16-LD1472056-PDA
E1W Double Seal Industrial Cable Gland

For all types of Steel & Aluminium Wire Armoured Cables

- Metal-to-metal armour damping
- Direct & remote installation
- Permanently cramped, low impedance earth termination
- Secure against self-loosening
- Displacement type inner seal
- Controlled outer “load retention” seal
- Unique ØSTGs prevents overtightening
- Deluge protection option
- -60°C to +130°C
- Superior EMC performance

Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet

Dimensions are displayed in millimetres unless otherwise stated

For NPT options please add the following digits to the material suffix; ½” = 31, ¾” = 32, 1” = 33, 1 ¼” = 34, 1 ½” = 35, 2” = 36, 2 ½” = 37, 3” = 38, 3 ½” = 39, 4” = 310 (Brass requires prefix “0”)

Examples: 32E1W1RA534 = Nickel Plated Brass 1¼” NPT, 50SE1W1RA035 = Brass 1½” NPT, 20E1W1RA5 = Nickel Plated Brass M20

Cable Gland Selection Table

Refer to illustration at the top of the page.

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Available Entry Threads “C” (Alternate Metric Thread Lengths Available)</th>
<th>Cable Bedding Diameter “A”</th>
<th>Overall Cable Diameter “B”</th>
<th>Armour Range</th>
<th>Overall Flats “D”</th>
<th>Overall Corners “D”</th>
<th>Proration Length “E”</th>
<th>Combined Ordering Reference (Brass Metric)</th>
<th>Size Type</th>
<th>Ordering Suffix</th>
<th>Shroud</th>
<th>Cable Gland Weight (Kgs)</th>
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<td>205E M20</td>
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<tr>
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</table>

TECHNICAL DATA

Design Specification
BS 6121:Part 1:1989, IEC 62444, EN 62444

Mechanical Classifications*
Impact = Level 8, Cable Anchorage = Class D

Enclosure Protection
IK10 to IEC 62262 (20 Joules) Brass & Stainless Steel only

Electrical Classifications*
Category B

Marine Approvals
LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA

GOST R Certificate
POCC GB.A4F38.H00102

Ingress Protection Rating**
IP66 as standard (IP67, IP68*** available upon request)

Cable Gland Material
Brass, Electroless Nickel Plated Brass, Aluminium

Seal Material
CMP Thermoset Rubber

Cable Type
Single Wire Armour (SWA), Aluminium-Wire Armour (AWA)

Armour Clamping
Detachable Armour Cone & AnyWay Universal Clamping Ring

Sealing Technique
CMP Inner Displacement Seal & Unique CMP LRS TM Outer Load Retention Seal

Sealing Area(s)
Cable Inner Bedding & Outer Cable Sheath

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444

** When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request

E1W

E1W Double Seal Industrial Cable Gland

For all types of Steel & Aluminium Wire Armoured Cables

- Metal-to-metal armour damping
- Direct & remote installation
- Permanently cramped, low impedance earth termination
- Secure against self-loosening
- Displacement type inner seal
- Controlled outer “load retention” seal
- Unique ØSTGs prevents overtightening
- Deluge protection option
- -60°C to +130°C
- Superior EMC performance

Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet

Dimensions are displayed in millimetres unless otherwise stated

For NPT options please add the following digits to the material suffix; ½” = 31, ¾” = 32, 1” = 33, 1 ¼” = 34, 1 ½” = 35, 2” = 36, 2 ½” = 37, 3” = 38, 3 ½” = 39, 4” = 310 (Brass requires prefix “0”)

Examples: 32E1W1RA534 = Nickel Plated Brass 1¼” NPT, 50SE1W1RA035 = Brass 1½” NPT, 20E1W1RA5 = Nickel Plated Brass M20

www.cmp-products.com
E2W

E2W Double Seal Industrial Cable Gland

For Lead Sheathed Steel & Aluminium Wire Armoured Cables

- Effectively earths / grounds lead sheathed cables
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently cramped, low impedance earth termination
- Secure against self-loosening
- Displacement type inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Deluge protection option
- -60°C to +130°C
- Superior EMC performance

Cable Gland Selection Table
Refer to illustration at the top of the page.

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Available Entry Threads °C</th>
<th>Cable Lead Sheath Diameter °A</th>
<th>Overall Cable Diameter °B</th>
<th>Armour Range</th>
<th>Across Flats °G</th>
<th>Across Glands °P</th>
<th>Protrusion Length °F</th>
<th>Combined Ordering Reference (Brass Metric)</th>
<th>Shroud</th>
<th>Cable Gland Weight (Kgs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric</td>
<td>Standard Thread (Metric) °E</td>
<td>Option Thread (NPT) °G</td>
<td>Min</td>
<td>Max</td>
<td>Min</td>
<td>Max</td>
<td>Min</td>
<td>Max</td>
<td>Size</td>
<td>Type</td>
</tr>
<tr>
<td>205/16 M20</td>
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<td>19.9  ¾&quot;</td>
<td>3.1</td>
<td>7.8</td>
<td>6.1</td>
<td>13.1</td>
<td>0.8</td>
<td>1.25</td>
<td>24.0</td>
<td>26.4</td>
</tr>
<tr>
<td>255 M25</td>
<td>10.0  &quot;</td>
<td>19.9  ¾&quot;</td>
<td>6.1</td>
<td>11.0</td>
<td>9.5</td>
<td>15.9</td>
<td>0.8</td>
<td>1.25</td>
<td>24.0</td>
<td>26.4</td>
</tr>
<tr>
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<td>19.9  ¾&quot;</td>
<td>6.5</td>
<td>13.4</td>
<td>12.5</td>
<td>20.9</td>
<td>0.8</td>
<td>1.25</td>
<td>30.5</td>
<td>33.6</td>
</tr>
<tr>
<td>32 M32</td>
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<td>19.9  ¾&quot;</td>
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<td>19.3</td>
<td>14.0</td>
<td>22.0</td>
<td>1.25</td>
<td>1.6</td>
<td>37.5</td>
<td>41.3</td>
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<tr>
<td>40 M40</td>
<td>15.0  1 ¼&quot;</td>
<td>25.6</td>
<td>1 ½&quot;</td>
<td>22.0</td>
<td>31.2</td>
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<td>35.2</td>
<td>67.6</td>
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<td>2.5</td>
<td>60.0</td>
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<td>15.0  2&quot;</td>
<td>26.9</td>
<td>2 ½&quot;</td>
<td>35.6</td>
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<td>40.4</td>
<td>53.0</td>
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<td>70.1</td>
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<td>3&quot;</td>
<td>40.1</td>
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<td>45.6</td>
<td>59.4</td>
<td>2.0</td>
<td>2.5</td>
<td>75.0</td>
</tr>
<tr>
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<td>15.0  2 ½&quot;</td>
<td>39.9</td>
<td>3&quot;</td>
<td>47.2</td>
<td>54.2</td>
<td>49.6</td>
<td>65.8</td>
<td>2.0</td>
<td>2.5</td>
<td>80.0</td>
</tr>
<tr>
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<td>3&quot;</td>
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<td>60.2</td>
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<td>2.5</td>
<td>90.0</td>
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<tr>
<td>75 M75</td>
<td>15.0  3&quot;</td>
<td>41.5</td>
<td>3 ½&quot;</td>
<td>59.9</td>
<td>65.2</td>
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<td>4&quot;</td>
<td>66.6</td>
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<td>4.0</td>
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<td>101.4</td>
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<td>5&quot;</td>
<td>86.0</td>
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<td>110.2</td>
<td>3.15</td>
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<td>6&quot;</td>
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<td>110.1</td>
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<td>3.15</td>
<td>4.0</td>
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*Note: For material options please add the following suffix to change the Ordering Reference: Brass (no suffix required), Nickel Plated Brass "5", Copper Free Aluminium "1"

Dimensions listed below are for metric cable glands only Dimensions for alternative threads may vary, please see supplementary technical data sheet

For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32E2W1RA534 = Nickel Plated Brass 1¼" NPT, 50SE2W1RA035 = Brass 1½" NPT, 20E2W1RA5 = Nickel Plated Brass NPT

Dimensions are displayed in millimetres unless otherwise stated

**When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

***IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request
### Cable Gland Selection Table

Refer to illustration at the top of the page.

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Available Entry Threads °C</th>
<th>Cable Bedding Diameter &quot;A&quot;</th>
<th>Overall Cable Diameter &quot;B&quot;</th>
<th>Armour Range</th>
<th>Grooved Cone &quot;X&quot;</th>
<th>Cross Flats &quot;D&quot;</th>
<th>Cross Gears &quot;G&quot;</th>
<th>Protrusion Length &quot;F&quot;</th>
<th>Combined Ordering Reference (Brass Metric)</th>
<th>Shroud</th>
<th>Cable Gland Weight (Kgs)</th>
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<td>Metric Thread Length (Metric) °C</td>
<td>NPT</td>
<td>Thread Length (NPT) °E</td>
<td>NPT</td>
<td>Min</td>
<td>Max</td>
<td>Min</td>
<td>Max</td>
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<td>Max</td>
<td>Max</td>
</tr>
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<td>11.6</td>
<td>9.3</td>
<td>15.9</td>
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<td>15.9</td>
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<td>93.9</td>
<td>110.2</td>
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<td>97.9</td>
<td>93.9</td>
<td>110.2</td>
<td>0.8</td>
<td>1.6</td>
<td>133.4</td>
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</table>

**Notes:**
- For brass options please add the following suffix to change the Ordering Reference: Metric thread required, "NPT" or "MPT". Examples: 20M6 or 20M6NPT or 20M6MPT or 20S16 or 20S16NPT or 20S16MPT.
- Dimensions are displayed in millimetres unless otherwise stated.

### TECHNICAL DATA

**Design Specification**
- BS 6121
- IEC 62444
- EN 62444

**Mechanical Classifications**
- Impact = Level B, Cable Anchorage = Class D

**Enclosure Protection**
- IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only

**Electrical Classifications**
- Category B (Category A when used with braid, tape or pliable wire armour cables)

**Marine Approvals**
- LRS: 0100171 (1)

**GOST R Certificate**
- POCC GIB.AT36.M40102

**Ingress Protection Rating**
- IP66 as standard (IP67, IP68** available upon request)

**Cable Gland Material**
- Brass, Electroless Nickel Plated Brass, Aluminium

**Seal Material**
- CMP Thermoset Rubber

**Cable Type**
- Wire Braid Armoured, Screened Flexible (EMC) Wire Braid (e.g. CT / SY), Pliable Wire Armoured (PWA), Steel Tape Armoured (STA), Aluminium Strip Armoured (e.g. ASA)

**Armour Clamping**
- Detachable Armour Cone & AnyWay Universal Clamping Ring

**Sealing Technique**
- CMP Inner Displacement Seal & Unique CMP ‘LRS’™ Outer Load Retention Seal

**Sealing Area(s)**
- Cable Inner Bedding & Outer Cable Sheath

### Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet

---

**CMP PRODUCTS CABLE GLAND CATALOGUE**

---

**For Braided & Steel Tape Armoured Cables**
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Displacement type inner seal
- Controlled outer "load retention" seal
- Unique OSTG prevents overtightening
- Controlled outer 'load retention' seal
- Displacement type inner seal
- Secure against self-loosening
- Permanently crimped, low impedance earth termination
- Direct & remote installation
- Metal-to-metal armour clamping

---

**† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA), Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), dimensions shown in the Cable Gland Selection Table below are for a double wire Grooved Cone (X)

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**‡** (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), dimensions shown in the Cable Gland Selection Table below are for a double wire Grooved Cone (X)

---

**††** Steel Tape Armour Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA), Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), dimensions shown in the Cable Gland Selection Table below are for a double wire Grooved Cone (X)
E2X Double Seal Industrial Cable Gland

For Lead Sheathed Braided Cables

- Effectively earths / grounds lead sheathed cables
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Controlled outer ‘load retention’ seal
- Unique OSTG prevents overtightening
- Displacement type inner seal
- Controlled against self-loosening
- Permanently crimped, low impedance earth termination
- Direct & remote installation
- Metal-to-metal armour clamping
- Effectively earths / grounds lead sheathed cables

For Lead Sheathed Braided Cables

E2X Double Seal Industrial Cable Gland

+-60˚C to +130˚C

Deluge protection option

Unique OSTG prevents overtightening

Controlled outer ‘load retention’ seal

Secure against self-loosening

Cable Gland Selection Table

Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet

For Lead Sheathed Braided Cables

E2X Double Seal Industrial Cable Gland

For Lead Sheathed Braided Cables

Dimensions for alternative threads may vary, please see supplementary technical data sheet
SOLO Low Smoke & Fume Cable Glands

The outstanding safety benefits of low smoke and fume (LSF) or halogen free cable materials have already led to their increased use in areas considered to be potentially at risk in situations of fire hazard. Typical examples are in tunnels, deep bore underground metro systems, and public buildings where the risk of smoke inhalation in the event of fire is at its greatest.

The CMP SOLO LSF range of Cable Glands and accessories meet the most stringent requirements and provide a single, simple solution for specifiers and users in meeting LSF and Halogen Free requirements.

The CMP SOLO LSF option can be provided for all types of Cable Glands shown in this catalogue.

CMP SOLO LSF Cable Glands meet the requirements of the London Underground Fire Safety Regulations and as such, they are LUL approved for use within the London Underground network.

Add LSF2RA after the gland size and type e.g. 25CWLSF2RA to denote that a Gland Kit is required.

All Cable Glands shown in Nickel Plated Brass, alternative materials are available.
### BW SOLO - LOW SMOKE & FUME RANGE

#### CMP SOLO - LOW SMOKE & FUME RANGE

**BW Industrial Cable Gland SOLO LSF Kit**

For all types of Steel & Aluminium Wire Armoured Cables

- Direct & remote installation
- -60°C to +200°C
- Superior EMC performance
- LUL (London Underground) approved

#### TECHNICAL DATA

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<th>Type</th>
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**For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass '5'

Examples: 32BWLSF1RA5 = Nickel Plated Brass

**Dimensions are displayed in millimetres unless otherwise stated**

#### Cable Gland Selection Table

Refer to illustration at the top of the page.

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*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass '5'

Examples: 32BWLSF1RA5 = Nickel Plated Brass

Dimensions are displayed in millimetres unless otherwise stated
Cable Gland Selection Table

Refer to illustration at the top of the page.

<table>
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<tr>
<th>Cable Gland Size</th>
<th>Entry Thread &quot;C&quot;</th>
<th>Thread Length (Metric) &quot;E&quot;</th>
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<th>Overall Cable Diameter &quot;B&quot;</th>
<th>Armour Range</th>
<th>Across Flats &quot;D&quot;</th>
<th>Across Corners &quot;G&quot;</th>
<th>Protrusion Length &quot;F&quot; (Without Shroud)</th>
<th>Combined Ordering Reference (*Brass Metric)</th>
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*For material options add the following suffix to the Ordering Reference: Brass (no suffix required); Nickel Plated Brass '5'; Stainless Steel '4'; Copper Free Aluminium '1'.

For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0').

Examples: 20CWLSF2RA5 = Nickel Plated Brass M20, 50 CWLSF2RA = Brass 50mm, 25CWLSF2RA4 = Stainless Steel 25mm

Dimensions are displayed in millimetres unless otherwise stated.
Cable Gland Selection Table

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*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass ‘5’; 316 Grade Stainless Steel ‘4’; Copper Free Aluminium ‘1’

For NPT options add the following digits to the material suffix; ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 ½” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix ‘0’)
A2 Industrial Single Seal Cable Gland SOLO LSF Kit

For all types of Unarmoured & Braided Cables

- Displacement type seal
- Deluge protected
- -60°C to +130°C
- LUL (London Underground) approved

Technological Data

- **Type**: A2 SOLO Kit
- **Mechanical Classifications**: Impact = Level 8, Cable Anchorage = Class D
- **Enclosure Protection**: IP10 to IEC 62262 (20) (joked Brass & Stainless Steel only
- **Marine Approvals**: LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
- **GOST R Certificate**: POCC GB-AF35400102
- **Ingress Protection Rating**: IP66, IP67 & IP68
- **Deluge Protection Compliance**: DT01 : 91

**Cable Gland Material**

Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

**Seal Material**

CMP SOLO LSF Halogen Free Thermoset Elastomer

**Cable Type**

Unarmoured

**Sealing Technique**

CMP Unique Displacement Seal

**Sealing Area(s)**

Cable Outer Sheath

**Cable Gland Kits Available**

Up to & including size 25 - 2 glands, 2 locknuts & 2 LSF shrouds

Size 32 & above - 1 gland, 1 locknut & 1 LSF shroud

Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet

**Cable Selection Table**

Refer to illustration at the top of the page.

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Available Entry Threads °C</th>
<th>Overall Cable Diameter °A</th>
<th>Across Flats °B</th>
<th>Across Corners °D</th>
<th>Protrusion Length °F (Without Shroud)</th>
<th>Combined Ordering Reference °G</th>
<th>Cable Gland Only Weight (Kgs)</th>
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<tbody>
<tr>
<td>Metric Thread Length (Metric) °E</td>
<td>NPT</td>
<td>Thread Length (NPT) °E</td>
<td>NPT</td>
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<td>Max</td>
<td>Max</td>
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<td>2 1/4&quot;</td>
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<td>114.9</td>
<td>152.4</td>
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</table>

*For material options add the following suffix to the Ordering Reference, Brass (no suffix required), Nickel Plated Brass ‘5’, 316 Grade Stainless Steel ‘4’, Copper Free Aluminium ‘1’

For NPT options add the following digits to the material suffix; 1/8" = 31; 1/4" = 32; 1/2" = 33; 3/4" = 34; 1" = 35; 1 1/4" = 36; 1 1/2" = 37; 2" = 38; 3" = 39; 4" = 310 (Brass requires prefix ‘0’)

Examples: 32A2LSF2RA534 = Nickel Plated Brass 1¼" NPT, 50SA2LSF2RA035 = Brass 1½" NPT, 20A2LSF2RA5 = Nickel Plated Brass M20

Dimensions are shown in millimetres unless otherwise stated
CIEL Cast Integral Earth Lug Cable Glands

The CMP Cast Integral Earth Lug (CIEL) concept is intended for external earth connections where it is essential to maintain critical earthing under high level short circuit fault conditions. It is designed to meet I.E.E. earthing regulations and because of its unique design, is particularly suitable for medium voltage and high voltage installations where low resistance earthing is essential.

CMP CIEL Cable Glands have been subjected to independent third party short circuit tests to determine their short circuit fault current ratings resulting in the following:

Symmetrical Fault Current (kA) for 1 second
- 26.0 kA for Cable Gland sizes up to 40
- 43.0 kA for Cable Gland sizes 50S and above

The CMP cast integral earth lug (CIEL) option is available in various gland types including BWL-CIEL, CW-CIEL, E1W-CIEL, and E2W-CIEL. Other options are available on request including versions for Explosive Atmosphere installations, such as E1FW-CIEL and E2FW-CIEL.

Please state Cable Gland type and size e.g. 25CWC1RA, where the suffix letter ‘C’ is used to identify the product type CIEL.

All Cable Glands shown in Nickel Plated Brass, alternative materials are available.
**BWL CIEL**

**BWL Heavy Duty Industrial Cast Integral Earth Lug Cable Gland**

For all types of Steel & Aluminium Wire Armoured Cables

- External earth connection
- Third party short circuit tested
- Metal-to-metal armour clamping
- Direct & remote installation
- Robust, heavy duty design
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Longer body protects armour wires from impact
- -60°C to +200°C
- Superior EMC performance

---

**Cable Gland Selection Table**

Refer to illustration at the top of the page.

| Cable Gland Size | Available Entry Threads “C” | Overall Cable Diameter “G” | Armour Range | Across Flat “D” | Across Carriers “E” | Protrusion Length “F” | Nominal Radius Dimension | CIEL Earth Bolt Size | Earth Fault Current Rating (kA) | Combined Ordering Reference | Cable Gland Weight (Kgs) | Metric Type | Metric Suffix |
|------------------|----------------------------|-----------------------------|--------------|----------------|-------------------|----------------------|------------------------|-------------------|-----------------------------|---------------------------|----------------|-------------|
| 20S M20 10.0     | 11.7                       | 15.9                        | 0.8          | 1.25           | 24.0              | 26.4                | 32.2                   | 28.6              | 38.6                       | M8                        | 26.0          | BWL        | 1FA         |
| 20   M20 10.0    | 14.0                       | 20.0                        | 0.8          | 1.25           | 30.5              | 33.6                | 36.6                   | 31.8              | 41.8                       | M8                        | 26.0          | BWL        | 1FA         |
| 25S M25 10.0    | 20.0                       | 26.2                        | 1.25         | 1.6            | 46.0              | 50.6                | 52.6                   | 43.1              | 54.0                       | M8                        | 26.0          | BWL        | 1FA         |
| 32   M32 10.0    | 26.2                       | 33.9                        | 1.6          | 2.0            | 60.5              | 65.5                | 69.6                   | 57.2              | 74.6                       | M12                       | 43.0          | BWL        | 1RA         |
| 40   M40 15.0    | 39.2                       | 46.7                        | 2.0          | 2.5            | 66.0              | 66.0                | 69.6                   | 57.2              | 74.6                       | M12                       | 43.0          | BWL        | 1RA         |
| 50   M50 15.0    | 44.1                       | 53.1                        | 2.0          | 2.5            | 77.1              | 77.1                | 79.4                   | 60.3              | 79.4                       | M12                       | 43.0          | BWL        | 1RA         |
| 63S M63 15.0    | 50.0                       | 61.9                        | 2.0          | 2.5            | 82.5              | 82.5                | 84.4                   | 70.0              | 90.5                       | M12                       | 43.0          | BWL        | 1RA         |
| 63   M63 15.0    | 56.0                       | 67.9                        | 2.0          | 2.5            | 84.4              | 84.4                | 86.8                   | 70.0              | 90.5                       | M12                       | 43.0          | BWL        | 1RA         |
| 75S M75 15.0    | 62.0                       | 73.1                        | 2.0          | 2.5            | 90.0              | 90.0                | 92.1                   | 76.2              | 98.5                       | M12                       | 43.0          | BWL        | 1RA         |
| 75   M75 15.0    | 68.0                       | 78.5                        | 2.5          | 3.0            | 100.0             | 100.0               | 102.1                  | 82.6              | 108.0                      | M12                       | 43.0          | BWL        | 1RA         |
| 90   M90 24.0    | 79.0                       | 90.4                        | 3.15         | 4.0            | 114.3             | 125.7               | 128.6                  | 95.3              | 138.0                      | M12                       | 43.0          | BWL        | 1RA         |
| 100 M100 24.0   | 90.0                       | 101.5                       | 3.15         | 4.0            | 125.3             | 133.4               | 136.7                  | 112.0             | 138.5                      | M12                       | 43.0          | BWL        | 1RA         |
| 115 M115 24.0   | 98.0                       | 110.3                       | 3.15         | 4.0            | 146.7             | 167.6               | 170.8                  | 112.0             | 138.5                      | M12                       | 43.0          | BWL        | 1RA         |
| 130 M130 24.0   | 115.0                      | 122.3                       | 3.15         | 4.0            | 152.4             | 167.6               | 170.8                  | 110.0             | 138.5                      | M12                       | 43.0          | BWL        | 1RA         |

**Notes:**
- For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass ‘5’; 316 Grade Stainless Steel ‘4’; Copper Free Aluminium ‘1’
- Examples: 32BWL1RA5 = Nickel Plated Brass, 25BWL1RA4 = Stainless Steel
- Dimensions are displayed in millimetres unless otherwise stated

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**TECHNICAL DATA**

- **Design Specification:** BS 6121 : Part 1: 1989
- **Mechanical Classifications**
  - Impact = Level 8, Cable Anchorage = Class B
- **Enclosure Protection:** IK10 to IEC 62262 (20 joules)
- **Electrical Classifications**
  - Category C
- **Marine Approvals**: LRS: 010013071 (S), ABS: 16-13472056-POA
- **GOST R Certificate**: P0CC.08.A.470.M00102
- **Ingress Protection Rating**: IP2X
- **Cable Gland Material**: Brass, Electroless Nickel Plated Brass
- **Cable Type**: Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
- **Armour Clamping**: Armour Cone & AnyWay Universal Clamping Ring
- **Symmetrical Fault Current (kA) rating for 1 second applicable to the Cast Integral Earth Lug featured in the BWL CIEL products are as follows:**
  - 26.0 kA for Cable Gland sizes up to 40
  - 43.0 kA for Cable Gland sizes 50S and above.

---

**CMP PRODUCTS CABLE GLAND CATALOGUE**

CMP PRODUCTS CABLE GLAND CATALOGUE

**Cable Selection Table**

Refer to illustration at the top of the page.
**CW CIEL**

CW Industrial Single Seal Cast Integral Earth Lug Cable Gland

For all types of Steel & Aluminium Wire Armoured Cables

- External earth connection
- Third party short circuit tested
- Metal-to-metal armour clamping
- Direct & remote installation
- Controlled outer ‘load retention’ seal
- Unique OSTG prevents overtightening
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- -60°C to +130°C
- Deluge protection option
- Superior EMC performance

### TECHNICAL DATA

**Design Specification**
BS 6121: Part 1:1989, EN 62444, IEC 62444

**Mechanical Classifications**
Impact = Level 8, Cable Anchorage = Class D

**Enclosure Protection**
IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only

**Electrical Classifications**
Category C

**Marine Approvals**
LRS: 01/00371 (E1), ABS: 16-LD1727056-PDA

**GOST R Certificate**
POCC GB AT35400102

**Ingress Protection Rating**
IP66

**Cable Gland Material**
Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

**Seal Material**
CMP Thermoset Rubber

**Armour Type**
Single Wire Armour (OWA), Aluminium Wire Armour (AWA)

**Sealing Technique**
Unique CMP ‘LRS’ Outer Seal (Load Retention Seal)

**Sealing Area(s)**
Cable Outer Sheath

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**Cable Gland Selection Table**
Refer to illustration at the top of the page.

For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass ‘5’; 316 Grade Stainless Steel ‘4’; Copper Free Aluminium ‘1’

**For NPT options add the following digits to the material suffix; ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 ½” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix ‘0’)

Examples: 32CWC1RA534 = Nickel Plated Brass 1¼” NPT, 50SCWC1RA035 = Brass 1½” NPT, 25CWC1RA432 = Stainless Steel ¾”, NPT, 20CWC1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

**CW CIEL**

The Symmetrical Fault Current (kA) rating for 1 second applicable to the Cast Integral Earth Lug featured in the CW CIEL products are as follows:

- 26.0 kA for Cable Gland sizes up to 40
- 43.0 kA for Cable Gland sizes 50S and above.

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**CW CIEL - CAST INTEGRAL EARTH LUG EQUIPPED PRODUCTS**

www.cmp-products.com
**E1W CIEL**

E1W Double Seal Industrial Cast Integral Earth Lug Cable Gland

For all types of Steel & Aluminium Wire Armoured Cables

- External earth connection
- Third party short circuit tested
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently cramped, low impedance earth termination
- Secure against self-loosening
- Displacement type inner seal
- Unique OSTG prevents overtightening
- Controlled outer ‘load retention’ seal
- Deluge protection option
- -60˚C to +130˚C
- Superior EMC performance

---

**Cable Gland Selection Table**

| Metric | Thread Length (Metric) | Cable Bedding 
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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<tbody>
<tr>
<td>Size</td>
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<td>Option</td>
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<td>15.0 1/2&quot;</td>
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</tr>
<tr>
<td>120</td>
<td>15.0 1/2&quot;</td>
<td></td>
</tr>
</tbody>
</table>

---

**Dimensions**

- Dimensions listed below are for metric cable glands only
- Dimensions for alternative threads may vary, please see supplementary technical data sheet

---

**Notes**

- For material options please add the following suffix to the Ordering Reference: Brass (no suffix required), Nickel Plated Brass "5", Copper Free Aluminium "1"
- For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 4" = 39; 5" = 310 (Brass requires prefix ‘0’)

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**Technical Data**

- **Mechanical Classifications**: Impact = Level 8, Cable Anchorage = Class D
- **Enclosure Protection**: IK10 to IEC 62262 (10 joules) Brass & Stainless Steel only
- **Electrical Classifications**: Category C
- **Marine Approvals**: LRS: 0100171 (BT), ABS: 16-1D1472056-PDA
- **GOST R Certificate**: FCCG GB:AT36H00102
- **Ingress Protection Rating**: IP66 as standard (IP67, IP68 available upon request)
- **Cable Gland Material**: Brass, Electroless Nickel Plated Brass, Aluminium
- **Seal Material**: CMP Thermoset Rubber
- **Armour Type**: Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
- **Sealing Technique**: CMP Inner Displacement Seal & Unique CMP 'LRS' TM Outer Load Retention Seal
- **Sealing Area(s)**: Cable Inner Bedding & Outer Cable Sheath

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**Electrical Classifications**

- Category C
- **IP66** as standard (IP67, IP68 available upon request)

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**Armour Clamping**

- Detachable Armour Cone & AnyWay Universal Clamping Ring

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**Armour Clamping**

- **Cable Type**: Single Wire Armour (SWA), Aluminium Wire Armour (AWA)

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**Sealing Technique**

- CMP Inner Displacement Seal & Unique CMP ‘LRS’ TM Outer Load Retention Seal

---

**Electrical Classifications**

- Category C
- **IP66** as standard (IP67, IP68 available upon request)

---

**Seal Material**

- **Cable Gland Material**: Brass, Electroless Nickel Plated Brass, Aluminium
- **Seal Material**: CMP Thermoset Rubber
- **Armour Type**: Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
- **Sealing Technique**: CMP Inner Displacement Seal & Unique CMP ‘LRS’ TM Outer Load Retention Seal
- **Sealing Area(s)**: Cable Inner Bedding & Outer Cable Sheath

---

**Dimensions listed below are for metric cable glands only**

- Dimensions for alternative threads may vary, please see supplementary technical data sheet

---

**Notes**

- For material options please add the following suffix to the Ordering Reference: Brass (no suffix required), Copper Free Aluminium "1"
- For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 4" = 39; 5" = 310 (Brass requires prefix ‘0’)

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**Examples**

- 25ETW/CIEL1RA5/"E"/32 = Nickel Plated Brass 1¼" NPT, 50SE1WC1RA0/35 = Brass 1½" NPT, 20ETW/CIEL1RA5 = Nickel Plated Brass AWA

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Dimensions are displayed in millimetres unless otherwise stated.
For all types of Steel & Aluminium Wire Lead Sheathed Armoured Cables
- External & Internal Earth Connection
- Third party short circuit tested
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Superior EMC performance
- -60˚C to +130˚C
- Deluge protection option
- Unique OSTG prevents overtightening
- Controlled outer ‘load retention’ seal
- Displacement type inner seal
- Permanent crimped, low impedance earth termination
- Direct & remote installation
- Metal-to-metal armour clamping

Refer to illustration at the top of the page.

Cable Gland Selection Table

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Available Entry Threads</th>
<th>Lead Sheath Diameter *A</th>
<th>Overall Cable Diameter *B</th>
<th>Armour Range</th>
<th>Flats *C</th>
<th>Grommet Coners *D</th>
<th>Ring Flats *C</th>
<th>Overall Gland Dimensions</th>
<th>CIEL Earth Lug Size</th>
<th>Earth Fault Current Rating (kA)</th>
<th>Combined Ordering Reference</th>
<th>Cable Gland Weight (Kgs)</th>
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<td>Standard</td>
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<td>Max</td>
<td>Min</td>
<td>Max</td>
<td>Min</td>
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<td>Min</td>
<td>Max</td>
<td>Min</td>
</tr>
<tr>
<td>20S M20 10.0 ½&quot;</td>
<td>12.5</td>
<td>20.9</td>
<td>9.5</td>
<td>14.0</td>
<td>1.6</td>
<td>2.5</td>
<td>20.6</td>
<td>30.5</td>
<td>33.8</td>
<td>3.15</td>
<td>4.0</td>
<td>50.8</td>
</tr>
<tr>
<td>20S M20 10.0 ¾&quot;</td>
<td>19.9</td>
<td>31.5</td>
<td>11.1</td>
<td>19.3</td>
<td>1.25</td>
<td>1.6</td>
<td>37.5</td>
<td>41.3</td>
<td>89.0</td>
<td>38.1</td>
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<td>111.1</td>
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<td>17.0</td>
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<td>41.3</td>
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*Note: For material options please add the following suffix to change the Ordering Reference, Brass (no suffix required), Nickel Plated Brass “5”, Copper Free Aluminium “1”.

**When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request.

Dimensions listed below are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

www.cmp-products.com

The Symmetrical Fault Current (kA) rating for 1 second applicable to the Cast Integral Earth Lug featured in the E2W CIEL products are as follows:
- 26.0 kA for Cable Gland sizes up to 40
- 43.0 kA for Cable Gland sizes 50S and above.
ZEN Insulated Cable Glands

The CMP ZEN Range of Insulated Cable Glands enables an innovative approach for electrical cable installations. Providing a method which permits the zoning of earth connections for earthed neutral system of supply. CMP ZEN Cable Glands provide flexibility in the design of the earthing circuit and means of testing earth circuits without disconnecting the Cable Gland.

Circulating currents can be eliminated and cable noise in instrument cables can be controlled by single point earthing. Insulated components are available in materials tested for use in containment areas of nuclear type pressurised water reactor power stations.

CMP ZEN range of Cable Glands are available to suit cables with steel and aluminium wire armour, aluminium strip armour and steel tape armour.

Designed in accordance with BS6121, IEC 62444 and EN 62444. Specified extensively in the UK Power Stations and tested to GDCD190 specification.

Other cable gland solutions specifically designed for terminating screened variable speed drive (VSD) and EMC cables are available with and without an insulated connection. Please contact CMP for further details if required.
Cable Gland Selection Table

Refer to illustration at the top of the page.

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Dimensions are displayed in millimetres unless otherwise stated.
B367 Z368

Insulated Industrial Cable Gland

For all types of Braided & Tape Armoured Cables

- Metal-to-metal armour clamping
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Direct & remote installation
- Enables zoning of earthed neutral systems
- Eliminates circulating currents
- High capacity external earth connection (B367)
- Third party short circuit tested
- Controlled outer 'load retention' seal
- Unique OSG prevents overtightening
- -60°C to +130°C
- Superior EMC performance

**Technical Data**

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* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444

** When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

Dimensions are displayed in millimetres unless otherwise stated

Cable Gland Selection Table

Refer to illustration at the top of the page.
**Cable Gland Selection Table**

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<th>Across Corners “D”</th>
<th>Protrusion Length “F”</th>
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Dimensions are displayed in millimetres unless otherwise stated.

**Cable Gland Selection Table**

- **Cable Gland Selection Table**
- **Refer to illustration at the top of the page.**

**TECHNICAL DATA**

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<th>Type</th>
<th>B327 / B350</th>
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<td>Enclosure Protection</td>
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<td>Seal Material</td>
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<td>Sealing Area(s)</td>
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**Earth Tags can only be fitted to the B350 & A350 ZEN gland types.**

The Symmetrical Fault Current (kA) rating for 1 second applicable to the Cast Integral Earth Lug featured in the B327 and A327 products are as follows:

- 26.0 kA for Cable Gland sizes up to 40
- 43.0 kA for Cable Gland sizes 50S and above

Please refer to the CMP CW CIL product page for dimensional details of the Cast Integral Ear Lug feature included in the B327 and A327 designs.

Aluminium version available for AWA cables. When ordering please substitute letter A in B327 & B350 with letter A.

**When CMP installation accessories are used: Refer to page 7 or www.cmp-products.com for further information.**

- High quality durable materials
- Robust, heavy duty insulated design
- Metal-to-metal armour clamping
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Direct & remote installation
- Enables zoning of earthed neutral systems
- Eliminates circulating currents
- High capacity external earth connection (B327)
- Third party short circuit tested
- Controlled outer “load retention” seal
- Unique OSTG prevents overtightening
- -60°C to +130°C
- Superior EMC performance

**Cable Gland Selection Table**

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Clearance Hole Diameter “C”</th>
<th>Overall Cable Diameter “B”</th>
<th>Armour Range</th>
<th>Across Flats “D”</th>
<th>Across Corners “D”</th>
<th>Protrusion Length “F”</th>
<th>Ordering Reference (Brass Metric)</th>
<th>Shroud (B350)</th>
<th>Cable Gland Weight (Kg)</th>
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</table>

Dimensions are displayed in millimetres unless otherwise stated.

**Techspec ZEN - Insulated Cable Gland**

For all types of Steel & Aluminium Wire Armoured Cables with a Metallic Tape Screen

- High quality durable materials
- Robust, heavy duty insulated design
- Metal-to-metal armour clamping
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Direct & remote installation
- Enables zoning of earthed neutral systems
- Eliminates circulating currents
- High capacity external earth connection (B327)
- Third party short circuit tested
- Controlled outer “load retention” seal
- Unique OSTG prevents overtightening
- -60°C to +130°C
- Superior EMC performance
### Insulated Industrial Cable Gland

For all types of Steel & Aluminium Wire Armoured Cables

- High quality durable materials
- Robust, heavy duty insulated design
- Metal-to-metal armour clamping
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Direct & remote installation
- Enables zoning of earthed neutral systems
- Eliminates circulating currents
- High capacity external earth connection (B347)
- Third party short circuit tested
- Controlled outer ‘load retention’ seal
- Unique OSTG prevents overtightening
- -60°C to +130°C
- Superior EMC performance

#### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Type</th>
<th>B323 / B347</th>
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<tr>
<td>Mechanical Classifications*</td>
<td>Impact = Level 8, Cable Anchorage = Class D</td>
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<tr>
<td>Enclosure Protection</td>
<td>IK10 to IEC 62262 (30 joules) Brass &amp; Stainless Steel only</td>
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<tr>
<td>Electrical Classifications*</td>
<td>Category B (B323) &amp; Category C (B347)</td>
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<td>GOST R Certificate</td>
<td>POCC GB.A35.M00102</td>
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<td>Ingress Protection Rating**</td>
<td>IP66</td>
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<td>Cable Gland Material</td>
<td>Brass</td>
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<td>Alternative Cable Gland Material</td>
<td>Nickel Plated Brass, Aluminium, Stainless Steel</td>
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<td>Seal Material</td>
<td>CMP Thermoset Rubber</td>
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<tr>
<td>Cable Type</td>
<td>Single Wire Armour (SWA), Aluminium Wire Armour (AWA)</td>
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<tr>
<td>Armour Clamping</td>
<td>Three Part Armour Lock With AnyWay Universal Clamping Ring</td>
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<tr>
<td>Sealing Technique</td>
<td>Unique CMP ‘LRS’ TM Outer Seal (Load Retention Seal)</td>
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<tr>
<td>Sealing Area(s)</td>
<td>Cable Outer Sheath</td>
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* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444
** When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

#### Cable Gland Selection Table

Refer to illustration at the top of the page.

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Entry Thread “C”</th>
<th>Cable Bedding Diameter “A”</th>
<th>Overall Cable Diameter “B”</th>
<th>Armour Range</th>
<th>Across Flats “D”</th>
<th>Across Corners “D”</th>
<th>Protrusion Length “F”</th>
<th>Ordering Reference Without CIEL lug (B323)</th>
<th>With CIEL lug (B347)</th>
<th>Shroud (B323)</th>
<th>Cable Gland Weight (Kgs)</th>
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<td>PVC11</td>
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</tbody>
</table>

Dimensions are displayed in millimetres unless otherwise stated.
Explosive Atmosphere Cable Glands

CMP Products offers Explosive Atmosphere Cable Glands that are tested and certified to the latest international technical standards and through its programme of continuous product development always strives to maintain its certification in line with the very latest technical knowledge or state of the art, bringing global products to a world that can expect only the best from CMP in terms of compliance with up to date specifications and standards.

CMP offer certified Cable Gland options for all types of cable, with Ex d, Ex e, Ex nR and Ex ta forms of protection.

Global certification including ATEX, IECEx, EAC, cCSAus, and UL enables the possibility of selecting fewer standard products for multipal situations.

Some solutions in the standard CMP Explosive Atmosphere range offer Bi-code approvals allowing their deployment under both IEC, NEC & CEC installation codes of practice.

All Cable Glands shown in Nickel Plated Brass, alternative materials are available.
Triton CDS - Right First Time Installation

Triton T3CDS cable glands deliver a unique concept in cable sealing techniques incorporating the patented Compensating Displacement Seal system, CDS™.

Introduced to effectively handle all types and sizes of cable construction taking away the concern of the operator, letting the product do the job instead.

This concept provides effective sealing on the cable inner sheath, utilising a proven reliable and robust flameproof sealing device. The Compensating Displacement Seal (CDS) System has helped CMP to take its original displacement sealing ring concept to another level. The unique Compensator has allowed the cable gland components to be fully tightened metal-to-metal and relieve the potential excess forces that could be transferred to the cable bedding, eliminating cable damage.

CDS System Inner Flameproof Seal

- Unique Compensating Displacement Seal (CDS) system, compatible with all types of cable
- At the critical cable sealing point the CDS system protects the cable inner sheath from any excess force, which is transferred to and absorbed by the internal compensator incorporated in the CDS system
- Allows the Cable Gland to be tightened metal-to-metal every time regardless of cable diameter
Practical Installation Benefits

- Fully sequential, three step make off procedure
- Quick and easy assembly process, with metal-to-metal installation every time
- CMP make no exaggerated claims concerning its speed of installation but guarantee a “Right First Time” installation well within the highest expectations prescribed
- This “Right First Time” installation concept, helps to reduce “down time” during plant construction whilst instilling peace of mind in the user
- EMC Noise Reduction levels for radiation emissions comply with the current European guidelines (providing in the region of 50db attenuation when terminated with screened cable)
- Complies with Low Voltage Directive 73/23/EEC
- Uniform hexagon profile

Deluge Protection Seal

- Deluge Protection by means of tried & tested “O” ring feature – Simple and effective arrangement.
- Internal Deluge seal is not exposed to mechanical damage or ultra violet radiation after installation and is completely protected in its operational working life, Latest design limits the potential for over tightening.
- There is no need to “Pull” or re-position the deluge seal on installation or subsequent re-assembly after inspection, as the CMP “O” Ring arrangement engages automatically during a simple installation procedure providing effective protection every time.
- Third Party tested to Shell DTS:01

Additional Options

- Version for effective termination of lead sheathed cables, designated type (T3CDS/PB)
- T3CDSVAR version available for variable speed drive cables with a copper tape screen
- Integral Entry Thread Seal, which removes the need for separate sealing washers. Designation type RT3CDS or RT3CDS/PB

www.cmp-products.com
For all types of Armoured Cables

- Fully sequential, three step installation procedure
- Reduces installation times, cost & risk
- Direct & remote installation
- Reduces installation times, cost & risk
- Fully sequential, three step installation procedure

For all types of Armoured Cables
- Globally marked, IECEx, ATEX, UL & cCSAus
- -60˚C to +130˚C (standard), -20˚C to 200˚C (ThermEx option)
- Designed to reduce the effects of Coldflow
- Unique compensating displacement seal system (CDS)
- Direct & remote installation
- Reduces installation times, cost & risk
- Fully sequential, three step installation procedure

For all types of Armoured Cables
- Triton CDS (T3CDS) Globally Approved, Explosive Atmosphere Cable Gland
- STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA),
- Grooved Cone (X) is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.
- Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below.

**Dimensions listed below are for metric cable glands only**

### Cable Gland Selection Table

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<tr>
<th>Available Entry Threads &quot;E&quot;</th>
<th>Metric Thread Length (Metric) &quot;E&quot;</th>
<th>NPT Thread Length (NPT) &quot;E&quot;</th>
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</table>

**Dimensions for alternative threads may vary, please see supplementary technical data sheet**
T3CDSPB

Triton CDS PB (T3CDSPB) Globally Approved, Explosive Atmosphere Cable Gland

For all types of Lead Sheathed Armoured Cables

- Effectively earths / grounds lead sheathed cables
- Fully sequential, three step installation procedure
- Direct & remote installation
- Unique compensating displacement seal system (CDS)
- Metal-to-metal installation every time regardless of lead sheath diameter
- Designed to reduce the effects of Coldflow
- Integral protected deluge seal
- Unique OSTG prevents overtightening
- Designed to reduce the effects of Coldflow
- Controlled outer ‘load retention’ seal
- Dimensional compactness
- Designed to reduce the effects of Coldflow
- Unique compensating displacement seal system (CDS)
- Direct & remote installation
- Fully sequential, three step installation procedure
- Effectively earths / grounds lead sheathed cables
- Metal-to-metal installation every time regardless of lead sheath diameter
- Designed to reduce the effects of Coldflow
- Integral protected deluge seal
- Unique OSTG prevents overtightening
- Designed to reduce the effects of Coldflow
- Controlled outer ‘load retention’ seal
- Dimensional compactness

Triton CDS PB (T3CDSPB) Globally Approved, Explosive Atmosphere Cable Gland

Gland

20S M20 15.0 ½" 19.9 ¾" 6.5 13.4 12.5 20.9 0.4 1.0 0.8 1.25 30.5 33.6 76.2 20 T3CDSPB 1RA PVC06 0.28

25S M25 15.0 ¾" 20.2 1" 11.1 19.3 12.5 22.0 0.4 1.0 0.8 1.25 24.0 26.4 78.7 25 T3CDSPB 1RA PVC09 0.44

32 S M32 15.0 1" 25.0 1½" 17.0 25.5 23.7 33.9 0.4 1.2 1.6 2.5 46.0 50.6 93.2 32 T3CDSPB 1RA PVC11 0.64

40 M40 15.0 1¼" 25.6 1¾" 22.0 31.2 29.7 40.4 0.4 1.6 1.6 2.0 55.0 60.5 93.2 40 T3CDSPB 1RA PVC15 0.91

50 M50 15.0 2" 26.9 2½" 33.6 42.6 40.4 53.0 0.6 1.6 2.0 2.5 70.1 77.1 105.8 50 T3CDSPB 1RA PVC21 1.61

63 S M63 15.0 2½" 35.6 42.6 40.4 53.0 0.6 1.6 2.0 2.5 90.0 99.0 110.6 63 T3CDSPB 1RA PVC28 2.58

75 M75 15.0 3" 41.5 3½" 59.1 65.2 66.7 78.4 0.6 1.6 2.5 3.0 100.0 110.0 130.3 75 T3CDSPB 1RA PVC36 3.34

90 M90 24.0 3½" 42.8 4" 66.6 77.1 76.2 90.3 0.8 1.6 3.15 4.0 115.0 126.5 138.9 90 T3CDSPB 1RA PVC42 4.89

100 M100 24.0 4" 42.8 4" 76.0 88.1 86.1 101.4 0.8 1.6 3.15 4.0 137.0 159.7 163.2 100 T3CDSPB 1RA LSFR 4.99

115 M115 24.0 4½" 44.0 5" 86.0 94.1 101.5 110.2 0.8 1.6 3.15 4.0 138.0 158.1 163.1 115 T3CDSPB 1RA LSFR 5.63

130 M130 24.0 5" 46.8 - 97.0 110.1 110.2 123.2 0.8 1.6 3.15 4.0 157.0 172.7 173.3 130 T3CDSPB 1RA LSFR 5.81

Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet

For ATEX options with the following suffixes in the standard table:
- No suffix: Category B
- Exd: Category B (Category A when used with braid, tape or pliable wire armour cables)
- Exia: Category B
- Ex d: Category B
- Ex ia: Category B
- Ex d: Category B
- Ex ia: Category B
- Ex d: Category B
- Ex ia: Category B
- Ex d: Category B
- Ex ia: Category B
- Ex d: Category B
- Ex ia: Category B
- Ex d: Category B
- Ex ia: Category B

Examples: 25S T3CDSPB 1RA PVC09 = Nickel Plated Brass ¾" NPT, 25T3CDSPB 1RA PVC23 = Stainless Steel ¾" NPT, 25S T3CDSPB 1RA PVC36 = Nickel Plated Brass M20

Dimensions and display accuracy subject to information stated

www.cmp-products.com

CMP PRODUCTS CABLE GLAND CATALOGUE

CMP EXPLOSIVE ATMOSPHERES PRODUCTS
A-100 Series - A2F100, A2e100 & RA2e100

100% Pull Test Resistance
Zero Special Conditions

Conforming to the latest national and international technical standards, the CMP A-100 series of Explosive Atmospheres cable glands has been designed, tested and certified to withstand the rigorous "100% pull test".

Due to its unique design, the A-100 series (A2F100, A2e100, RA2e100) removes the need for a cable clamp or cleat before the point of entry where the cable gland is installed; saving time and expense, whilst delivering products that are among the safest in the world.

The displacement-type sealing rings used in the CMP A-100 series are designed for explosion protection and mechanical cable retention in compliance with IEC 60079-0:2011. These sealing rings exceed the requirements of Clause A3.1.1, Annex A, of IEC 60079-0:2011, which refers to the cable pull out resistance test of 'clamping non-armoured and braided cables'.

The A-100 series is intended for use with all types of unarmoured and braided cables in Zone 1, Zone 2, Zone 21 and Zone 22 Explosive Atmospheres complying to the latest IEC 60079 standards and Class I Division 2 Hazardous Locations.

Additional Features

- Ingress Protection - Offered by CMP Products in the A-100 series includes IEC 60529 specification tests IP66, IP67 & IP68 to a depth of 60 metres for a period of two weeks.
- Deluge Protected - The same products have undergone extensive deluge testing to DTS 01 : 91 which surpasses the conditions required by IEC 60529, with accelerated aging tests replicated by a thermal endurance programme applied before the deluge testing process.
- Supplied as standard with IP66, Increased Safety Ex e rated Ingress Disc for quick installation.

Extreme Testing

In order to comply with IEC 60079-0:2011 cable glands must be tested for thermal endurance and then be capable of holding a variable but substantial force which is determined by the external cable diameter.

This thermal endurance test is designed to replicate the lifespan of the cable gland and sealing ring, and is intentionally harsh on the product’s material and characteristics. Through extensive research and development and due to the high grade of materials used at CMP, the A-100 series functions without fail even after thermal conditioning.

Ultimately the IEC standard requires the cable gland to hold a polished steel mandrel (in place of a cable), for a period of 6 hours, by use of the elastomeric sealing ring only, with a force in Newtons (N) applied equivalent to 20 times the cable diameter.

For a 20mm Ø cable, a 400N force is applied, which equates to 40.76Kgs with a maximum slippage of 6mm allowed. This is extremely difficult to achieve for most cable glands of this type.
The graph above shows a CMP A-100 series cable gland compared with a standard (25%) A2F A series cable gland illustrating force and slippage plotted against time.

### Eliminating ‘Special Conditions’

Where a product has not been tested to 100% load, or cannot meet the full test conditions of IEC 60079-0:2011, the standard permits a reduced load test equal to 25% of the declared values. In this case the product certification will contain a special condition, denoted by a suffix letter ‘X’ at the end of the certificate i.e. “Cable glands for use with unarmoured or braided cables are only suitable for fixed installations, the cable for which must be effectively clamped to prevent pulling and twisting”.

When this condition exists there is a need, defined in various installation standards for explosive atmospheres, to securely anchor the cable within a specified distance (preferably 300mm from the end of the cable gland). This is to ensure that the results of any rotational movement or twisting, and pulling forces or tension are not transferred to the cable conductors and their terminations inside the enclosure.

The CMP A-100 series eliminates the need for this additional clamping and surpasses the requirements of IEC 60079-0:2011 without the need for any special conditions.

Image showing A2F100 and A2F, explosive atmosphere cable glands from the A-100 and standard A series during cable anchorage test.
A2F100 Globally Approved, Explosive Atmosphere Cable Gland

For all types of Unarmoured & Braided Cables

- Complies 100% with IEC 60079-0 cable retention requirements
- No special conditions for safe use
- No external cable clamping required by certification
- Displacement type flameproof seal
- Deluge protected
- -60°C to +130°C
- Globally marked, IECEx, ATEX
- Complies 100% with IEC 60079-0 cable retention requirements

For all types of Unarmoured & Braided Cables

A2F100

Cable Gland Selection Table

Refer to illustration at the top of the page.

Dimensions listed below are for metric glands only

<table>
<thead>
<tr>
<th>Cable Gland Code</th>
<th>Form of Protection</th>
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</thead>
<tbody>
<tr>
<td>A2F100</td>
<td>ExdII1G E149/001004</td>
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TECHNICAL DATA

- Design Specification: BS 6121:Part 1;1999, IEC 62244, EN 62244
- Mechanical Classifications: Impact = Level 8, Cable Anchorage = Class B
- Enclosure Protection: IK10 to IEC 62262:2010 (joule) Brass & Stainless Steel only
- ATEX Certificate: SIRA8ATEX1013, SIRABATEX14020
- Code of Protection: SIRA16ATEX1018, SIRA16ATEX4020
- Compliance Standards: EN 60079-0:2015, EN 62262:2010
- IECEx Certificate: IECEx SIR 16.0006
- Code of Protection: Ex d IIC T6 Gb, Ex db IIC T6 Gb, Ex ta IIIC Da
- Compliance Standards: IEC 60079-0:2015
- ENC Certificate: (Formerly GOST R, K & R) IEC R C-GB.T05.800108
- IMETRO Approval: TUV 12.0619X
- RETIE Approval Number: 03966
- Marine Approvals: LR S1000172 (US) DNV: E-13848
- Ingress Protection Rating: IP66, IP67 & IP68
- Deluge Protection Compliance: DT501 : 91
- Cable Gland Material: Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
- Seal Material: CMP SOLO LSF Halogen Free Thermoset Elastomer
- Cable Type: Unarmoured & Braided
- Sealing Technique: CMP Unique Displacement Seal Concept
- Sealing Area(s): Cable Outer Smooth

* Mechanical & Electrical Classifications applied as per IEC 62264 & EN 62244
** When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request

- Code of Protection: II 3G Ex nRc IIC Gc, II 2G, II 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
- Compliance Standards: IECEx SIR 16.0006

- Code of Protection: Ex db I Mb, Ex eb I Mb, Ex ta I Mb
- Compliance Standards: EN 60079-15:2017

- Code of Protection: Ex nI Mb, Ex d I Mb, Ex db I Mb
- Compliance Standards: EN 60079-7:2015

- Code of Protection: Ex d I Mb, Ex db I Mb
- Compliance Standards: EN 60079-21:2015

- Code of Protection: Ex db I Mb, Ex eb I Mb, Ex ta I Mb
- Compliance Standards: EN 60079-31:2015

- Code of Protection: II M2 Ex db I Mb, Ex eb I Mb
- Compliance Standards: EN 60079-17:2015

- Code of Protection: Ex db I Mb, Ex eb I Mb
- Compliance Standards: EN 60079-15:2017

- Code of Protection: Ex d I Mb, Ex db I Mb
- Compliance Standards: EN 60079-21:2015

- Code of Protection: Ex nI Mb, Ex d I Mb, Ex db I Mb
- Compliance Standards: EN 60079-7:2015

- Code of Protection: Ex d I Mb, Ex db I Mb
- Compliance Standards: EN 60079-21:2015

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed below are for metric glands only

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A2e100 Internationally Approved, Ex e, Explosive Atmosphere Cable Gland

For all types of Unarmoured & Braided Cables

- Complies 100% with IEC 60079-0 cable retention requirements
- No special conditions for safe use
- No external cable clamping required by certification
- Displacement type seal
- Deluge protected
- -60˚C to +130˚C
- Internationally marked, IECEx & ATEX
- Deluge protected
- Displacement type seal
- No external cable clamping required by certification
- Complies 100% with IEC 60079-0 cable retention requirements

Refer to illustration at the top of the page.

Cable Gland Selection Table
For all types of Unarmoured & Braided Cables

Explosive Atmosphere Cable Gland
A2e100 Internationally Approved, Ex e,

Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

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<tr>
<th>Cable Gland Size</th>
<th>Available Entry Threads °C</th>
<th>Overall Cable Diameter &quot;A&quot;</th>
<th>Across Flats &quot;D&quot;</th>
<th>Across Corners &quot;D&quot;</th>
<th>Protection Length &quot;F&quot;</th>
<th>Standard</th>
<th>Option</th>
<th>Gland</th>
<th>Cable</th>
<th>Combined Ordering Reference</th>
<th>Shroud</th>
<th>Cable Gland Weight (Kgs)</th>
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* For material options and the following suffix to the Ordering Reference. Braces not required. Nickel Plated Brass - "5"; 304L Stainless Steel - "4"; Copper Free Aluminium - "1"; Brass - "0"; M32 - "32"; M63 - "36"; M80 - "38"; M100 - "40"; M125 - "42"; M160 - "44".

Dimensions are displayed in millimetres unless otherwise stated.

www.cmp-products.com
Cable Gland Selection Table

For all types of Unarmoured & Braided Cables

- Displacement type flameproof seal
- Deluge protected
- -60˚C to +130˚C (standard), -20˚C to 200˚C (ThermEx option)
- Globally marked, IECEx, ATEX & CSA

**A2F** Globally Approved, Explosive Atmosphere Cable Gland

Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet

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**CMP EXPLOSIVE ATMOSPHERES PRODUCTS**

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**TECHNICAL DATA**

Design Specification
BS 6121:Part 1:1989, IEC 62264, EN 62444

Mechanical Classifications
Impact = Level 8, Cable Anchorage = Class B

Enclosure Protection
Ex ia IIC T1 to IEC 62262 (20 jul) Brass & Stainless Steel only

ATEX Certificate
SIRA13ATEX1064X, SIRA13ATEX404AX

Code of Protection
IIB, II 1D Ex d IIC Gb; Ex e IIC Gb, Ex ta IEC Dia

Compliance Standards
EN 60079-0, 1, 15, 21

IECEx Certificate
IECEx SR 13.0023X, IECEx SR 14.0006

Code of Protection
Ex ia IIC Gb, Ex d ia IIC Gb, Ex nR IIC Gc, Ex ta IEC Dia, Ex de I Mb, Ex e I Mb

Compliance Standards
IEC 60079-0, 1, 15, 21

CSA Certificate
211841

Code of Protection
Class I, Div 2 Groups B, C and D; Class I, Div 2 Groups E, F and G; Class III, Div 2; Type 4X; Oil Resistant II; Ex d IIC, Ex e IIC, Ex nR IIC

Compliance Standards
C23.2 No. 0-4-9, 174, CAN/CSA-C22.2 No. 0-7, 15

RAC Certificate
(Technically FORM R, K & B) RC 90/G-B/80/0010

UK/SEPRO
UA 18.047.C.0644-13

KCS Certificate
13_G4A_B074X; 13_G4A_B074X; 13_G4A_B075X; 14_G4A_B0251X

NEPSI Certificate
24.23.1/2011/2005/503

Marine Approvals
LR.01.01127 (EN), DNV-GL-13848, ABS:14-LD33401A-4-PDA, BV: 43185A1

Ingress Protection Rating**
IP66, IP67, IP68***

Deluge Protection Compliance
DTS01:91

Cable Gland Material
Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

Seal Material
CMP SOLO LSF Halogen Free Thermoset Elastomer

Cable Type
Unarmoured & Braided when terminated inside enclosure

Sealing Technique
CMP Unique Displacement Seal Concept

Sealing Area(s)
Cable Outer Sheath

- **Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444**
- **When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.**
- **IP6X tested to a minimum depth of 50 metres for 12 hours, alternate depths/durations can be provided upon request.**

**Dimensions are displayed in millimetres unless otherwise stated**

---

**Cable Gland Selection Table**

Refer to illustration at the top of the page.

**Cable Gland Size**

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<tr>
<th>Standard</th>
<th>(Alternate Metric Thread Lengths Available)</th>
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**Overall Cable Diameter "A"**

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**Cable Gland Weight (Kgs)**

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<th>Cable Gland Weight (Kgs)</th>
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<td>IRX</td>
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**Notes:**

- (Brass Metric) Shroud
- (Steel Metric) Shroud
- (Nickel Metric) Shroud
- (Stainless Steel Metric) Shroud
- (Aluminium Metric) Shroud

**Examples:**


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**Dimensions for alternative threads may vary, please see supplementary technical data sheet**

**Contact CMP for further information.**

**www.cmp-products.com**
### Cable Gland Selection Table

Refer to illustration at the top of the page.

#### Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet.

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Available Entry Threads °C</th>
<th>Overall Cable Diameter &quot;A&quot;</th>
<th>Across Flats &quot;D&quot;</th>
<th>Across Corners &quot;D&quot;</th>
<th>Protection Length &quot;F&quot;</th>
<th>Combined Ordering Reference °C</th>
<th>Strands</th>
<th>Cable Gland Weight (Kgs)</th>
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<tr>
<td>Metric Thread Length</td>
<td>NPT</td>
<td>Standard</td>
<td>Option</td>
<td>Metric Thread Length</td>
<td>NPT</td>
<td>Min</td>
<td>Max</td>
<td>Max</td>
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<td>16 M16</td>
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<td>-</td>
<td>3.2</td>
<td>8.7</td>
<td>24.0</td>
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<td>½&quot;</td>
<td>19.9</td>
<td>1¾&quot;</td>
<td>3.2</td>
<td>8.7</td>
<td>24.0</td>
<td>26.4</td>
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<td>19.9</td>
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<td>26.3</td>
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<td>26.1</td>
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<td>60.5</td>
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<tr>
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<td>3&quot;</td>
<td>47.2</td>
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<td>61.1</td>
<td>68.2</td>
<td>84.0</td>
<td>92.4</td>
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<td>3 ½&quot;</td>
<td>42.8</td>
<td>4&quot;</td>
<td>66.6</td>
<td>79.9</td>
<td>108.0</td>
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<td>42.8</td>
<td>4&quot;</td>
<td>76.0</td>
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<td>123.0</td>
<td>135.3</td>
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<td>5&quot;</td>
<td>86.0</td>
<td>97.9</td>
<td>133.4</td>
<td>146.7</td>
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</tbody>
</table>

*For material options add the following suffix to the Ordering Reference: Brass (no suffix required); Nickel Plated Brass ‘5’; 316 Grade Stainless Steel ‘4’; Copper Free Aluminium ‘1’.

**When CMP installation accessories are used, refer to page 7 or www.cmp-products.com for further information.

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### TECHNICAL DATA

**Design Specification:**
- BS 6121:Part 1:1989, IEC 62444, EN 62444
- Impact = Level 8, Cable Anchorage = Class B

**Enclosure Protection:**
- IKT to IEC 62262 (20 (joulés) Brass & Stainless Steel only
- ATEX certificate: SIRA13ATEX1068, SIRA13ATEX4074

**Code of Protection:**
- ATEX Ex e IIC Gb
- ATEX Ex nR IIC Gc

**Compliance Standards:**
- EN 60079-0,7,31
- IECEx certificate: IECEx SR 13.0023X, IECEx SR 14.0006
- IECEx Ex e IIC Gb, Ex nR IIC Gc

**KCS Certificate:**
- 13_GA4BO_0749X; 13_GA4BO_0750X; 14_GA4BO_0251X

**NEPSI Certificate:**
- GYJ13.1140X / GYJ13.1282X

**CCOE / PESO (India) Certificate:**
- P333688

**Marine Approvals:**
- DNV: E-13848, ABS: 16-147809193A, LRS: 01/00172 (E3), BV: 43180/A3

**Ingress Protection Rating:**
- IP66, IP67 & IP68***

**Deluge Protection Compliance:**
- DTS01 : 91

#### Cable Gland Material
- Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

#### Seal Material
- CMP Unique Displacement Seal Concept

#### Sealing Technique
- Unarmoured & Braided when terminated inside enclosure

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### A2e

A2e Internationally Approved, Ex e, Explosive Atmosphere Cable Gland

For all types of Unarmoured & Braided Cables

- 10mm thread length on sizes 32 and below
- Displacement type seal
- Deluge protected
- -60°C to +130°C
- Internationally marked, IECEx & ATEX
RA2e

RA2e Internationally Approved, Ex e, Explosive Atmosphere Cable Gland

For all types of Unarmoured & Braided Cables

- Supplied with face seal
- 10mm thread length on sizes 32 and below
- Displacement type seal
- Deluge protected
- -60°C to +130°C
- Internationally marked, IECEx & ATEX

Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Selection Table
Refer to illustration at the top of the page.

<table>
<thead>
<tr>
<th></th>
<th></th>
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<tr>
<td>Metric Thread Length (Metric) “E”</td>
<td>NPT</td>
<td>Thread Length (NPT) “E”</td>
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<td>Min</td>
<td>Max</td>
<td>Max</td>
<td>Max</td>
<td>Size</td>
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<td>20S16 M20 10.0 ½” 19.9 ⅛” 3.2 8.7 27.0 29.7 20S16 RA2E IIA PVC04 0.070</td>
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<td>50 M50 15.0 ½” 26.1 ⅛” 31.0 38.2 60.0 66.0 50 RA2E IIA PVC18 0.260</td>
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<tr>
<td>63 M63 15.0 ⅜” 26.9 ⅛” 41.5 49.9 75.0 82.5 63 RA2E IIA PVC21 0.430</td>
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</table>

*Material options add the following suffix to the Ordering Reference: Brass (no suffix required); Nickel Plated Brass ‘1’; 316 Grade Stainless Steel ‘2’; Copper Free Aluminium ‘3’

For NPT options add the following digits to the material suffix: 60 = 0.625”, 1½” = 1.500”, 2” = 2.000” (Brass measured gauge 30)

Examples: 2RA2E1RA534 = Nickel Plated Brass 1½” NPT, 50RA2E1RA035 = Brass 1½” NPT, 2RA2E1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

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**Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444**

**When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.**

***IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request**

RA2e Internationally Approved, Ex e, Explosive Atmosphere Cable Gland

For all types of Unarmoured & Braided Cables

- Supplied with face seal
- 10mm thread length on sizes 32 and below
- Displacement type seal
- Deluge protected
- -60°C to +130°C
- Internationally marked, IECEx & ATEX
RA2e100 Internationally Approved, Ex e, Explosive Atmosphere Cable Gland

For all types of Unarmoured & Braided Cables

- Supplied with ingress disc
- Complies 100% with IEC 60079-0 cable retention requirements
- No special conditions for safe use
- No external cable clamping required by certification
- Deluge protected
- -60˚C to +130˚C
- Deluge protected
- Internationally marked, IECEx & ATEX
- Metric Thread Length

Refer to illustration at the top of the page.

Cable Gland Selection Table

Refer to illustration at the top of the page.

Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Available Entry Threads °C</th>
<th>Overall Cable Diameter &quot;A&quot;</th>
<th>Across Flats &quot;g&quot;</th>
<th>Across Corners &quot;D&quot;</th>
<th>Protection Length &quot;F&quot;</th>
<th>Combined Ordering Reference (Brass Metric)</th>
<th>Shroud</th>
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<tr>
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<td>Standard</td>
<td>NPT</td>
<td>Thread Length (NPT) &quot;E&quot;</td>
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<tr>
<td>16</td>
<td>M16</td>
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<td>1.5</td>
<td>19.9</td>
<td>16</td>
<td>3.2</td>
<td>8.0</td>
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<td>M20</td>
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<td>3”</td>
<td>34.5</td>
<td>44.0</td>
<td>76.4</td>
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<tr>
<td>130</td>
<td>M130</td>
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<td>39.9</td>
<td>3”</td>
<td>41.5</td>
<td>54.5</td>
<td>89.9</td>
</tr>
</tbody>
</table>

- **Metric Thread Length**
- *Examples: 32RA2E1001RA534 = Nickel Plated Brass 1¼” NPT, 50SRA2E1001RA035 = Brass 1½” NPT, 25RA2E1001RA432 = Stainless Steel ¾” NPT, 20RA2E1001RA5 = Nickel Plated Brass M20
- NPT options add the following digits to the material suffix; ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 ½” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix ‘0’)
- *Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444
- **When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.
- ***IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request
- Dimensions are displayed in millimetres unless otherwise stated

Dimensions for alternative threads may vary, please see supplementary technical data sheet

* For material options and the following suffix to the Ordering Reference: Brass (no suffix required); Nickel Plated Brass ‘5’; 316 Grade Stainless Steel ‘4’; Copper Free Aluminium ‘1’

Examples: 32RA2E1001RA534 = Nickel Plated Brass 1¼” NPT, 50SRA2E1001RA035 = Brass 1½” NPT, 25RA2E1001RA432 = Stainless Steel ¾” NPT, 20RA2E1001RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

www.cmp-products.com

CMP PRODUCTS CABLE GLAND CATALOGUE

CMP EXPLOSIVE ATMOSPHERES PRODUCTS
A2FFC Globally Approved, Flexible Conduit Explosive Atmosphere Cable Gland

For all types of Unarmoured & Braided Cables housed in conduit

- Designed for flexible & rigid conduits
- Rigid conduits require thread adaptor from conduit supplier
- Suitable for conduit with rubber sheath / coating
- Displacement type flameproof seal
- -60˚C to +130˚C

Technical Details

- Dimensions for alternative threads may vary, please see supplementary technical data sheet
- For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
- ** When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Entry Threads °C</th>
<th>Thread Length (Metric) &quot;E&quot;</th>
<th>Diameter of Cable °A</th>
<th>Specific Internal Diameter of Conduit °G</th>
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** Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 **

Dimensions listed below are for metric cable glands only

- A2FFC Globally Approved, Flexible Conduit Explosive Atmosphere Cable Gland
- For all types of Unarmoured & Braided Cables housed in conduit
- Designed for flexible & rigid conduits
- Rigid conduits require thread adaptor from conduit supplier
- Suitable for conduit with rubber sheath / coating
- Displacement type flameproof seal
- -60˚C to +130˚C

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<td>Copper Free Aluminium '1'</td>
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For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'

Examples:
- 32A2FFC1RA3480 = Nickel Plated Brass M20 suitable for conduit sized 18.7 ID - 24.0 OD
- 50SA2FFC1RA035C500 = Brass 1½” NPT, Diameter of Cable “A” 50SA2FFC1RA035C500 = Brass 1½” NPT, Diameter of Cable “B” 15.0
- 20A2FFC1RA5C075 = Nickel Plated Brass M20 suitable for conduit sized 18.7 ID - 24.0 OD
- 25A2FFC1RA7C085 = Nickel Plated Brass M25 suitable for conduit sized 28.0 ID - 35.0 OD

Technical Data

- ** Design Specification **
- ** Material Options **
- ** Thread Length **
- ** Diameter of Cable °A **
- ** Specific Internal Diameter of Conduit °G **
- ** Maximum External Diameter of Conduit °B **
- ** Across Flats °D **
- ** Across Corners °D **
- ** Protrusion Length °F **
- ** Maximum Envelope Diameter **
- ** Combined Ordering Reference °(Brass Metric) **
- ** Cable Gland Weight (Kgs) **

** For material options and the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'

** When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information. **

Dimensions displayed in milimeters unless otherwise stated

CMP PRODUCTS CABLE GLAND CATALOGUE
### Cable Gland Selection Table

Refer to the illustration at the top of the page.

**A2FRC**

- Globally Approved, Rigid & Flexible Conduit Explosive Atmosphere Cable Gland
- For all types of Unarmoured & Braided Cables housed in Conduit
- Designed for rigid & flexible conduits
- Easy install running coupler design
- Displacement type flameproof seal
- Designed for rigid & flexible conduits housed in Conduit
- For all types of Unarmoured & Braided Cables

**A2FRC** Globally Approved, Rigid & Flexible

**Ordering Reference**

- Male Thread Female Thread

- **20A2FRC1RA031**

- **20A2FRC1RA3102†**

Refer to ‘How to order’ page for complete list of ordering codes.

- Examples: 32A2FRC1RA533 = Nickel Plated Brass M32 male x 1” NPT female, 20S16A2FRC1RA031 = Brass M20 male x ½” NPT female, 25A2FRC1RA43202 = Stainless Steel ¾” NPT male x M25 female, 20A2FRC1RA5 = Nickel Plated Brass M20 male & female

**Dimensions listed below are for metric cable glands only**

**Dimensions for alternative thread may vary, please see supplementary technical data sheet**

**Seal Material**

- CMP 5010 LF Halogen-Free Thermostet Elastomer

**Cable Type**

- Unarmoured & Braided when terminated inside enclosure

**Sealing Technique**

- CMP Unique Displacement Seal Concept

**Sealing Area(s)**

- Cable Outer Sheath

**For NPT male and / or female options please add the following digits to the material suffix**

- (Brass requires prefix “0”)

- ½” = 31, ¾” = 32, 1” = 33, 1 ¼” = 34, 1 ½” = 35, 2” = 36, 2 ½” = 37, 3” = 38, 3 ½” = 39, 4” = 310

**Dimensions are displayed in millimetres unless otherwise stated**

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For NPT male or female options please add the following digits to the material suffix:

- ½” = 31, ¾” = 32, 1” = 33, 1 ¼” = 34, 1 ½” = 35, 2” = 36, 2 ½” = 37, 3” = 38, 3 ½” = 39, 4” = 310 (Brass requires prefix “0”)

**Examples:**

- 20A2FRC1RA026A2 = Nickel Plated Brass M20 Male x ½” NPT Female
- 20S16A2FRC1RA031 = Brass M20 Male x ½” NPT Female

**For NPT male or female options please add the following digits to the material suffix:**

- ½” = 31, ¾” = 32, 1” = 33, 1 ¼” = 34, 1 ½” = 35, 2” = 36, 2 ½” = 37, 3” = 38, 3 ½” = 39, 4” = 310 (Brass requires prefix “0”)

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**TECHNICAL DATA**

**Design Specification**

- BS 6121:Part 1:1989, IEC 62444, EN 62444

**Mechanical Classifications**

- Impact = Level II, Cable Anchorage = Class B

**Enclosure Protection**

- M10 to IEC 62262 (20 puukle) Brass & Stainless Steel only

**ATEX Certificate**

- SIRA13ATEX1068X, SIRA13ATEX4074X

**Code of Protection**

- II 2G II T4 Ex ic II T4 Ga, II 2G Ex ic Da, II 3G Ex nR IIC Gc

**Compliance Standards**

- IEC 60079-0,1,7,15,31

**IECEx Certificate**

- IECEx sb 10.0222X, IECEx SIM 14.0006

**Code of Protection**

- Ex ic II T4, Ex ic II, Ex Hf II, Enclosure Type 4x

**Compliance Standards**

- C22.2 N0.1-04, 94.174, CAN/CSA-E60735-01.7, 15

**EAC Certificate**

- TC RU C-GF.E506.B0011B

**UL/SEPRO**

- 9A.647.C.0644-15

**KCS Certificate**


**SCOE / PESO (India) Certificate**

- P113448

**NEPSI Certificate**

- 01103_11A002 / G013.1282X

**HMETRO Approval**

- TUV 12.6176X

**Retic Approval Number**

- 0866

**Marine Approvals**

- LME: 0100712 (E3), DNV: E1384B, BV: 431800A1

**Ingress Protection Rating**

- IP66

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**Cable Core Weight**

- For M10 to M100, please refer to page 7 or www.cmp-products.com for further information.
SS2K Double Seal, Globally Approved, Explosive Atmosphere Cable Gland

For all types of Unarmoured & Braided Cables

- Provides double seal on outer sheath or single on outer & inner
- Direct & remote installation
- Superior levels of cable retention
- Displacement type flameproof seals
- Secure against self-loosening
- Deluge protected
- -60˚C to +130˚C (standard), -20˚C to 200˚C (ThermEx option)
- Superior levels of cable retention
- Direct & remote installation
- Provides double seal on outer sheath or single on outer & inner

SS2K Double Seal, Globally Approved, Explosive Atmosphere Cable Gland

Cable Gland Selection Table

Refer to illustration at the top of the page.

- Ex e only version available
- Secure against self-loosening
- Deluge protected
- Displacement type flameproof seals
- Superior levels of cable retention
- Direct & remote installation
- Provides double seal on outer sheath or single on outer & inner

**CMP EXPLOSIVE ATMOSPHERES PRODUCTS**

www.cmp-products.com
### SS2KPB Double Seal, Internationally Approved, Explosive Atmosphere Cable Gland

For all types of Lead Sheathed Unarmoured Cables

- Effectively earths / grounds lead sheathed cables
- Direct & remote installation
- Superior levels of cable retention
- Displacement type flameproof seals
- Secure against self-loosening
- Effectively earths / grounds lead sheathed cables

**SS2KPB Double Seal, Internationally Approved, Explosive Atmosphere Cable Gland**

For NPT options add the following digits to the material suffix: ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 ½” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix '0')

Examples: 32SS2KPB1RA534 = Nickel Plated Brass 1¼” NPT, 50SSS2KPB1RA035 = Brass 1½” NPT, 25SS2KPB1RA432 = Stainless Steel ¾” NPT, 20SS2KPB1RA5 = Nickel Plated Brass M20

*For material options add the following suffix to the Ordering Reference: Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'

**Dimensions listed below are for metric cable glands only**

**Dimensions for alternative threads may vary, please see supplementary technical data sheet**

### Technical Data

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**For NPT options add the following digits to the material suffix: ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 ½” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix '0')

Examples: 32SS2KPB1RA534 = Nickel Plated Brass 1¼” NPT, 50SSS2KPB1RA035 = Brass 1½” NPT, 25SS2KPB1RA432 = Stainless Steel ¾” NPT, 20SS2KPB1RA5 = Nickel Plated Brass M20

*For material options add the following suffix to the Ordering Reference: Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'

**Conditions of protection: ATEX according to IECEx Regulations and ATEX Certification are only appropriate to protect equipment IP65 / IP67 / IP68. 

**Dimensions are displayed in millimetres unless otherwise stated

www.cmp-products.com
# Cable Gland Selection Table

Refer to illustration at the top of the page.

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*For material options add the following suffix to the Ordering Reference: Brass (no suffix required); Nickel Plated Brass ‘5’; 316 Grade Stainless Steel ‘4’; Copper Free Aluminium ‘1’.

**When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

***IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request.

Dimensions listed below are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

** Technical Data

- **Design Specification:** BS 6121:Part 1:1989, IEC 62444, EN 62444
- **Mechanical Classifications:** Impact = Level R, Cable Anchorage = Class B
- **Enclosure Protection:** IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
- **ATEX Certificate:** SIRA13ATEX1069X, SIRA13ATEX1069X
- **Code of Protection:** II 2G I II 1D Ex e IIC Gb, Ex ta IIIC Da
- **Compliance Standards:** EN 60079-0,1,7,15,31
- **IECEx Certificate:** IECEx SR 13.0224X, IECEx SM 14.0046
- **Code of Protection:** Ex e IIC Gb, Ex ta IIIC Da
- **Compliance Standards:** EN 60079-0,1,7,15,31
- **EAC Certificate:** TC-RU C-GDB.766.B00138
- **UskSEPRO:** UK.TR.G047.C.0644-15
- **CCOE / PESO (India) Certificate:** P333688
- **INMETRO Approval:** TDI 12.0879X
- **Ingress Protection Rating:** IP66, IP67 & IP68
- **Cable Gland Material:** Brass, Electroless Nickel Plated Brass, Stainless Steel
- **Seal Material:** CMP Solo LSF Halogen Free Thermost Set Elastomer
- **Cable Type:** 316L Stainless Steel
- **Sealing Technique:** CMP Unique Displacement Seal Concept
- **Sealing Area(s):** Steel Tape Armour and Cable Outer Sheath

- **Dimensions are displayed in millimetres unless otherwise stated.**

**Technical Data**

- **Design Specification:** BS 6121:Part 1:1989, IEC 62444, EN 62444
- **Mechanical Classifications:** Impact = Level R, Cable Anchorage = Class B
- **Enclosure Protection:** IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
- **ATEX Certificate:** SIRA13ATEX1069X, SIRA13ATEX1069X
- **Code of Protection:** II 2G I II 1D Ex e IIC Gb, Ex ta IIIC Da
- **Compliance Standards:** EN 60079-0,1,7,15,31
- **IECEx Certificate:** IECEx SR 13.0224X, IECEx SM 14.0046
- **Code of Protection:** Ex e IIC Gb, Ex ta IIIC Da
- **Compliance Standards:** EN 60079-0,1,7,15,31
- **EAC Certificate:** TC-RU C-GDB.766.B00138
- **UskSEPRO:** UK.TR.G047.C.0644-15
- **CCOE / PESO (India) Certificate:** P333688
- **INMETRO Approval:** TDI 12.0879X
- **Ingress Protection Rating:** IP66, IP67 & IP68
- **Cable Gland Material:** Brass, Electroless Nickel Plated Brass, Stainless Steel
- **Seal Material:** CMP Solo LSF Halogen Free Thermoset Elastomer
- **Cable Type:** Steel Tape Armour (STA)
- **Sealing Technique:** CMP Unique Displacement Seal Concept
- **Sealing Area(s):** Steel Tape Armour and Cable Outer Sheath

**For material options add the following suffix to the Ordering Reference: Brass (no suffix required); Nickel Plated Brass ‘5’; 316 Grade Stainless Steel ‘4’; Copper Free Aluminium ‘1’.

**When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

**IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request.

**Dimensions are displayed in millimetres unless otherwise stated.**
### Cable Gland Selection Table

<table>
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<th>Cable Gland Size</th>
<th>Standard</th>
<th>Option</th>
<th>Overall Cable Diameter</th>
<th>Armour Range</th>
<th>Across Flats &quot;D&quot;</th>
<th>Across Grommets &quot;D&quot;</th>
<th>Sealing Area(s)</th>
<th>Combined Ordering Reference (*Brass Metric)</th>
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**Footnotes:**
- For material options add the following suffix to the Ordering Reference: Brass (no suffix required); Nickel Plated Brass "N"; 316 Grade Stainless Steel "S"; Copper Free Aluminium "A".
- For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0').
- *For material & Electrical Classifications applied as per IEC 62444 & EN 62444.
- **When CMP installation accessories are used, refer to page 7 for www.cmp-products.com for further information.
- ***IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request.

### TECHNICAL DATA

- **Design Specification:** BS 6121:Part 1:1989, IEC 62444, EN 62444
- **Mechanical Classifications**: Impact = Level 8, Cable Anchorage = Class D
- **Enclosure Protection:** IEC to IEC 62262 (30 Joules) Brass & Stainless Steel only
- **Electrical Classifications**: Category B (Category A when used with braid, tape or pliable wire armour cables)
- **ATEX Certificate:** SRAT5ATEX1076X
- **Code of Protection:** Ex II 2G, II 3D, Ex e IIC, Gb, Ex t AEx Da
- **Compliance Standards:** EN 60079-0,7,11
- **IECEx Certificate:** IECEx SR13.0028X
- **Code of Protection:** Ex e IIC, Gb, Ex t AEx Da
- **Compliance Standards:** IEC 60079-0,7,11
- **EAC Certificate:** TR CU 018:GB.F008.B01038
- **UKSEPRO:** UA.TR.047.C.6444-15
- **CCO/E PESO (India) Certificate:** P331366
- **NEPSI Approval:** GY113.1140X
- **INMETRO Approval:** TVD 12.0617X
- **REITE Approval Number:** 03B66
- **Marine Approvals:** LRS: 0100172 (3) DKV: E13848 ABE: 16-124OD790191DA, BV: 4181BD/A1
- **Ingress Protection Rating:** IP66, IP67 & IP68***
- **Deluge Protection Compliance:** DT501 : 91
- **Cable Gland Material:** Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
- **Seal Material:** CMP SOLID LSF Halogen Free Thermostet Elastomer
- **Cable Type:** Single Wire Armature (SWA), Stainless Steel Wire Armature (AAW), Pliable Wire Armature (PWA), Steel Tape Armature (STA), Wire Braid Armature (e.g. GSWB), Aluminium Strip Armature (ASA), Screened Flexible (EMC) Wire Braid (e.g. CY 51/S), Armoured & Jacketed
- **Armour Clamping:** Reversible Armour Cone & AnyWay Universal Clamping Ring
- **Sealing Technique:** Unique CMP LRS Outer Seal (Load Retention Seal)
- **Sealing Areas:** Cable Outer Sheath
Cable Gland Selection Table

Refer to illustration at the top of the page.

Cable Gland Size

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*For material options add the following suffixes to the Ordering Reference: Brass (suffix required) Nickel Plate Brass “N” Stainless Steel “S” Copper Free aluminium “F”

For DIM options add the following digits to the material suffix: ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 ½” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix ‘0’)

Examples: 20S16 M20 15.0 8.7 6.1 13.1 0.3 1.0 24.0 26.4 48.0 20S16 CXE 1RA PVC04 0.10

Dimensions are displayed in millimetres unless otherwise stated.
### Cable Gland Selection Table

Refer to illustration at the top of the page.

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<th>Across Corners &quot;D&quot;</th>
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**Technical Data**

- **Mechanical Classifications**: Impact = Level B, Cable Anchorage = Class D
- **Enclosure Protection**: IEC 6262 (C0 (sleeve) Brass & Stainless Steel only
- **Electrical Classifications**: Category B
- **ATEX Certificate**: SIRA13ATEX1070X
- **Code of Protection**: Ex e IIC Gb, Ex ta IIC Da
- **Compliance Standards**: EN 60079-0, 2, 3, 11
- **IECex Certificate**: IECex SR 13.0023X
- **Code of Protection**: Ex e IIC Gb, Ex ta IIC Da
- **Compliance Standards**: EN 60079-0, 2, 3, 11
- **EAC Certificate**: TC RU C-G FED5801033
- **UL/SEPRO**: UAL-047.C.0644-15
- **NEPSI Certificate**: GY1311400X
- **CCOE / PESO (India) Certificate**: 933688
- **INMETRO Approval**: TVD 12.0671X
- **R&TTE Approval Number**: 03866

- **Ingress Protection Rating**: IP66 as standard (IP67, IP68**** available upon request)
- **Cable Gland Material**: Brass, Electross Nickel Plated Brass, Aluminium, Stainless Steel
- **Seal Material**: CMP SIL Halogen Free Thermoset Elastomer
- **Cable Type**: Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
- **Armour Clamping**: Detachable Armour Cone & AnyWay Universal Clamping Ring
- **Sealing Technique**: Outer Load Retention Seal (ULS)
- **Sealing Area(s)**: Oyster Cable Sheath

**Note**: *Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444**

**When CMP installation accessories are used, refer to page 7 for further information.**

**IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request**

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### CWe

**CWe Internationally Approved, Ex e, Explosive Atmosphere Cable Gland**

- For all types of Steel & Aluminium Wire Armoured Cables
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Controlled outer ‘load retention’ seal
- Unique OSTG prevents overtightening
- -60°C to +130°C
- Internationally marked, IECEx & ATEX
- Superior EMC performance

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**Dimensions are displayed in millimetres unless otherwise stated**
TE1FU Globally Approved, Explosive Atmosphere Cable Gland

For all types of Armoured Cables

- Stainless steel compact design
- Fully sequential, three step installation procedure
- Reduces installation times, cost & risk
- Unique direct & remote installation
- Integral protected deluge seal
- Controlled outer ‘load retention’ seal
- Metal-to-metal installation regardless of cable bedding diameter
- Unique compensating displacement seal system (CDS)
- Fully sequential, three step installation procedure

For all types of Armoured Cables

- Stainless steel compact design
- Fully sequential, three step installation procedure
- Unique direct & remote installation
- Integral protected deluge seal
- Controlled outer ‘load retention’ seal
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For all types of Armoured Cables

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- Fully sequential, three step installation procedure

For all types of Armoured Cables

- Stainless steel compact design
- Fully sequential, three step installation procedure
- Unique direct & remote installation
- Integral protected deluge seal
- Controlled outer ‘load retention’ seal
- Metal-to-metal installation regardless of cable bedding diameter
- Unique compensating displacement seal system (CDS)
- Fully sequential, three step installation procedure
Refer to illustration at the top of the page.

Cable Gland Selection Table

- Superior EMC performance
- Globally marked, IECEx, ATEX & cCSAus
- -60˚C to +130˚C
- Unique OSTG prevents overtightening
- Controlled outer ‘load retention’ seal
- Unique compensating displacement seal system (CDS)
- Direct & remote installation
- Reduces installation times, cost & risk
- Fully sequential, three step installation procedure
- Stainless steel compact design

For all types of Lead Sheathed Armoured Cables

**TE1FUPB Globally Approved, Explosive Atmosphere Cable Gland**

### TECHNICAL DATA

**Design Specification**
BS 6621 Part 1:1989, IEC 62444, EN 62444

**Mechanical Classifications**
Impact = Level B, Cable Anchorage = Class D

**Enclosure Protection**
K10 to IEC 62032 C22 (joules) Brass & Stainless Steel only

**Electrical Classifications**
Category 3 (Category A when used with braid, tape or pliable wire armour cables)

**ATEX Certificate**
EURAS 13ATEX1073X, EURAS 13ATEX4079X

**Code of Protection**
IEC 60079-0, IEC 60079-1, IEC 60079-14

**Compliance Standards**
EN60079-0, IECEx 13ATEX1073X, EEx e IIC Gb

**IECEx Certificate**
IECEx SR 13.0028 Ex IIC IIC, T515, 11.0374X

**EAC Certificate**
IECEx SIM 14.0007X, IECEx SIR 13ATEX1073X

**CE Marking**
EN60079-0, IEC 60079-1, IEC 60079-14

**CTI Certificate**
IECEx SIM 14.0007X, IECEx SIR 13ATEX1073X

**Exlosion Protection**
IECEx SIR 13ATEX1073X, IECEx SIM 14.0007X

**IP Protection**
IP66, IP67 & IP68

**Enclosure Protection**
Enclosure Type 3, 4 and 4X, Class I, Div 2, Groups A, B, C and D, Class II, Div 2, Groups E, F and G, Class III, Enclosure Type 3 and 4, Class I, Zone 1, IIA/II, IIIA, IIC, IIIIB

**BS 6121: Part 1:1989**

**IECEx Certificate**
IECEx SIM 14.0007X

**TÜV Approval**
TÜV 11.0374X

**Impact Protection Rating**
*IIECEx E100****

**DPS Protection Compliance**
DPS 101 - 91

**Cable Gland Material**
Stainless Steel

**Seal Material**
Cable Gland SOLO LSF Halogen Free Thermoset Elastomer

**Cable Type(s)**
Lead Sheathed and Single Wire Armour (LC/SWA), Lead Sheathed and Aluminium Wire Armour (LC/ASA), Lead Sheathed and Braid Armour (LC/ABA), Lead Sheathed and Steel Tape Armour (LC/STA), Lead Sheathed and Aluminium Strip Armour (LCASA)

**Armour Clamping**
Reversible Armour Clamping and AnyWay Universal Clamping Ring

**Sealing Technique**
Braid Intersecing Ring: Compensating Displacement Seal (CDS), Outer Seating Ring: Back-up Ring Seating Seal (URS)

**Sealing Area(s)**
Cable Intersecing Ring, Outer Cable Sheath

Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet

www.cmp-products.com

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**TE1FUPB**

Globally Approved, Explosive Atmosphere Cable Gland

For all types of Lead Sheathed Armoured Cables

- Stainless steel compact design
- Effectively eaths / grounds lead sheathed cables
- Fully sequential, three step installation procedure
- Reduces installation times, cost & risk
- Direct & remote installation
- Unique compensating displacement seal system (CDS)
- Metal-to-metal installation regardless of lead sheath diameter
- Integral protected deluge seal
- Controlled outer ‘load retention’ seal
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Globally marked, IECEx, ATEX & cCSAus
- Superior EMC performance

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**Sizes Available**

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**For NPT options add the following digits to the material suffix; ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 ½” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix ‘0’)***

**Examples:**
- 75M100TE1FUPB1RA434 = Stainless Steel 4” NPT
- 50S100TE1FUPB1RA435 = ½” NPT
- 225M100TE1FUPB1R6432 = Stainless Steel 1½” NPT

All dimensions are displayed in millimetres unless otherwise stated.

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CMP PRODUCTS CABLE GLAND CATALOGUE

CMP EXPLOSIVE ATMOSPHERES PRODUCTS

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1. **Cone (W) armoured used for Wire Armoured (SWA), Single Wire Armour (LC/SWA), Lead Tape Armour (LC/STA) and Aluminium Strip Armour (LCASA) only suitable for Single Wire Armour cables.**

2. **Cone (W) armoured shown in the Cable Gland Selection Table below for a double wire strand of blast sheathed cables.**

3. **Cone (W) armoured should be used for only a single layer of armour such as SWA for the range shown as is drawn in the table below.**

4. **Steped (W) Cone is suitable for Single Wire Armour (LC/SWA), or Aluminium Wire Armour (LC/ASA) and Pliable Wire Armour (LC/PWA) if the range is outside that of the strand of braid armour cables.** Tapes can also be doubled over. For cables that have only a single layer of Stepped Cone (W).

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For further information:
- **CMP Installation Accessories**
- **www.cmp-products.com**

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1. **Mechanical & Electrical Classifications as applied per IEC 62444 & EN 62444**

2. **When CMP Installation accessories are used refer to page 7 or www.cmp-products.com for further information.**

3. **IP68 tested to a minimum depth of 30 meters for 12 hours, alternate depths / durations can be provided upon request.**

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16/01/2017 15:04:01
E1FU Globally Approved, Explosive Atmosphere Cable Gland

For all types of Armoured cables
- Metal-to-metal armour clamping
- Direct & remote installation
- Displacement type flameproof inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents over tightening
- -60°C to +130°C
- Globally marked, IECEx, ATEX & cCSAus
- Superior EMC performance

**Dimensions listed below are for metric cable glands only**

Dimensions listed for alternative threads may vary, please see supplementary technical data sheet

**Contact CMP for further information.**

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### Cable Gland Selection Table

Refer to illustration at the top of the page.

- **Cable Gland Size**
- **Available From**
- **Thread **
- **Metric (mm) X 1/2**
- **NPT**
- **Length (NPT)**
- **Length (MM)**
- **Min**
- **Max**
- **Min**
- **Max**
- **Gland Diameter**
- **Overall Cable Diameter**
- **Armour Range**
- **Grounded X**
- **Stepped X**
- **Access Flats **
- **Across Corner /**
- **D**
- **Protrusion Length**
- **Combination of Ordering Reference**
- **(Brass Metric)**
- **Gland Weight Kg**
- **Type**
- **Ordering Suffix**

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**Note:** For material options please contact CMP Products for further information.

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**Mechanical & Electrical Classifications as applies per IEC 60244-6 EN 62444**

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**When CMP installation accessories are used. Please refer to page 7 of www.cmp-products.com for further information.**

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**If a gland is selected for use in Flavoured cables Type A or B, the gland should be used in the correct order as shown in the table below.**

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**Dimensions are displayed in millimeters unless otherwise stated.**

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**2017 full product catalogue DESKTOP WORKING FILE.indd 76**

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**16/01/2017 15:04:06**
E2FU Globally Approved, Approved, Explosive Atmosphere Cable Gland

For all types of Lead Sheathed Armoured cables
- Effectively earths / grounds lead sheathed cables
- Metal-to-metal armour clamping
- Direct & remote installation
- Displacement type flameproof inner seal
- Controlled outer ‘load retention’ seal
- Unique OSTG prevents overtightening

**Note:** For NPT options add the following digits to the material suffix; ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 ½” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix ‘0’)

**Dimensions listed below are for metric cable glands only**

For NPT installation, please see supplementary technical data sheet.

www.cmp-products.com
E1FX Internationally Approved, Explosive Atmosphere Cable Gland

For Braided & Steel Tape Armoured Cables

- Metal-to-metal armour clamping
- Direct & remote installation
- Displacement type flameproof inner seal
- Controlled outer "load retention" seal
- Unique OSTG prevents overtightening
- Controlled outer 'load retention' seal
- Displacement type flameproof inner seal
- Direct & remote installation
- Metal-to-metal armour clamping

For Braided & Steel Tape Armoured Cables

For Braided & Steel Tape Armoured Cables

For Braided & Steel Tape Armoured Cables

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For Braided & Steel Tape Armoured Cables

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For Braided & Steel Tape Armoured Cables

For Braided & Steel Tape Armoured Cables

Cable Gland Selection Table
Refer to illustration at the top of the page.

Dimensions listed below are for metric cable glands only
E2FX Internationally Approved, Explosive Atmosphere Cable Gland

- Superior EMC performance
- -60˚C to +130˚C
- Unique OSTG prevents overtightening
- Controlled outer 'load retention' seal
- Displacement type flameproof inner seal
- Direct & remote installation
- Metal-to-metal armour clamping
- Effectively earths / grounds lead sheathed cables

E2FX Internationally Approved, Explosive Atmosphere Cable Gland

Cable Type
Lead Sheath & Wire Braid Armour (LC/MB), Lead Sheath & Flexible Wire Armour (LC/PHM), Lead Sheath & Steel Tape Armour (LC/TSTA), Lead Sheath & Strip Armour (LC/CSA)

Armour Clamping
Detachable Armour Clamping & AnyWay Universal Clamping Ring

Sealing Technique
Cable inner Displacement Seal & Unique CMP 'LRS' TM Outer Load Retention Seal

Sealing Arrangement
Cable inner Bedding & Outer Cable Sheath

Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see technical data sheet

Cable Gland Selection Table
Refer to illustration at the top of the page.

 formations shown in the Cable Gland Selection Table below are for a decided type of lead sheathed armour cables. The table also indicates the size of cables that have a single layer of armour such as SWA the clamping range should be used as shown in the table below.
E1FW Globally Approved, Explosive Atmosphere Cable Gland

For all types of Steel & Aluminium Wire Armoured Cables

- Metal-to-metal cable clamping
- Direct & remote installation
- Dispersion type flameproof outer seal
- Controlled outer "load retention" seal
- Unique OSGT prevents overtightening
- Controlled outer 'load retention' seal
- Displacement type flameproof inner seal
- Metal-to-metal armour clamping

E1FW Globally Approved, Explosive Atmosphere Cable Gland

Cable Gland Selection Table

Refer to illustration at the top of the page.

- Superior EMC performance

Dimensions listed below are for metric cable glands only

Dimensions for alternative thread may vary, please see supplementary technical data sheet

** Mechanical & Electrical Classifications applied per IEC 62444 & EN 62444

*When CMP installation accessories are used, refer to page 7 or www.cmp-products.com for further information.

*** NPT to a minimum depth of 20 mm for 5.5 turns, alternate depths / durations can be provided upon request.
### Cable Gland Selection Table

- **Superior EMC performance**
- **Globally marked, IECEx, ATEX & cCSAus**
- **-60˚C to +130˚C**
- **Unique OSTG prevents overtightening**
- **Controlled outer ‘load retention’ seal**
- **Metal-to-metal armour clamping**
- **Effectively earths / grounds lead sheathed cables**

**E2FW Globally Approved, Explosive Atmosphere Cable Gland**

For Lead Sheathed Steel & Aluminium Wire Armoured Cables

**For NPT options add the following digits to the material suffix; ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 ½” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix ‘0’)***

- **Dimensions are displayed in millimetres unless otherwise stated**
- **Where applicable, dimensions are given in both metric and imperial**
- **When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.**
- **IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request.**

### Technical Data

- **Design Specification**: BS 6221 Part 1:1989, IEC 62444, EN 62444
- **Mechanical Classifications**: Impact = Level 8, Cable Anchorage = Class D
- **Enclosure Protection**: IP10 to IEC 62262 (20 joules) Brass & Stainless Steel only
- **Electrical Classifications**: Category B
- **ATEX Certificate**: SIRA13ATEX1007X
- **IECEx Certificate**: IECEx-IC04X0107X
- **Code of Protection**: E2FW
- **Compliance Standards**: EN 60079-0,1,7,15,31
- **IECEx Certificate**: SM-10X058K, IECEx SIM-14X007X
- **Compliance Standards**: IEC 60079-0,1,7,15,31
- **cCSAus Certificate (2015 - 90)**: 1301517
- **cCSAus Code of Protection**: Class I, Div 2, Groups A,B,C and D, Class II, Div 2, Groups E,F and G, Class III, Enclosure Type 3, and 4X, Class I, Zone 1, ATEX I, ATEX II
- **EAC Certificate**: TC RU C-G08 FE00018B
- **UKSEPRO**: UA 7R 047C 0644-15
- **KCS Certificate**: 14-GA0400-137X
- **CCOE / PESO (India) Certificate**: P333688
- **NPSI Certificate**: G911.1142X / G911.1282X
- **INMETRO Approval**: 12V 0.126.08X
- **REITE Approval Number**: 03866
- **Ingress Protection Rating**: IP66 as standard (IP67, IP68 **available upon request**)
- **Sealing Area(s)**: CMP SOLO LSF Halogen Free Thermoset Elastomer
- **Enclosure Protection**:两类
- **Cable Type**: Brass, Electroless Nickel Plated Brass, Aluminium
- **Seal Material**: CMP 500 LSF Halogen Free Thermoset Elastomer
- **Armour Clamping**: Detachable Armour Cone & AnyWay Universal Clamping Ring
- **Sealing Technique**: CMP Inner Displacement Seal & Unique CMP ‘LR8’ Outer Load Retention Seal
- **Sealing Arrangements**: Cable Inner Lead Covering & Cable Outer Shroud

### Available Entry Threads

- **Examples:** 32E2FW1RA534 = Nickel Plated Brass 1¼” NPT, 50SE2FW1RA035 = Brass 1½” NPT, 20E2FW1RA5 = Nickel Plated Brass M20

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**Dimensions listed below are for metric cable glands only**
Explosive Atmosphere RapidEx Barrier Cable Glands

RapidEx is a liquid pour, fast curing, liquid resin seal that installs in seconds and cures in minutes. Its unique formula begins with a low viscosity liquid that flows into the cable interstices completely surrounding the cable conductors, driving out the air in the process. The viscosity then increases and completely cures in minutes, dependent on ambient temperature.

During application the liquid resin flows between and around the cable conductors ensuring a complete and total seal with zero gaps. In the process of curing, the RapidEx resin adheres to both the cable conductors and the inside of the barrier tube creating a bond that is set for the life of the Cable Gland product.

The RapidEx seal will not crack or shrink with changes in temperature.

All Cable Glands shown in Nickel Plated Brass, alternative materials are available.
RapidEx - The Fast Curing, Gas Blocking, Liquid Resin Seal

The effective sealing of instrument and electrical cables should not be underestimated.

Traditional barrier type Cable Glands employing an epoxy-cured clay based sealing compound, have been used in the industry for many years, to provide effective explosion protection. However, a certain degree of skill is required with this traditional installation process and the risk of voids increases with the number of cable cores.

Multi-core cable requires the highest degree of competence and a long installation time to ensure a void-free, safe installation. An inability to recognize this will lead to rework, or risk of failure of the seal.

RapidEx is a liquid pour, fast curing, liquid resin barrier seal that installs in seconds and cures in minutes.

Its unique formula begins with a low viscosity liquid that flows into the cable interstices completely surrounding the cable conductors, and in the process displacing the air from the Cable Gland’s sealing chamber ensuring the ‘perfect seal’.

- The viscosity increases and completely cures in less than 40 minutes (at 68°F)
- Enhances reliability, reduces risk
- Delivers unprecedented reliability
- Minimizes installation time
- Clean and easy to use

CMP RapidEx is certified for use in hazardous locations with Global Certification including approval under NEC, CEC and IEC installation codes, and is supplied with a series of CMP barrier type cable glands and unions.
Cable Gland Selection Table

<table>
<thead>
<tr>
<th>Size</th>
<th>Metric Thread (Metric K)</th>
<th>NPT (&quot;F&quot;)</th>
<th>Max</th>
<th>Min Max</th>
<th>Min Max</th>
<th>Min Max</th>
<th>Min Max</th>
<th>Size Type</th>
<th>Ordering Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>20S M20 15.0 ½&quot;</td>
<td>19.9 N°</td>
<td>11</td>
<td>11.7</td>
<td>11.6</td>
<td>13.1</td>
<td>0.3</td>
<td>1.0</td>
<td>0.8</td>
<td>1.25</td>
</tr>
<tr>
<td>20S M20 15.0 ¾&quot;</td>
<td>19.9 N°</td>
<td>11</td>
<td>11.7</td>
<td>11.7</td>
<td>6.9</td>
<td>15.9</td>
<td>0.4</td>
<td>1.2</td>
<td>1.25</td>
</tr>
<tr>
<td>25S M25 15.0 ½&quot;</td>
<td>20.2 1&quot;</td>
<td>21</td>
<td>17.5</td>
<td>17.5</td>
<td>20.0</td>
<td>0.4</td>
<td>1.2</td>
<td>1.25</td>
<td>1.6</td>
</tr>
<tr>
<td>25S M25 15.0 ¾&quot;</td>
<td>20.2 1&quot;</td>
<td>21</td>
<td>17.5</td>
<td>17.9</td>
<td>18.2</td>
<td>26.2</td>
<td>0.4</td>
<td>1.2</td>
<td>1.25</td>
</tr>
<tr>
<td>32S M32 15.0 1&quot;</td>
<td>23.6 1½&quot;</td>
<td>38</td>
<td>23.6</td>
<td>23.7</td>
<td>33.9</td>
<td>46.0</td>
<td>0.6</td>
<td>1.4</td>
<td>2.0</td>
</tr>
<tr>
<td>40S M40 15.0 1½&quot;</td>
<td>25.6</td>
<td>1½&quot;</td>
<td>58</td>
<td>30.0</td>
<td>30.3</td>
<td>27.8</td>
<td>40.0</td>
<td>0.4</td>
<td>1.6</td>
</tr>
<tr>
<td>50S M50 15.0 2&quot;</td>
<td>26.1 2&quot;</td>
<td>89</td>
<td>36.9</td>
<td>36.9</td>
<td>35.2</td>
<td>46.7</td>
<td>0.4</td>
<td>2.0</td>
<td>2.0</td>
</tr>
<tr>
<td>50S M50 15.0 2½&quot;</td>
<td>26.9</td>
<td>2½&quot;</td>
<td>89</td>
<td>41.0</td>
<td>41.3</td>
<td>40.4</td>
<td>53.0</td>
<td>0.6</td>
<td>2.5</td>
</tr>
<tr>
<td>63S M63 15.0 2½&quot;</td>
<td>26.9</td>
<td>2½&quot;</td>
<td>115</td>
<td>47.9</td>
<td>48.4</td>
<td>45.6</td>
<td>59.4</td>
<td>0.6</td>
<td>2.5</td>
</tr>
<tr>
<td>75S M75 15.0 3&quot;</td>
<td>39.9</td>
<td>3½&quot;</td>
<td>115</td>
<td>53.7</td>
<td>54.0</td>
<td>53.6</td>
<td>65.8</td>
<td>0.6</td>
<td>2.0</td>
</tr>
<tr>
<td>75S M75 15.0 3½&quot;</td>
<td>39.9</td>
<td>3½&quot;</td>
<td>140</td>
<td>59.9</td>
<td>60.2</td>
<td>59.0</td>
<td>72.0</td>
<td>0.6</td>
<td>2.5</td>
</tr>
<tr>
<td>90S M90 20.0 3½&quot;</td>
<td>42.8 4&quot;</td>
<td>24.0</td>
<td>75.6</td>
<td>76.2</td>
<td>90.3</td>
<td>0.8</td>
<td>2.0</td>
<td>3.0</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Dimensions listed below are for metric cable glands only
Dimensions for alternative thread may vary, please see supplementary technical data sheet

Cable Gland Selection Table Refer to illustration at the top of the page.
Refer to illustration at the top of the page.

### Cable Gland Selection Table

- Superior EMC performance
- -60˚C to +85˚C
- Controlled outer ‘load retention’ seal
- Integral protected deluge seal
- Direct & remote installation
- Metal-to-metal armour clamping

**PX2KWREX** Globally Approved, Explosive Atmosphere RapidEx Barrier Cable Gland

For all types of Steel & Aluminium Wire Armoured Cables

| Metric | Thread Length (Metric) | NPT | Thread Length (NPT) | NPT | Max | Max | Min | Min | Max | Max | Max | Max | Size | Type | Ordering Suffix |
|--------|------------------------|-----|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|
| 20/16  | 15.0 1” 0.74 1/4” | 11 | 11.7 | 11.7 | 6.1 | 33.1 | 0.8 | 1.25 | 30.5 | 33.6 | 62.0 | 20/16 PX2KWREX | 18A | PVC06 | 0.34 |
| 20/16  | 15.0 0.78 1/2” | 11 | 11.7 | 11.7 | 9.5 | 15.9 | 0.8 | 1.25 | 30.5 | 33.6 | 63.0 | 20/16 PX2KWREX | 18A | PVC06 | 0.24 |
| 20/16  | 15.0 0.80 1” | 21 | 17.9 | 13.5 | 37.5 | 41.3 | 69.5 | 25 PX2KWREX | 18A | PVC09 | 0.37 |
| 20/16  | 15.0 0.80 1” | 21 | 17.9 | 13.5 | 37.5 | 41.3 | 69.5 | 25 PX2KWREX | 18A | PVC09 | 0.37 |
| 20/16  | 15.0 0.80 1” | 21 | 17.9 | 13.5 | 37.5 | 41.3 | 69.5 | 25 PX2KWREX | 18A | PVC09 | 0.37 |
| 20/16  | 15.0 0.80 1” | 21 | 17.9 | 13.5 | 37.5 | 41.3 | 69.5 | 25 PX2KWREX | 18A | PVC09 | 0.37 |
| 20/16  | 15.0 0.80 1” | 21 | 17.9 | 13.5 | 37.5 | 41.3 | 69.5 | 25 PX2KWREX | 18A | PVC09 | 0.37 |
| 20/16  | 15.0 0.80 1” | 21 | 17.9 | 13.5 | 37.5 | 41.3 | 69.5 | 25 PX2KWREX | 18A | PVC09 | 0.37 |
| 20/16  | 15.0 0.80 1” | 21 | 17.9 | 13.5 | 37.5 | 41.3 | 69.5 | 25 PX2KWREX | 18A | PVC09 | 0.37 |
| 20/16  | 15.0 0.80 1” | 21 | 17.9 | 13.5 | 37.5 | 41.3 | 69.5 | 25 PX2KWREX | 18A | PVC09 | 0.37 |
| 20/16  | 15.0 0.80 1” | 21 | 17.9 | 13.5 | 37.5 | 41.3 | 69.5 | 25 PX2KWREX | 18A | PVC09 | 0.37 |
| 20/16  | 15.0 0.80 1” | 21 | 17.9 | 13.5 | 37.5 | 41.3 | 69.5 | 25 PX2KWREX | 18A | PVC09 | 0.37 |
| 20/16  | 15.0 0.80 1” | 21 | 17.9 | 13.5 | 37.5 | 41.3 | 69.5 | 25 PX2KWREX | 18A | PVC09 | 0.37 |
| 20/16  | 15.0 0.80 1” | 21 | 17.9 | 13.5 | 37.5 | 41.3 | 69.5 | 25 PX2KWREX | 18A | PVC09 | 0.37 |
| 20/16  | 15.0 0.80 1” | 21 | 17.9 | 13.5 | 37.5 | 41.3 | 69.5 | 25 PX2KWREX | 18A | PVC09 | 0.37 |
| 20/16  | 15.0 0.80 1” | 21 | 17.9 | 13.5 | 37.5 | 41.3 | 69.5 | 25 PX2KWREX | 18A | PVC09 | 0.37 |
| 20/16  | 15.0 0.80 1” | 21 | 17.9 | 13.5 | 37.5 | 41.3 | 69.5 | 25 PX2KWREX | 18A | PVC09 | 0.37 |

**Note:** Mechanical & Electrical classifications apply as per IEC 60079-0, EN 62444

**When CMP installation accessories are used, refer to page 7 or www.cmp-products.com for further information.**

***Where the cable is permitted by code (NEC and/or CEC)**** IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request

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**Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex d I Mb, Ex e I Mb**

**IECEx Certificate**

- IECEx SIR 13.2372X, IECEx SR 14.0262X

**Compliance Standards**

- IEC 60079-0, IEC 62444

**CE**

- Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da

**Marine Approvals**

- TÜV 12.2073X

**Marine Approvals**

- INMETRO Approval

**Marine Approvals**

- P333688

**Marine Approvals**

- CCOE / PESO (India) Certificate

**Marine Approvals**

- UA.TR.047.C.0644-15
**PX2KXREX**

**Globally Approved, Explosive Atmosphere RapidEx Barrier Cable Gland**

- For all types of Braided & Tape Armoured Cables
- PX2KXREX Globally Approved, Explosive Atmosphere RapidEx Barrier Cable Gland
- **Globally marked, IECEx, ATEX & cCSAus**
- **-60˚C to +85˚C**
- **Controlled outer ‘load retention’ seal**
- Unique DSTG prevents overtightening
- **-60˚C to +85˚C**
- **Globally marked, IECEx, ATEX & cCSAus**
- **Superior EMC performance**

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**Cable Gland Selection Table**

Refer to illustration at the top of the page.

- **Available Entry Threads**
- **System**
- **Diameter Over Conductors ("A")**
- **Cable Bedding Diameter ("P")**
- **Overall Cable Diameter ("B")**
- **Armour Range 1 Grooved Cone (KX)**
- **Access Flats ("D")**
- **Access Corners ("C")**
- **Protrusion Length ("g")**
- **Combined Ordering Reference (Brass Metric)***
- **Shroud**
- **Cable Gland Weight (Kgs)**

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**Dimensions listed below are for metric cable glands only**

**Dimensions for alternative threads may vary, please see supplementary technical data sheet**

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**TCRU**

CMP’s RapidEx Gland is a fully Sealable, Versatile Gland, which is suitable for Single Wire Armoured (AWA), Armoured Tape / Cables (STA), Aluminium Strip Armoured (ASA), Steel Tape Armour (STA), Wire Braid Armour (SWA) and Polished Wire Armour (PWA) if the range is outside that of the Stepped Cone (W).

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**Examples:**

- 32PX2KXREX1RA432 = Stainless Steel 1"NPT, PX2KXREX1RA432 = Nickel Plated Brass 1"NPT

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**Notes:**

- For More information please add the following suffix to the ordering reference: Brass + metric thread size + suffix code 0, 90, 100, 120, 150, 180, 200 (suffix code 0 = Seamless Forger Protection Alternate)

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**References:**

- CMP EXPLOSIVE ATMOSPHERE RAPIDEX PRODUCTS
- CMP PRODUCTS CABLE GLAND CATALOGUE

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**For NPT options please add the following digits to the material suffix:**

- ½” = 31, ¾” = 32, 1” = 33, 1 ¼” = 34, 1 ½” = 35, 2” = 36, 2 ½” = 37, 3” = 38, 3 ½” = 39, 4” = 310 (Brass requires prefix “0”)

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**Dimensions for alternative threads may vary, please see supplementary technical data sheet**
**Cable Gland Material**
- Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

**Seal Material**
- CMP 5000 LF Hyaloglo Free Thermostatic Elactomer / RapidEx Barrier Compound
- Lead Sheathed & Single Wire Armour (LC/SWA), Lead Sheathed & Silver Wire Armour (LC/SWA), Lead Sheathed & Steel Tape Armour (LC/STA), Lead Sheathed & Aluminium Strip Armour (LC/ASA)

**Armour Clamping**
- Detachable Compound Tube / Cone & AnyWay Universal Clamping Ring

**Sealing Technique**
- Unique CMP "LS" Outer Seal (Load Retention Seal)

**Sealing Area**
- Inner Compound Barrier & Outer Sheath

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### Illustration

**Cable Gland Selection Table**

Refer to illustration at the top of the page.

**Dimensions listed below are for metric cable glands only**

**Dimensions for alternative threads may vary, please see supplementary technical data sheet**

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**PX2KPBREX Internationally Approved, Explosive Atmosphere RapidEx Barrier Cable Gland**

For all types of Lead Sheathed Armoured Cables
- Effectively earths / grounds lead sheathed cables
- RapidEx liquid pour sealing system
- Enhances reliability, reduces risk
- Manages hours run
- Reduces cost
- Metal-to-metal armour clamping
- Direct & remote installation
- Bainbridge's Outer 'load retention' seal
- ISO TGG prevents over tightening
- -60°C to +85°C
- Internationally marked, IECEx & ATEX
- Superior EMC performance

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**Technical Data**

- Mechanical Classifications: Impact = Level 8, Cable Anchorage Class = D
- Enclosure Protection: K10 to IEC 62262 (2) door Brass & Stainless Steel only
- Electrical Classifications: Category B (where used with braid, tape or pliable wire armour cables)
- ATEX Certificate: SIRA13ATEX072X, SIREAUS14ATEX078X
- Code of Protection: IP Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex d I Mb, Ex e I Mb
- Compliance Standards: EN 60079-0,17,15,31
- IECEx Certificate: IKEx SR. 13.0027X, IKEx SIM 14.0008X
- Code of Protection: Ex d IIC GB, Ex e IIC GB, Ex nR IIC GC, Ex ta IIC DA, Ex d I MB, Ex e I MB
- Compliance Standards: EN 60079-0,17,15,31
- Ul/SEPRO: UL TR 047.C.0444-15
- CE0 / PE5 (India) Certificate: F336668
- INMETRO Approval: TUV 12.2073X
- RETIE Approval Number: 00866
- Marine Approvals: LRIS 13.00712 (3) DNV: E-13948 ABS: 15L-0243341A-4-PDA, BV: 4180451
- Ingress Protection Rating: IP66, IP67 & IP68***
- Deluge Protection Compliance: DTS01 : 91

**PX2KPBREX**

- PX2KPBREX Internationally Approved, Explosive Atmosphere RapidEx Barrier Cable Gland

---

### Cable Gland Selection Table

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Cable Gland Material</th>
<th>Lead Sheath Diameter</th>
<th>Armour Range</th>
<th>Combined Ordering Reference (*Brass Metric)</th>
<th>Cable Gland Weight (Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric</td>
<td>Option</td>
<td>Number of Crosses</td>
<td>Diameter over Conductors &quot;A&quot;</td>
<td>Across Flats &quot;D&quot;</td>
<td>Across Cones &quot;E&quot;</td>
</tr>
<tr>
<td>300</td>
<td>Brass (no suffix)</td>
<td>12</td>
<td>5.8</td>
<td>7.8</td>
<td>9.8</td>
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<tr>
<td>320</td>
<td>Stainless Steel '4'</td>
<td>12</td>
<td>6.0</td>
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<td>10.0</td>
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<tr>
<td>350</td>
<td>Aluminum '1'</td>
<td>12</td>
<td>6.2</td>
<td>8.2</td>
<td>10.2</td>
</tr>
</tbody>
</table>

---

**Exa**

- Brass Metric

**ExNdExR**

- Stainless Steel Metric

**G**

- Lead Sheathed Metric

---

**Prefixes**

- For metric options, add the following suffixes to the Ordering Reference: Exa = Brass, ExNdExR = Stainless Steel, P2KPBREX = Nickel Plated Brass 1/2.3 **Dimensions are listed in millimetres unless otherwise stated**

---

**Note**

- *Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444
- **When CMP installation accessories are used, refer to page 7 or www.cmp-products.com for further information.
- ***IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request

---

**Designation**

- Examples: 32PX2KPBREX1RA534 = Nickel Plated Brass 1¼" NPT, 50SPX2KPBREX1RA035 = Brass 1½" NPT, 25PX2KPBREX1RA432 = Stainless Steel ¾" NPT, 20PX2KPBREX1RA5 = Nickel Plated Brass M20

---

**Dimensions are displayed in millimetres unless otherwise stated**

---

**Footnotes**

- 1 Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, STW) and Aluminium Strip Armour (ASA, ASA) to suit cable outer diameters for Single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Flexible Wire Armour (FWA) if the range is outside that of the Stepped Cone (W).
- 2 Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire armour such as SWA the clamping range should be used as shown in the table below.
- 3 Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W).
- 4 Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, STW) and Aluminium Strip Armour (ASA, ASA) to suit cable outer diameters for Single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Flexible Wire Armour (FWA) if the range is outside that of the Stepped Cone (W).
- 5 Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444
- **When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.
- ***IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request

PXSS2KREX Globally Approved, Explosive Atmosphere RapidEx Barrier Cable Gland

For all types of Unarmoured & Braid Cables

- RapidEx liquid pour sealing system
- Enhances reliability, reduces risk
- Reduces man hours
- Reduces cost
- Direct & remote installation
- Superior levels of cable retention
- Displacement type environmental seal
- Deluge protected
- -60°C to +85°C
- Globally marked, IECEx, ATEX & cCSAus

Refer to illustration at the top of the page.

Cable Gland Selection Table

Refer to illustration at the top of the page.

Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet

www.cmp-products.com
Cable Gland Selection Table

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Minimum Entry Thread (Metric) “C”</th>
<th>Minimum Thread Length “E”</th>
<th>Diameter Over Conductors “A”</th>
<th>Max Number Of Cables</th>
<th>Overall Cable Diameter “B”</th>
<th>Nominal Hose Bore Diameter “O”</th>
<th>Access Flats “p”</th>
<th>Nominal Connection Length “G”</th>
<th>Nominal Flats “D”</th>
<th>Max</th>
<th>Min</th>
<th>Max</th>
<th>Combined Ordering Reference</th>
<th>Shroud</th>
<th>Cable Gland Weight (Kgs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20X16</td>
<td>15.0</td>
<td>8.6</td>
<td>11</td>
<td>3.1</td>
<td>8.6</td>
<td>11</td>
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<td>8.6</td>
<td>13.0</td>
<td>30.0</td>
<td>33.0</td>
<td>51.1</td>
</tr>
<tr>
<td>20X16</td>
<td>15.0</td>
<td>8.6</td>
<td>11</td>
<td>3.1</td>
<td>8.6</td>
<td>16.0</td>
<td>30.0</td>
<td>33.0</td>
<td>51.1</td>
<td>16.0</td>
<td>82.5</td>
<td>20S16 PXSS2KREXHC16</td>
<td>1RA</td>
<td>P3006 0.220</td>
<td></td>
</tr>
<tr>
<td>20X16</td>
<td>15.0</td>
<td>11.7</td>
<td>11</td>
<td>6.1</td>
<td>11.7</td>
<td>16.0</td>
<td>30.0</td>
<td>33.0</td>
<td>49.3</td>
<td>16.0</td>
<td>82.5</td>
<td>20S16 PXSS2KREXHC16</td>
<td>1RA</td>
<td>P3006 0.220</td>
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</tr>
<tr>
<td>20X20</td>
<td>15.0</td>
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<td>11</td>
<td>6.5</td>
<td>14.0</td>
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<tr>
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<td>P3018 1.070</td>
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<tr>
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<td>35.6</td>
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<td>66.0</td>
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<td>54.0</td>
<td>132.1</td>
<td>50</td>
<td>50S16 PXSS2KREXHC50</td>
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<td>P3018 1.070</td>
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<tr>
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<td>115</td>
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<td>77.1</td>
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<td>75S16 PXSS2KREXHC75</td>
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<td>P3026 2.500</td>
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<td>140</td>
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<td>67.9</td>
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<td>P3027 1.960</td>
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</tbody>
</table>

*The protrusion and overall lengths stated vary after installation, depending upon the overall cable diameter.

**For material options add the following suffixes to the Combined Ordering Reference: Brass and Stainless Steel: “B”. Epoxy Resin Sealing: “E”. Copper-Free Aluminium: “F”.

Examples: 50S16PXSS2KREXHC51B = Nickel Plated Brass 50mm, 25S16PXSS2KREXHC25F = Stainless Steel 25mm.

Dimensions listed above are for metric cable glands only.

Dimensions for alternative threads may vary, please see supplementary technical data sheet.
PXRCREX Globally Approved, Explosive Atmosphere RapidEx Barrier Cable Gland

For all types of Unarmoured & Braid Cables housed in Conduit

- RapidEx liquid pour sealing system
- Enhances reliability, reduces risk
- Reduces man hours
- Reduces cost
- Designed for rigid & flexible conduits
- Easy install running coupler design
- Compound barrier type flameproof seal
- -60˚C to +85˚C

For all types of Unarmoured & Braid Cables housed

Atmosphere RapidEx Barrier Cable Gland

PXRCREX Globally Approved, Explosive Gland

When NPT male & Metric female product option is required, please add the following digits to the material and NPT male... table above) ; M20 = 02, M25 = 03, M32 = 04, M40 = 05, M50 = 06, M63 = 07, M75 = 08, M90 = 09 (Brass requires prefix “0”)

For Metric female threads please insert ‘0’ before thread size code

Cable Gland Selection Table

Refer to illustration at the top of the page.

Cable Gland Selection Table

Refer to illustration at the top of the page.

Available Entry Threads: "C" (Alternate Metric Thread Lengths Available)

Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet

Dimensions are displayed in millimetres unless otherwise stated

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16/01/2017 15:01:29
Explosive Atmosphere Compound Barrier Cable Glands

CMP Barrier Cable Glands are generally used for two different applications in the IEC world. Barrier Cable Glands may either be required to prevent gas, vapour or fluid from migrating through a cable, or prevent flame transmission from a Flameproof type 'd' enclosure, as determined by IEC 60079-14.

The compound barrier seal is made on site by the technician completing the installation and is used primarily in explosive atmospheres, as required by the installation code.

All Cable Glands shown in Nickel Plated Brass, alternative materials are available.
Cable Gland Selection Table

- Globally marked, IECEx, ATEX, UL & CSAs
- Unique OSTG prevents overtightening
- Controlled outer ‘load retention’ seal
- For all types of Armoured cables

PX2K Globally Approved, Explosive Atmosphere Barrier Cable Gland

For all types of Armoured cables
- Metal-to-metal armour clamping
- Direct & remote installation
- Compound barrier type flameproof seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents over-tightening
- Integral protected deluge seal
- -60°C to +85°C
- Globally marked, IECEx, ATEX, UL & CSAs
- Superior EMC performance

Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet

For NPT options add the following digits to the material suffix; ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 ½” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix '0')

Examples: 32PX2K1RA534 = Nickel Plated Brass 1¼” NPT, 50SPX2K1RA035 = Brass 1½” NPT, 25PX2K1RA432 = Stainless Steel ¾” NPT, 20PX2K1RA5 = Nickel Plated Brass M20

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PX2XXK Globally Approved, Explosive Atmosphere Barrier Products

For all types of Braided & Tape Armoured Cables

- Metal-to-metal armour clamping
- Direct & remote installation
- Compound barrier type flameproof seal
- Controlled outer 'load retention' seal
- Compound barrier type flameproof seal
- Metal-to-metal armour clamping

Cable Gland Selection Table

<table>
<thead>
<tr>
<th>Cable Size</th>
<th>Metric</th>
<th>Thread Length</th>
<th>Overall</th>
<th>Protrusion</th>
<th>Protection</th>
<th>Type</th>
<th>Suffix</th>
<th>Weight (Kgs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25S6</td>
<td>15.0</td>
<td>1 1/4</td>
<td>25.0</td>
<td>1 1/4</td>
<td>18.7</td>
<td>E (Cable)</td>
<td>PVC06</td>
<td>0.24</td>
</tr>
<tr>
<td>20S6</td>
<td>15.0</td>
<td>1 1/4</td>
<td>25.0</td>
<td>1 1/4</td>
<td>18.7</td>
<td>E (Cable)</td>
<td>PVC06</td>
<td>0.24</td>
</tr>
<tr>
<td>63S6</td>
<td>15.0</td>
<td>1 1/4</td>
<td>25.0</td>
<td>1 1/4</td>
<td>18.7</td>
<td>E (Cable)</td>
<td>PVC06</td>
<td>0.24</td>
</tr>
<tr>
<td>90S6</td>
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<td>1 1/4</td>
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<td>1 1/4</td>
<td>18.7</td>
<td>E (Cable)</td>
<td>PVC06</td>
<td>0.24</td>
</tr>
</tbody>
</table>

Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet

For Dimensions of metric cable glands only please see supplementary technical data sheet

- Metal-to-metal armour clamping
- Direct & remote installation
- Compound barrier type flameproof seal
- Controlled outer 'load retention' seal
- Compound barrier type flameproof seal
- Metal-to-metal armour clamping

Cable Gland Selection Table

<table>
<thead>
<tr>
<th>Cable Gland Option</th>
<th>Available Entry Threads °C</th>
<th>(Alternate Metric Thread Lengths Available)</th>
<th>Option</th>
<th>Diameter of Conductor °A</th>
<th>Cable Diameter °G</th>
<th>Overall Cable Diameter °B</th>
<th>Armoured &amp; Jacketed</th>
<th>Overall Diameter °K</th>
<th>Combined Ref (BRASS Metric)</th>
<th>Complied Standards</th>
<th>Code</th>
<th>Suffix</th>
<th>Weight (Kgs)</th>
</tr>
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<tbody>
<tr>
<td>Ex</td>
<td>Ex</td>
<td>ExR</td>
<td>ExR</td>
<td>Ex</td>
<td>Ex</td>
<td>Ex</td>
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<td>Ex</td>
<td>Ex</td>
<td>ExX</td>
<td>ExX</td>
</tr>
</tbody>
</table>

Technological Data

- For material options and the following suffix to the Ordering Reference: Brass (suffix required), Nickel Plated Brass (NP), 316 Grade Stainless Steel (S), Copper Free Aluminium (A).
- For NP options please add the following suffix to the material suffix: 15% Cu 30% Ni, 40% Cu 60% Ni, 65% Cu 35% Ni, 90% Cu 10% Ni, 50% Cu 50% Ni, 75% Cu 25% Ni.
- **IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths/durations can be provided upon request.
- Dimensions are displayed in millimetres unless otherwise stated.
PX2KW Globally Approved, Explosive Atmosphere Barrier Cable Gland

For all types of Steel & Aluminium Wire Armoured Cables

- Metal-to-metal armour clamping
- Direct & remote installation
- Compound barrier type flameproof seal
- Controlled outer ‘load retention’ seal
- Unique OSTG prevents overtightening
- Compound barrier type flameproof seal
- Direct & remote installation
- Metal-to-metal armour clamping

Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet
Cable Gland Selection Table

Refer to illustration at the top of the page.

**PX2KPB Internationally Approved, Explosive Atmosphere Barrier Cable Gland**

- Effectively earths / grounds lead sheathed cables
- Metal-to-metal armour clamping
- Direct & remote installation
- Compound barrier type flameproof seal
- Controlled outer ‘load retention’ seal
- Integral protected deluge seal
- Unique OSTG prevents overtightening
- Compound barrier type flameproof seal
- Direct & remote installation
- Metal-to-metal armour clamping

**PX2KPB Internationally Approved, Explosive Atmosphere Barrier Cable Gland**

<table>
<thead>
<tr>
<th>PX2KPB Internationally Approved, Explosive Atmosphere Barrier Cable Gland</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Effectively earths / grounds lead sheathed cables</td>
</tr>
<tr>
<td>• Metal-to-metal armour clamping</td>
</tr>
<tr>
<td>• Direct &amp; remote installation</td>
</tr>
<tr>
<td>• Compound barrier type flameproof seal</td>
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<tr>
<td>• Controlled outer ‘load retention’ seal</td>
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<td>• Integral protected deluge seal</td>
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<tr>
<td>• Unique OSTG prevents overtightening</td>
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<tr>
<td>• Compound barrier type flameproof seal</td>
</tr>
<tr>
<td>• Direct &amp; remote installation</td>
</tr>
<tr>
<td>• Metal-to-metal armour clamping</td>
</tr>
</tbody>
</table>

---

**TECHNICAL DATA**

**Design Specification**

BS 6121 Part 1:1989, IEC 6244, EN 6244

**Mechanical Classifications**

Impact = Level B, Cable Anchorage = Class D

**Enclosure Protection**

IIRECTIONAL APPROVAL

**Electrical Classifications**

Category B (Category A when used with braid, tape or pliable wire armour cables)

**ATEX Certificate**

SR4173ATEX1072X, SR4173ATEX1407B

**Code of Protection**

• Ex d IIC Gc II 2G, II 1D, Ex e IIC Gb II 2G, II 1D, Ex ta IIIC Da, Ex 3G Ex hI IIC Gc, IMD Ex d I Mb, Ex e I Mb

**Compliance Standards**

EN 60079-0,1,15,31

**IECEX Certificate**

IECEX SR 13.002X7, IECEX SRM 14.008X

**Code of Protection**

Ex d IIC Gc, Ex d IIC Gb, Ex hI IIC Gc, Ex ta IIC Da, Ex d I Mb, Ex e I Mb

**Compliance Standards**

IECEX SR 08.072X

**UV/KEDRO**

GATE 047C, C6442-15

**CCSR / PEDS (Initial) Certificate**

P338698

**NEPSI Certificate**

G13, 1140X / G173, 1282X

**INMETRO Approval**

10V.12.007X

**RETE Approval Number**

13868

**Marine Approvals**

URS: 05.01172 (E30, DN: E-13848), ABS: 15-LD2364401A-4-PDA, BV: 431801A1

**Protection Rating**

IP66, IP67 & IP68

**Dulbe Protection Compliance**

DTS01 / 91

**Cable Gland Material**

Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

**Seal Material**

CMP 500, LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound

**Cable Type**

Lead Sheathed & Single Wire Armour (LC/SWA), Lead Sheathed & Aluminium Wire Armour (LC/ AWSA), Lead Sheathed & Braid Wire Armour (LC/ AAWA), Lead Sheathed & Pliable Wire Armour (LC/ PWA), Lead Sheathed & Steel Tape Armour (LC/STST), Lead Sheathed & Aluminium Strip Armour (LC/AS SA)

**Armour Clamping**

Detachable Compound Tube / Cone / AnyWay Universal Clamping Ring

**Sealing Technique**

Unique CMP ‘UIS’ Outer Seal (Load Retention Seal)

**Sealing Area(s)**

Inner Compound Barrier & Outer Sheath

Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet

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**www.cmp-products.com**
### Technical Data

**Design Specification:** IEC 60079-0, 1, 7, 15, 31

**Enclosure Protection:** IP66, IP67 & IP68

**Ingress Protection Rating:** **IP66**, **IP67** & **IP68***

**Marine Approvals:** 03866

**Shipboard Approval Number:** TÜV 12.2073X

**IP Rating:** IP66, IP67, IP68

**Protection:** *IP66, IP67 & IP68***

**Dimensional Accuracies:** *IP66, IP67 & IP68***

**Pressure Tolerance:** *IP66, IP67 & IP68***

**Wire Protection:** *IP66, IP67 & IP68***

**Cable Material:** *IP66, IP67 & IP68***

**Cable Diameter:** *IP66, IP67 & IP68***

**Cable Type:** Unarmoured***

**Cable Sealing:** CMP Unique Displacement Seal Concept

**Sealing Arrangement:** Inner Compound Barrier & Outer Sheath

**Dimensions Listed Below:** For metric cable glands only

**Dimensions Listed above:** For alternative thread may vary, please see supplementary technical data sheet

---

**PXSS2K Double Seal, Globally Approved, Explosive Atmosphere Barrier Cable Gland**

### Features

- Direct & remote installation
- Superior levels of cable retention
- Displacement type environmental seal
- Compound barrier type flameproof seal
- Deluge protected
- 

**-60˚C to +85˚C**

**Globally marked, IECEx, ATEX, UL & cCSAus**

**For all types of Unarmoured & Braided Cables**

**PXSS2K Double Seal, Globally Approved, Explosive Atmosphere Barrier Cable Gland**

---

**Cable Gland Selection Table**

Refer to illustration at the top of the page.

Dimensions listed below are for metric cable glands only

Dimensions listed above for alternative threads may vary, please see supplementary technical data sheet

---

**PXSS2K**

Ex e Ex d Ex e**

Explore Explosive Atmosphere Barrier Products

www.cmp-products.com

**Technical Data**

Design Specification: IEC 60079-0, 1, 7, 15, 31

Enclosure Protection: IP66, IP67 & IP68

ATEX Certificate: SIRA13ATEX1072X, SIRA13ATEX14008X

Code of Protection: E2 2 Ga. 5, E3 2 Ga. 6, E4 2 Ga. 7, E5 2 Ga. 8, E6 2 Ga. 9 & E7 2 Ga. 10

IECEx Certificate: IECEx S1R 06027X, IECEx SIM 14.0008X

Compliance Standards: EN 60079-15, 17, 15, 31

UL Certificate: E201978, E235914

Code of Protection: Class 1, Div. 1, 2; Groups A, B, C & D, Class II, Div. 1, 2; Groups E, F & G, Class III, Div. 1, 2; Types A, B, C, D & E

Compliance Standards: UL 2225, CSA C22.2 No 174

EAC Certificate: TR CU 020: BS EN 60079-15

UL & cCSAus Certificate: 2288626

Compliance Standards: Ex d I Mb, Ex e I Mb

ATEX Certificate: SIRA13ATEX1072X, SIRA13ATEX4078X

Enclosure Protection: Division 1, 2, Type 4X: Oil Resistant II: Class I, Zone 1 AEx d IIC Gb, AEx e IIc Gb, AEx nR IIC Gc, AEx ta IIIC Da

Impact = Level 8, Cable Anchorage = Class B

BS 6121:Part 1:1989, IEC 62444, EN 62444

**ATEX** Certificate

Div. 1, 2; Type 4X: Oil Resistant II: Class I, Zone 20 AEx ta IIc Da

Impact = Level 8, Cable Anchorage = Class B

BS 6121:Part 1:1989, IEC 62444, EN 62444

**ATEX** Certificate

Div. 1, 2; Type 4X: Oil Resistant II: Class I, Zone 2 AEx ta IIc Da

Impact = Level 8, Cable Anchorage = Class B

BS 6121:Part 1:1989, IEC 62444, EN 62444

**ATEX** Certificate

Div. 1, 2; Type 4X: Oil Resistant II: Class I, Zone 1 AEx d IIC Gb, AEx e IIc Gb, AEx nR IIC Gc, AEx ta IIIC Da

Impact = Level 8, Cable Anchorage = Class B

BS 6121:Part 1:1989, IEC 62444, EN 62444

**ATEX** Certificate

Div. 1, 2; Type 4X: Oil Resistant II: Class I, Zone 20 AEx ta IIc Da

Impact = Level 8, Cable Anchorage = Class B

BS 6121:Part 1:1989, IEC 62444, EN 62444

**ATEX** Certificate

Div. 1, 2; Type 4X: Oil Resistant II: Class I, Zone 2 AEx ta IIc Da

Impact = Level 8, Cable Anchorage = Class B

BS 6121:Part 1:1989, IEC 62444, EN 62444

**ATEX** Certificate

Div. 1, 2; Type 4X: Oil Resistant II: Class I, Zone 1 AEx d IIC Gb, AEx e IIc Gb, AEx nR IIC Gc, AEx ta IIIC Da

Impact = Level 8, Cable Anchorage = Class B

BS 6121:Part 1:1989, IEC 62444, EN 62444

**ATEX** Certificate

Div. 1, 2; Type 4X: Oil Resistant II: Class I, Zone 2 AEx ta IIc Da

Impact = Level 8, Cable Anchorage = Class B

BS 6121:Part 1:1989, IEC 62444, EN 62444

**ATEX** Certificate

Div. 1, 2; Type 4X: Oil Resistant II: Class I, Zone 1 AEx d IIC Gb, AEx e IIc Gb, AEx nR IIC Gc, AEx ta IIIC Da

Impact = Level 8, Cable Anchorage = Class B

BS 6121:Part 1:1989, IEC 62444, EN 62444

**ATEX** Certificate

Div. 1, 2; Type 4X: Oil Resistant II: Class I, Zone 2 AEx ta IIc Da

Impact = Level 8, Cable Anchorage = Class B

BS 6121:Part 1:1989, IEC 62444, EN 62444

**ATEX** Certificate

Div. 1, 2; Type 4X: Oil Resistant II: Class I, Zone 2 AEx ta IIc Da

Impact = Level 8, Cable Anchorage = Class B

BS 6121:Part 1:1989, IEC 62444, EN 62444

**ATEX** Certificate
Cable Gland Selection Table

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Available Entry Threads &amp; C&quot; (Alternate Metric Thread Lengths Available)</th>
<th>Number of Cores</th>
<th>Female Connection Thread Options</th>
<th>Female Connection Thread (NPT) &quot;g&quot;</th>
<th>Diameter Over Conductor &quot;A&quot;</th>
<th>Cable Bedding Diameter &quot;G&quot;</th>
<th>Overall Cable Diameter &quot;D&quot;</th>
<th>Across Flats &quot;E&quot;</th>
<th>Across Corners &quot;F&quot;</th>
<th>Protrusion Length &quot;L&quot;</th>
<th>Combined Ordering Reference (Brass Metric)</th>
<th>Cable Gland Weight (Kgs)</th>
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<tbody>
<tr>
<td>20 M20</td>
<td>15.0 1&quot; 19.9 ½&quot; 11 M20 ½&quot; 12.6 12.9 13.9 30.0 33.0 45.9 20 PXRC 1RA 0.17</td>
<td>1</td>
<td>g M20 1½&quot; 17.5 17.9 19.9 41.0 45.1 53.6 25 PXRC 0.33</td>
<td>g M20 1½&quot; 30.0 30.3 32.3 50.0 55.0 48.6 40 PXRC 0.41</td>
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<tr>
<td>25 M25</td>
<td>15.0 ½&quot; 20.2 1&quot; 21 M25 ¼&quot; 17.5 17.9 19.9 41.0 45.1 53.6 25 PXRC 0.33</td>
<td>1</td>
<td>g M25 ½&quot; 36.6 36.9 38.9 59.0 60.5 59.1 50 PXRC 0.32</td>
<td>g M25 ½&quot; 53.0 53.3 53.6 80.0 80.3 79.6 60 PXRC 0.41</td>
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</tr>
<tr>
<td>32 M32</td>
<td>15.0 1&quot; 25.0 1½&quot; 38 M32 1&quot; 23.6 23.9 26.2 41.0 41.5 51.8 32 PXRC 0.32</td>
<td>1</td>
<td>g M32 1&quot; 41.0 41.3 44.2 60.0 60.0 60.0 60 PXRC 0.61</td>
<td>g M32 1&quot; 47.8 48.1 48.4 70.0 70.3 70.3 63 PXRC 0.94</td>
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<tr>
<td>40 M40</td>
<td>15.0 1½&quot; 25.6 1¾&quot; 59 M40 1¾&quot; 17.5 17.9 19.9 41.0 41.5 51.8 32 PXRC 0.32</td>
<td>1</td>
<td>g M40 1¾&quot; 53.0 53.3 53.6 80.0 80.3 79.6 60 PXRC 0.41</td>
<td>g M40 1¾&quot; 53.0 53.3 53.6 80.0 80.3 79.6 60 PXRC 0.41</td>
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<tr>
<td>50S M50</td>
<td>15.0 1½&quot; 26.1 2&quot; 89 M50 1½&quot; 36.6 36.9 38.9 59.0 60.5 59.1 50 PXRC 0.57</td>
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<td>g M50 1½&quot; 41.0 41.3 44.2 60.0 60.0 60.0 60 PXRC 0.61</td>
<td>g M50 1½&quot; 47.8 48.1 48.4 70.0 70.3 70.3 63 PXRC 0.94</td>
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<tr>
<td>60 M60</td>
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<td>g M60 2&quot; 47.8 48.1 48.4 70.0 70.3 70.3 63 PXRC 0.94</td>
<td>g M60 2&quot; 47.8 48.1 48.4 70.0 70.3 70.3 63 PXRC 0.94</td>
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<tr>
<td>75S M75</td>
<td>15.0 2½&quot; 39.9 3¾&quot; 115 M75 2½&quot; 53.7 54.0 58.0 80.0 82.5 82.5 63 PXRC 0.89</td>
<td>1</td>
<td>g M75 2½&quot; 53.7 54.0 58.0 80.0 82.5 82.5 63 PXRC 0.89</td>
<td>g M75 2½&quot; 53.7 54.0 58.0 80.0 82.5 82.5 63 PXRC 0.89</td>
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<tr>
<td>75 S75</td>
<td>15.0 2½&quot; 39.9 3¾&quot; 140 M75 2½&quot; 53.7 54.0 58.0 80.0 82.5 82.5 63 PXRC 0.89</td>
<td>1</td>
<td>g M75 2½&quot; 53.7 54.0 58.0 80.0 82.5 82.5 63 PXRC 0.89</td>
<td>g M75 2½&quot; 53.7 54.0 58.0 80.0 82.5 82.5 63 PXRC 0.89</td>
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</tr>
</tbody>
</table>

Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet

**For metric female threads please insert "0" before thread size code e.g. 32PXRC1RA0 3102**

**When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.**

Dimensions are displayed in millimetres unless otherwise stated

---

**PXRC Internationally Approved, Rigid & Flexible Conduit Explosive Atmosphere Barrier Cable Gland**

For all types of Unarmoured Cables

- Designed for rigid & flexible conduits
- Easy install running coupler design
- Compound barrier type flameproof seal
- -60°C to +85°C
- Internationally marked, IECEx & ATEX
ThermEx & ThermIn High Temperature Cable Glands

CMP Products’ range of extreme high temperature cable glands available for Industrial and Explosive Atmospheres

ThermIn - Industrial Cable Glands rated up to 200°C

ThermEx - Explosive Atmosphere Cable Glands rated up to 200°C

Given the level of experience gained in this field CMP is able to provide a high degree of technical support advice on the selection and use of Cable Glands in Industrial and Explosive Atmosphere applications.

Alternative cable gland types are available for high temperature applications, please contact CMP

All Cable Glands shown in Nickel Plated Brass, alternative materials are available.
A2HT High Temperature, Single Seal Industrial Cable Gland

For all types of Unarmoured & Braided Cables

-60°C to 180°C high temperature Thermin seals
-High quality durable materials
-Robust, heavy duty design
-Displacement type seal
-Deluge protected

Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Available Entry Threads &quot;C&quot;</th>
<th>Overall Diameter</th>
<th>Across Flats &quot;D&quot;</th>
<th>Across Corners &quot;D&quot;</th>
<th>Protrusion Length &quot;F&quot;</th>
<th>Combined Ordering Reference (*Brass Metric)</th>
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</thead>
<tbody>
<tr>
<td>Metric</td>
<td>NPT</td>
<td>Min</td>
<td>Max</td>
<td>Max</td>
<td>Max</td>
<td>Size Type Ordering Suffix</td>
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<td>M16</td>
<td>1/4&quot;</td>
<td>11.5</td>
<td>19.5</td>
<td>16.0</td>
<td>39.8</td>
<td>25 A2HT IRA</td>
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<td>M20</td>
<td>1/2&quot;</td>
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<td>23.0</td>
<td>19.5</td>
<td>48.2</td>
<td>35 A2HT IRA</td>
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<td>M25</td>
<td>15.0</td>
<td>19.5</td>
<td>32.0</td>
<td>23.0</td>
<td>54.0</td>
<td>43 A2HT IRA</td>
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<td>M30</td>
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<td>25.0</td>
<td>38.0</td>
<td>25.0</td>
<td>61.2</td>
<td>50 A2HT IRA</td>
</tr>
<tr>
<td>M32</td>
<td>1 1/4&quot;</td>
<td>31.0</td>
<td>46.0</td>
<td>31.0</td>
<td>74.2</td>
<td>58 A2HT IRA</td>
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<tr>
<td>M35</td>
<td>1 1/2&quot;</td>
<td>35.0</td>
<td>50.0</td>
<td>35.0</td>
<td>87.2</td>
<td>65 A2HT IRA</td>
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<tr>
<td>M40</td>
<td>2&quot;</td>
<td>41.0</td>
<td>56.0</td>
<td>41.0</td>
<td>100.5</td>
<td>72 A2HT IRA</td>
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<td>M45</td>
<td>2 1/2&quot;</td>
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<td>62.0</td>
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<td>113.5</td>
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<tr>
<td>M50</td>
<td>3&quot;</td>
<td>54.0</td>
<td>70.0</td>
<td>54.0</td>
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<td>M63</td>
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<td>78.0</td>
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<td>M75</td>
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<td>86.0</td>
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<td>M90</td>
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<td>94.0</td>
<td>76.0</td>
<td>167.5</td>
<td>110 A2HT IRA</td>
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</tbody>
</table>

* For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass ‘5; Stainless Steel ‘4; Copper Free Aluminium ‘1

Example: 20A2HTIRA536 = Nickel Plated Brass 1¼" NPT, 20A2HTIRA535 = Stainless Steel 1¼" NPT

Dimensions are displayed in millimetres unless otherwise noted

Please contact CMP for Cable Gland weights and Shroud sizing

**When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

*** IP68 tested to minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request
E1UHT

E1UHT High Temperature, Double Seal Industrial Cable Gland

For all types of Armoured cables

-20°C to 200°C high temperature ThermIn seals
-Metal-to-metal armour clamping
-Direct & remote installation
-Permanently crimped, low impedance earth termination
-20°C to +200°C Continuous Operating Temperature

Cable Gland Selection Table

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Cable Threads (Metric) “E”</th>
<th>Overall Cable Diameter “B”</th>
<th>Groove Cone (X)</th>
<th>Stepped Cone (W)</th>
<th>Across Flats “D”</th>
<th>Across Corners “D”</th>
<th>Pyrotens Length “Y”</th>
<th>Combined Ordering Reference (“Brass Metric”)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20S M20 10.0 ½” 19.9 ¾” 6.5 13.9</td>
<td>24.0 26.4 70.0</td>
<td>0.3 1.0 0.8 1.25 24.0 26.4 70.0</td>
<td>E1UHT 1RA PVC04 0.163</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>20S M20 10.0 ½” 19.9 ¾” 6.5 13.9</td>
<td>24.0 26.4 70.0</td>
<td>0.3 1.0 0.8 1.25 24.0 26.4 70.0</td>
<td>E1UHT 1RA PVC04 0.163</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Technical Data**

- Mechanical Classifications: Impact = Level B, Cable Anchorage = Class D
- Enclosure Protection: IK10 to IEC 62262 (20 jacks) Brass & Stainless Steel only
- Electrical Classifications: Category B (Category A when used with braid, tape or pliable wire armour cables)

Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet

*Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444

** When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request

*Note: For material options please add the following suffix to change the Ordering Reference. Brass (no suffix required), Nickel Plated Brass “5”, Copper Free Aluminium “7”

For NPT options add the following digits to the material suffix; ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 ½” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix ‘0’)

For all types of Armoured cables

- Flexible (EMC) Wire Braid (e.g. CY / SY), Armoured & Jacketed Steel Tape Armour (STA), Wire Braid Armour, Aluminium Strip Armour (ASA), Screened Flexible (EMC) Wire Braid (e.g. CY / OS), Armoured & Jacketed

Stepped Cone (W).

Grooved Cone (X) is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below.

Dimensions are displayed in millimetres unless otherwise stated

www.cmp-products.com
**TECHNICAL DATA**

**Design Specification**
BS 6121:Part 1:1989, IEC 62444, EN 62444

**Mechanical Classifications**
Impact = Level 8, Cable Anchorage = Class D

**Enclosure Protection**
IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only

**Electrical Classifications**
Category B

**Continuous Operating Temperature**
-20°C to +200°C

**Ingress Protection Rating**
IP66

**Cable Gland Material**
Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

**Seal Material**
CMP Thermoset Rubber

**Armour Clamping**
Detachable Armour Cone & AnyWay Universal Clamping Ring

**Sealing Technique**
Unique CMP ‘LRS’ Outer Seal (Load Retention Seal)

**Sealing Area(s)**
Cable Outer Sheath

**Cable Gland Kits Available**
Cable Gland kit for use with all types of SWA cable including 2 Brass Cable Glands, 2 Steel Locknuts, 2 Brass Earth Tags and 2 PVC Shrouds for sizes up to and including 32mm. For sizes 40mm and above each kit includes 1 of each component.

**Cable Gland Selection Table**
Refer to illustration at the top of the page.

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Entry Thread &quot;C&quot;</th>
<th>Thread Length (Metric) &quot;E&quot;</th>
<th>Overall Cable Diameter &quot;B&quot;</th>
<th>Armoure Range</th>
<th>Across Flats &quot;D&quot;</th>
<th>Across Corners &quot;D&quot;</th>
<th>Protrusion Length &quot;F&quot;</th>
<th>Combined Ordering Reference (*Brass Metric)</th>
<th>Shroud</th>
<th>Cable Gland Weight (Kgs)</th>
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<tbody>
<tr>
<td>20S16 M20</td>
<td>10.0</td>
<td>10.0</td>
<td>16.0</td>
<td>Min</td>
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**Dimensions are displayed in millimetres unless otherwise stated**

*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass ‘5’; 316 Grade Stainless Steel ‘4’; Copper Free Aluminium ‘1’

Examples: 20CWHT1RA5 = Nickel Plated Brass M20, 50CWHT1RA = Brass 50mm, 25CWHT1RA4 = Stainless Steel 25mm

CWHT High Temperature, Single Seal Industrial Cable Gland

For all types Steel & Aluminium Wire Armoured cables

- -20°C to 200°C high temperature ThermIn seals
- High quality durable materials
- Robust, heavy duty design
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Controlled outer ‘load retention’ seal
- Unique OSTG prevents overtightening
- Deluge protection option
- Superior EMC performance

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444
** When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.
### TECHNICAL DATA

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<tr>
<td>Mechanical Classifications*</td>
<td>Impact = Level B, Cable Anchorage = Class D</td>
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<tr>
<td>Enclosure Protection</td>
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<td>Electrical Classifications*</td>
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<td>Armour Clamping</td>
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<td>Sealing Technique</td>
<td>Unique CMP 'LRS' Outer Seal (Load Retention Seal)</td>
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<td>Sealing Area(s)</td>
<td>Cable Outer Sheath</td>
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<td>Cable Gland Kits Available</td>
<td>Cable Gland Kit for use with all types of SWA cable including 2 Brass Cable Glands, 2 Steel Locknuts, 2 Brass Earth Tags and 2 PVC Shrouds for sizes up to and including 32mm. For sizes 40mm and above each kit includes 1 of each component.</td>
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### Deluge Proof Option available (CXHT)

Deluge Proof option available (CXHT).

**Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444**

**When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.**

#### Cable Gland Selection Table

Refer to illustration at the top of the page.

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*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel-Plated Brass ‘5’; 316 Grade Stainless Steel ‘4’; Copper Free Aluminium ‘1’

Examples: 20CXHT1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated.
A2FHT Internationally Approved, Explosive Atmosphere Cable Gland

For all types of Unarmoured & Braided Cables

-60°C to 180°C high temperature ThermEx seals
-Displacement type flameproof seal
-Deluge protected
-Internationally protected, IECEx & ATEX

**Dimensions listed below are for metric cable glands only**

Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Selection Table
Refer to illustration at the top of the page.

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**For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass “5”; 316 Grade Stainless Steel “4”; Copper Free Aluminium “3”**

For NPT options add the following digits to the material suffix; ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 ½” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix ‘0’)

Examples: 32A2F1RA5 = Nickel Plated Brass 3” NPT, 32A2F1RA3 = Brass 3” NPT, 32A2F1RA4 = Stainless Steel 3” NPT, 32A2F1RA5 = Nickel Plated Brass 310

Dimensions are displayed in millimetres unless otherwise stated

Please contact CMP for Cable Gland weights and Shroud sizing

Design Specification
BS 6121:Part 1:1989, IEC 62444, EN 62444

Mechanical Classifications*
Impact = Level 8, Cable Anchorage = Class B

Enclosure Protection
IK10 to IEC 62262 (20 joule) Brass & Stainless Steel only

ATEX Certificate
SIRA16ATEX1019X, SIRA16ATEX021X

Code of Protection
II 2G Ex db IIC Gb, II 2G Ex eb IIC Gb, II 1D Ex ta IIIC Da IP66, IP67, IP68
II 3G Ex nRc IIC IP66, IP67, IP68

Compliance Standards
EN60079-0,1,7,15,31

IECEx Certificate
IECEx SIR 16.0007X

Code of Protection
Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex nRc IIC Gc IP66, IP67, IP68

Compliance Standards
IEC 60079-0,1,7,15,31

Continuous Operating Temperature
-60°C to +180°C

Ingress Protection Rating**
IP66, IP67 & IP68***

Deluge Protection Compliance
DTS/01:91

Cable Gland Material
Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

Seal Material
CMP SOLO LSF Halogen Free Thermoset Elastomer

Cable Type
Unarmoured & Braided when terminated inside enclosure

Sealing Technique
CMP Unique Displacement Seal Concept

Sealing Area(s)
Cable Outer Sheath

A2FHT
ExEd ExR ExEx

Internationally Approved, Explosive Atmosphere Cable Gland

For all types of Unarmoured & Braided Cables

-60°C to 180°C high temperature ThermEx seals
-Displacement type flameproof seal
-Deluge protected
-Internationally protected, IECEx & ATEX

For NPT options add the following digits to the material suffix; ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 ½” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix ‘0’)

Examples: 32A2F1RA5 = Nickel Plated Brass 3” NPT, 32A2F1RA3 = Brass 3” NPT, 32A2F1RA4 = Stainless Steel 3” NPT, 32A2F1RA5 = Nickel Plated Brass 310

Dimensions are displayed in millimetres unless otherwise stated
Cable Gland Selection Table
Refer to illustration at the top of the page.

<table>
<thead>
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<th>Cable Gland Size</th>
<th>Available Entry Threads °C (Alternate Metric Thread Lengths Available)</th>
<th>Cable Bedding Diameter “A”</th>
<th>Overall Cable Diameter “B”</th>
<th>Grooved Cone Width “F”</th>
<th>Stepped (W) Cone Width “D”</th>
<th>Across Flats “C”</th>
<th>Across Corners “E”</th>
<th>Contraction “G”</th>
<th>Combined Metric Thread Length “H”</th>
<th>Size</th>
<th>Type</th>
<th>Ordering Suffix</th>
<th>Shroud</th>
<th>Cable Gland Weight (Kgs)</th>
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<td>40S M40</td>
<td>15.0 3° 25.6 3° 23.0 27.9 45.9 2° 21.9 2° 18.2 1.6 2.0 27.9 36.5 60.5</td>
<td>40S T3CDSHT 1RA PVC15 0.91</td>
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<td>63S M63</td>
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<td>75S T3CDSHT 1RA PVC28 2.57</td>
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<td>115S M115</td>
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<td>115S T3CDSHT 1RA PVC35 6.55</td>
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<td>130S M130</td>
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</tbody>
</table>

** Dimensions listed below are for metric cable glands only.**

...
## TECHNICAL DATA

**Design Specification**
BS 6121 Part 1:1989, IEC 62444, EN 62444

**Mechanical Classifications**
Impact = Level B, Cable Anchorage = Class B

**Enclosure Protection**
IK10 to IEC 62262 (2 joules) Brass & Stainless Steel only

**ATEX Certificate**
SIRA SBTX1050X, SIRA SBTX140205X

**Code of Protection**
Ex d II 2G, Ex d II 1D, Ex e II 1C GC, Ex ta II 1C Da
Ex e II 1R GC, Ex ta II 1C Da, Ex d I MB, Ex e I MB

**Compliance Standards**
IEC 60079-0,7,15,31

Continuous Operating Temperature
-20°C to +200°C

Ingress Protection Rating
Type IP66, IP67 & IP68

**Cable Gland Material**
Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

**Seal Material**
CMP SOLO LSF Halogen Free Thermostat Elastomer

**Cable Type**
Unarmoured & Braided

**Sealing Technique**
CMP Unique Displacement Seal Concept

**Sealing Area(s)**
Cable Inner Bedding & Outer Cable Sheath, Double Seal on Cable Outer Sheath

**Dimensions listed below are for metric cable glands only**

**ThermEx SS2KHT Double Seal, Internationally Approved, Explosive Atmosphere Cable Gland**

For all types of Unarmoured & Braided Cables

- -20°C to 200°C high temperature ThermEx seals
- Provides double seal on outer sheath or single on outer & inner
- Direct & remote installation
- Superior levels of cable retention
- Displacement type flameproof seals
- Deluge protected
- Internationally marked IECEx & ATEX

For NPT options add the following digits to the material suffix:
- ½” = 31
- ¾” = 32
- 1” = 33
- 1 ¼” = 34
- 1 ½” = 35
- 2” = 36
- 2 ½” = 37
- 3” = 38
- 3 ½” = 39
- 4” = 310 (Brass requires prefix ‘0’)

Examples: 32SS2KHT1RA534 = Nickel Plated Brass 1¼” NPT, 50SSS2KHT1RA035 = Brass 1½” NPT, 25SS2KHT1RA432 = Stainless Steel ¾” NPT, 20SS2KHT1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

**Dimensions for alternative threads may vary, please see supplementary technical data sheet**

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### Cable Gland Selection Table

Refer to illustration at the top of the page.

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Available Entry Threads “C”</th>
<th>Cable Bedding Diameter “A”</th>
<th>Overall Cable Diameter “B”</th>
<th>Across Flats “D”</th>
<th>Across Corners “D”</th>
<th>Protrusion Length “F”</th>
<th>Combined Ordering Reference (“Brass Material”)</th>
<th>Shroud</th>
<th>Cable Gland Weight (Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard</td>
<td>Option</td>
<td>Standard</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metric</td>
<td>NPT Thread Length (Metric)</td>
<td>NPT Thread Length (NPT)</td>
<td>Min</td>
<td>Max</td>
<td>Min</td>
<td>Max</td>
<td>Max</td>
<td>Max</td>
<td>Size</td>
</tr>
<tr>
<td>20S16 M20</td>
<td>15.0</td>
<td>½”</td>
<td>3.2</td>
<td>8.6</td>
<td>3.2</td>
<td>8.6</td>
<td>24.0</td>
<td>26.4</td>
<td>49.0</td>
</tr>
<tr>
<td>20S M20</td>
<td>15.0</td>
<td>½”</td>
<td>6.1</td>
<td>11.7</td>
<td>11.7</td>
<td>24.0</td>
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<tr>
<td>20 M20</td>
<td>15.0</td>
<td>½”</td>
<td>6.5</td>
<td>14.0</td>
<td>6.5</td>
<td>14.0</td>
<td>27.0</td>
<td>29.7</td>
<td>54.0</td>
</tr>
<tr>
<td>25S25 M25</td>
<td>15.0</td>
<td>1”</td>
<td>11.1</td>
<td>20.0</td>
<td>11.1</td>
<td>20.0</td>
<td>36.0</td>
<td>39.6</td>
<td>66.0</td>
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<tr>
<td>32S32 M32</td>
<td>15.0</td>
<td>1 ¼”</td>
<td>17.0</td>
<td>26.3</td>
<td>17.0</td>
<td>26.3</td>
<td>41.0</td>
<td>45.1</td>
<td>67.0</td>
</tr>
<tr>
<td>40S40 M40</td>
<td>15.0</td>
<td>1 ½”</td>
<td>23.5</td>
<td>32.1</td>
<td>23.5</td>
<td>32.1</td>
<td>50.0</td>
<td>55.0</td>
<td>70.0</td>
</tr>
<tr>
<td>50S50 M50</td>
<td>15.0</td>
<td>2”</td>
<td>31.0</td>
<td>38.2</td>
<td>31.0</td>
<td>38.2</td>
<td>55.0</td>
<td>60.5</td>
<td>65.0</td>
</tr>
<tr>
<td>63S63 M63</td>
<td>15.0</td>
<td>2 ¼”</td>
<td>35.6</td>
<td>44.0</td>
<td>35.6</td>
<td>44.0</td>
<td>60.0</td>
<td>66.0</td>
<td>70.0</td>
</tr>
<tr>
<td>80S80 M80</td>
<td>15.0</td>
<td>2 ½”</td>
<td>41.5</td>
<td>49.9</td>
<td>41.5</td>
<td>49.9</td>
<td>70.5</td>
<td>77.6</td>
<td>70.0</td>
</tr>
<tr>
<td>100S100 M100</td>
<td>15.0</td>
<td>3”</td>
<td>47.2</td>
<td>55.9</td>
<td>47.2</td>
<td>55.9</td>
<td>75.0</td>
<td>82.5</td>
<td>71.0</td>
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<tr>
<td>115S115 M115</td>
<td>15.0</td>
<td>3 ½”</td>
<td>54.0</td>
<td>61.9</td>
<td>54.0</td>
<td>61.9</td>
<td>80.0</td>
<td>88.0</td>
<td>70.0</td>
</tr>
<tr>
<td>130S130 M130</td>
<td>15.0</td>
<td>4”</td>
<td>60.0</td>
<td>67.9</td>
<td>61.1</td>
<td>67.9</td>
<td>84.0</td>
<td>92.4</td>
<td>75.0</td>
</tr>
</tbody>
</table>

**For material options add the following suffix to the Ordering Reference;**
- Brass (no suffix required)
- Nickel Plated Brass ‘5’
- 316 Grade Stainless Steel ‘4’
- Copper Free Aluminium ‘1’

*For NPT options add the following digits to the material suffix:
- ½” = 31
- ¾” = 32
- 1” = 33
- 1 ¼” = 34
- 1 ½” = 35
- 2” = 36
- 2 ½” = 37
- 3” = 38
- 3 ½” = 39
- 4” = 310 (Brass requires prefix ‘0’)

Examples: 32SS2KHT1RA534 = Nickel Plated Brass 1¼” NPT, 50SSS2KHT1RA035 = Brass 1½” NPT, 25SS2KHT1RA432 = Stainless Steel ¾” NPT, 20SS2KHT1RA5 = Nickel Plated Brass M20

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* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444

** When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request

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Dimensions are displayed in millimetres unless otherwise stated

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A108 www.cmp-products.com
C2KHT Internationally Approved, Ex e, Explosive Atmosphere Cable Gland

For all types of Armoured cables
- -20°C to 200°C high temperature ThermEx seals
- Metal-to-metal armour clamping
- Direct & remote installation
- Integral protected deluge seal
- Displacement type flameproof seal
- Controlled outer ‘load retention’ seal
- Unique OSTG prevents overtightening
- Controlled outer ‘load retention’ seal
- Superior EMC performance

Cable Gland Selection Table

- Superior EMC performance
- Internationally marked, IECEx & ATEX
- Unique OSTG prevents overtightening
- Controlled outer ‘load retention’ seal
- Integral protected deluge seal
- Direct & remote installation
- -20˚C to 200˚C high temperature ThermEx seals
- Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.
- Grooved Cone (X) is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.
- Stepped Cone (W) is suitable for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA), Wire Braid Armour (e.g. SWB), Aluminium Strip Armour (ASA), Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.
- ThermEx compliant cable glands
- Deluge Protection Compliance CNS11375
- Continuous Operating Temperature 20°C to +200°C
- Ingress Protection Rating
- Deluge Protection Compliance DT311-91
- Cable Gland Material Brass, Stainless Steel, Aluminium
- Seal Material CMP SOLO LSF Halogen Free Thermoset Elastomer
- NPT options add the following digits to the material suffix; ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 ½” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix ‘0’)
- Examples: 32C2KHT1RA534 = Nickel Plated Brass M20
- * For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass ‘5’; 316 Grade Stainless Steel ‘4’; Copper Free Aluminium ‘1’

Dimensions listed below are for metric cable glands only

Cable Gland Selection Table

Refer to illustration at the top of the page.

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Available Entry Threads</th>
<th>Overall Cable Diameter</th>
<th>Armoured Range</th>
<th>Across Flats</th>
<th>Across Corners</th>
<th>Protrusion Length</th>
<th>Combined Ordering Reference</th>
<th>Smear</th>
<th>Cable Gland Weight</th>
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<tbody>
<tr>
<td>M20S M20</td>
<td>15.0</td>
<td>1”</td>
<td>19.9</td>
<td>14.0</td>
<td>13.2</td>
<td>20.0</td>
<td>0.4</td>
<td>1.0</td>
<td>0.8</td>
</tr>
<tr>
<td>M25S M25</td>
<td>15.0</td>
<td>2”</td>
<td>26.9</td>
<td>23.0</td>
<td>21.0</td>
<td>25.6</td>
<td>2.2</td>
<td>0.4</td>
<td>1.0</td>
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<tr>
<td>M32S M32</td>
<td>15.0</td>
<td>3”</td>
<td>31.5</td>
<td>28.6</td>
<td>26.0</td>
<td>28.0</td>
<td>0.4</td>
<td>1.0</td>
<td>0.8</td>
</tr>
<tr>
<td>M40S M40</td>
<td>15.0</td>
<td>4”</td>
<td>39.9</td>
<td>34.0</td>
<td>32.0</td>
<td>34.0</td>
<td>0.4</td>
<td>1.0</td>
<td>0.8</td>
</tr>
<tr>
<td>M50S M50</td>
<td>15.0</td>
<td>5”</td>
<td>48.0</td>
<td>42.0</td>
<td>40.0</td>
<td>42.0</td>
<td>0.4</td>
<td>1.0</td>
<td>0.8</td>
</tr>
<tr>
<td>M63S M63</td>
<td>15.0</td>
<td>6”</td>
<td>56.0</td>
<td>50.0</td>
<td>48.0</td>
<td>50.0</td>
<td>0.4</td>
<td>1.0</td>
<td>0.8</td>
</tr>
<tr>
<td>M75S M75</td>
<td>15.0</td>
<td>7”</td>
<td>65.0</td>
<td>59.0</td>
<td>56.0</td>
<td>59.0</td>
<td>0.4</td>
<td>1.0</td>
<td>0.8</td>
</tr>
<tr>
<td>M90S M90</td>
<td>15.0</td>
<td>8”</td>
<td>74.0</td>
<td>68.0</td>
<td>64.0</td>
<td>68.0</td>
<td>0.4</td>
<td>1.0</td>
<td>0.8</td>
</tr>
<tr>
<td>M115S M115</td>
<td>15.0</td>
<td>10”</td>
<td>93.0</td>
<td>87.0</td>
<td>84.0</td>
<td>87.0</td>
<td>0.4</td>
<td>1.0</td>
<td>0.8</td>
</tr>
</tbody>
</table>

For NPT options add the following digits to the material suffix; ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 ½” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix ‘0’)

Examples: 32C2KHT1RA534 = Nickel Plated Brass M20, 32C2KHT1RA534 = Stainless Steel M20, 32C2KHT1RA534 = Stainless Steel M20

Dimensions are displayed in millimetres unless otherwise stated

For further information, please refer to page 7 or www.cmp-products.com

*Mechanical & Electrical Classifications applied as per IEC 60079-0, 60079-7, 60079-10

**When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

***IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request

www.cmp-products.com

2017 full product catalogue DESKTOP WORKING FILE.indd   109

16/01/2017 15:06:47
Flat-Form Cable Glands

The CMP range of Certified Explosive Atmosphere and Industrial Cable Glands specifically designed for use with flat form and heat trace cables.

These Cable Glands are certified in line with all of CMP’s products to the highest and most recent standards, and include optional high temperature ThermEx seals.

Multiple certification including ATEX, IECEx, and EAC enables the possibility of selecting fewer standard products for global situations. Some solutions in the standard CMP Explosive Atmosphere range offer approvals allowing their deployment under IEC installation codes of practice.

All Cable Glands shown in Nickel Plated Brass, alternative materials are available.
### A2FF Single Seal, Flat-Form Industrial Cable Gland

**For all types of Flat-Form Unarmoured & Braided Cables**

- Designed for flat form / heat trace cables
- Displacement type seal
- Deluge protected
- -60°C to +130°C (standard), -20°C to 200°C (ThermIn option)

### Technical Data

- **Design Specification**
  - BS 6121:Part 1:1989, IEC 62444, EN 62444
- **Enclosure Protection**
  - IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
- **Ingress Protection Rating**
  - IP66, IP67 & IP68***
- **Deluge Protection Compliance**
  - DTS01 : 91
- **Cable Gland Material**
  - Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
- **Seal Material**
  - CMP Thermoset Rubber
- **Cable Type**
  - Flat Form Unarmoured & Braided when terminated inside enclosure
- **Sealing Technique**
  - CMP Unique Displacement Seal Concept
- **Sealing Area(s)**
  - Cable Outer Sheath

### Cable Gland Selection Table

Refer to illustration at the top of the page.

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Available Entry Threads &quot;C&quot;</th>
<th>Overall Cable Diameter &quot;A&quot;</th>
<th>Across Flats &quot;D&quot;</th>
<th>Across Corners &quot;D&quot;</th>
<th>Protrusion Length &quot;F&quot;</th>
<th>Combined Ordering Reference (*Brass Metric)</th>
<th>Cable Gland Weight (Kgs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric / NPT</td>
<td>Thread Length &quot;E&quot; &quot;E&quot;</td>
<td>Min</td>
<td>Max</td>
<td>Max</td>
<td>Max</td>
<td>Size</td>
<td>Type</td>
</tr>
<tr>
<td>20S M20</td>
<td>10.0</td>
<td>19.9</td>
<td>4.0 x 6.2</td>
<td>24.0</td>
<td>25.1</td>
<td>20S A2FF 1RA 0.054</td>
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</tr>
<tr>
<td>20 M20</td>
<td>10.0</td>
<td>19.9</td>
<td>5.7 x 8.0</td>
<td>27.0</td>
<td>27.2</td>
<td>20 A2FF 1RA 0.059</td>
<td></td>
</tr>
</tbody>
</table>

For NPT options please add the following suffix to the Ordering Reference: Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'.

For NPT options please add the following digits to the material suffix ; ½" = 31, ¾" = 32, 1" = 33

Examples: 25A2FF1RA432 = Stainless Steel ¾" NPT, 20A2FF1RA5 = Nickel Plated Brass M20

Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet

* Dimensions are displayed in millimetres unless otherwise stated

** When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request.
**A2F-FF**

A2F Internationally Approved, Flat-Form Explosive Atmosphere Cable Gland

**For all types of Flat-Form Unarmoured & Braided Cables**
- Designed for flat form / heat trace cables
- Displacement type flameproof seal
- Deluge protected
- -60°C to +130°C (standard), -20°C to 200°C (ThermEx option)
- Internationally marked, IECEx & ATEX

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**TECHNICAL DATA**

- **Mechanical Classifications**: Impact = Level B, Cable Anchorage = Class B
- **Enclosure Protection**: IK0 to IEC 62262 (20 joules) Brass & Stainless Steel only
- **ATEX Certificate**: SIRA13ATEX056KX, SIRA13ATEX4074K
- **Code of Protection**: Ex d IIC Gb, Ex ta IIC Da
- **Compliance Standards**: EN 60079-0, 1, 7, 15, 31
- **IECEx Certificate**: IECEx SR 13.0023X, IECEx SIM 14.0006
- **Code of Protection**: Ex d IIC Gb, Ex ta IIC Da
- **Compliance Standards**: IEC 60079-0, 1, 7, 15, 31
- **KCS Certificate**: 13_GA4BO_0748X; 13_GA4BO_0749X; 13_GA4BO_0750X; 14_GA4BO_0251X
- **CCOE / PESO Certificate (India)**: P333688
- **Ingress Protection Rating**: IP66, IP67 & IP68***
- **Deluge Protection Compliance**: DTS01 : 91
- **Cable Gland Material**: Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
- **Seal Material**: CMP SOLO LSF Halogen Free Thermoset Elastomer
- **Cable Type**: Flat Form Unarmoured & Braided when terminated inside enclosure
- **Sealing Technique**: CMP Unique Displacement Seal Concept
- **Sealing Area(s)**: Cable Outer Sheath

---

**Cable Gland Selection Table**

Refer to illustration at the top of the page.

**Dimensions listed below are for metric cable glands only**

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Overall Cable Diameter “A” (h x w)</th>
<th>Across Flats “D”</th>
<th>Across Corners “D”</th>
<th>Protrusion Length “F”</th>
<th>Combined Ordering Reference (Brass Metric)</th>
<th>Cable Gland Weight (Kgs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric</td>
<td>Standard Options</td>
<td>Min</td>
<td>Max</td>
<td>Min</td>
<td>Max</td>
<td>Size Type Ordering Suffix</td>
</tr>
<tr>
<td>20S</td>
<td>M20</td>
<td>15.0</td>
<td>15”</td>
<td>19.9</td>
<td>4.0 x 6.2</td>
<td>6.8 x 11.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5.7 x 8.0</td>
<td>8.7 x 13.5</td>
</tr>
</tbody>
</table>

*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass ‘5’; 316 Grade Stainless Steel ‘4’; Copper Free Aluminium ‘7’. For NPT options please add the following digits to the material suffix; ‘50’ = 31, ‘32’ = 22, ‘52’ = 33

**Examples**: 20SA2FFF5RA32; Stainless Steel ‘56’ NPT, 20SA2FFF5RA32; Nickel Plated Brass MGD

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[www.cmp-products.com](http://www.cmp-products.com)
Mining Group I Cable Glands

CMP Products’ Underground Mining Group I cable gland range accommodates all forms of cable used in mining locations.

The Group I Certified range of Cable Glands provide both the installer and OEM with the choice of using either a threaded entry Cable Gland or a flange mounted version; both being suitable for direct entry into the equipment.

Where a threaded entry is provided in the equipment and a flanged mounted gland either already exists or is preferred, CMP can supply a suitable adaptor which will convert from a threaded entry to a flanged entry by use of a MA/TF adaptor.

For installations using non-filled cables, Barrier Cable Glands are available and provide a compound barrier seal around the conductors and an environmental seal on the cable outer sheath. Again these are available for all cable types and can be supplied with either a threaded or flanged entry.

All Cable Glands shown in Nickel Plated Brass, alternative materials are available.
MA/FT & MA/B Mining Flanged Adaptor

- Provides a conversion from spigot entry to a threaded entry
- Provides a thread size conversion if required

Cable Gland Selection Table
Refer to illustration at the top of the page.

<table>
<thead>
<tr>
<th>Adaptor Size</th>
<th>Bore Diameter &quot;H&quot;</th>
<th>Length &quot;B&quot;</th>
<th>Thread Diameter &quot;K&quot;</th>
<th>Spigot Diameter &quot;A&quot;</th>
<th>Width &quot;G&quot;</th>
<th>Centres &quot;F&quot;</th>
<th>Diameter &quot;D&quot;</th>
<th>Diameter &quot;E&quot;</th>
<th>Bore Depth &quot;C&quot;</th>
<th>Radius &quot;G&quot;</th>
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</thead>
<tbody>
<tr>
<td>20S</td>
<td>11.7</td>
<td>11.1</td>
<td>M20</td>
<td>19.05</td>
<td>27.0</td>
<td>44.45</td>
<td>6.6</td>
<td>11.5</td>
<td>7.0</td>
<td>12.7</td>
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<td>20</td>
<td>14.0</td>
<td>11.1</td>
<td>M20</td>
<td>19.05</td>
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<td>44.45</td>
<td>6.6</td>
<td>11.5</td>
<td>7.0</td>
<td>12.7</td>
</tr>
<tr>
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<td>7.0</td>
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<td>11.1</td>
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<td>57.17</td>
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<td>7.0</td>
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<td>8.7</td>
<td>14.3</td>
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<tr>
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<td>38.4</td>
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<td>M63</td>
<td>63.50</td>
<td>71.0</td>
<td>114.30</td>
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<td>19.0</td>
<td>10.5</td>
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<td>56.2</td>
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<td>M63</td>
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<td>68.2</td>
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<td>14.0</td>
<td>21.0</td>
<td>13.5</td>
<td>17.5</td>
</tr>
</tbody>
</table>

Dimensions are displayed in millimetres unless otherwise stated.
### TECHNICAL DATA

**Design Specification:** BS 6121:Part 1:1989, IEC 62444, EN 62444 (A2F/M Only)

**Mechanical Classifications***: Impact = Level 8, Cable Anchorage = Class B

**Enclosure Protection:** IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only

**ATEX Certificate:** SR413ATEX1068X

**Code of Protection:** M2 Ex d I Mb, Ex e I Mb

**Compliance Standards:** EN 60079-0,1,7

**IECEx Certificate:** IECEx SIR 13.0023X, IECEx SIM 14.0006

**Code of Protection:** Ex d I Mb, Ex e I Mb

**Compliance Standards:** IEC 60079-0,1,7

**Ingress Protection Rating**: IP66, IP67 & IP68***

**Cable Gland Material:** Brass, Electroless Nickel Plated Brass, Stainless Steel

**Seal Material:** CMP SOLO LSF Halogen Free Thermoset Elastomer

**Cable Type:** Unarmoured

**Sealing Technique:** CMP Unique Displacement Seal Concept

**Sealing Area(s):** Cable Outer Sheath

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### Cable Gland Selection Table

Refer to illustration at the top of the page.

Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet

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### Dimension Table

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Available Entry Threads &quot;C*</th>
<th>(Alternate Metric Thread Lengths Available)</th>
<th>Overall Cable Diameter &quot;A&quot;</th>
<th>Across Flats &quot;B&quot;</th>
<th>Across Corners &quot;D&quot;</th>
<th>Protrusion Length &quot;E&quot;</th>
<th>Combined Ordering Reference &quot;F (Brass Metric)&quot;</th>
<th>Shroud</th>
<th>Cable Gland Weight</th>
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<tbody>
<tr>
<td>Metric Thread Length (Metric) &quot;C&quot;</td>
<td>NPT</td>
<td>Thread Length (NPT)</td>
<td>NPT</td>
<td>Min</td>
<td>Max</td>
<td>Max</td>
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<td>Order</td>
<td>Type</td>
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<td>-----</td>
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<td>-----</td>
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<td>-----</td>
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</tr>
<tr>
<td>20516 M20</td>
<td>15.0</td>
<td>½&quot;</td>
<td>19.9</td>
<td>½&quot;</td>
<td>3.2</td>
<td>8.7</td>
<td>24.0</td>
<td>26.4</td>
<td>25.1</td>
</tr>
<tr>
<td>205 M20</td>
<td>15.0</td>
<td>½&quot;</td>
<td>19.9</td>
<td>½&quot;</td>
<td>6.1</td>
<td>11.7</td>
<td>24.0</td>
<td>26.4</td>
<td>25.1</td>
</tr>
<tr>
<td>20 M20</td>
<td>15.0</td>
<td>½&quot;</td>
<td>19.9</td>
<td>½&quot;</td>
<td>6.5</td>
<td>14.0</td>
<td>27.0</td>
<td>29.7</td>
<td>27.2</td>
</tr>
<tr>
<td>25 M25</td>
<td>15.0</td>
<td>1&quot;</td>
<td>20.2</td>
<td>1&quot;</td>
<td>11.1</td>
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<td>36.0</td>
<td>39.6</td>
<td>35.5</td>
</tr>
<tr>
<td>32 M32</td>
<td>15.0</td>
<td>1&quot;</td>
<td>23.0</td>
<td>1 ¼&quot;</td>
<td>17.0</td>
<td>26.3</td>
<td>41.0</td>
<td>45.1</td>
<td>43.2</td>
</tr>
<tr>
<td>40 M40</td>
<td>15.0</td>
<td>1 ¼&quot;</td>
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<td>1 ½&quot;</td>
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<td>32.2</td>
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<td>55.0</td>
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</tr>
<tr>
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<td>31.0</td>
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<td>38.2</td>
<td>59.0</td>
<td>75.0</td>
<td>82.5</td>
<td>56.3</td>
</tr>
<tr>
<td>50 M50</td>
<td>15.0</td>
<td>2&quot;</td>
<td>28.9</td>
<td>2 ½&quot;</td>
<td>35.6</td>
<td>44.0</td>
<td>60.0</td>
<td>66.0</td>
<td>36.3</td>
</tr>
<tr>
<td>63S M63</td>
<td>15.0</td>
<td>2&quot;</td>
<td>28.9</td>
<td>2 ½&quot;</td>
<td>41.5</td>
<td>49.9</td>
<td>70.5</td>
<td>77.6</td>
<td>33.5</td>
</tr>
<tr>
<td>63 M63</td>
<td>15.0</td>
<td>2&quot;</td>
<td>39.9</td>
<td>3&quot;</td>
<td>47.2</td>
<td>55.9</td>
<td>75.0</td>
<td>82.5</td>
<td>35.8</td>
</tr>
<tr>
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<td>39.9</td>
<td>3&quot;</td>
<td>54.0</td>
<td>61.9</td>
<td>80.0</td>
<td>88.0</td>
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</tr>
<tr>
<td>75 M75</td>
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<td>41.5</td>
<td>3 ½&quot;</td>
<td>61.1</td>
<td>67.9</td>
<td>84.0</td>
<td>92.4</td>
<td>40.6</td>
</tr>
<tr>
<td>90 M90</td>
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<td>3 ½&quot;</td>
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<td>4&quot;</td>
<td>66.6</td>
<td>79.9</td>
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<td>118.8</td>
<td>58.3</td>
</tr>
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<td>42.8</td>
<td>4&quot;</td>
<td>76.0</td>
<td>91.0</td>
<td>123.0</td>
<td>135.3</td>
<td>55.2</td>
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<tr>
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<td>5&quot;</td>
<td>86.0</td>
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<td>65.2</td>
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<td>130 M130</td>
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<td>5&quot;</td>
<td>46.8</td>
<td>6&quot;</td>
<td>97.0</td>
<td>114.9</td>
<td>152.4</td>
<td>167.6</td>
<td>73.9</td>
</tr>
</tbody>
</table>

---

* Please note: add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'

** Please note: add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32A2F1RA/M534 = Nickel Plated Brass 1¼" NPT, 50SA2F1RA/M035 = Brass 1½" NPT, 25A2F1RA/M432 = Stainless Steel ¾" NPT, 20A2F1RA/M5 = Nickel Plated Brass M20

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**Dimensions listed below are for metric cable glands only**

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* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444

** When CMP Installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request

---

**Dimensions are displayed in millimetres unless otherwise stated**

---

**For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32A2F1RA/M534 = Nickel Plated Brass 1¼" NPT, 50SA2F1RA/M035 = Brass 1½" NPT, 25A2F1RA/M432 = Stainless Steel ¾" NPT, 20A2F1RA/M5 = Nickel Plated Brass M20

---

**Dimensions are displayed in millimetres unless otherwise stated**
# A2F/MF Mining, Internationally Approved, Flanged Explosive Atmosphere Cable Gland

For all types of Unarmoured Cables

- Complete with flanged adaptor
- High quality durable materials
- Wide sealing range for each cable gland size
- Displacement type flameproof seal
- -60°C to +130°C
- Internationally marked, IECEx & ATEX

## Technical Data

- **Mechanical Classifications**: Impact = Level 8, Cable Anchorage = Class B
- **Enclosure Protection**: IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
- **ATEX Certificate**: SIRA13ATEX1068X, SIRA09ATEX1034U
- **Code of Protection**: Ex d I M B, Ex e I M B
- **Compliance Standards**: EN 60079-0,1,7
- **IECEx Certificate**: IECEx 09-0023X, IECEx 09-0024U, IECEx SIM 14-0006
- **Ingress Protection Rating**: IP67, IP66 & IP68

## A2F/MF Mining, Internationally Approved, Flanged Explosive Atmosphere Cable Gland

**For all types of Unarmoured Cables**

- Complete with flanged adaptor
- High quality durable materials
- Wide sealing range for each cable gland size
- Displacement type flameproof seal
- -60°C to +130°C
- Internationally marked, IECEx & ATEX

**Mechanical & Electrical Classifications** applied as per IEC 62444 & EN 62444

**When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.**

***IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request***

## Cable Gland Selection Table

Refer to illustration at the top of the page.

**See MA/FT, MA/B page for flange mounting dimensions**

**Alternative flange sizes available upon request**

### Cable Gland Selection Table

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Spigot Diameter &quot;C&quot;</th>
<th>Minimum Spigot Length &quot;E&quot;</th>
<th>Overall Cable Diameter &quot;A&quot;</th>
<th>Across Flats &quot;D&quot;</th>
<th>Across Corners &quot;D&quot;</th>
<th>Protrusion Length &quot;F&quot;</th>
<th>Combined Ordering Reference</th>
<th>Cable Gland Weight (Kgs)</th>
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<tbody>
<tr>
<td>205</td>
<td>19.0</td>
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<td>27.0</td>
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<td>11.1</td>
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<td>39.6</td>
<td>35.1</td>
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<td>32.2</td>
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<td>50.8</td>
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<td>38.2</td>
<td>55.0</td>
<td>60.5</td>
<td>42.5</td>
<td>50 A2F I1A/MF</td>
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<td>63.5</td>
<td>15.0</td>
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<td>55.9</td>
<td>70.0</td>
<td>77.0</td>
<td>44.5</td>
<td>63 A2F I1A/MF</td>
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<td>76.2</td>
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<td>61.9</td>
<td>84.0</td>
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</tr>
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<td>75</td>
<td>76.2</td>
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<td>61.1</td>
<td>67.9</td>
<td>84.0</td>
<td>92.4</td>
<td>10.0</td>
<td>75 A2F I1A/MF</td>
</tr>
</tbody>
</table>

*For material options add the following suffix to the Ordering Reference: Brass (no suffix required); Nickel Plated Brass ‘5’; 316 Grade Stainless Steel ‘4’; Copper Free Aluminium ‘1’

**When NPT installation options are used, refer to page 7 or www.cmp-products.com for further information.**

**IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request.**

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**Dimensions are displayed in millimetres unless otherwise stated.**

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**2017 full product catalogue DESKTOP WORKING FILE.indd 118 16/01/2017 15:07:31**
A2F/HC Mining & Overground, Internationally Approved, Explosive Atmosphere Cable Gland

For all types of Unarmoured Cables housed in Flexible Hose

- Standard material nickel plated brass
- Suitable for QLD & NSW coal mining applications
- External Hose connection facility
- Approved for Group I & Group II
- High quality durable materials
- Wide sealing range for each cable gland size
- Displacement type flameproof seal
- -60°C to +130°C
- Internationally marked, IECEx & ATEX

**Technical Data**

- **Design Specification:** BS 6121:Part I:1989, IEC 62444, EN 62444
- **Mechanical Classifications***:** Impact = Level 8, Cable Anchorage = Class B
- **Enclosure Protection:** IK10 to IEC 62262 (20 Joules) Brass & Stainless Steel only
- **ATEX Certificate:** SIRA13ATEX1068X, SIRA13ATEX4074X
- **Code of Protection:** Ex d IIC Gb, Ex e IIC Gb, Ex ta IIC Da (Group II)
- **Compliance Standards:** EN 60079-0,1,7,15,31
- **IECEx Certificate:** IECEx SR 13.0023X, IECEx SRW 14.0006
- **Code of Protection:** Ex d IIC Gb, Ex e IIC Gb, Ex ta IIC Da (Group II)
- **Compliance Standards:** IEC 60079-0,1,7,31
- **EAC Certificate:** TCU.05.B00138 (Group I)
- **KCC Certificate:** 13-GA4B0-0748X, 13-GA4B0-0749X, 13-GA4B0-0750X (Group II)
- **CCOE / PESO (India) Certificate:** P333688 (Group II)
- **NEPSI Certificate:** GYJ13.1140X / GYJ13.1262X (Group III)
- **Compliance Standards:** EN 60079-0,1,7,15,31
- **Ingress Protection Rating:** IP66, IP67 & IP68
- **Deluga Protection Compliance:** DTS01 : 91
- **Cable Gland Material:** Electrocold Nickel Plated Brass (standard), Stainless Steel, Aluminium
- **Seal Material:** CMP SOLO LSF Halogen Free Thermoset Elastomer
- **Cable Type:** Unarmoured & enclosed within hose for mechanical protection
- **Sealing Technique:** CMP Displacement Seal
- **Sealing Area(s):** Cable Outer Sheath

*C** Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444

**When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request

**• Standard material nickel plated brass
• Suitable for QLD & NSW coal mining applications
• External Hose connection facility
• Approved for Group I & Group II
• High quality durable materials
• Wide sealing range for each cable gland size
• Displacement type flameproof seal
• -60°C to +130°C
• Internationally marked, IECEx & ATEX

**Cable Gland Selection Table**

Refer to illustration at the top of the page.

Dimensions listed below are for metric cable glands only

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Hose Diameter &quot;H&quot;</th>
<th>Standard Metric Entry Threads &quot;C&quot;</th>
<th>Minimum Thread Length &quot;E&quot;</th>
<th>Overall Cable Diameter &quot;A&quot;</th>
<th>Across Flats &quot;D&quot;</th>
<th>Across Corners &quot;D&quot;</th>
<th>Protrusion Length &quot;F&quot;</th>
<th>Hose Connection Length &quot;G&quot;</th>
<th>Combined Ordering Reference (Brass Metric)</th>
<th>Cable Gland Weight (Kgs)</th>
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Dimensions are displayed in millimetres unless otherwise stated

Available for Group I & II use
Contact CMP for specific Group I & II Certification

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Cable Gland Selection Table
Refer to illustration at the top of the page.

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<thead>
<tr>
<th>Cable Gland Size</th>
<th>Standard</th>
<th>Option</th>
<th>Available Entry Threads “C”</th>
<th>Overall Cable Diameter “B”</th>
<th>Pliable Armour Wire</th>
<th>Across Flats “D”</th>
<th>Across Corners “D”</th>
<th>Combined Ordering Reference (“Brass Metric”)</th>
<th>Type</th>
<th>Size</th>
<th>Ordering Suffix</th>
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* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444
** When CMP installation accessories are used, refer to page 7 or www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request

Dimensions listed below are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

**For NPT options add the following digits to the material suffix; ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 ½” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix ‘0’)

Examples: 32E1FXM1RA534 = Nickel Plated Brass 3/8”NPT, 50E1FXM1RA305 = Brass 1”NPT, 25E1FXM1RA323 = Stainless Steel ⅞”NPT, 20E1FXM1RA5 = Nickel Plated Brass ⅝"
Cable Gland Selection Table

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*Note: For material options please add the following suffix to change the Ordering Reference: *Brass (no suffix required), Nickel Plated Brass “5”, Stainless Steel “4”, Copper Free Aluminium “7”

Examples: 32E1FXMF5/7/8/9 A = Brass, 32E1FXMF5/7/8/9 B = Nickel Plated Brass, 32E1FXMF5/7/8/9 C = Stainless Steel

Dimensions are displayed in millimetres unless otherwise stated.

www.cmp-products.com
**Cable Gland Selection Table**

Refer to illustration at the top of the page.

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<thead>
<tr>
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<td>2 ½&quot;</td>
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<td>39.9</td>
<td>2 ½&quot;</td>
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</table>

*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass ‘5’; 316 Grade Stainless Steel ‘4’; Copper Free Aluminium ‘1’.

For NPT options add the following digits to the material suffix; ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 ½” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix ‘0’).

Examples: 32E1FWM1RA534 = Nickel Plated Brass 1¼” NPT, 50SE1FWM1RA035 = Brass 1½” NPT, 20E1FWM1RA5 = Nickel Plated Brass M20

Dimensions listed below are for metric cable glands only.
Dimensions for alternative threads may vary, please see supplementary technical data sheet.

**E1FW/M**

E1FW/M Mining, Internationally Approved, Explosive Atmosphere Cable Gland

- High quality durable materials
- Wide sealing range for each cable gland size
- Fully sequential, three step installation procedure
- Reduces subjectivity of installations
- Metal-to-metal armour clamping
- Direct & remote installation
- Displacement type flameproof inner seal
- Controlled outer “load retention” seal
- Unique OSTG prevents overtightening
- -60°C to +130°C
- Permitted in Zone 1
- Internationally marked, IECEx & ATEX
- Superior EMC performance

**TECHNICAL DATA**

**Design Specification**
- BS 6121:Part 1:1989, IEC 62444, EN 62444

**Mechanical Classifications**
- Impact = Level 8, Cable Anchorage = Class D

**Enclosure Protection**
- M10 to IEC 62626-20 (joules) Brass & Stainless Steel only

**Electrical Classifications**
- Category B

**ATEX Certificate**
- SIRA13ATEX1071X

**Code of Protection**
- IM2 Ex d I Mb, Ex e I Mb

**Compliance Standards**
- EN60079-0,1,7

**IECEx Certificate**
- IECEx SIR 13.0026X, IECEx SIM 14.0007X

**Code of Protection**
- Ex d I Mb, Ex e I Mb

**Compliance Standards**
- EN 60079-0,1,7

**Ingress Protection Rating**
- IP66 as standard (IP67, IP68*** available upon request)

**Cable Gland Material**
- Brass, Electroless Nickel Plated Brass

**Seal Material**
- CMP SOLO LSF Halogen Free Thermoset Elastomer

**Cable Type**
- Single Wire Armour (SWA), Aluminium Wire Armour (AWA)

**Armour Clamping**
- Detachable Armour Core & AnyWay Universal Clamping Ring

**Sealing Technique**
- CMP Inner Displacement Seal & Unique CMP “UB5” Outer Load Retention Seal

**Sealing Area(s)**
- Cable Inner Bedding & Outer Cable Sheath

**Dimensions are displayed in millimetres unless otherwise stated**

**E1FW/M**

E1FW/M Mining, Internationally Approved, Explosive Atmosphere Cable Gland

For all types Steel & Aluminium Wire Armoured cables

- High quality durable materials
- Wide sealing range for each cable gland size
- Fully sequential, three step installation procedure
- Reduces subjectivity of installations
- Metal-to-metal armour clamping
- Direct & remote installation
- Displacement type flameproof inner seal
- Controlled outer “load retention” seal
- Unique OSTG prevents overtightening
- -60°C to +130°C
- Permitted in Zone 1
- Internationally marked, IECEx & ATEX
- Superior EMC performance
### E1FW/MF Mining, Internationally Approved, Flanged Explosive Atmosphere Cable Gland

For all types Steel & Aluminium Wire Armoured cables
- High quality durable materials
- Wide sealing range for each cable gland size
- Fully sequential, three step installation procedure
- Reduces subjectivity of installations
- Complete with flanged adaptor
- Metal-to-metal armour clamping
- Direct & remote installation
- Displacement type flameproof inner seal
- Controlled outer ‘load retention’ seal
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Permitted in Zone 1
- Internationally marked, IECEx & ATEX
- Superior EMC performance

#### Cable Gland Selection Table
Refer to illustration at the top of the page.

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Minimum Spigot Length &quot;E&quot;</th>
<th>Spigot Diameter &quot;C&quot;</th>
<th>Cable Bedding Diameter &quot;A&quot;</th>
<th>Overall Cable Diameter &quot;B&quot;</th>
<th>Armour Range Across Flats &quot;D&quot;</th>
<th>Across Camarons &quot;O&quot;</th>
<th>Protrusion Length &quot;F&quot;</th>
<th>Combined Ordering Reference (&quot;Brass Metric&quot;)</th>
<th>Cable Gland Weight (Kgs)</th>
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**For material options add the following suffix to the Ordering Reference: Brass (no suffix required); Nickel Plated Brass ‘5’; 316 Grade Stainless Steel ‘4’; Copper Free Aluminium ‘1’**

Examples: 32E1FW/MF1RA = Brass, 50DS1FW/MF1RA = Nickel Plated, Brass, 316E1FW/MF1RA = Stainless Steel

Dimensions are displayed in millimetres unless otherwise stated.

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**TECHNICAL DATA**

**Design Specification**
BS 6121:Part 1:1989, IEC 62444, EN 62444

**Mechanical Classifications***
Impact = Level 8, Cable Anchorage = Class D

**Enclosure Protection**
IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only

**ATEX Certificate**
SIRA13ATEX1072X

**Code of Protection**
Ex d I Mb, Ex e I Mb

**Compliance Standards**
EN 60079-0,1,7

**IECEx Certificate**
IECEx SIR 13.0027X

**Code of Protection**
Ex d I Mb, Ex e I Mb

**Compliance Standards**
IEC 60079-0,1,7

**Ingress Protection Rating**
IP66, IP67 & IP68***

**Deluge Protection Compliance**
DTS01:91

**Cable Gland Material**
Brass, Electroless Nickel Plated Brass, Stainless Steel

**Seal Material**
CMP SOLO LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound

**Cable Type**
Unarmoured

**Sealing Technique**
CMP Unique Displacement Seal Concept

**Sealing Area(s)**
Inner Compound Barrier & Outer Sheath

**Cable Gland Selection Table**
Refer to illustration at the top of the page.

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Minimum Thread Length &quot;E&quot;</th>
<th>Entry Thread &quot;C&quot;</th>
<th>Maximum Diameter Over Conductors &quot;A&quot;</th>
<th>Maximum Number Of Cores</th>
<th>Cable Bedding Diameter &quot;G&quot;</th>
<th>Overall Cable Diameter &quot;B&quot;</th>
<th>Across Flats &quot;D&quot;</th>
<th>Across Corners &quot;D&quot;</th>
<th>Protrusion Length &quot;F&quot;</th>
<th>Combined Ordering Reference (*Brass Metric)</th>
<th>Shroud</th>
<th>Cable Gland Weight (Kgs)</th>
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</table>

* For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass ‘5’; 316 Grade Stainless Steel ‘4’; Copper Free Aluminium ‘1’

Examples: 20SPXSS2KM1RA = Brass, 50SPXSS2KM1RA5 = Nickel Plated Brass, 20SPXSS2KM4RA4 = Stainless Steel

Dimensions are displayed in millimetres unless otherwise stated.

Also available with RapidEx

**PXSS2K/M**
PXSS2K/M Mining, Internationally Approved, Explosive Atmosphere Barrier Cable Gland

For all types of Unarmoured Cables

- Displacement type environmental seal
- Compound barrier type flameproof seal
- -60°C to +85°C
- Permitted in Zone 1
- Internationally marked, IECEx & ATEX
## Technical Data

### Design Specification
- BS 6121:Part 1:1989, IEC 62444, EN 62444

### Mechanical Classifications*
- Impact = Level 8, Cable Anchorage = Class D

### Enclosure Protection
- IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only

### ATEX Certificate
- SIRA13ATEX1072X, SIRA09ATEX1034U

### Code of Protection
- Ex d I Mb, Ex e I Mb

### Compliance Standards
- EN 60079-0,1,7

### IECEx Certificate
- IECEx SIR 13.0027X, IECEx SIR 09.0024U

### Code of Protection
- Ex d I Mb, Ex e I Mb

### Compliance Standards
- IEC 60079-0,1,7

### Ingress Protection Rating**
- IP66

### Cable Gland Material
- Brass, Electroless Nickel Plated Brass, Stainless Steel

### Seal Material
- CMP SOLO LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound

### Cable Type
- Unarmoured

### Sealing Technique
- CMP Unique Displacement Seal Concept

### Sealing Area(s)
- Inner Compound Barrier & Outer Sheath

### Cable Gland Selection Table

Refer to illustration at the top of the page.

#### See IA/FT, IA/B page for flange mounting dimensions

#### Alternative flange sizes available upon request

#### Also available with RapidEx

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Minimum Spigot Length &quot;E&quot;</th>
<th>Spigot Diameter &quot;C&quot;</th>
<th>Number of Cores</th>
<th>Cable Bedding Diameter &quot;A&quot;</th>
<th>Overall Cable Diameter &quot;A&quot;</th>
<th>Across Flats &quot;D&quot;</th>
<th>Across Corners &quot;D&quot;</th>
<th>Protrusion Length &quot;F&quot;</th>
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*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'.

Examples: 32PXSS2KMF1RA = Brass, 50S0X20KMF1RA4 = Nickel Plated Brass, 25PXSS2KMF1RA4 = Stainless Steel

Dimensions are displayed in millimetres unless otherwise stated.

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### TECHNICAL DATA

#### Design Specification
- **BS 6121:Part 1:1989**
- **IEC 62444**
- **EN 62444**

#### Mechanical Classifications*
- Impact = Level 8, Cable Anchorage = Class D

#### Enclosure Protection
- IK10 to IEC 62262 (20 joules)
- Brass & Stainless Steel only

#### Electrical Classifications*
- Category B (Category A when used with braid, tape or pliable wire armour cables)

#### ATEX Certificate
- SIRA13ATEX1072X

#### Code of Protection
- IM2 Ex d I Mb, Ex e I Mb

#### Compliance Standards
- **EN 60079-0,1,7**
- **IECEx Certificate**
- IECEx SIR 13.0027X

#### Code of Protection
- Ex d I Mb, Ex e I Mb

#### Compliance Standards
- IEC 60079-0,1,7

#### Ingress Protection Rating**
- IP66, IP67 & IP68***

#### Deluge Protection Compliance
- DTS01 : 91

#### Standard Cable Gland Material
- Brass, Electroless Nickel Plated Brass, Stainless Steel

#### Seal Material
- CMP SOLO LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound

#### Cable Type
- Pliable Wire Armour (PWA)

#### Armour Clamping
- Detachable Compound Tube / Cone & AnyWay Universal Clamping Ring

#### Sealing Area(s)
- Inner Compound Barrier & Cable Outer Sheath

### Cable Gland Selection Table

Refer to illustration at the top of the page.

#### Dimensions listed below are for metric cable glands only

Dimensions for alternative threads may vary, please see supplementary technical data sheet

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Available Entry Threads, °C (Alternate Metric Thread Lengths Available)</th>
<th>Maximum Number Of Cores</th>
<th>Maximum Diameter Over Conductors &quot;A&quot;</th>
<th>Cable Redding Diameter &quot;G&quot;</th>
<th>Overall Cable Diameter &quot;B&quot;</th>
<th>Pliable Armour Wire</th>
<th>Across Flats &quot;D&quot;</th>
<th>Across Corners &quot;D&quot;</th>
<th>Protrusion Length &quot;F&quot;</th>
<th>Combined Ordering Reference (Brass Metric)</th>
<th>Size</th>
<th>Type</th>
<th>Ordering Suffix</th>
<th>Shroud</th>
<th>Cable Gland Weight (Kgs)</th>
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*Note: For mechanical options please add the following suffix to change the Ordering Reference: Brass (no suffix required), Nickel Plated Brass "5", Copper Free Aluminium "1".*

For NPT options please add the following digits to the material suffix: ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38 (Brass requires prefix "0").

Examples: 32PX2KXM1RA534 = Nickel Plated Brass 1¼" NPT, 50SPX2KXM1RA035 = Brass 1½" NPT, 25PX2KXM1RA432 = Stainless Steel ¾" NPT, 20PX2KXM1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated.

For Pliable Wire Armoured cables:
- Metal-to-metal armour clamping
- Direct & remote installation
- Compound barrier type flameproof seal
- Controlled outer ‘load retention’ seal
- Unique OSTG prevents over-tightening
-~60°C to +85°C
- Permitted in Zone 1
- Internationally marked, IECEx & ATEX
- Superior EMC performance

PX2KX/M PX2KX/M Mining, Internationally Approved, Explosive Atmosphere Barrier Cable Gland

Also available with RapidEx

- Metal-to-metal armour clamping
- Direct & remote installation
- Compound barrier type flameproof seal
- Controlled outer ‘load retention’ seal
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### Cable Gland Selection Table

Refer to illustration at the top of the page.

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<tr>
<th>Cable Gland Size</th>
<th>Minimum Spigot Length &quot;E&quot;</th>
<th>Spigot Diameter &quot;C&quot;</th>
<th>Maximum Number Of Cores</th>
<th>Maximum Diameter Over Conduits &quot;A&quot;</th>
<th>Cable Bedding Diameter &quot;G&quot;</th>
<th>Overall Cable Diameter &quot;B&quot;</th>
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<th>Across Flats &quot;D&quot;</th>
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*For material options add the following suffix to the Ordering Reference: Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'.

Example: 20PX2KX/MF1RA/MF = Brass, 20S PX2KX/MF1RA5 = Nickel Plated Brass, 25PX2KX/MF1RA4 = Stainless Steel

Dimensions are displayed in millimetres unless otherwise stated.

### TECHNICAL DATA

- **Design Specification**: BS 6121 Part 1:1989, IEC 62444, EN 62444
- **Mechanical Classifications**: Impact = Level 8, Cable Anchorage = Class D
- **Enclosure Protection**: IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
- **Electrical Classifications**: Category B
- **ATEX Certificate**: SIRA13ATEX1072X, SIRA09ATEX1034U

### Cable Gland Selection Table

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**PX2KX/MF**

**PX2KX/MF Mining, Internationally Approved, Explosive Atmosphere Barrier Cable Gland**

For Pliable Wire Armoured cables

- Complete with flanged adaptor
- Metal-to-metal armour clamping
- Direct & remote installation
- Compound barrier type flameproof seal
- Controlled outer ‘load retention’ seal
- Unique OSTG prevents overtightening
- -60°C to +85°C
- Permitted in Zone 1
- Internationally marked, IECEx & ATEX
- Superior EMC performance

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**Dimensions for alternative threads may vary, please see supplementary technical data sheet.**

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**See MA/FT, MA/B page for flange mounting dimensions**

**Alternative flange sizes available upon request**

**Also available with RapidEx**
PX2KW/M Mining, Internationally Approved, Explosive Atmosphere Barrier Cable Gland

For all types Steel & Aluminium Wire Armoured cables

- Metal-to-metal armour clamping
- Direct & remote installation
- Compound barrier type flameproof seal
- Controlled outer ‘load retention’ seal
- Unique OSTG prevents overtightening
- -60°C to +85°C
- Permitted in Zone 1
- Internationally marked, IECEx & ATEX
- Superior EMC performance

**Cable Gland Selection Table**

Refer to illustration at the top of the page.

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</table>

* For material options add the following suffix to the Ordering Reference: Brass (no suffix required); Nickel Plated Brass “5”; Stainless Steel “4”; Copper Free Aluminium “1”.

**Dimensions listed below are for metric cable glands only**

Dimensions for alternative threads may vary, please see supplementary technical data sheet

**Technical Data**

- **Design Specification**: BS 6121 Part 1:1989, IEC 62444, EN 62444
- **Mechanical Classifications**: Impact = Level 8, Cable Anchorage = Class D
- **Enclosure Protection**: IK10 to IEC 62692 (20 joules) Brass & Stainless Steel only
- **Electrical Classifications**: Category B
- **ATEX Certificate**: SIRA13ATEX1072X
- **Code of Protection**: IM2 Ex d I, Ex e I
- **Compliance Standards**: EN 60079-0,1,7
- **IECEx Certificate**: IECEx 13.0027X
- **Code of Protection**: Ex d I Mb, Ex e I Mb
- **Compliance Standards**: IEC 60079-0,1,7
- **Ingress Protection Rating**: IP66, IP67 & IP68**

**Deluge Protection Compliance**: DTSG1: 91

**Cable Gland Material**: Brass, Electroless Nickel Plated Brass, Stainless Steel

**Seal Material**: CMP SOLO LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound

**Cable Type**: Single Wire Armour (SWA), Aluminium Wire Armour (AWA)

**Armour Clamping**: Detachable Armour Cone & AnyWay Universal Clamping Ring

**Sealing Technique**: Unique CMP ‘LRS’ Outer Seal (Load Retention Seal)

**Sealing Area(s)**: Inner Compound Barrier & Outer Sheath

**Code of Protection**: Ex d I Mb, Ex e I Mb

**Compliance Standards**: IEC 60079-0,1,7

**Ingress Protection Rating**: IP66, IP67 & IP68***

**Dimensions are displayed in millimetres unless otherwise stated**

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444

** When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

*** IP6X tested to a minimum depth of 30 metres for 12 hours; alternate depths / durations can be provided upon request

*For material options add the following suffix to the Ordering Reference: Brass (no suffix required); Nickel Plated Brass “5”; Stainless Steel “4”; Copper Free Aluminium “1”.

For NPT options please add the following digits to the material suffix; ½” = 31, ¾” = 32, 1” = 33, 1¼” = 34, 1½” = 35, 2” = 36, 2½” = 37, 3” = 38 (Brass requires prefix “0”).

Examples: 32PX2KWM1RA034 = Nickel Plated Brass 1¼” NPT, 50SPX2KWM1RA035 = Brass 1½” NPT, 25PX2KWM1RA432 = Stainless Steel ¾” NPT, 20PX2KWM1RA5 = Nickel Plated Brass M20

Dimensions for alternative threads may vary, please see supplementary technical data sheet

www.cmp-products.com

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PX2KW/MF Mining, Internationally Approved, Flanged Explosive Atmosphere Barrier Cable Gland

For all types Steel & Aluminium Wire Armoured cables

- Complete with flanged adaptor
- Metal-to-metal armour clamping
- Direct & remote installation
- Compound barrier type flameproof seal
- Controlled outer "load retention" seal
- Unique OSG prevents overtightening
- -60°C to +85°C
- Permitted in Zone 1
- Internationally marked, IECEx & ATEX
- Superior EMC performance

See MA/FT, MA/B page for flange mounting dimensions
Alternative flange sizes available upon request
Also available with RapidEx

Cable Gland Selection Table
Refer to illustration at the top of the page.

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Minimum Spigot Length &quot;E&quot;</th>
<th>Spigot Diameter &quot;C&quot;</th>
<th>Maximum Number Of Cones</th>
<th>Diameter Over Conductors &quot;A&quot;</th>
<th>Cable Building Diameter &quot;G&quot;</th>
<th>Overall Cable Diameter &quot;B&quot;</th>
<th>Armour Range Across Flats &quot;D&quot;</th>
<th>Across Corners &quot;D&quot;</th>
<th>Protection Length &quot;P&quot;</th>
<th>Combined Ordering Reference (*Brass Metric)</th>
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* For material options add the following suffix to the Ordering Reference; Brass (no suffix required), Nickel Plated Brass "5", 316 Grade Stainless Steel "4", Copper Free Aluminium "1".

Examples: 20PX2KW/MF1RA = Brass, 50SPX2KW/MF1RA5 = Nickel Plated Brass, PX2KW/MF1RA4 = Stainless Steel.

Dimensions are displayed in millimetres unless otherwise stated.

See MA/FT, MA/B page for flange mounting dimensions
Alternative flange sizes available upon request
Also available with RapidEx

www.cmp-products.com
The CMP range of Cable Glands for Hazardous (Classified) Locations and Ordinary Locations are versatile enough to meet virtually all applications where flexible and non flexible cables are used.

Designed for both offshore and onshore requirements, the options cover all types of Non Armoured flexible cables, cords and tray cables, including TC-ER-HL and Type P and all armoured cables types, including; MC, MC-HL, Interlocked, Teck, Braid armoured shipboard and served wire armour

CMP’s Hazardous (Classified) Locations cable glands comply with the prevailing UL, ISA, ANSI, CSA & IEC standards and meet the requirements of the NEC, CEC & IEC installation code requirements to provide complete global solutions.

All Cable Glands shown in Nickel Plated Brass, alternative materials are available.
TMC2X Cable Glands - The Key Features

1. **NEMA / IP Environmental Seal**

   The TMC2X incorporates a ‘weak back’ seal which is designed to prevent the ingress of dust and rain, splashing water, hose-directed water and damage from exterior ice formation. The seal enables the gland to meet the requirements of NEMA 4X and IP66. The seal provides a wide cable acceptance range allowing cables from 0.5” to 4.25” to be incorporated in only 12 trade sizes of connector. The seal is manufactured from low smoke, flame resistant, halogen-free elastomer which meets the requirements of EN50267-21 and LUL Fire Safety Regulations.

2. **Armor Termination**

   The TMC2X has been designed and tested to terminate all types of metal clad cables including continuous aluminium (MC-HL), Teck 90, interlocked aluminium and interlocked steel. An internal corrosion resistant stainless steel spring provides 360° grounding of the armor and allows for easy installation and disconnection of the cable where required. The spring provides excellent pull-out resistance which exceeds the requirements of CSA C22.2 & UL514B. The spring is non-magnetic and is suitable for use with single conductor power cables carrying in excess of 200A.

3. **Easy Identification Nut**

   Outer seal nuts provided by CMP have large wrench holds for ease of installation and display clear lazer marking showing the Cable Gland properties, certification and hazardous location details.

4. **Inspectable RapidEx Resin Chamber**

   A barrier type cable gland which is disconnectable utilizing a tried and tested metal barrier tube which provides an Explosionproof joint that enables cables to be safely and easily removed from equipment. The Explosionproof joint path can be visually inspected and also measured according to the parameters of IECEx and cCSAus for flame paths.

**Explosionproof Seal**

The TMC2X incorporates the RapidEx liquid pour, fast curing, liquid resin seal that installs in seconds and cures in minutes. Its unique formula begins with a low viscosity liquid that flows into the cable interstices completely surrounding the cable conductors, driving out all the air in the process. The viscosity then increases and completely cures in minutes. Once cured the RapidEx resin adheres to both the cable conductors and the inside of the barrier tube creating a bond that will last for the life of the cable connector. The RapidEx seal will never crack or shrink with changes in temperature.
## How to Order - TMC2X, TMC2 & TC

### Example Ordering

**TMC2X-**
- Type: 050
- ¼" Stainless Steel
- Max Cable Diameter (TMC2X): 0.99"
- Suffix I.D.

**TMC2**
- Type: 075
- ¾" Stainless Steel
- Max Cable Diameter (TC): 0.79"

**TC**
- Type: 100
- 1" Nickel Plated Brass
- Max Cable Diameter (TC): 0.79"

### Cable Gland Type

<table>
<thead>
<tr>
<th>Cable Gland Type</th>
<th>Thread Order Reference*</th>
<th>Material</th>
<th>Max Cable Jacket Diameter <em>(TMC2, TMC2X)</em></th>
<th>Max Cable Diameter (TC)</th>
<th>Supply Type</th>
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<td>079 0.79&quot;</td>
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</tbody>
</table>

* Other thread types and sizes available upon request.

** Supplied in pack with RapidEx resin.

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*2017 full product catalogue DESKTOP WORKING FILE.indd 133*
Cable Gland Selection Table

Refer to illustration at the top of the page

TMC

Globally Approved, Hazardous (Classified) Location Cable Gland

For MC, MC-HL, Interlocked & Teck Armored Cables

- Simple, sequential installation process
- No disassembly required
- Integral protected deluge seal
- 360˚ grounding spring (non-magnetic)
- -76˚F to 230˚F
- 360˚ grounding spring (non-magnetic)
- Integral protected deluge seal
- No disassembly required
- Simple, sequential installation process

Order Code Example: TMC250SS “TMC” (Gland Type) - “250” (2½" NPT Thread) - “SS” (Material Stainless Steel)

**When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

---|---|---|---|---|---|---|---|---|---
TMC200SA | TMC200SNSB | TMC200SSS | ½" | M20 | 0.78 | 0.59 | 0.35 | 0.35 | 0.55 | 1.83 | 1.20 | 1.52 | PVC09 | 7.90
TMC200SA | TMC200SNSB | TMC200SSS | ½" | M20 | 0.78 | 0.59 | 0.35 | 0.35 | 0.55 | 1.83 | 1.20 | 1.52 | PVC09 | 9.91
TMC250SA | TMC250SNSB | TMC250SSS | 1" | M32 | 0.80 | 0.59 | 0.76 | 0.76 | 0.92 | 0.67 | 1.04 | 2.09 | 1.61 | 1.79 | PVC10 | 11.61
TMC300A | TMC300NB | TMC300SS | 1 ¼" | M40 | 1.03 | 0.59 | 1.72 | 1.46 | 1.46 | 1.62 | 1.40 | 1.74 | 2.31 | 2.62 | 2.60 | PVC16 | 19.45
TMC300A | TMC300NB | TMC300SS | 1 ¼" | M40 | 1.03 | 0.59 | 1.72 | 1.46 | 1.46 | 1.62 | 1.40 | 1.74 | 2.31 | 2.62 | 2.60 | PVC16 | 21.73
TMC300A | TMC300NB | TMC300SS | 1 ¼" | M40 | 1.03 | 0.59 | 1.72 | 1.46 | 1.46 | 1.62 | 1.40 | 1.74 | 2.31 | 2.62 | 2.60 | PVC16 | 22.02
TMC300A | TMC300NB | TMC300SS | 1 ¼" | M40 | 1.03 | 0.59 | 1.72 | 1.46 | 1.46 | 1.62 | 1.40 | 1.74 | 2.31 | 2.62 | 2.60 | PVC16 | 24.23
TMC300A | TMC300NB | TMC300SS | 1 ¼" | M40 | 1.03 | 0.59 | 1.72 | 1.46 | 1.46 | 1.62 | 1.40 | 1.74 | 2.31 | 2.62 | 2.60 | PVC16 | 25.45
TMC350A | TMC350NB | TMC350SS | 1 ½" | M50 | 1.32 | 0.59 | 2.24 | 1.93 | 1.93 | 2.09 | 1.86 | 2.21 | 2.49 | 2.95 | 3.25 | PVC23 | 38.80
TMC350A | TMC350NB | TMC350SS | 1 ½" | M50 | 1.32 | 0.59 | 2.24 | 1.93 | 1.93 | 2.09 | 1.86 | 2.21 | 2.49 | 2.95 | 3.25 | PVC23 | 50.97
TMC350A | TMC350NB | TMC350SS | 1 ½" | M50 | 1.32 | 0.59 | 2.24 | 1.93 | 1.93 | 2.09 | 1.86 | 2.21 | 2.49 | 2.95 | 3.25 | PVC23 | 56.46
TMC350A | TMC350NB | TMC350SS | 1 ½" | M50 | 1.32 | 0.59 | 2.24 | 1.93 | 1.93 | 2.09 | 1.86 | 2.21 | 2.49 | 2.95 | 3.25 | PVC23 | 62.46
TMC350A | TMC350NB | TMC350SS | 1 ½" | M50 | 1.32 | 0.59 | 2.24 | 1.93 | 1.93 | 2.09 | 1.86 | 2.21 | 2.49 | 2.95 | 3.25 | PVC23 | 64.59
TMC350A | TMC350NB | TMC350SS | 1 ½" | M50 | 1.32 | 0.59 | 2.24 | 1.93 | 1.93 | 2.09 | 1.86 | 2.21 | 2.49 | 2.95 | 3.25 | PVC23 | 66.55

Dimensions are displayed in inches unless otherwise stated.

Order Code-Example: TMC200SS “TMC” (Gland Type) - “200” (2½" NPT Thread) - “SS” (Material Stainless Steel).
### TMCX

**TMCX Globally Approved, Hazardous (Classified) Location Barrier Cable Gland**

For MC, MC-HL, Interlocked & Teck Armored Cables

- Simple, sequential installation process
- Compound barrier type flameproof seal
- Integral protected deluge seal
- 360° grounding spring (non-magnetic)
- Disconnectable, union design feature
- 360° Stainless Steel Grounding Spring (non-magnetic)
- Armor Clamping
- Cable Type: Corrugated & Interlocked Metal Clad Armor (MC) or TECK90, Continuously Welded Metal Clad Armor (MCHL), ACIC-HL, ACICW90-HL, RC90-HL
- Inner Compound Barrier and Cable Outer Jacket
- Armor Stop Out Across
- Armor Clamping
- Enclosure Protection

### Cable Gland Selection Table

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<th>Order Reference</th>
<th>Entry Thread &quot;E&quot;</th>
<th>Entry Thread &quot;C&quot;</th>
<th>Minimum Thread Length &quot;E&quot;</th>
<th>Minimum Thread Length &quot;C&quot;</th>
<th>Cable Armor Diameter &quot;A&quot;</th>
<th>Cable Jacket Diameter &quot;B&quot;</th>
<th>Nominal Assembly Length &quot;F&quot;</th>
<th>Max Across Flats &quot;D&quot;</th>
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*Order Code Example: TMCX250SS "TMC" (Gland Type) - "250" (2½" NPT Thread) - "SS" (Material Stainless Steel)*
**TMC2 Aluminum Globally Approved, Hazardous (Classified) Location Cable Gland**

For MC, MC-HL, Interlocked & Teck Armored Cables

- Simplified two part design
- Compact slim profile
- Independent sealing & armor clamping
- Simple, sequential installation process
- No disassembly required
- Equipment interface ‘O’ ring seal as standard
- Hub not required
- 360° grounding spring (non-magnetic)
- -76˚F to 230˚F

**TECHNICAL DATA**

- Design Specification 6.5.61; Part 1:1989, IEC 62444, EN 62444
- Enclosure Protection: II 2GD, Ex e IIC Gb, Ex ta IIIC Da
- Mechanical Classifications* Impact = Level B, Cable Anchorage = Class D
- ATEX Certificate SIRA09ATEX3164XK
- Code of Protection II 2GD, Ex e IIC Gb, Ex ta IIIC Da
- Compliance Standards EN 60079-0, EN 612401, 1
- IECEx Certificate IECEx SR 09.0068X
- Code of Protection Ex e IIC Gb, Ex ta IIIC Da
- Compliance Standards IEC 60079-0,1,31
- CSAus Certificate 2194053
- CSaus Code of Protection Class I, Div 2, Groups A, B, C and D; Class II, Div 1 and 2, Group E, F, and G; Class III, Div 1 and 2, Excl. Type 4X.
- EAC Certificate TC RU C-GIL7508800138
- COE / PESO (India) Certificate P333648
- NETA Approval Number 02666
- Marine Approvals ABS: 01/00172 (E3) DNV: E-13848 ABS: 15-LD1401478-PAO
- Ingress Protection Rating** NEMA XP 6
- Aluminum Nickel Plated Stainless Steel
- Cable Type Corrugated & Interlocked Metal Clad Armor (MC) or TECK90, Continuously Welded Metal Clad Armor (MCHL), ACC-HL, ACCW90-HL, RCD-HL, RABO-HL
- Armor Clamping (Not Stainless Steel Grounding Spring (non-magnetic)
- Jacket Sealing Technique CMP Load Retention Seal
- Sealing Area(s) Cable Outer Jacket
- Seal Material CMP SOLO LSF Halogen Free Thermostet Elastomer
- Cable Gland Material Copper Free (c-UL), Aluminum, Stainless Steel, Electroless Nickel Plated Brass

**Cable Gland Selection Table**

Refer to illustration at the top of the page

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*Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444
**When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

www.cmp-products.com

2017 full product catalogue DESKTOP WORKING FILE.indd 136
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For MC, MC-HL, Interlocked & Teck Armored Cables

- RapidEx liquid pour sealing system
- Enhances reliability, reduces risk
- Reduces man hours
- Reduces cost
- Simplified two part design
- Compact slim profile
- Independent sealing & armor clamping
- Simple, sequential installation process
- 360° grounding spring (non-magnetic)
- Disconnectable, union design feature
- -76˚F to 185˚F / -60°C to 85°C
- Globally marked, cCSAus, IECEx & ATEX
- Classic thread design
- IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
- Copper Free (<0.4%) Aluminum, Stainless Steel, Electroless Nickel Plated Brass
- Shrouded
- RapidEx Liquid Resin, Cable Outer Jacket
- Complete Armor Clamping
- Corrugated & Interlocked Metal Clad Armor (MC) or TECK90, Continuously Welded Metal Clad Armor (MCCL), ACC-HL, ACWCU90-HL, RC90-HL
- Non-Hardened, Stainless Steel, Electroless Nickel Plated Brass
- IP66 / NEMA 4X
- ATEX Certificate
- IECEx Certificate
- Compliance Standards
- Code of Protection
- Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da
- Marine Approvals
- 03866
- EAC Certificate
- Compliance Standards
- Code of Protection
- cCSA Code of Protection
- Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da
- Marine Approvals
- 03866
- EAC Certificate
- Compliance Standards
- Code of Protection
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- Compliance Standards
- Code of Protection
- Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da
- Marine Approvals
- 03866
- EAC Certificate

** When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

Supplied in pack with RapidEx resin

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<th>Entry Thread</th>
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<th>Cable Diameter &quot;B&quot;</th>
<th>Max Over Conduit &quot;C&quot;</th>
<th>Across Flat Flats &quot;D&quot;</th>
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<th>Nominal Assembly Length &quot;F&quot;</th>
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**Order Code Example: TMC2X-050A075 - “TMC2X” (Gland Type) - “050” (½" NPT Thread) - “A” (Material Aluminum) - “075” (Max Cable Diameter 0.75”)
## Cable Gland Selection Table

Refer to illustration at the top of the page

### Cable Gland Selection Table

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A2F Globally Approved, Hazardous (Classified) Location Cable Gland

For all types of Unarmored & Braided Cables

- Aluminum, nickel plated brass or stainless steel design
- Optional thread sizes
- Displacement type flameproof seal
- Deluge protected
- -76˚F to 230˚F
- Globally marked, CSA, IECEx & ATEX
- As standard in nickel plated brass with NPT thread form

Cable Gland Selection Table

Refer to illustration at the top of the page.

--- | --- | --- | --- | --- | --- | --- | --- | ---
20S16 | ½” | ¾” | M20 | 0.78 | 0.13 | 0.34 | 0.95 | 1.04 | 1.04 | 20S16 A2F 1RA531 PVC05 2.30
20S | ½” | ¾” | M20 | 0.78 | 0.24 | 0.46 | 0.95 | 1.04 | 1.00 | 20S A2F 1RA531 PVC05 2.02
20 | ½” | ¾” | M20 | 0.78 | 0.26 | 0.55 | 1.06 | 1.17 | 1.06 | 20 A2F 1RA531 PVC05 2.04
25 | ¾” | 1” | M25 | 0.80 | 0.44 | 0.79 | 1.42 | 1.56 | 1.40 | 25 A2F 1RA532 PVC10 3.66
32 | 1” | 1 ¼” | M32 | 0.98 | 0.67 | 1.04 | 1.61 | 1.78 | 1.35 | 32 A2F 1RA533 PVC10 4.45
40 | 1 ¼” | 1 ½” | M40 | 1.01 | 0.93 | 1.27 | 1.97 | 2.17 | 1.37 | 40 A2F 1RA534 PVC10 6.64
50S | 1 ½” | 2” | M50 | 1.03 | 1.22 | 1.50 | 2.17 | 2.38 | 1.34 | 50S A2F 1RA535 PVC10 8.12
50 | 2” | 2 ½” | M50 | 1.06 | 1.40 | 1.73 | 2.56 | 2.82 | 1.52 | 50 A2F 1RA536 PVC10 15.26
63S | 2” | 2 ½” | M63 | 1.06 | 1.63 | 1.97 | 2.76 | 3.03 | 1.42 | 63S A2F 1RA537 PVC10 24.64
63 | 2 ½” | 3” | M63 | 1.06 | 1.96 | 2.29 | 3.15 | 3.47 | 1.41 | 63 A2F 1RA538 PVC10 25.50
75S | 3” | 3 ½” | M75 | 1.07 | 2.13 | 2.44 | 3.15 | 3.47 | 1.46 | 75S A2F 1RA539 PVC10 38.00
75 | 3 ½” | 4” | M75 | 1.07 | 2.41 | 2.67 | 3.94 | 4.33 | 1.58 | 75 A2F 1RA540 PVC10 44.56
100 | 3 ½” | 4” | M100 | 1.09 | 2.99 | 3.58 | 4.85 | 5.34 | 2.19 | 100 A2F 1RA541 PVC13 109.00
115 | 4” | 5” | M115 | 1.13 | 3.39 | 3.85 | 5.25 | 5.78 | 2.57 | 115 A2F 1RA542 PVC13 132.50
130 | 5” | | M130 | 1.14 | 3.82 | 4.52 | 6.00 | 6.60 | 2.91 | 130 A2F 1RA543 PVC13 138.91

* For material options and the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass ‘5’; 316 Grade Stainless Steel ‘4’; Copper Free Aluminum ‘1’

** For NPT options add the following digits to the material suffix; ½” = 31; ¾” = 32; 1” = 33; 1 ¼” = 34; 1 ½” = 35; 2” = 36; 2 ½” = 37; 3” = 38; 3 ½” = 39; 4” = 310 (Brass requires prefix ‘0’)

Examples: 32A2F1RA534 = Nickel Plated Brass 1¼” NPT, 50SA2F1RA035 = Brass 1½” NPT, 25A2F1RA432 = Stainless Steel ¾” NPT, 20A2F1RA5 = Nickel Plated Brass M20

Dimensions are displayed in inches unless otherwise stated
PXSS2K Globally Approved, Hazardous
(Classified) Location Barrier Cable Gland

For all types of Unarmored Cables

- Direct & remote installation
- Superior levels of cable retention
- Displacement type environmental seal
- Compound barrier type flameproof seal
- Deluge protected
- Disconnectable, union feature design
- Deluge protected
- As standard in nickel plated brass with NPT thread form

Cable Gland Selection Table
Refer to illustration at the top of the page

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Available Entry Threads &quot;C&quot; (Alternative Metric Thread Lengths Available)</th>
<th>Number of Cores</th>
<th>Diameter Over Conductors &quot;A&quot;</th>
<th>Cable Bedding Diameter &quot;G&quot;</th>
<th>Overall Cable Diameter &quot;B&quot;</th>
<th>Across Flats &quot;D&quot;</th>
<th>Across Corners &quot;D&quot;</th>
<th>Protrusion &quot;F&quot;</th>
<th>Combined Ordering Reference (&quot;Nickel Plated Brass NPT&quot;)</th>
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<td>Metric (Option)</td>
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**Note:** For material options please change the suffix in the Ordering Reference - "Nickel Plated Brass" to the suffix required. Nickel Plated Brass: "N" or standard; 316 Grade Stainless Steel: "S"; Copper Free Aluminum: "Af".

**IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request**
PXSS2KREX Globally Approved, Hazardous (Classified) Location Barrier Cable Gland

For all types of Unarmored Cables

- RapidEx liquid pour sealing system
- Enhances reliability, reduces risk
- Reduces man hours
- Reduces cost
- Direct & remote installation
- Superior levels of cable retention
- Displacement type environmental seal
- Deluge protected
- Disconnectable, union feature design
- Deluge protected
- Globally marked, cCSAus, IECEx & ATEX
- -76˚F to 185˚F / -60°C to 85°C
- Disconnectable, union feature design
- Deluge protected
- Direct & remote installation
- RapidEx liquid pour sealing system

Cable Gland Selection Table

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<tr>
<th>Cable Gland</th>
<th>Size</th>
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Refer to illustration at the top of the page

Dimensions are displayed in inches unless otherwise stated

www.cmp-products.com
T3CDS

Triton CDS (T3CDS) Globally Approved, Hazardous (Classified) Location Cable Gland

For all types of Armored Cables

- Fully sequential, three step installation procedure
- Reduces installation times, cost & risk
- Direct & remote installation
- Unique compensating displacement seal system (CDS)
- Designed to reduce the effects of Coldflow
- Controlled outer ‘load retention’ seal
- Unique OSG prevents overturning
- -76˚F to 266˚F (standard), -4˚F to 392˚F (ThermEx option)
- Always marked, UL, cCSAus, IECEx & ATEX
- As standard in nickel plated brass with NPT thread form

For all types of Armored Cables

- As standard in nickel plated brass with NPT thread form
- As standard in copper free aluminum with NPT thread form
- As standard in stainless steel with NPT thread form
- As standard in copper free aluminum with NPT thread form
- As standard in copper free aluminum with NPT thread form

Table: Cable Gland Selection Table

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Available Entry Threads “C”</th>
<th>Minimum Thread Length “E”</th>
<th>Cable Bedding Diameter “A”</th>
<th>Overall Cable Diameter “B”</th>
<th>Armored Range</th>
<th>Combined Ordering Reference (Nickel Plated Brass NPT)</th>
<th>Cable Gland Weight (Ozs)</th>
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<td>Metric (Option)</td>
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<td>0.80 0.44 0.78 0.72 1.03</td>
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<td>⅛&quot;</td>
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<td>3.57 32 T3CDS 1RA533</td>
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<td>⅛&quot;</td>
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<td>255</td>
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<td>¼&quot;</td>
<td>M50</td>
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<td>½&quot;</td>
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<td>M130</td>
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</tbody>
</table>

For NPT options please change the following digits after the material suffix: II= 32, III= 33, IV= 34, V= 35, VI= 36, VII= 37, VIII= 38, IX= 39, X= 310 (Brass requires prefix “0”).

Notes on pages A3, A4 in additional information tables.

Design Specification
- Impact = Level 8, Cable Anchorage = Class D
- Classification: Class I, Zone 1, ATEX IIC Gb, Ex nR, IIC Mb

For further information or technical specifications visit: www.cmp-products.com

www.cmp-products.com
C2KX Globally Approved, Hazardous (Classified) Location Cable Gland

For all types of Braided cables

- Metal-to-metal armor clamping
- Direct & remote installation
- Integral protected debris seal
- Controlled outside ‘load retention’ seal
- Unique OSTG prevents overtightening
- Controlled outer ‘load retention’ seal
- Integral protected deluge seal
- Metal-to-metal armor clamping

For all types of Braided cables

C2KX Globally Approved, Hazardous (Classified) Location Cable Gland

Cable Gland Selection Table
Refer to illustration at the top of the page
**PX2KX Globally Approved, Hazardous (Classified) Location Barrier Cable Gland**

For all types of Braided & Tape Armored Cables

- Metal-to-metal armor clamping
- Direct & remote installation
- Integral protected deluge seal
- Compound barrier type flameproof seal
- Controlled outer ‘load retention’ seal
- Unique OSTG prevents overtightening
- Integral protected deluge seal
- Disconnectable, union feature design
- -76˚F to 185˚F
- As standard in nickel plated brass with NPT thread form
- Superior EMC performance
- As standard in nickel plated brass with NPT thread form

**Cable Gland Selection Table**

<table>
<thead>
<tr>
<th>Gland</th>
<th>Cable</th>
<th>20S16 ½” ¾” M20 0.78 11 0.46 0.46 0.24 0.52 0.01 0.04 1.20 1.32 2.44</th>
<th>20S16 PX2KX 1RA531 PVC06 8.47</th>
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<tr>
<td>-</td>
<td>As standard in nickel plated brass with NPT thread form</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Superior EMC performance</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Globally marked, UL, cCSAus, IECEx &amp; ATEX</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>-76˚F to 185˚F</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Disconnectable, union feature design</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Integral protected deluge seal</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Unique OSTG prevents overtightening</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Integral protected deluge seal</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Controlled outer ‘load retention’ seal</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Compound barrier type flameproof seal</td>
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<td></td>
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<tr>
<td></td>
<td>Integral protected deluge seal</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Disconnectable, union feature design</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444
** When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.
*** Where the cable is permitted by code (NEC and/or CEC)
**** IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request

**Technical Data**

- **Mechanical Classifications**:
  - Impact = Level 8, Cable Anchorage = Class B
- **Enclosure Protection**:
  - IEC/IP 66/7/8
- **Electrical Classification**:
  - Category B (Category A refers with braided, tape or pliable wire armor cables)
- **ATEX Certificate**:
  - TUV 12.2073X
  - IM2 Ex d I Mb, Ex e I Mb
- **IECEx Certificate**:
  - EAC Certificate
  - CCEx Certificate
  - INMETRO Approval
  - TÜV 122073X
  - TÜV 122073X
- **IECEx SIR 13.0027X**
  - IM2 Ex d I Mb, Ex e I Mb
  - IM2 Ex d I Mb, Ex e I Mb
  - IM2 Ex d I Mb, Ex e I Mb

**Cable Gland Material**

Electroless Nickel Plated Brass, Copper free (c-PSA-Al) Stainless Steel

**Seal Material**

CMP SOLO LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound

**Cable Type**

Braided Armored Shipboard cable and all IEC Braided Cables

**Armour Clamping**

Detachable Compound Tube / Cone & AnyWay Universal Clamping Ring

**Sealing Technique**

Unique CMP ‘LRS’ Outer Seal / Replaceable Seal

**Sealing Area(s)**

Inner Compound Barrier & Outer Sheath

Dimensions in inches unless otherwise stated

**Note**: For material options please change the suffix in the Ordering Reference; Brass (no suffix required), Nickel Plated Brass “5” (as standard), 316 Grade Stainless Steel “4”, Copper Free Aluminum “1”

**IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request**

- **Dimensions are displayed in inches unless otherwise stated**

---

**Table References**

- **Table 1**: Gland Selection Table
- **Table 2**: Ordering Reference (Nickel Plated Brass NPT)
- **Table 3**: Combined Ordering Reference (Nickel Plated Brass NPT)

---

**Cable Gland Selection Table**

Refer to illustration at the top of the page.
**PX2KXREX**

**globally approved, hazardous (classified) location barrier cable gland**

For all types of Braided & Tape Armored Cables

- RapidEx liquid proofing system
- Enhances reliability, reduces risk
- Reduces man hours
- Reduces cost
- Metal-to-metal armor clamping
- Remote & direct installation
- Integral protected deluge seal
- Disconnectable, unobtrusive feature
- Controlled outer “load retention” seal
- Unique OSG prevents overtightening

**For all types of Braided & Tape Armored Cables**

2017 FULL PRODUCT CATALOG DESKTOP WORKING FILE.indd   145

**Technical Details**

**Design Specification**

- IS 6512/Part 1:1989, IEC 62444, EN 62444

**Mechanical Classifications**

- Impact = Level 8, Cable Anchorage = Class D

**Enclosure Protection**

- IK10 to IEC 62262 (20 joules) Brass & Stainless steel only

**Electrical Classifications**

- Category B (Category A when used with braided, tape or pliable armor cables)

**ATEX Certificate**

- SR 32.ATEX1072X, SR 32.ATEX14070X

**Code of Protection**

- IEC 60079-0, IEC 60079-15

**IECEx Certificate**

- EEXIr SR 13.0027X

**Compliance Standards**

- EN 60079-0, IEC 60079-15

**CSAus Code of Protection (**)**

- Class I, Div 1, 2 Groups A, B, C and D; Class III, Div 1, 2 Groups E, F and G; Class III; Div 1, 2; Type X4; Oil Resistant II

**cCSAus Code of Protection (**)**

- Class I, Zone 1 and 2; Class II, Zone 1 and 2; Class III; Div 1, 2 Groups E, F and G; Class III; Div 1, 2; Type X4; Oil Resistant II

**Enclosure Protection**

- En Ex II 1G, Ex nR II 1G, Ex ta IIIC Da

**Compliance Standards**

- CAN/CSA-C22.2 No. 135, 139, 208.1, 208.5, 214.1, CAN/CSA-BS6629-70, 139, CAN/CSA-BS661411 Part 11, ATEX, IEC 61496-6, 5 & 6, AGMA 50 E11, AGMA 58, BS 2225 B4, U60079

**SIT Certificate**

- TC NR-C-GB.T60.S80.0013B

**CCOE / PESO (India) Certificate**

- PT3068B

**NEPSI Certificate**

- GYJ13.1142X / GYJ13.1262X

**IMETRO Approval**

- TVU-12.07XK

**RETIE Approval Number**

- 1866

**Mechanical Approvals**

- LRS: 0100173 (3S); 200: 13-E91448; ABS: 14-L02344014-4-PDA

**Ingress Protection Rating**

- IP65, IP67 & IP68**

**Dust Protection Compliance**

- DT01: 91

**NEMA Rating**

- NEMA 4X

**Cable Gland Material**

- Electroless Nickel Plated Brass, Copper Free (<0.4%) Aluminum, Stainless Steel

**Seal Material**

- CMP SOLF LF Halogen-free Fireproof Ethermelt / RapidEx Resin Barrier

**Cable Type**

- Braided Armored Shipboard cable and all IEC Braid Cables**

**Armor Clamping**

- Detachable Resin Tube / Cone & AnyWay Universal Clamping Ring

**Sealing Technique**

- Unique CMP ‘LRS’ Outer Seal (Load Retention Seal)

**Sealing Area(****)**

- Inner RapidEx Barrier Seal & Outer Sheath

**Dimensions are displayed in inches unless otherwise stated**

[www.cmp-products.com](http://www.cmp-products.com)
PX2KW Globally Approved, Hazardous (Classified) Location Barrier Cable Gland

For all types of Single / Served Wire Armored Cables

- Metal-to-metal armor clamping
- Direct & remote installation
- Integral protected deluge seal
- Unique OSTG prevents overtightening
- Controlled outer "load retention" seal
- Compound barrier type flameproof seal
- Disconnectable, union feature design
- Superior EMC performance
- As standard in nickel plated brass with NPT thread form

Cable Gland Selection Table
Refer to illustration at the top of the page.

**Note:** Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444

**When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

**Where the cable is permitted by code (NEC and/or CEC)**
PX2KWREX Globally Approved, Hazardous (Classified) Location Barrier Cable Gland

For all types of Single / Served Wire Armored Cables

- Rapidex liquid pour sealing system
- Enhances reliability, reduces risk
- Reduces man hours
- Reduces cost
- Metal-to-metal armor clamping
- Direct & remote installation
- Integral protected deluge seal
- Disconnectable, union feature design
- Metal-to-metal armor clamping

For all types of Single / Served Wire Armored Cables

Supplied in pack with RapidEx resin

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<tbody>
<tr>
<td>20S</td>
<td>½” x ¾”</td>
<td>38</td>
<td>1.08</td>
<td>0.49</td>
<td>0.49</td>
<td>0.25</td>
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<td>0.49</td>
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<td>2.48</td>
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<tr>
<td>32S</td>
<td>1¼” x 1½”</td>
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<td>2.48</td>
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<td>2.48</td>
<td>PX2KWREX1EX531 PVC09 8.11</td>
</tr>
</tbody>
</table>

Cable Gland Selection Table

Refer to illustration at the top of the page.

Dimensions are displayed in inches unless otherwise stated.

www.cmp-products.com
Thread Conversions & Accessories

The CMP range of Thread Conversion Adaptors, Reducers and associated products are available for use in Industrial, Marine and Explosive Atmosphere applications, and are particularly suited to construction projects where a high volume of cables of all types and sizes are being installed.

When the Gland fits the cable but its connecting thread differs from that of the equipment the best solution may be to use a CMP thread conversion adaptor, especially when schedules are critical and time is of the essence.

CMP thread conversion adaptors and reducers offer the flexibility of allowing the job to progress by using a standard product to save time and ultimate cost compared with modifying hole sizes in equipment.

In addition to Thread Conversion Adaptors and Reducers, CMP Products also provides, Unions, Stopper Plugs, Breather / Drain Plugs and Insulated Adaptors. All products in this range are available in a variety of materials, both metallic and non-metallic, and can be supplied in a combination of different thread forms and sizes including Metric, PG, NPT, BSP etc.

All products comply with the latest IEC standards and are offered with certification from a host of internationally recognised bodies.
When selecting and installing certified electrical equipment and components in potentially Explosive Atmospheres, it is the user’s responsibility to ensure that the local industry codes of practice are observed and followed, for example IEC 60079-14.

Below Example:
737DTR3T25
737 Adaptor - Globally Certified - ½” (M) x ¾” (F) - Nickel Plated Brass

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<tr>
<td>E</td>
<td>Group II Increased Safety Ex e / AEx e</td>
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<tr>
<td>G</td>
<td>General Purpose</td>
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<tr>
<td>M</td>
<td>Group I Mining</td>
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### Table B

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<td>Type A - Externally secured non-tamper-proof Ex d Stopper Plug or Type A - Insulated Adaptor*</td>
</tr>
<tr>
<td>B</td>
<td>Type B - Internally secured tamper-proof Ex d Stopper Plug or Type B - Insulated Adaptor*</td>
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<tr>
<td>R**</td>
<td>Optional equipment interface ‘O’ ring seal</td>
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### Table C

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<td>I</td>
<td>Imperial (E.T.)</td>
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### Table D

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<td>16 ½&quot; ½&quot; 9 ½&quot; 5/8&quot; ½&quot;</td>
</tr>
<tr>
<td>2</td>
<td>20 ½&quot; ½&quot; 11 ¾&quot; ¾&quot; ½&quot;</td>
</tr>
<tr>
<td>3</td>
<td>25 1&quot; 1&quot; 13.5 1&quot; 1&quot; 1&quot;</td>
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<td>4</td>
<td>32 1½&quot; 1½&quot; 16 1½&quot; 1½&quot; 1½&quot; 1½&quot;</td>
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<td>5</td>
<td>40 1¾&quot; 1¾&quot; 21 1¾&quot; 1¾&quot; 1¾&quot;</td>
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<td>8</td>
<td>75 3&quot; 3&quot; 42 3&quot; 3&quot; 3&quot;</td>
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<td>90 3½&quot; 3½&quot; 48 3½&quot; 3½&quot; 3½&quot;</td>
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<tr>
<td>10</td>
<td>100 4&quot; 4&quot; 4 4&quot; 4&quot;</td>
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Other thread sizes available upon request.

### Table E

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<td>4</td>
<td>Stainless Steel 316</td>
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<td>5</td>
<td>Nickel Plated Brass</td>
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TECHNICAL DATA

Design Specification
BS 6121:Part 1:1989, IEC 62444, EN 62444

Enclosure Protection
IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only

ATEX Certificate
SIRA13ATEX1265X

Code of Protection
II 2G Ex d IIC Gb, Ex e IIC Gb, II 1D Ex ta IIIC Da
(II 2G Ex e IIC Gb, II 1D only on Nylon version)

Compliance Standards
EN 60079-0,1,7,31

IECEx Certificate
IECEx SIR13.0094X

Code of Protection
Ex d I Mb, Ex e I Mb, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da
(Ex e IIC Gb, Ex ta IIIC Da only on nylon version)

Compliance Standards
IEC 60079-0,1,7,31

cCSAus Certificate
1055233

Code of Protection
Class I, Groups A, B, C and D; IP66, 67, 68; Enclosure Type 4X; Class II groups E, F and G; Class I, Zone 1, AEx de I; (Not available in Nylon)

Compliance Standards
CE2.2 No.0, 0.5, 30, 94, CAN/CSA E60079-0,1, 7, CAN-CSA E612411, UL50 Edition 11, UL1203 Edition 4, UL 60079-0,1,7

UL Certificate
E214221 (Reducers with NPT or Metric Threads only)

Code of Protection
Class I Groups A,B,C,D; Class II Groups E,F,G; Class III

Compliance Standards
UL 1203

EAC Certificate
TC RU C-G2B.005.80018

UkrSEPRO
UA.TR.047.C.0644-15

KCS Certificate
14-GA480-0248X

CCOE / PESO (India) Certificate
P933688

NEPSCI Certificate
GV113.1142X

Compliance Standards
GB38136.1, 2, 3

INMETRO Approval
TUV 12.1332X

ETIE Approval
03866

Marine Approvals
LRS: 01.06173 (E1), ABS: 01DL234401C2PQA, BV: 431854A1 BV

Continuous Operating Temperature
-60°C to +200°C (Metallic), -20°C to +60°C (Nylon)

Ingress Protection Rating**
IP66, IP67 & IP68***

Available Materials
Electroless Nickel Plated Brass, Brass, Nylon, Stainless Steel, Aluminium

** When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.
*** IP level tested to a minimum depth of 30 metres for 12 hours; alternate depths / durations can be provided upon request.

HOW TO ORDER

e.g. CMP 737-D-M-3-4 = Dual Certified Ex d & Ex e – M20 (M) x M25 (F) - Stainless Steel

Please refer to Ordering Guide Tables for reference definitions, denoting material variants. When ordering please notify CMP Products in your order if alternative approval markings are required.

When ordering Adaptors & Reducers always state the Male Thread size first.

Other Thread Variations are available on request. For further information on ordering please refer to page 150.

It should be noted that when using CMP Type 737 Thread Conversion Adaptors and Reducers in association with Explosion Protected electrical equipment the following basic rules must be observed in line with good engineering practice:

1. Direct entry Ex d applications, only adaptor or reducer should be used per cable entry.

2. The female connection thread of a Thread Conversion Adaptor shall “step” not more than two “size” up in the case of a thread gender change. Example; M20 (M) to M32 (F) or M20 (M) to 1” NPT (F) is permitted. Whereas M20 (M) to M40 (F) or M20 (M) to 1½” NPT (F) is not permitted.

www.cmp-products.com
### TABLE A - FEMALE THREAD SIZE

<table>
<thead>
<tr>
<th>METRIC</th>
<th>NPT</th>
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<tbody>
<tr>
<td>M16</td>
<td>A01 A04 A08</td>
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<tr>
<td>M20</td>
<td>A05 A12</td>
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<tr>
<td>M25</td>
<td>A09 A14 A18</td>
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<tr>
<td>M32</td>
<td>A06 A09 A17 A24</td>
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<tr>
<td>M40</td>
<td>A08 A08 A20 A29 A33</td>
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<tr>
<td>M50</td>
<td>A09 A09 A16 A18 A33</td>
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<td>M63</td>
<td>A12 A17 A19 A24 A33</td>
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<td>M75</td>
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<tr>
<td>M90</td>
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<td>M100</td>
<td>A12 A12 A37 A44 A53</td>
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#### TABLE B - REDUCERS

<table>
<thead>
<tr>
<th>Table A Ref.</th>
<th>Across Flats 'A'</th>
<th>Across Corners 'B'</th>
<th>Minimum Bore 'C'</th>
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<tbody>
<tr>
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<td>38.0</td>
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<tr>
<td>R09</td>
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<td>26.0</td>
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#### TABLE B - ADAPTORS

<table>
<thead>
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<th>Across Corners 'B'</th>
<th>Minimum Bore 'C'</th>
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<td>A09</td>
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<td>26.0</td>
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Additional sizes available upon request
Minimum reducer bore determined by female thread
Dimensions displayed in millimetres
### Sizing Table

<table>
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<th>Male Thread</th>
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<td>M25</td>
<td>PG11</td>
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<td>PG13.5</td>
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<td>M40</td>
<td>PG16</td>
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<tr>
<td></td>
<td>M50</td>
<td>PG18</td>
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<td></td>
<td>M75</td>
<td>PG22</td>
</tr>
<tr>
<td></td>
<td>5/8&quot; ET</td>
<td>PG24</td>
</tr>
<tr>
<td></td>
<td>¾&quot; ET</td>
<td>PG26</td>
</tr>
<tr>
<td></td>
<td>1&quot; ET</td>
<td>PG28</td>
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<tr>
<td></td>
<td>1 ¼&quot; ET</td>
<td>PG30</td>
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<tr>
<td></td>
<td>1 ½&quot; ET</td>
<td>PG32</td>
</tr>
<tr>
<td></td>
<td>2&quot; ET</td>
<td>PG34</td>
</tr>
<tr>
<td></td>
<td>2 ½&quot; ET</td>
<td>PG36</td>
</tr>
<tr>
<td></td>
<td>3&quot; ET</td>
<td>PG38</td>
</tr>
<tr>
<td></td>
<td>5/8&quot; NPT / NPS (M)</td>
<td>PG40</td>
</tr>
<tr>
<td></td>
<td>¾&quot; NPT / NPS (M)</td>
<td>PG42</td>
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<tr>
<td></td>
<td>1&quot; NPT / NPS (M)</td>
<td>PG44</td>
</tr>
<tr>
<td></td>
<td>1 ¼&quot; NPT / NPS (M)</td>
<td>PG46</td>
</tr>
<tr>
<td></td>
<td>1 ½&quot; NPT / NPS (M)</td>
<td>PG48</td>
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<tr>
<td></td>
<td>2&quot; NPT / NPS (M)</td>
<td>PG50</td>
</tr>
<tr>
<td></td>
<td>2 ½&quot; NPT / NPS (M)</td>
<td>PG52</td>
</tr>
<tr>
<td></td>
<td>3&quot; NPT / NPS (M)</td>
<td>PG54</td>
</tr>
<tr>
<td></td>
<td>3 ½&quot; NPT / NPS (M)</td>
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<td>4&quot; NPT / NPS (M)</td>
<td>PG58</td>
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<tr>
<td></td>
<td>½&quot; BSPP</td>
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Additional sizes available upon request.
For specific certification information please contact CMP Products.
**Product Selection Table**

<table>
<thead>
<tr>
<th>Ordering Reference</th>
<th>Male Thread Size &quot;A&quot;</th>
<th>Minimum Thread Length &quot;E&quot;</th>
<th>Bore Diameter &quot;C&quot;</th>
<th>Female Thread Size</th>
<th>Protrusion Length &quot;D&quot;</th>
<th>Protrusion Length &quot;F&quot;</th>
<th>Width &quot;B&quot;</th>
<th>Installation Torque (Nm)</th>
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</thead>
<tbody>
<tr>
<td>787DMA2M2</td>
<td>M20 X 1.5</td>
<td>15.3</td>
<td>14.0</td>
<td>M20 X 1.5</td>
<td>29.6</td>
<td>41.0</td>
<td>24.0</td>
<td>7</td>
</tr>
<tr>
<td>787DMA3M3</td>
<td>M25 X 1.5</td>
<td>15.3</td>
<td>18.6</td>
<td>M25 X 1.5</td>
<td>36.3</td>
<td>49.3</td>
<td>29.0</td>
<td>10</td>
</tr>
<tr>
<td>787DMA4M4</td>
<td>M32 X 1.5</td>
<td>15.3</td>
<td>25.6</td>
<td>M32 X 1.5</td>
<td>45.2</td>
<td>56.3</td>
<td>36.0</td>
<td>15</td>
</tr>
<tr>
<td>787DMA5M5</td>
<td>M40 X 1.5</td>
<td>15.3</td>
<td>33.6</td>
<td>M40 X 1.5</td>
<td>54.2</td>
<td>64.8</td>
<td>44.0</td>
<td>25</td>
</tr>
<tr>
<td>787DMA6M6</td>
<td>M50 X 1.5</td>
<td>15.3</td>
<td>41.0</td>
<td>M50 X 1.5</td>
<td>68.3</td>
<td>74.0</td>
<td>54.0</td>
<td>30</td>
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<td>15.3</td>
<td>50.0</td>
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<td>787DMA8M8</td>
<td>M75 X 1.5</td>
<td>15.3</td>
<td>61.3</td>
<td>M75 X 1.5</td>
<td>97.0</td>
<td>111.3</td>
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<tr>
<td>787DMA9M9</td>
<td>M90 X 2.0</td>
<td>15.3</td>
<td>80.0</td>
<td>M90 X 2.0</td>
<td>100.0</td>
<td>131.3</td>
<td>110.0</td>
<td>45</td>
</tr>
<tr>
<td>787DMA10M10</td>
<td>M100 X 2.0</td>
<td>15.3</td>
<td>91.0</td>
<td>M100 X 2.0</td>
<td>110.0</td>
<td>141.3</td>
<td>115.0</td>
<td>45</td>
</tr>
</tbody>
</table>

All dimensions shown are in millimetres unless otherwise stated.

**787 90° Adaptor, Globally Approved, Explosive Atmosphere Cable / Conduit Accessory**

- Protects cables from excessive bending stress
- General purpose / industrial version available
- Supplied with male or female threads
- Can be supplied with thread conversion
- Equipment interface ‘O’ ring seal available
- -60°C to +200°C
- Globally marked, IECEx, ATEX & cCSAus
- Can be used with 737 (not Ex d direct entry applications)

**Technical Data**

- **Enclosure Protection**: IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only
- **ATEX Certificate**: SIRA14ATEX1033U
- **Code of Protection**: Ex d I IC Gb, Ex e I IC Gb, II 1 D Ex ta I IC Da
- **Compliance Standards**: EN 60079-0,1,7,31
- **IECEx Certificate**: IECEx S14.0014U
- **Code of Protection**: Ex d I Mx Ex e I Mx IEx d I C Gb / Ex e I C Gb / Ex a I C Da
- **Compliance Standards**: IEC 60079-0,1,7,31
- **cCSAus Certificate**: 1055233
- **Code of Protection**: Class I, Groups A, B, C and D; IP66, 67, 68; Enclosure Type 4K; Ex de R, Class I, Zone 1, AEx de II;
- **Compliance Standards**: EN 60079-0,1,7,31
- **EAC Certificate**: TC RU C-GB 05.B.00138
- **NEPSI Certificate**: GY13.114X
- **IMETRO Approval**: TÜV 12.135X
- **RETIE Approval**: 03866
- **Marine Approvals**: LRS: D0100173 (E1), ABS D112834401C0PDA, BV-43180/A1
- **Ingress Protection Rating**: IP66, IP67 & IP68
- **Available Materials**: Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel

**How to Order**

- e.g. 787 - D - M - 3 - M - 3 - 5
  = Dual Certified Ex d & Ex e - M25 (M) x M25 (F) - Nickel Plated Brass

Other Thread Variations are available on request. For further information on ordering please refer to page 150.

**787 Product Details**

- **90° Adaptor, Globally Approved, Explosive Atmosphere Cable / Conduit Accessory**
- Protects cables from excessive bending stress
- General purpose / industrial version available
- Supplied with male or female threads
- Can be supplied with thread conversion
- Equipment interface ‘O’ ring seal available
- -60°C to +200°C
- Globally marked, IECEx, ATEX & cCSAus
- Can be used with 737 (not Ex d direct entry applications)

**Size 63 / 2” and Above**

- Available Materials:
  - Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel
### 797 Male - Male or Female - Female Adaptor, Globally Approved, Explosive Atmosphere Cable / Conduit Accessory

- Designed to convert existing threads
- General purpose / industrial version available
- Supplied with male or female threads
- Can be supplied with thread conversion
- Equipment interface ‘O’ ring seal available on male-male
- -60°C to +200°C
- Globally marked, IECEx, ATEX & cCSAus
- Can be used with 737 (not Ex d direct entry applications)

### HOW TO ORDER

**e.g. 797 - D - M - 3 - F - M - 3 - F - 5**

= Dual Certified Ex d & Ex e - M25 (F) x M25 (F) - Nickel Plated Brass

Other Thread Variations are available on request. For further information on ordering please refer to page 150.

### TECHNICAL DATA

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<tr>
<td>Available Materials</td>
<td>Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel</td>
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</tbody>
</table>

**When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.**

*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request.

### Available Materials

- Brass
- Electroless Nickel Plated Brass
- Aluminium
- Stainless Steel

**Other Thread Variations are available on request. For further information on ordering please refer to page 150.**

---

### Product Selection Table

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<thead>
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<td>M16 X 1.5</td>
<td>15.0</td>
<td>M16 X 1.5</td>
<td>24.0</td>
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<td>M63 X 1.5</td>
<td>70.1</td>
<td>77.1</td>
<td>55.6</td>
<td>20.0</td>
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<td>45</td>
</tr>
<tr>
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<td>M75 X 1.5</td>
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<td>M75 X 1.5</td>
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<td>65.6</td>
<td>21.0</td>
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<tr>
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<td>100.0</td>
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<td>82.0</td>
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<tr>
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<td>118.8</td>
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<td>91.1</td>
<td>23.0</td>
<td>53.0</td>
<td>45</td>
</tr>
</tbody>
</table>

All dimensions shown in millimetres unless otherwise stated.
777 Insulated Adaptor, Globally Approved, Explosive Atmosphere Cable / Conduit Accessory

- Isolates metallic Cable Glands from equipment
- Essential in areas of high electromagnetic noise
- Particularly relevant in power plants
- General purpose / industrial version available
- Can be supplied with thread conversion
- -60°C to +130°C
- Globally marked, IECEx, ATEX & cCSAus

**TECHNICAL DATA**

**Design Specification**
BS 6121: Part 1:1989, IEC 62444, EN 62444

**Enclosure Protection**
IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only

**ATEX Certificate**
SIRA10ATEX1057U

**Code of Protection**
II 2 GD Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da

**Compliance Standards**
EN 60079-0,1,7,31

**IECEx Certificate**
IECEx SIR10.0027U

**Code of Protection**
Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da

**Compliance Standards**
IEC 60079-0,1,7,31

**cCSAus Certificate**
1055233

**Code of Protection**
Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da

**Compliance Standards**
EN 60079-0,1,7,31

**EAC Certificate**
TC RU C-GS B00138

**UkrSEPRO**
UA.TR.047.C.0644-15

**CCOE / PESO (India) Certificate**
P333688

**INMETRO Approval**
TÜV 12.1331U

**Rette Approval**
03866

**Marine Approvals**
LRS: 01/00172 (E1), ABS: 01LD234401C/2POA,

**Ingress Protection Rating**
IP66, IP67 & IP68***

**Available Materials**
Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel

**HOW TO ORDER**

*777 - D - A - M - 3 - M - 3 - 5*

= Dual Certified Ex d & Ex e - Type A - M25 (M) x M25 (F) - Nickel Plated Brass

Other Thread Variations are available on request. For further information on ordering please refer to page 150.

For Type B insulated adaptors, please substitute the Letter A with the Letter B in the table below. Please note that the Type B version of the 777 insulated adaptors are only certified Ex d when they are installed in conjunction with a corresponding CMP certified cable gland.

**Product Selection Table**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<tbody>
<tr>
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<td>M20 X 1.5</td>
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<td>15.0</td>
<td>M25 X 1.5</td>
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<tr>
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<td>M32 X 1.5</td>
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<td>35.7</td>
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<td>777DAM5M5</td>
<td>M40 X 1.5</td>
<td>15.0</td>
<td>M40 X 1.5</td>
<td>32.1</td>
<td>35.7</td>
<td>70.1</td>
<td>77.1</td>
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<td>M90 X 2.0</td>
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<td>52.7</td>
<td>132.2</td>
<td>135.5</td>
</tr>
</tbody>
</table>

All dimensions shown are in millimetres unless otherwise stated.

www.cmp-products.com
783 Dual Entry Y Adaptor, Internationally Approved, Explosive Atmosphere Cable / Conduit Accessory

- Provides an opportunity for two entries
- As standard one male & two female entries
- Supplied with male or female threads upon request
- All angles 120°
- Protects cables from excessive bending stress
- General purpose / industrial version available
- Can be supplied with thread conversion upon request
- -60°C to +200°C
- Globally marked, IECEx, ATEX & EAC (TC RU)
- Can be used with 737 (not Ex d direct entry applications)

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td>Enclosure Protection</td>
<td>IK10 to IEC 62262 (20 joules) Brass &amp; Stainless Steel Only</td>
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<tr>
<td>ATEX Certificate</td>
<td>SIRA16ATEX1234U</td>
</tr>
<tr>
<td>Code of Protection</td>
<td>II 2G Ex db IIC Gb, Ex eb IIC Gb, II 1D Ex ta IIC Da IM2 Ex db I Mb, Ex eb I Mb</td>
</tr>
<tr>
<td>Compliance Standards</td>
<td>EN 60079-0,1,7,31</td>
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<tr>
<td>IECEx Certificate</td>
<td>IECEx SIR16.0081U</td>
</tr>
<tr>
<td>Code of Protection</td>
<td>Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIC Da Ex db I Mb, Ex eb I Mb</td>
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<tr>
<td>Compliance Standards</td>
<td>IEC 60079-0,1,7,31</td>
</tr>
<tr>
<td>EAC Certificate</td>
<td>TC RU-GB.MЮ62.8.04359</td>
</tr>
<tr>
<td>Ingress Protection Rating**</td>
<td>IP66, IP67 &amp; IP68***</td>
</tr>
<tr>
<td>Available Materials</td>
<td>Brass, Electroless Nickel Plated Brass, Stainless Steel</td>
</tr>
</tbody>
</table>

** When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternate depths / durations can be provided upon request

**HOW TO ORDER**
e.g. 783 - D - M - 2 - M - 2 - F - M - 2 - F - S
= Dual Certified Ex d & Ex e - M20 (M) x M20 (F) x M20 (F) - Nickel Plated Brass

* Any combination of Male (M) / Female (F) threads is available e.g. (M) X (M) X (M), (F) X (F) X (F), (M) X (F) X (M)

Other Thread Variations are available on request. For further information on ordering please refer to page 150.

**Product Selection Table**

<table>
<thead>
<tr>
<th>Ordering Reference</th>
<th>Bore Diameter 'C'</th>
<th>Thread 1 'A' (Entry Thread)</th>
<th>Thread 2 'B'</th>
<th>Thread 3 'B'</th>
<th>Thread Length 'E'</th>
<th>Protrusion Length 'D'</th>
<th>Protrusion Length 'F'</th>
<th>Width</th>
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</thead>
<tbody>
<tr>
<td>783DM2M2M2FM2F</td>
<td>14.7</td>
<td>M20</td>
<td>M20</td>
<td>M20</td>
<td>15.0</td>
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<td>73.0</td>
<td>25 - 27</td>
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<td>783D01MT1MT1FT1F</td>
<td>14.7</td>
<td>½” NPT</td>
<td>½” NPT</td>
<td>½” NPT</td>
<td>19.9</td>
<td>43.0</td>
<td>73.0</td>
<td>25 - 27</td>
</tr>
<tr>
<td>783DM3M2M2FM3F</td>
<td>18.9</td>
<td>M25</td>
<td>M25</td>
<td>M25</td>
<td>15.0</td>
<td>48.0</td>
<td>76.9</td>
<td>30 - 32</td>
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<td>783D02MT2MT2FT2F</td>
<td>18.9</td>
<td>¾” NPT</td>
<td>¾” NPT</td>
<td>¾” NPT</td>
<td>20.2</td>
<td>48.0</td>
<td>76.9</td>
<td>30 - 32</td>
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<td>25.9</td>
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<td>M32</td>
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<td>56.5</td>
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</tr>
<tr>
<td>783D03MT3MT3FT3F</td>
<td>25.9</td>
<td>1” NPT</td>
<td>1” NPT</td>
<td>1” NPT</td>
<td>25.0</td>
<td>56.5</td>
<td>92.5</td>
<td>37 - 39</td>
</tr>
</tbody>
</table>

All dimensions shown are in millimetres unless otherwise stated
**747 Recessed Stopper Plug, Globally Approved, Explosive Atmosphere Cable / Conduit Accessory**

- Provides means of blanking unused cable entries
- Temporary or permanent
- Tamper-proof (Type B) version available
- General purpose / industrial version available
- Nylon Ex e only version available (-20°C to +60°C)
- -60°C to 200°C (metallic versions)
- Globally marked, IECEx, ATEX, cCSAus & UL

**HOW TO ORDER**

e.g. 747 - D - A - M - 3 - 1

= Dual Certified Ex d & Ex e - Type A - M25 - Aluminium

For Tamper Proof Type B Stopper Plugs please substitute the letter A with the letter B in the Ordering Reference list opposite.

Other Thread Variations are available on request. For further information on ordering please refer to page 150.

**TECHNICAL DATA**

- **Enclosure Protection**: IP66, 67, 68, Enclosure Type 4X; Class II Groups E, F, and G; Class III
- **ATEX Certificate**: SIRA13ATEX1265X
- **Code of Protection**: II 2G Ex d IIC Gb, Ex e IIC Gb, II 1D Ex ta IIIC Da
- **Compliance Standards**: EN 60079-0, 1, 7, 31
- **IECEx Certificate**: IECEx 13.0094X
- **Code of Protection**: Ex d I Mb, Ex e I Mb; Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da
- **Compliance Standards**: C22.2 no. 1.0, 5.0, 20-94, CAN/CSA B84079-0, 1, 7, UL150 Edition 11, UL2203 Edition 4, UL 60079-0, 1, 7
- **UL Certificate**: E214221
- **Code of Protection**: Ex d I Mb, Ex e I Mb; Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da
- **Compliance Standards**: UL 1203
- **EAC Certificate**: TCU.RU 01-GB.750.31038
- **UKsPRo**: UA.TR.047.C.0644-15
- **MCS Certificate**: 44-D-0480-5247X
- **CCOE / PESO (India) Certificate**: PS33069
- **NEPSI Certificate**: G713.1143X
- **RETIIE Approval**: 03866
- **IMETRO Approval**: TÜV 12.1333X
- **RETIIE Approval**: 03866
- **Marine Approvals**: LR: 0100173 (E1) DIN: E-10248: ABS: 50230244101CPSDA, BV: 43818817
- **Continuous Operating Temperature**: -60°C to +200°C (Metallic), -20°C to +60°C (Nylon)
- **Ingress Protection Rating**: IP66
- **Available Materials**: Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel, Nylon

**Product Selection Table**

<table>
<thead>
<tr>
<th>Ordering Reference</th>
<th>Thread Size</th>
<th>Minimum Thread Length</th>
<th>Allen Key Size A/F</th>
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</thead>
<tbody>
<tr>
<td>747DM1</td>
<td>M16 X 1.5</td>
<td>15.0</td>
<td>M8</td>
</tr>
<tr>
<td>747DM2</td>
<td>M20 X 1.5</td>
<td>15.0</td>
<td>M10</td>
</tr>
<tr>
<td>747DM3</td>
<td>M25 X 1.5</td>
<td>15.0</td>
<td>M10</td>
</tr>
<tr>
<td>747DM4</td>
<td>M32 X 1.5</td>
<td>15.0</td>
<td>M10</td>
</tr>
<tr>
<td>747DM5</td>
<td>M40 X 1.5</td>
<td>15.0</td>
<td>M10</td>
</tr>
<tr>
<td>747DM6</td>
<td>M50 X 1.5</td>
<td>15.0</td>
<td>M10</td>
</tr>
<tr>
<td>747DM7</td>
<td>M63 X 1.5</td>
<td>15.0</td>
<td>M14</td>
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<tr>
<td>747DM8</td>
<td>M75 X 1.5</td>
<td>15.0</td>
<td>M14</td>
</tr>
<tr>
<td>747DM9</td>
<td>M80 X 2.0</td>
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<td>M14</td>
</tr>
<tr>
<td>747DM10</td>
<td>M100 X 2.0</td>
<td>24.0</td>
<td>M14</td>
</tr>
</tbody>
</table>

All dimensions shown are in millimetres unless otherwise stated.

www.cmp-products.com
## Product Selection Table*

<table>
<thead>
<tr>
<th>Product</th>
<th>Thread Size</th>
<th>Minimum Thread Length</th>
<th>Across Flats &quot;A&quot;</th>
<th>Across Corners Diameter</th>
<th>Protrusion Length &quot;C&quot;</th>
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</thead>
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<td>M16 X 1.5</td>
<td>15.0</td>
<td>22.0</td>
<td>24.2</td>
<td>5.0</td>
</tr>
<tr>
<td>757EXDM2</td>
<td>M20 X 1.5</td>
<td>15.0</td>
<td>24.0</td>
<td>26.4</td>
<td>5.0</td>
</tr>
<tr>
<td>757EXDM3</td>
<td>M25 X 1.5</td>
<td>15.0</td>
<td>30.0</td>
<td>33.0</td>
<td>5.0</td>
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<td>757EXDM4</td>
<td>M32 X 1.5</td>
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<td>5.0</td>
</tr>
<tr>
<td>757EXDM5</td>
<td>M40 X 1.5</td>
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<td>46.0</td>
<td>50.6</td>
<td>5.0</td>
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<tr>
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<td>757EXDM8</td>
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<td>757EXDM9</td>
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<td>99.0</td>
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</tr>
<tr>
<td>757EXDM10</td>
<td>M100 X 2.0</td>
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<td>108.0</td>
<td>118.8</td>
<td>5.0</td>
</tr>
</tbody>
</table>

* All dimensions shown are in millimetres unless otherwise stated.

### TECHNICAL DATA

- **Enclosure Protection**: IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only
- **ATEX Certificate**: SR6134TEXX1265X
- **Code of Protection**: D120 Ex d IIC Gb, II 1D Ex ta IIIC Da 120 Ex d IIC Gb, II 1D Ex ta IIIC Da
- **Compliance Standards**: EN 60079-0,1,7, 31
- **IECEx Certificate**: IECEx SIR 13.0094X
- **Code of Protection**: Ex d I Mb, Ex e I Mb, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIC Da
- **CCSaus Certificate**: 9955233
- **Code of Protection**: Ex e II, Class I, Zone 1, AEx e I; IP66, 67, 68, Enclosure Type 4X; Class II Groups E, F and G; Class III
- **QC证书**: 212421
- **Code of Protection**: Class I O 1 & 2, Groups A,B,C,D; Class II Groups E,F,G; Class III
- **Compliance Standards**: UL 1203
- **EAC Certificate**: TCI 44800-0235X
- **Code of Protection**: Ex d I Mb, Ex e I Mb; Ex d IIC Gb,Ex e IIC Gb, Ex ta IIC Da
- **NEPSI Certificate**: P33368
- **Code of Protection**: Ex e II, Class I, Zone 1, AEx e I; IP66, 67, 68, Enclosure Type 4X; Class II Groups E, F and G; Class III
- **METIE Approval**: 08866
- **Marine Approvals**: USL:0100173 (B1) DNV: E-13848 ABS: 0120334401C/2PDA, BV: 43180/A1
- **Continuous Operating Temperature**: -40°C to +200°C (Metallic), -20°C to +60°C (Nylon)
- **Ingress Protection Rating**: IP66, IP67 & IP68
- **Available Materials**: Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel, Nylon

---

**757 Hexagon Head Stopper Plug, Globally Approved, Explosive Atmosphere Cable / Conduit Accessory**

- Provides means of blanking unused cable entries
- Temporary or permanent
- General purpose / industrial version available
- Equipment interface “O” ring seal available
- Nylon Ex e only version available (-20°C to +60°C)
- -60°C to 200°C (metallic versions)
- Globally marked, IECEx, ATEX, cCSAus & UL

---

**HOW TO ORDER**

**e.g. 757 - D - M - 3 - 1**

= Dual Certified Ex d & Ex e - M25 - Aluminium

Other Thread Variations are available on request. For further information on ordering please refer to page 150.

When ordered with the integral “O” ring seal the across flats dimension shown may increase to accommodate the “O” ring.
767 Dome Head Stopper Plug, Globally Approved, Explosive Atmosphere Cable / Conduit Accessory

- Provides means of blanking unused cable entries
- Temporary or permanent
- General purpose / industrial version available
- Equipment interface ‘O’ ring seal available
- Nylon Ex e only version available (-20°C to +60°C)
- -60°C to 200°C (metallic versions)
- Globally marked, IECEx, ATEX, cCSAus & UL

HOW TO ORDER

e.g. 767 - D - M - 3 - 1
= Dual Certified Ex d & Ex e - M25 - Aluminium

Other Thread Variations are available on request. For further information on ordering please refer to page 150.

When ordered with the integral ‘O’ ring seal the head diameter ‘A’ dimension shown may increase to accommodate the ‘O’ ring.

Product Selection Table

<table>
<thead>
<tr>
<th>Ordering Reference</th>
<th>Thread Size</th>
<th>Minimum Thread Length</th>
<th>Head Diameter “A”</th>
<th>Protrusion Length “B”</th>
<th>Allen Key Size A/F</th>
</tr>
</thead>
<tbody>
<tr>
<td>767DM1</td>
<td>M16 x 1.5</td>
<td>15.0</td>
<td>22.0</td>
<td>5.5</td>
<td>M8</td>
</tr>
<tr>
<td>767DM2</td>
<td>M20 x 1.5</td>
<td>15.0</td>
<td>27.0</td>
<td>5.5</td>
<td>M10</td>
</tr>
<tr>
<td>767DM3</td>
<td>M25 x 1.5</td>
<td>15.0</td>
<td>30.0</td>
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<td>767DM4</td>
<td>M32 x 1.5</td>
<td>15.0</td>
<td>36.0</td>
<td>5.5</td>
<td>M10</td>
</tr>
<tr>
<td>767DM5</td>
<td>M40 x 1.5</td>
<td>15.0</td>
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<td>M10</td>
</tr>
<tr>
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<td>55.0</td>
<td>5.5</td>
<td>M10</td>
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<tr>
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<td>68.0</td>
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<td>M10</td>
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<tr>
<td>767DM8</td>
<td>M75 x 1.5</td>
<td>15.0</td>
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</table>

All dimensions shown are in millimetres unless otherwise stated.

www.cmp-products.com
### Technical Data

- **Enclosure Protection**: IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only
- **ATEX Certificate**: SIRA 10 ATEX 1307U
- **Code of Protection**: 781D: II 2G Ex d IIC Gb, II 1D Ex ta IIIC Da
  - 781E: II 2G Ex e IIC Gb, II 1D Ex ta IIIC Da
- **Compliance Standards**: EN 60079-0,1,7,31
- **IECEx Certificate**: IECEx SR10.0149U
- **Code of Protection**: 781D: Ex d IIC Gb, Ex ta IIIC Da
  - 781E: Ex e IIC Gb, Ex ta IIIC Da
- **Compliance Standards**: EN 60079-0,1,7,31
- **cCSAus Certificate**: 1015233
- **Code of Protection**: 781D: Ex d IIC, Class I, Zone 1, AEx d IIC, Class I Div 1, Groups A,B,C,D
  - 781E: Ex e IIC, Class I, Zone 1, AEx e IIC, Class I Div 1, Groups A,B,C,D
- **Compliance Standards**: CSA C22.2 No 0-10, 0.5, 30, 94 & 68079-0,1,17, B14.0911, UL50, 1203, UL80079-0,1,7
- **EAC Certificate**: TC RU C-GB.80.00138
- **Code of Protection**: 781D: Ex d IIC Gb, Class I, Zone 1 AEx d IIC, Class I Div 1, Groups A,B,C,D
  - 781E: Ex e IIC Gb, Class I, Zone 1, AEx e IIC, Class I Div 1, Groups A,B,C,D
- **Compliance Standards**: CSA C22.2 No 0-10, 0.5, 30, 94 & 68079-0,1,17, B14.0911, UL50, 1203, UL80079-0,1,7
- **Continuous Operating Temperature**: 781D: -60°C to +130°C
  - 781E: -60°C to +130°C (-20°C to +60°C Nylon)
- **Ingress Protection Rating**: 781D: IP66 (when fitted with CMP sealing accessories)
  - 781E: IP66 (with ’O’ ring interface seal and lock nut as standard)
- **Available Materials**: Brass, Nickel Plated Brass, Aluminium, Stainless Steel, Nylon (781E only)
- **Accessories Included (781E only)**: Integral Entry Thread equipment interface ’O’ ring seal, Castellated Locknut

### Installation Torque (Nm)

<table>
<thead>
<tr>
<th>Product</th>
<th>Installation Torque (Nm)</th>
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<tbody>
<tr>
<td>781DM2</td>
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<td>781DM3</td>
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<td>781DT1</td>
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<tr>
<td>781DT2</td>
<td>10</td>
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</table>

*All dimensions shown are in millimetres unless otherwise stated.*

 seventy-one breather / drain plug, globally approved, explosive atmosphere cable / conduit accessory

- 781E for Ex e use
- 781D for Ex d use
- Drains equipment susceptible to moisture collection
- Enables equipment to breathe
- General purpose / industrial version available
- Nylon Ex e only version available (-20°C to +60°C)
- -60°C to +130°C (metallic versions)
- Globally marked, IECEx, ATEX & cCSAus

### How to Order

**Example:**

- 781 - D - M - 3 = Ex d - M25
- 781 - E - M - 3 = Ex e - M25

Other Thread Variations are available on request. For further information on ordering please refer to page 150.

The CMP 781E range of increased safety type ‘e’ breather / drain plugs have been tested together with CMP serrated washers to ensure that in areas that are subject to vibration the plug does not suffer from self-loosening and inadvertently fall out of the enclosure. Serrated washers are not included as standard but can be ordered separately.
780 In-Line Union, Globally Approved, Explosive Atmosphere Cable / Conduit Accessory

- Allows the connection of conduit or glands to equipment
- Suitable for rigid or flexible conduit
- Integral coupling eliminates the need to rotate the conduit
- General Purpose / industrial version available
- Equipment interface ‘O’ ring seal available
- -60°C to 200°C
- Globally marked, IECEx, ATEX & cCSAus

Male-to-Male thread option available.
Available with an equipment interface ‘O’ ring seal. For such options please add the suffix letter “R” after the type number in the ordering reference above, e.g. 780DM2M2.

If 2 separate enclosures are required to be connected together please contact CMP Products.

Product Selection Table

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</table>

** When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

All dimensions shown are in millimetres unless otherwise stated.

For material options please add the following suffix to the Ordering Reference; Brass (no suffix required), Nickel Plated Brass “5”, 316 Grade Stainless Steel “4”, Copper Free Aluminium “1”
PX780REX

PX780REX In-Line Union, Globally Approved, Explosive Atmosphere Barrier Cable / Conduit Accessory

- RapidEx liquid pour sealing system
- Enhances reliability, reduces risk
- Reduces man hours
- Reduces cost
- Allows the connection of conduit or glands to equipment
- Suitable for rigid or flexible conduit
- Integral coupling eliminates the need to rotate the conduit
- General Purpose / industrial version available
- Equipment interface ‘O’ ring seal available
- -60°C to +85°C
- Globally marked, IECEx, ATEX & cCSAus

Male-to-Male thread option available.

Available with an equipment interface ‘O’ ring seal. For such options please add the suffix letter “R” after the type number in the ordering reference above, e.g. PX780REXM2M2

For epoxy compound version please remove “REX” from ordering reference.

If 2 separate enclosures are required to be connected together please contact CMP Products.

### Technical Data

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<tr>
<td>Ingress Protection Rating**</td>
<td>IP66</td>
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### Available Materials

- Brass (standard)
- Electroless Nickel Plated Brass
- Aluminium
- Stainless Steel

** When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

### Product Selection Table

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All dimensions shown are in millimetres unless otherwise stated.

For material options please add the following suffix to the Ordering Reference; Brass (no suffix required), Nickel Plated Brass “5”, 316 Grade Stainless Steel “4”, Copper Free Aluminium “1”.

** Ingress Protection Rating**

www.cmp-products.com
### Technical Data

**Design Specification**
BS 6121 Part 1:1989, IEC 62444, EN 62444

**Enclosure Protection**
K10 to IEC 62262 (20)(11) Brass & Stainless Steel only

**ATEX Certification**
SIRA10ATEX3106U

**Code of Protection**
- H2 GD Ex d IIC Gb, Ex e IIC Gb, Ex ta IIC Da IP6X
- IM2 Ex d I Mb / Ex e I Mb

**Compliance Standards**
EN 60079-0, 1, 7, 31

**IECEx Certificate**
IECEx SR 10.0148U

**Code of Protection**
Ex d IIC Gb, Ex e IIC Gb, Ex ta IIC Da IP6X, Ex d I Mb, Ex e I Mb

**Compliance Standards**
IEC 60079-0, 1, 7, 31

**CSAUS Certificate**
1055233

**Code of Protection**
Class I, Div 1 & 2, Groups A,B,C,D ; Enclosure type 4X : Class I, Zone 1, AEx de I ; Ex de II

**Compliance Standards**
EN 60079-0, 1, 7, 31

**IECEx Certificate**
IECEx SIR 10.0148U

**Code of Protection**
Ex d IIC Gb, Ex e IIC Gb, Ex ta IIC Da IP6X, Ex d I Mb, Ex e I Mb

**Compliance Standards**
IEC 60079-0, 1, 7, 31

**cCSAus Certificate**
1055233

**Code of Protection**
Class I, Div 1 & 2, Groups A,B,C,D ; Enclosure type 4X : Class I, Zone 1, AEx de II

**Compliance Standards**
EN 60079-0, 1, 7, 31

**EAC Certificate**
TC RU C-GB.F050.B00138

**INMETRO Approval**
TÜV 12.1334U

**REITE Approval**
03866

**Ingress Protection Rating**
IP66

**Available Materials**
Brass (standard), Electroless Nickel Plated Brass, Aluminium, Stainless Steel

**Code of Protection**
-60˚C to 200˚C

Globally marked, IECEx, ATEX & cCSAus

**Product Selection Table**

<table>
<thead>
<tr>
<th>METRIC</th>
<th>NPT</th>
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<tr>
<td>Male Forward Thread Size &quot;A&quot;</td>
<td>Female Rear Thread Size &quot;B&quot;</td>
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<tr>
<td>78401M2</td>
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<td>78402M2</td>
<td>M25 X 1.5</td>
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<td>78404M4</td>
<td>M32 X 1.5</td>
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<td>78406M6</td>
<td>M50 X 1.5</td>
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<td>78407M7</td>
<td>M63 X 1.5</td>
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**All dimensions shown are in millimetres unless otherwise stated.**

**Material Options**
- For material options please add the following suffix to the Ordering Reference; Brass (no suffix required), Nickel Plated Brass “5”, 316 Grade Stainless Steel “4”, Copper Free Aluminium “1”.

**Product Information**
784 45° Union, Globally Approved, Explosive Atmosphere Cable / Conduit Accessory
- Allows the connection of conduit or glands to equipment
- Suitable for rigid or flexible conduit
- Integral coupling eliminates the need to rotate the conduit
- General Purpose / Industrial version available
- Equipment interface ‘O’ ring seal available
- -60˚C to 200˚C
- Globally marked, IECEx, ATEX & cCSAus

**Male-to-Male thread option available.**
Available with an equipment interface ‘O’ ring seal. For such options please add the suffix letter “R” after the type number in the ordering reference above, e.g. 78401M2R.

If 2 separate enclosures are required to be connected together please contact CMP Products.

**Designation**
784 45° Union, Globally Approved, Explosive Atmosphere Cable / Conduit Accessory
PX784REX 45° Union, Globally Approved, Explosive Atmosphere Barrier Cable / Conduit Accessory

- RapidEx liquid pouring system
- Enhances reliability, reduces risk
- Reduces man hours
- Reduces cost
- Allows the connection of conduit or glands to equipment
- Suitable for rigid or flexible conduit
- Integral coupling eliminates the need to rotate the conduit
- General Purpose / industrial version available
- Equipment interface "O" ring seal available
- -60°C to +85°C
- Globally marked, IECEx, ATEX & cCSAus

Male-to-Male thread option available.

Available with an equipment interface "O" ring seal. For such options please add the suffix letter "R" after the type number in the ordering reference above, e.g. PX784REXDM2M2R.

For epoxy compound version please remove "REX" from ordering reference.

If 2 separate enclosures are required to be connected together please contact CMP Products.

**When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

For material options please add the following suffix to the Ordering Reference; Brass (no suffix required), Nickel Plated Brass "5", 316 Grade Stainless Steel "4", Copper Free Aluminium "1".

Available Materials:
- Brass (standard), Electroless Nickel Plated Brass, Aluminium, Stainless Steel

** Technical Data **

- **Enclosure Protection**: IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
- **ATEX Certification**: SIRA10ATEX1306U
- **Compliance Standards**: EN 60079-0,1,7,31
- **IECEx Certificate**: IECEx SR10 0148U
- **Code of Protection**: Ex d IIC Gb, Ex e IIC Gb, Ex ta IIC Da IP6X
- **Compliance Standards**: EN 60079-0,1,7,31
- **cCSAus Certificate**: 1055280
- **Code of Protection**: Ex d I Mb / Ex e I Mb
- **Compliance Standards**: C22.2 No.0,0,5,0,4, CAN/CSA E60079-0,1,7, CAN/CSA E612411, UL Std 50, 1203, UL 60079-0,1
- **EAC Certificate**: TC RU C-GB.ГБ05.B00138
- **TUV Approval**: TÜV 12.1334U
- **Ingress Protection Rating**: IP66
- **Approvals**: INMETRO Approval
- **FCC**: RETIE Approval
- **Compliance Standards**: IEC 60079-0,1,7, CAN/CSA E612411, UL Std 50, 1203, UL 60079-0,1
- **EAC Certificate**: TC RU C-GB.ГБ05.B00138
- **Ingress Protection Rating**: IP66
- **Available Materials**: Brass (standard), Electroless Nickel Plated Brass, Aluminium, Stainless Steel

Product Selection Table

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<th>Ordering Reference (Brass, Metric)</th>
<th>Male Forward Thread Size &quot;A&quot;</th>
<th>Minimum Thread Length &quot;E&quot;</th>
<th>Male Rear Thread Size &quot;B&quot;</th>
<th>Female Rear Thread Size &quot;C&quot;</th>
<th>Diameter over Cores &quot;D&quot;</th>
<th>Max. number of Cores</th>
<th>Max. Insertion Length &quot;E&quot;</th>
<th>Max. Overhang Length &quot;F&quot;</th>
<th>Across Flats Hex &quot;G&quot;</th>
<th>Across Corners &quot;G&quot;</th>
<th>Installation Torque (Nm)</th>
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<td>82.5</td>
</tr>
<tr>
<td>PX784REXDM7M7</td>
<td>M63 X 1.5</td>
<td>15.0</td>
<td>M63 X 1.5</td>
<td>PX784REXDT676</td>
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<td>1.06</td>
<td>2&quot;</td>
<td>53.7</td>
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<td>102.7</td>
<td>103.4</td>
<td>90.2</td>
<td>99.2</td>
</tr>
</tbody>
</table>

All dimensions shown are in millimetres unless otherwise stated.

For material options please add the following suffix to the Ordering Reference; Brass (no suffix required), Nickel Plated Brass "5", 316 Grade Stainless Steel "4", Copper Free Aluminium "1".
## 789 90° Union, Globally Approved, Explosive Atmosphere Cable / Conduit Accessory

- Allows the connection of conduit or glands to equipment
- Suitable for rigid or flexible conduit
- Integral coupling eliminates the need to rotate the conduit
- General Purpose / industrial version available
- Equipment interface ‘O’ ring seal available
- -60°C to 200°C
- Globally marked, IECEx, ATEX & cCSAus

Male-to-Male thread option available.
Available with an equipment interface ‘O’ ring seal. For such options please add the suffix letter ‘R’ after the type number in the ordering reference above, e.g. 789RDAM2M2.

If 2 separate enclosures are required to be connected together please contact CMP Products.

### Technical Data

- **Design Specification**: BS 6121 Part 1:1989, IEC 62444, EN 62444
- **Enclosure Protection**: IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
- **ATEX Certification**: SIRA10ATEX1306U
- **Code of Protection**: Ex d II 2 GD Ex e IIC Gb
- **Compliance Standards**: EN 60079-0,1,7,31
- **IECEx Certificate**: IECEx SR 10.0148U
- **Code of Protection**: Ex d II 2 GD Ex e IIC Gb
- **Compliance Standards**: IEC 60079-0,1,7,31
- **cCSAus Certificate**: 1055233
- **Code of Protection**: IM2 Ex d I Mb / Ex e I Mb
- **Compliance Standards**: C22.2 No.0,0.5,30,94, CAN/CSA C66.1/413, UL Std 50, 1203, UL 60079-0,1,7
- **EAC Certificate**: TC RU C-GD.FS05.800138
- **INMETRO Approval**: TUV 12.1334U
- **REITE Approval**: 03866
- **Ingress Protection Rating**: IP66
- **Available Materials**: Brass (standard), Electroless Nickel Plated Brass, Aluminium, Stainless Steel

**When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.**

### Product Selection Table

<table>
<thead>
<tr>
<th>METRIC</th>
<th>NPT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ordering Reference (Brass, Metric)</strong></td>
<td><strong>Male Forward Thread Size “A”</strong></td>
</tr>
<tr>
<td>789DAM2M2</td>
<td>M20 X 1.5</td>
</tr>
<tr>
<td>789DAM3M3</td>
<td>M25 X 1.5</td>
</tr>
<tr>
<td>789DAM4M4</td>
<td>M32 X 1.5</td>
</tr>
<tr>
<td>789DAM5M5</td>
<td>M40 X 1.5</td>
</tr>
<tr>
<td>789DAM6M6</td>
<td>M50 X 1.5</td>
</tr>
<tr>
<td>789DAM7M7</td>
<td>M63 X 1.5</td>
</tr>
</tbody>
</table>

All dimensions shown are in millimetres unless otherwise stated.

For material options please add the following suffix to the Ordering Reference: Brass (no suffix required), Nickel Plated Brass “S”, 316 Grade Stainless Steel “A”, Copper Free Aluminium “**”.

**66**

www.cmp-products.com
**PX789REX**

**PX789REX 90° Union, Globally Approved, Explosive Atmosphere Barrier Cable / Conduit Accessory**

- RapidEx liquid pour sealing system
- Enhances reliability, reduces risk
- Reduces man hours
- Reduces cost
- Allows the connection of conduit or glands to equipment
- Suitable for rigid or flexible conduit
- Integral coupling eliminates the need to rotate the conduit
- General Purpose / Industrial version available
- Equipment interface ‘O’ ring seal available
- -60°C to +85°C
- Globally marked, IECEx, ATEX & cCSAus

**Technical Data**

**Design Specification**
BS 6121 Part 1:1989, IEC 62444, EN 62444

**Enclosure Protection**
M10 to IEC 62262 (2D junction) Brass & Stainless Steel only

**ATEX Certification**
SIRA10ATEX1304U

**Code of Protection**
II 2 GD Ex d IIC Gb, Ex ta IIC Da IP6X

**Compliance Standards**
EN 60079-0, 1, 7, 31

**IECEX Certificate**
IECEX SR 10.0148U

**Code of Protection**
Ex d IIC Gb, Ex e IIC Gb, Ex d I Mb, Ex e I Mb

**Compliance Standards**
IEC 60079-0, 1, 7, 31

**cCSAus Certificate**
1055233

**Code of Protection**
Class I, Div 1 & 2, Groups A,B,C,D, Enclosure type 4K: Class I, Zone 1, AEx de I ; Ex de I

**Compliance Standards**
IEC 60079-0, 1, 7, 31

**FAC Certificate**
TC RU G-B/TE/600138

**INMETRO Approval**
TUV 12.1334U

**RGETIE Approval**
03866

**Ingress Protection Rating**
IP66

**Available Materials**
Brass (standard), Electroless Nickel Plated Brass, Aluminium, Stainless Steel

**Product Selection Table**

<table>
<thead>
<tr>
<th>METRIC</th>
<th>NPT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ordering Reference (Brass, Metric)</strong></td>
<td><strong>Male Forward Thread Size “A”</strong></td>
</tr>
<tr>
<td>PX789REXDM2M2</td>
<td>M20 X 1.5</td>
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<tr>
<td>PX789REXDM3M3</td>
<td>M25 X 1.5</td>
</tr>
<tr>
<td>PX789REXDM4M4</td>
<td>M32 X 1.5</td>
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<tr>
<td>PX789REXDM5M5</td>
<td>M40 X 1.5</td>
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<tr>
<td>PX789REXDM6M6</td>
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<tr>
<td>PX789REXDM7M7</td>
<td>M63 X 1.5</td>
</tr>
</tbody>
</table>

All dimensions shown are in millimetres unless otherwise stated.

For material options please add the following suffix to the Ordering Reference; Brass (no suffix required), Nickel Plated Brass “5”, Stainless Steel “3”, Copper Free Aluminium “1”.

www.cmp-products.com

*Male-to-Male thread option available.

Available with an equipment interface ‘O’ ring seal. For such options please add the suffix letter “R” after the type number in the ordering reference above, e.g. PX789REXDM2M2R.

For epoxy compound version please remove “REX” from ordering reference.

If 2 separate enclosures are required to be connected together please contact CMP Products.*
### Locknuts

Brass - Recommended in securing brass Cable Glands and Accessories to a gland plate or into equipment. In metric thread form CMP offers brass locknuts in a choice of standard duty and heavy duty options for sizes up to and including M32. The part numbers are distinguished by an additional letter H, e.g. 20LN = standard duty, and 20HLN = heavy duty. From size M40 all brass metric locknuts are considered to be heavy duty.

Zinc Plated Mild Steel - A cost effective alternative to brass locknuts and should be used only in dry, low humidity conditions.

Aluminium - Recommended when installing aluminium Cable Glands to prevent the galvanic corrosion which can occur when dissimilar metals are coupled together.

Stainless Steel - Corrosion resistant with increased strength at high temperatures.

Please refer to ordering reference numbers (page 150), e.g. 20LN4 for M20 Stainless Steel Locknut, 050NPTLN4 for ½” NPT Stainless Steel Locknut.

### Serrated Washers

Available in Stainless Steel, these ‘shake-proof’ Serrated Washers are fitted internally to the equipment before a locknut and act as an anti-vibration device to prevent the Cable Gland or accessory from inadvertently loosening in service.

In typical installations that are not subject to vibration, a serrated washer may not be required but consideration should be given to the following statement:

Self-loosening should be avoided according to clause 6.4.1 of IEC 60079-14, this can occur through relative motion over time even without vibration, due to differential thermal effects caused as a result of either differences in temperature or differences in clamped materials.

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### METRIC - LOCKNUTS

<table>
<thead>
<tr>
<th>Ordering Reference (Brass)</th>
<th>Thread Diameter “A”</th>
<th>Minimum Thickness</th>
<th>Across Flats Dimension “B”</th>
<th>Across Corners Diameter “C”</th>
</tr>
</thead>
<tbody>
<tr>
<td>16LN M16 X 1.5</td>
<td>3.2</td>
<td>22.0</td>
<td>25.4</td>
<td></td>
</tr>
<tr>
<td>16HLN M16 X 1.5</td>
<td>5.0</td>
<td>22.0</td>
<td>25.4</td>
<td></td>
</tr>
<tr>
<td>20LN M20 X 1.5</td>
<td>3.2</td>
<td>24.0</td>
<td>27.7</td>
<td></td>
</tr>
<tr>
<td>20HLN M20 X 1.5</td>
<td>5.0</td>
<td>24.0</td>
<td>27.7</td>
<td></td>
</tr>
<tr>
<td>25LN M25 X 1.5</td>
<td>3.2</td>
<td>30.0</td>
<td>34.6</td>
<td></td>
</tr>
<tr>
<td>25HLN M25 X 1.5</td>
<td>5.0</td>
<td>30.0</td>
<td>34.6</td>
<td></td>
</tr>
<tr>
<td>32LN M32 X 1.5</td>
<td>3.2</td>
<td>36.0</td>
<td>41.6</td>
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</tr>
<tr>
<td>32HLN M32 X 1.5</td>
<td>5.0</td>
<td>36.0</td>
<td>41.6</td>
<td></td>
</tr>
<tr>
<td>40LN M40 X 1.5</td>
<td>4.8</td>
<td>46.0</td>
<td>53.1</td>
<td></td>
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<tr>
<td>50LN M50 X 1.5</td>
<td>6.3</td>
<td>55.0</td>
<td>63.5</td>
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</tr>
<tr>
<td>63LN M63 X 1.5</td>
<td>6.3</td>
<td>70.0</td>
<td>80.8</td>
<td></td>
</tr>
<tr>
<td>75LN M75 X 1.5</td>
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<td>84.0</td>
<td>97.0</td>
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</tr>
<tr>
<td>90LN M90 X 2.0</td>
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<td>106.0</td>
<td>122.4</td>
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</tr>
<tr>
<td>100LN M100 X 2.0</td>
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<td>123.0</td>
<td>140.0</td>
<td></td>
</tr>
</tbody>
</table>

All dimension shown are in millimetres unless otherwise stated.

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### NPT - LOCKNUTS

<table>
<thead>
<tr>
<th>Ordering Reference (Brass)</th>
<th>Thread Diameter “A”</th>
<th>Minimum Thickness</th>
<th>Across Flats Dimension “B”</th>
<th>Across Corners Diameter “C”</th>
</tr>
</thead>
<tbody>
<tr>
<td>050NPTLN ½” NPT</td>
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<td>31.2</td>
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</tr>
<tr>
<td>075NPTLN ¾” NPT</td>
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<td>33.0</td>
<td>38.1</td>
<td></td>
</tr>
<tr>
<td>100NPTLN 1” NPT</td>
<td>4.8</td>
<td>41.0</td>
<td>47.3</td>
<td></td>
</tr>
<tr>
<td>125NPTLN 1 ¼” NPT</td>
<td>4.8</td>
<td>50.0</td>
<td>57.7</td>
<td></td>
</tr>
<tr>
<td>150NPTLN 1 ½” NPT</td>
<td>5.0</td>
<td>60.0</td>
<td>69.3</td>
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</tr>
<tr>
<td>200NPTLN 2” NPT</td>
<td>5.0</td>
<td>75.0</td>
<td>88.6</td>
<td></td>
</tr>
<tr>
<td>250NPTLN 2 ½” NPT</td>
<td>10.0</td>
<td>84.0</td>
<td>97.0</td>
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</tr>
<tr>
<td>300NPTLN 3” NPT</td>
<td>10.0</td>
<td>100.0</td>
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</tr>
<tr>
<td>350NPTLN 3 ½” NPT</td>
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All dimension shown are in millimetres unless otherwise stated.

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### METRIC - SERRATED WASHERS

<table>
<thead>
<tr>
<th>Ordering Reference (Stainless Steel)</th>
<th>Reference Diameter “A”</th>
<th>Minimum Thickness</th>
<th>External Diameter “B”</th>
</tr>
</thead>
<tbody>
<tr>
<td>16SW4 M16</td>
<td>3.9</td>
<td>25.5</td>
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</tr>
<tr>
<td>20SW4 M20</td>
<td>3.9</td>
<td>32.5</td>
<td></td>
</tr>
<tr>
<td>25SW4 M25</td>
<td>3.9</td>
<td>40.0</td>
<td></td>
</tr>
<tr>
<td>32SW4 M32</td>
<td>3.9</td>
<td>43.5</td>
<td></td>
</tr>
<tr>
<td>40SW4 M40</td>
<td>3.9</td>
<td>64.5</td>
<td></td>
</tr>
<tr>
<td>50SW4 M50</td>
<td>3.9</td>
<td>80.0</td>
<td></td>
</tr>
<tr>
<td>63SW4 M63</td>
<td>3.9</td>
<td>100.0</td>
<td></td>
</tr>
<tr>
<td>75SW4 M75</td>
<td>4.1</td>
<td>112.0</td>
<td></td>
</tr>
<tr>
<td>90SW4 M90</td>
<td>4.1</td>
<td>135.0</td>
<td></td>
</tr>
<tr>
<td>100SW4 M100</td>
<td>4.1</td>
<td>145.0</td>
<td></td>
</tr>
</tbody>
</table>

All dimension shown are in millimetres unless otherwise stated.

---

### NPT - SERRATED WASHERS

<table>
<thead>
<tr>
<th>Ordering Reference (Stainless Steel)</th>
<th>Reference Diameter “A”</th>
<th>Minimum Thickness</th>
<th>External Diameter “B”</th>
</tr>
</thead>
<tbody>
<tr>
<td>050NPTSW4 ½” NPT</td>
<td>3.9</td>
<td>32.5</td>
<td></td>
</tr>
<tr>
<td>075NPTSW4 ¾” NPT</td>
<td>3.9</td>
<td>40.0</td>
<td></td>
</tr>
<tr>
<td>100NPTSW4 1” NPT</td>
<td>3.9</td>
<td>43.5</td>
<td></td>
</tr>
<tr>
<td>125NPTSW4 1 ¼” NPT</td>
<td>3.9</td>
<td>64.5</td>
<td></td>
</tr>
<tr>
<td>150NPTSW4 1 ½” NPT</td>
<td>3.9</td>
<td>80.0</td>
<td></td>
</tr>
<tr>
<td>200NPTSW4 2” NPT</td>
<td>3.9</td>
<td>100.0</td>
<td></td>
</tr>
<tr>
<td>250NPTSW4 2 ½” NPT</td>
<td>3.9</td>
<td>112.0</td>
<td></td>
</tr>
<tr>
<td>300NPTSW4 3” NPT</td>
<td>4.1</td>
<td>135.0</td>
<td></td>
</tr>
<tr>
<td>350NPTSW4 3 ½” NPT</td>
<td>4.1</td>
<td>145.0</td>
<td></td>
</tr>
<tr>
<td>400NPTSW4 4” NPT</td>
<td>4.1</td>
<td>185.0</td>
<td></td>
</tr>
</tbody>
</table>

All dimension shown are in millimetres unless otherwise stated.
### Earth Tags

CMP slip on Earth Tags, installed between the Cable Gland and equipment, provide an earth bond connection as specified in BS6121:Part 5:1993 and comply with category B rating specified in IEC 62444. CMP Earth Tags have been independently short circuit tested to verify their suitability under specified service conditions. A copy of the test report is available upon request and is an important factor when selecting earth tags from any manufacturer, as without this the safety of installations may be compromised.

Stainless steel, aluminium and nickel plated brass earth tags are also available. Please refer to ordering reference numbers (page 150), e.g. 20ET4 for M20 Stainless Steel Earth Tag, 050NPTET4 for ½” NPT Stainless Steel Earth Tag.

### Metric - Earth Tags

<table>
<thead>
<tr>
<th>Ordering Reference (Brass)</th>
<th>Reference Diameter “A”</th>
<th>Minimum Thickness</th>
<th>Nominal Diameter “C”</th>
<th>Hole Size “D”</th>
<th>Nominal Length “E”</th>
<th>Nominal Centres “F”</th>
</tr>
</thead>
<tbody>
<tr>
<td>16ET M16</td>
<td>1.3</td>
<td>25.4</td>
<td>M6</td>
<td>50.3</td>
<td>30.2</td>
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<tr>
<td>20ET M20</td>
<td>1.3</td>
<td>27.2</td>
<td>M6</td>
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<td>33.0</td>
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</tr>
<tr>
<td>25ET M25</td>
<td>1.5</td>
<td>35.1</td>
<td>M6</td>
<td>59.2</td>
<td>35.6</td>
<td></td>
</tr>
<tr>
<td>32ET M32</td>
<td>1.5</td>
<td>45.2</td>
<td>M12</td>
<td>77.0</td>
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</tr>
<tr>
<td>40ET M40</td>
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<td>53.6</td>
<td>M13</td>
<td>88.6</td>
<td>45.5</td>
<td></td>
</tr>
<tr>
<td>50ET M50</td>
<td>1.5</td>
<td>65.3</td>
<td>M13</td>
<td>111.3</td>
<td>58.2</td>
<td></td>
</tr>
<tr>
<td>63ET M63</td>
<td>1.5</td>
<td>82.6</td>
<td>M13</td>
<td>128.8</td>
<td>66.8</td>
<td></td>
</tr>
<tr>
<td>75ET M75</td>
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<tr>
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<td>125.0</td>
<td>M13</td>
<td>194.8</td>
<td>118.1</td>
<td></td>
</tr>
</tbody>
</table>

Index: All dimension shown are in millimetres unless otherwise stated.

### NPT - Earth Tags

<table>
<thead>
<tr>
<th>Ordering Reference (Brass)</th>
<th>Reference Diameter “A”</th>
<th>Minimum Thickness</th>
<th>Nominal Diameter “C”</th>
<th>Hole Size “D”</th>
<th>Nominal Length “E”</th>
<th>Nominal Centres “F”</th>
</tr>
</thead>
<tbody>
<tr>
<td>050NPTET 1/2” NPT</td>
<td>1.3</td>
<td>27.2</td>
<td>M6</td>
<td>52.8</td>
<td>33.0</td>
<td></td>
</tr>
<tr>
<td>075NPTET 3/4” NPT</td>
<td>1.5</td>
<td>35.1</td>
<td>M6</td>
<td>59.2</td>
<td>35.6</td>
<td></td>
</tr>
<tr>
<td>100NPTET 1” NPT</td>
<td>1.5</td>
<td>45.2</td>
<td>M12</td>
<td>77.0</td>
<td>43.2</td>
<td></td>
</tr>
<tr>
<td>125NPTET 1 1/2” NPT</td>
<td>1.5</td>
<td>53.6</td>
<td>M13</td>
<td>88.6</td>
<td>45.5</td>
<td></td>
</tr>
<tr>
<td>150NPTET 1 3/4” NPT</td>
<td>1.5</td>
<td>65.3</td>
<td>M13</td>
<td>111.3</td>
<td>58.2</td>
<td></td>
</tr>
<tr>
<td>200NPTET 2” NPT</td>
<td>1.5</td>
<td>82.6</td>
<td>M13</td>
<td>128.8</td>
<td>66.8</td>
<td></td>
</tr>
<tr>
<td>250NPTET 2 1/2” NPT</td>
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<td>96.5</td>
<td>M13</td>
<td>141.5</td>
<td>72.9</td>
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<tr>
<td>300NPTET 3” NPT</td>
<td>2.0</td>
<td>114.0</td>
<td>M13</td>
<td>161.0</td>
<td>85.1</td>
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<tr>
<td>350NPTET 3 1/2” NPT</td>
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<td>125.0</td>
<td>M13</td>
<td>194.8</td>
<td>103.1</td>
<td></td>
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<tr>
<td>400NPTET 4” NPT</td>
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<td>M13</td>
<td>207.0</td>
<td>117.9</td>
<td></td>
</tr>
</tbody>
</table>

Index: All dimension shown are in millimetres unless otherwise stated.

### Cable Gland Warmer

Where it is not possible to erect a shelter for the application of epoxy compound or RapidEx liquid resin it is recommended that a CMP Cable Gland Warmer be used for localised heating of barrier type Cable Glands.

CMP Cable Gland Warmers may be used when installers do not have access to hot air guns. Similarly when electrical power is not available on site enabling electric heating blankets to be used, or the site conditions do not permit their use.

CMP Cable Gland Warmers comprise a self-contained heat pack which has been designed to completely enclose any of the CMP RapidEx Barrier Cable Gland range. The Cable Gland Warmer operates using crystallisation of supersaturated sodium acetate to raise the temperature of the Cable Gland up to 60°C (140°F) and is only suitable for use with RapidEx liquid resin.

As the Cable Gland Warmer releases heat for a limited time, it is important that they are used in the most effective manner; this involves wrapping the Cable Gland Warmer around the Cable Gland so that heat is transferred directly. This will ensure that the barrier tube, where the RapidEx liquid resin will be poured, is suitably prepared and ready for use.

For use in environments between -10°C (14°F) to +5°C (41°F).
To maintain the Ingress Protection rating between the equipment and the Cable Gland, it may be necessary to fit an Entry Thread Sealing Washer at the equipment-to-gland entry interface. For installations it is equally essential to maintain the ingress protection integrity at which the equipment has been rated.

The need for a sealing washer will depend on the ingress protection rating, code of protection of the equipment and the type of entry holes available within that equipment. For example, when using Ex e equipment or terminal enclosures (which are permitted to have untapped through-clearance holes) it will be necessary to fit a sealing washer to ensure the minimum IP54 requirement is met. Other equipment with tapped entry holes may not require a sealing washer to maintain the IP54 minimum rating.

The CMP metric Entry Thread Sealing Washers are produced in 2mm thick white nylon as standard which are recommended and meet the specified requirements of Shell’s Offshore operations. To verify the effectiveness of the CMP nylon entry sealing washers, independent 3rd party tests to IEC 60529 have been successfully conducted on Cable Gland at IP66, IP67 and IP68 levels of protection, documentary evidence of such tests to the highest standards can be provided.

CMP NPT Entry Thread Sealing Washers are produced in 2mm thick nylon and are colour coded Green for identification purposes.

Red Fibre Washers can also be supplied to order but careful consideration should be given to their use in sub-zero climates where absorption, freezing and cracking may occur. These red fibre washers can be ordered by substituting ‘ETS’ with ‘FW’ in the below tables.

CMP also offers Cable Glands and accessories with an equipment interface ‘O’ ring seal as an alternative.

### Entry Thread Sealing Washers

<table>
<thead>
<tr>
<th>Ordering Reference</th>
<th>Reference Diameter “A”</th>
<th>Minimum Thickness</th>
<th>External Diameter “B”</th>
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<tr>
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All dimension shown are in millimetres unless otherwise stated

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<thead>
<tr>
<th>Ordering Reference</th>
<th>Reference Diameter “A”</th>
<th>Minimum Thickness</th>
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All dimension shown are in millimetres unless otherwise stated

### Armour Former

When installing Cable Glands it is vital that the correct tools are used to carry out the installation.

Fabricated CMP products high quality speciality steel. This is a precision tool for terminating Single Wire Armour (SWA) cables correctly first time every time. Simply bend and form the armour wires using this tool in one quick, simple motion and crimp and terminate your CMP armoured Cable Gland.

<table>
<thead>
<tr>
<th>Armour Diameter</th>
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<tbody>
<tr>
<td>1.6 - 4.0mm</td>
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</table>
### Cable Gland Spanners

When installing Cable Glands and accessories it is important that the correct tools are used to carry out the installation. This includes the use of the correct Cable Gland Spanner specifically designed to fit each individual product to minimise the potential for accidental injury caused by slippage, as can be the case with adjustable spanners or wrenches.

---

**CMP PRODUCTS CABLE GLAND ACCESSORY CATALOGUE**

**NPT**

<table>
<thead>
<tr>
<th>SIZE</th>
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<th>TMCA</th>
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**METRIC**

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<th><strong>C</strong></th>
<th><strong>SSK</strong></th>
<th><strong>TICD</strong></th>
<th><strong>TEFLU</strong></th>
<th><strong>PRSS2K</strong></th>
<th><strong>C2K</strong></th>
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<td><strong>BW</strong></td>
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<td><strong>SSK</strong></td>
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<td><strong>PRSS2K</strong></td>
<td><strong>C2K</strong></td>
<td><strong>PR</strong></td>
</tr>
</tbody>
</table>

For additional spanner sizes and additional Cable Gland types please contact CMP.
Ingress Discs

CMP Ingress Discs are used as a means of maintaining the integrity of the enclosure prior to availability of the cable. They can be used to exclude dust and moisture from entering the enclosure, enabling the Cable Gland to be installed prior to the cable.

CMP Ingress Discs are available for all CMP Cable Glands used in Industrial and Ex e applications and are produced in high quality nickel plated brass with an Ingress Protection rating of IP66 when the sealing ring is engaged finger tight and one spanner turn, or as per the specific advice on CMP Installation Fitting Instructions.

CMP Products Ingress Discs are available for Industrial and Ex e applications only. Ingress Discs can be ordered as a separate accessory using the below references or pre-installed in the cable gland by adding ‘1RD’ to the ordering reference e.g. 20T3CDS1RD5 for a M20 nickel plated brass Triton CDS Cable Gland with Ingress Disc.

<table>
<thead>
<tr>
<th>Cable Gland Size</th>
<th>Cable Gland Type</th>
<th>A**</th>
<th>E** / C** / PX** / T3CDS / TET1FU</th>
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<td>ID255</td>
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<tr>
<td>130</td>
<td>ID275</td>
<td>ID275</td>
<td>ID275</td>
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</tbody>
</table>

Shrouds

CMP Products’ shrouds minimise the risk of dirt or foreign substances gathering on the Cable Gland and point of cable to cable gland interface.

LSF shrouds are Low Smoke & Fume (LSF), and Phosphorus Free to suit all CMP SOLO Cable Glands. Manufactured from low smoke, self-extinguishing, non-drip and halogen free material, these shrouds are rated UL94 V0 and are essential for areas where fire safety is key. CMP LSF shrouds and CMP SOLO Cable Glands meet the requirements of the London Underground Fire Safety Regulations and as such, they are LUL approved for use within the London Underground network.

CMP Shrouds are available in a variety of colours using the ordering references shown here, not all colours are available in all materials, please enquire for further information.

Temperature ratings for CMP shrouds are as follows:

- PVC -60°C to +90°C
- LSF -60°C to +130°C
- PCP -60°C to +100°C

Shroud sizes are referenced on each product page.
Grounding Locknuts

CMP Products’ Grounding locknuts for use with cable glands, conduit fittings, tubing (EMT) fittings and conduit as a means of reliably and safely bonding the locknut (and gland) to the enclosure or equipment.

Providing electrical continuity and tested to the requirements of CEC and NEC wiring codes CMP’S grounding locknuts reduce the chance of equipment failure, downtime, power interruptions and eliminate potential safety issues.

Grounding locknuts are available with either a grounding terminal or lay-in lug and are available in stainless steel (GRLN4), aluminum (GRLN1) and nickel plated brass (GRLN5), e.g 20GRLN4 for M20 Stainless Steel Grounding Locknut.

NPT grounding locknuts are supplied as standard in aluminum and Metric in nickel plated brass. Hammer and screwdriver installation grooves only on aluminium design (as pictured).

Standard - Small Lay-in Lug - 14-4 AWG
Optional - Medium Lay-in Lug - 14-2/0 AWG
Optional - Large Lay-in Lug - 6-250 AWG

AWG - American wire gauge

Grounding Locknuts with Lay-in-Lug are available in Nickel Plated Brass & Stainless Steel.
Lay-in-Lug will always be Aluminum regardless of locknut material.
Lay-in-Lug may be angled or straight design, remove ‘A’ suffix from order reference for straight design.

*Only the straight lay-in-lug design is available for 6-250 AWG,

Grounding Terminal will always be Stainless Steel regardless of locknut material.
Grounding Terminal is suitable for wire sizes 0.5mm² to 2.5mm².

NPT GROUNDING LOCKNUTS

<table>
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<tr>
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<td>5.76</td>
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Dimensions shown are in inches unless otherwise stated

METRIC GROUNDING LOCKNUTS

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<tr>
<th>Ordering Reference</th>
<th>Thread Diameter Metric</th>
<th>Minimum Thickness</th>
<th>Across Flats Dimension</th>
<th>Across Corners Diameter</th>
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<td>25GRLN4</td>
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<td>1.63</td>
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<td>32GRLN4</td>
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<td>1.81</td>
<td>1.99</td>
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<td>40GRLN4</td>
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<td>63GRLN4</td>
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<td>5.24</td>
<td>5.76</td>
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</table>

Dimensions shown are in inches unless otherwise stated

Grounding Terminal will always be Stainless Steel regardless of locknut material.
Grounding Terminal is suitable for wire sizes 0.5mm² to 2.5mm².
Selection & Specification

Selector charts for a range of standard armoured and unarmoured cables to a range of specifications for CMP Products Cable Glands and Cable Cleats.

Thread specifications and construction standards to ISO and ANSI standards including recommended clearance holes.

Material specifications for CMP’s Cable Glands and Accessories.

If your cable is not listed here please contact CMP for further information and recommendations.
**MATERIALS**

- **Brass Extrusion**
  - BS EN 12164:2011 / BS EN 12168:2011
  - Grade: CuZn39Pb3 (CW614N)

- **Stainless Steel Extrusion**
  - EN 10088-3 : 2014
  - Grade: 316S11, 316S13, 316S31, 316S33, 316L

- **Aluminium Extrusion**
  - BS EN 573-3:2013 / BS EN 755-1,-2,-3:2008
  - Grade: 6082 T6 OR 6262 T6

- **Aluminium Castings**
  - BS EN 1706:2010 / BS EN 1676:2010
  - Grade: ENAC42000 / LM25 TF

- **Brass Castings**
  - BS 1400 : 1985
  - Grade: GB/T 5231-2012 HPb58-3 / ASTM 38000, JIS C3604

**THREAD CONSTRUCTION STANDARDS**

- **Metric**
  - ISO 965-1, ISO 965-3 medium fit (6g) for external threads, (6H) for internal threads

- **Imperial Conduit (ET)**
  - BS 31:1940 (1979) Table 'A' external threads, Table 'B' internal threads

- **PG**
  - DIN 40430:1971

- **BSPP**
  - BS2279:1986 class A full form threads

- **BSPT**
  - BS21:1985 standard threads only as clause 5.4, gauging to clause 5.2, system A

- **ISO**
  - ISO 7/1:1994 gauging to ISO 7/2 clause 6.3 external threads, 6.2 internal threads

- **NPT**
  - ANSI / ASME B1.20.1 - 2013 gauging to clause 3.2.1 for external threads, 3.2.2 for internal threads & IEC 60981

- **NPSM**
  - ANSI / ASME B1.20.1 - 2013 gauging to clause 6.4

**NPT ANSI B1.20.1**

<table>
<thead>
<tr>
<th>THREAD REFERENCE</th>
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<th>075</th>
<th>100</th>
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<th>150</th>
<th>200</th>
<th>250</th>
<th>300</th>
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<td>1/16&quot;</td>
<td>1/16&quot;</td>
<td>1/16&quot;</td>
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<td>1/16&quot;</td>
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<td>2.2</td>
<td>2.2</td>
<td>2.2</td>
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<td>RECOMMENDED CLEARANCE HOLE</td>
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**BSPP**

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<td>23.0</td>
<td>28.5</td>
<td>37.5</td>
<td>47.5</td>
</tr>
</tbody>
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*Brass products may be nickel plated to a maximum thickness of 0.008mm

Materials will contain less than: 7.5% magnesium, 7.5% titanium, 7.5% zirconium
### XLPE / EPR

#### CABLE CONSTRUCTION

<table>
<thead>
<tr>
<th>Conductor C.S.A. (mm²)</th>
<th>Number of Cores</th>
<th>Nominal Diameters (mm)</th>
<th>Under Armour</th>
<th>Overall</th>
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<td>CMP CABLE CLEAT SIZE</td>
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<td>Sabre / Valiant Cable Gland Kit</td>
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#### CMP CABLE GLAND SIZE

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#### CMP PRODUCTS CABLE GLAND SELECTION

- **Ordering Prefix:** Sappire - SHDSS, Sabre - 1BC, Valiant - 1BC**A, Falcon - 2BC, Zenith - 2BC**A
- Red text is metallic cable cleats only

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For cables up to 35mm sq, conductors are circular stranded and for cables 50mm sq and over conductors are shaped stranded.

Revised: 16/01/2017 15:11:53
### PVC/SWA/PVC CABLES TO BS5467:1997

With Extruded Bedding & Circular / Shaped Stranded Copper Conductors 600 / 1000 Volts

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#### Inner Core

| 1.5 | 2.5 | 4.0 | 6.0 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 | 400 |
|-----|-----|-----|-----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| 1   | 2   | 3   | 4   | 7  | 12 | 19 | 27 | 37 | 48 | 69 | 103 | 133 | 160 | 205 | 250 | 320 | 400 |
| 1.5 | 2.5 | 4.0 | 6.0 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 | 400 |
| 1.5 | 2.5 | 4.0 | 6.0 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 | 400 |
| 1.5 | 2.5 | 4.0 | 6.0 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 | 400 |
| 1.5 | 2.5 | 4.0 | 6.0 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 | 400 |
| 1.5 | 2.5 | 4.0 | 6.0 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 | 400 |
| 1.5 | 2.5 | 4.0 | 6.0 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 | 400 |
| 1.5 | 2.5 | 4.0 | 6.0 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 | 400 |
| 1.5 | 2.5 | 4.0 | 6.0 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 | 400 |

For cables up to 35mm sq, conductors are circular stranded and for cables 50mm sq and over conductors are shaped stranded.

Ordering Prefix: Sapphire - SHDSS, Sabre - 1BC, Valiant - 1BC**A, Falcon - 2BC, Zenith - 2BC**A

Red text is metallic cable cleats only.
## XLPE or EPR / SWA / PVC CABLES TO BS5467 : 1997

### Cable Construction

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<th>CMP Cable Cleat Size</th>
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### CMP PRODUCTS CABLE GLAND SELECTION

- CMP CABLE GLAND CATALOGUE
- CMP PRODUCTS Topologie Cables
- CMP PRODUCTS CABLE GLAND SELECTION
### XLPE

#### CABLE CONSTRUCTION

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<th>1 Bolt Polymer / Metallic</th>
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For cables up to 35mm sq, conductors are circular stranded and for cables 50mm sq and over conductors are shaped stranded

Ordering Prefix: Sapphire - SHDSS, Sabre - 1BC, Vigilant - 1BC**A, Falcon - 2BC, Zenith - 2BC**A

Red text is metallic cable cleats only.
# UNARMoured XLPE/PVC Cable to BS6883:1999

**Multipair Instrumentation Cable 150 / 250 Volt**

**XLPE**

**Cable Construction**

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<th>Overall Nominal Diameters (mm)</th>
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For cables up to 35mm sq, conductors are circular stranded and for cables 50mm sq and over conductors are shaped stranded

Ordering Prefix: Sapphire - SHDSS, Sabre - 1BC, Valiant - 1BC**A, Falcon - 2BC, Zenith - 2BC**A

Red text is metallic cable cleats only