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IECEX &
ATEX 95



CMP PRODUCTS



CABLE GLANDS AND CONNECTORS

FOR THE IEC & NEC WORLD • ATEX 95 & BEYOND



Triple Certified

Single Solution - Three Forms of Protection
Ex d / Ex e / Ex nR



Leading the Way in Hazardous Areas

CMP Products has an international reputation for Quality and Reliability in various sectors of Industry and is highly regarded as the Specialist in the field of Industrial and Hazardous Area Cable Gland and Cable Connector design and manufacture.

CMP Products maintains its position as a leader in the business of terminating cables through its commitment to meeting customer needs, providing solutions, whether standard or special, that pay close attention to the heart of application and installer requirements, and in addition by responding to ongoing changes in standards & specification.

CMP Products remains in constant touch with the changes in development of national and international standards, which products and equipment intended for use in flammable atmospheres must meet.

Many cable gland products for use in Zones 1, 2, 21 & 22 Hazardous Areas have been available for several years with Dual Certification, referring to both Flameproof Type 'd' (Ex d) and Increased safety Type 'e' (Ex e) forms of protection, according to IEC 60079, parts 1 and 7. Whilst this has suited the requirements for the majority of equipment types installed in hazardous areas, there are other forms of protection, including Zone 2 Ex n apparatus, where Ex d and Ex e cable glands may not be adequate. With special regard to Category II 3 GD Restricted Breathing Type Ex nR equipment, it is particularly important to consider the suitability of the cable glands to maintain the integrity of the installation, as some Ex d cable glands do not meet the test requirements of IEC 60079-15 for Ex nR equipment.

CMP Products has therefore taken the principle of Dual Certification one step further and for the first time introduces Triple Certified Ex d, Ex e, & Ex nR approved cable glands that are indeed compatible with more types of equipment than ever before and brings to the market truly universal solutions. No doubt that after careful review this makes the possibility of standardisation on single cable gland solutions for the majority of the Zone 1 & Zone 2, or Zone 21 & Zone 22, hazardous area equipment, worthy of serious consideration.

The adoption and integration of IEC standards into a selection of various national standards around the world, including the European Normatives, together with the introduction, and wide spread acceptance, of the IECEx approval scheme (IECEx 02) gives a new impetus to progressive manufacturers like CMP Products. It is now possible to supply cable connecting solutions that are certified under both the CENELEC / ATEX and IECEx approval systems thereby providing the opportunity for dual marking of products that can be installed in global situations.

CMP Products - a Global Solutions Provider of Cable Glands, Cable Connectors, and Complementary Cable Related Products & Accessories

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Cable Glands and Cable Connectors are available in a variety of materials including Brass, Nickel, Plated Brass, Aluminium, & Stainless Steel, and with a wide variety of thread forms. A full range of installation accessories is also available on request.



Triton CDS (T3CDS) Flameproof Ex d, Increased Safety Ex e and Restricted Breathing Ex nR Cable Gland



CMP Triton CDS Type T3CDS Triple Certified Flameproof (Type 'd'), Increased Safety (Type 'e') and Restricted Breathing (Type 'nR') indoor and outdoor cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas with all types of armoured cable providing a flameproof seal on the cable inner bedding and an environmental seal on the cable outer sheath.

This product utilises a unique Compensating Displacement Seal (CDS) system which provides full compatibility with Restricted Breathing equipment that rely upon flammable gases being excluded from the main enclosure.

The cable gland provides mechanical cable retention and electrical continuity via armour wire termination. A reversible armour cone and AnyWay universal clamping ring arrangement allows the cable to be easily disconnected from the equipment, for maintenance and change out etc., and re-connected with the same consummate ease. This feature also facilitates remote make off procedures when the termination is to be conducted in confined spaces or in areas of restricted access. Separate tightening actions for the inner compensating displacement seal (CDS) system and the armour termination affords maximum control over the pressure applied to the cable inner bedding.

The CMP Triton CDS Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 & Zone 22 provided always that the prevailing code of practice for selection, installation and maintenance is observed, e.g. IEC 60079-14.

TECHNICAL DATA

TEMPERATURE RATING: -60°C to +130°C

DELUGE PROTECTION: DTS01:91

CABLE TYPE: Aluminium Strip Armour (ASA), Screened Flexible Wire Braid (e.g. CY / SY), Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Wire Braid Armour (e.g. SWB), Armored & Jacketed

SEALING AREA(S): Cable Inner Bedding & Outer Cable Sheath

APPROVAL DETAIL

ATEX: SIRA06ATEX1283X, SIRA07ATEX4328X

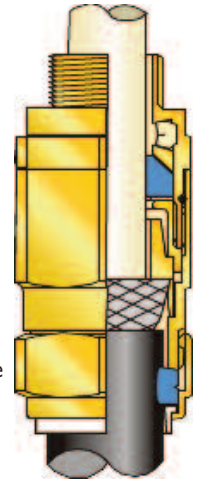
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IECEx: IECEx SIR 07.0005X

IEC Code of Protection Category: IEC 60079-0:2004, IEC 60079-1:2003, IEC 60079-7:2006, IEC 60079-15:2005, IEC 61241-0:2004, IEC 61241-1:2004

Ingress Protection: IP66, IP67, IP68

Additional Approvals Held: CSA, UL, GOST R (POCC GB. ГБ05.Б01912), GOST K (KZ 7500052 01 01 00141), INMETRO, ABS, DNV, LLOYDS, UKRAINIAN APPROVAL



Triton CDS (T3CDS/PB) Flameproof Ex d, Increased Safety Ex e and Restricted Breathing Ex nR Cable Gland



CMP Triton CDS Type T3CDS/PB Triple Certified Flameproof (Type 'd'), Increased Safety (Type 'e') and Restricted Breathing (Type 'nR') indoor and outdoor cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas with all types of lead sheathed / lead covered and armoured cable providing a flameproof seal on the cable inner lead covering and an environmental seal on the cable outer sheath.

This product utilises a unique Compensating Displacement Seal (CDS) system which provides full compatibility with restricted breathing equipment that rely upon flammable gases being excluded from the main enclosure. The cable gland being suitable for use with armoured cables, provides mechanical cable retention and electrical continuity via armour wire termination and earth bonding of the lead sheath. A reversible armour cone and AnyWay universal clamping ring arrangement allows the cable to be easily disconnected from the equipment, for maintenance and change out etc, and re-connected with the same consummate ease. This feature also facilitates remote make off procedures when the termination is to be conducted in confined spaces or in areas of restricted access. Separate tightening actions for the inner compensating displacement seal (CDS) system and the armour termination affords maximum control over the pressure applied to the cable inner lead covering.

The CMP Triton CDS Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 & Zone 22 provided always that the prevailing code of practice for selection, installation and maintenance is observed, e.g. IEC 60079-14.

TECHNICAL DATA

TEMPERATURE RATING: -60°C to +130°C

DELUGE PROTECTION: DTS01:91

CABLE TYPE: Lead Sheathed & Single Wire Armour (LC/SWA), Lead Sheathed & Aluminium Wire Armour (LC/AWA), Lead Sheathed & Wire Braid Armour (LC/SWB), Lead Sheathed & Pliable Wire Armour (LC/PWA), Lead Sheathed & Steel Tape Armour (LC/STA), Lead Sheathed & Aluminium Strip Armour (LC/ASA)

SEALING AREA(S): Cable Inner Lead Covering & Cable Outer Sheath

APPROVAL DETAIL

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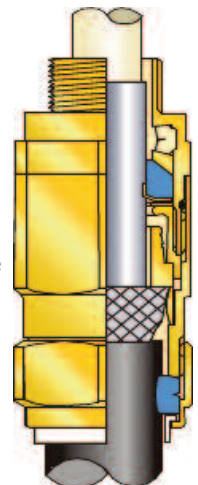
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IECEx: IECEx SIR 07.0005X

IEC Code of Protection Category: IEC 60079-0:2004, IEC 60079-1:2003, IEC 60079-7:2006, IEC 60079-15:2005, IEC 61241-0:2004, IEC 61241-1:2004

Ingress Protection: IP66, IP67, IP68

Additional Approvals Held: CSA, UL, GOST R (POCC GB. ГБ05.Б01912), GOST K (KZ 7500052 01 01 00141), INMETRO, ABS, DNV, LLOYDS, UKRAINIAN APPROVAL





E1FW Tri-Star Flameproof Ex d, Increased Safety Ex e and Restricted Breathing Ex nR Cable Gland



CMP Type E1FW Tri-Star Triple Certified Flameproof (Type 'd'), Increased Safety (Type 'e') and Restricted Breathing (Type 'nR') cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas with Single Wire Armour (SWA) cable. This cable gland provides a flameproof seal on the cable inner bedding and in addition the gas tight seal has been tested to prove compatibility with Restricted Breathing equipment. The cable gland allows mechanical cable retention and earth continuity via the cable armour termination. Separate tightening actions for the inner displacement seal and the armour termination afford maximum control over the pressure applied to the cable bedding, and also allows the effectiveness of the gas tight seal to be tested. A detachable armour cone and AnyWay clamping ring arrangement facilitates remote make off and enables the cable to be disconnected from the equipment. An environmental / load retention seal is provided on the cable outer sheath.

The CMP E1FW Tri-Star Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 & Zone 22 provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14

TECHNICAL DATA

TEMPERATURE RATING: -60°C to +130°C

CABLE TYPE: Single Wire Armour (SWA), Aluminium Wire Armour (AWA)

SEALING AREA(S): Cable Inner Bedding & Outer Cable Sheath

APPROVAL DETAIL

ATEX: SIRA06ATEX1097X, SIRA07ATEX4326X

ATEX Code of Protection Category: ATEX Ex II 2/3 GD, Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66

IECEX: IECEX SIR 06.0043X

IEC Code of Protection Category: EN 60079-0:2004, EN 60079-1:2004, EN 60079-7:2003, EN 60079-15:2003, EN 61241-1:2004, IEC 61241-0:2004

Ingress Protection: IP66, IP67, IP68

Additional Approvals Held: GOST R (POCC GB. F605.B01912), GOST K (KZ 7500052 01 01 00141), UC / INMETRO, ABS, DNV, LLOYDS, UKRAINIAN APPROVAL



E2FW Tri-Star Flameproof Ex d, Increased Safety Ex e and Restricted Breathing Ex nR Cable Gland



CMP Type E2FW Tri-Star Triple Certified Flameproof (Type 'd'), Increased Safety (Type 'e') and Restricted Breathing (Type 'nR') cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas with lead covered or lead sheathed and single wire armour (SWA) cable. This cable gland provides a flameproof seal on the cable inner lead covering and in addition the gas tight seal has been tested to prove compatibility with Restricted Breathing equipment that relies upon flammable gases being excluded from the main enclosure. The cable gland allows mechanical cable retention and earth continuity via the cable armour termination, and also earth bonding of the inner lead covering or lead sheath. Separate tightening actions for the inner displacement seal and the armour termination afford maximum control over the pressure applied to the cable inner lead covering, and also allows the effectiveness of the gas tight seal to be tested. A detachable armour cone and AnyWay clamping ring arrangement facilitates remote make off and enables the cable to be disconnected from the equipment. An environmental / load retention seal is provided on the cable outer sheath.

The CMP E2FW Tri-Star Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 & Zone 22 provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14.

TECHNICAL DATA

TEMPERATURE RATING: -60°C to +130°C

CABLE TYPE: Single Wire Armour (SWA), Aluminium Wire Armour (AWA)

SEALING AREA(S): Cable Inner Lead Covering & Cable Outer Sheath

APPROVAL DETAIL

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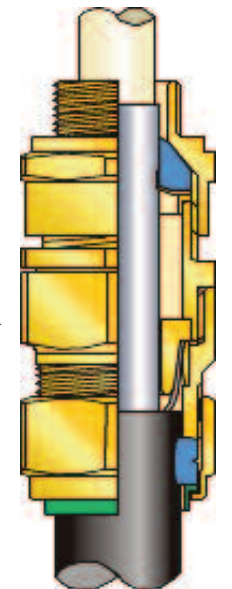
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IECEX: IECEX SIR 06.0043X

IEC Code of Protection Category: EN 60079-0:2004, EN 60079-1:2004, EN 60079-7:2003, EN 60079-15:2003, EN 61241-1:2004, IEC 61241-0:2004

Ingress Protection: IP66, IP67, IP68

Additional Approvals Held: GOST R (POCC GB. F605.B01912), GOST K (KZ 7500052 01 01 00141), UC / INMETRO, ABS, DNV, LLOYDS, UKRAINIAN APPROVAL





E1FX Tri-Star Flameproof Ex d, Increased Safety Ex e and Restricted Breathing Ex nR Cable Gland



CMP Type E1FX Tri-Star Triple Certified Flameproof (Type 'd'), Increased Safety (Type 'e') and Restricted Breathing (Type 'nR') indoor and outdoor cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas with Braided, Pliable Wire Armour (PWA), Strip Armour and Steel Tape Armour (STA) cable. This cable gland provides a flameproof seal on the cable inner bedding and in addition the gas tight seal has been tested to prove compatibility with Restricted Breathing equipment. The cable gland allows mechanical cable retention and earth continuity via the cable armour termination. Separate tightening actions for the inner displacement seal and the armour termination afford maximum control over the pressure applied to cable bedding, and also allows the effectiveness of the gas tight seal to be tested. A detachable armour cone and AnyWay clamping ring arrangement facilitates remote make off and enables the cable to be disconnected from the equipment. An environmental / load retention seal is provided on the cable outer sheath.

The CMP E1FX Tri-Star Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 & Zone 22 provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14.

TECHNICAL DATA

TEMPERATURE RATING: -60°C to +130°C

CABLE TYPE: Screened Flexible Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Wire Braid Armour (e.g. SWB), Aluminium Strip Armour (ASA), Armored & Jacketed

APPROVAL DETAIL

ATEX: SIRA06ATEX1097X, SIRA07ATEX4326X

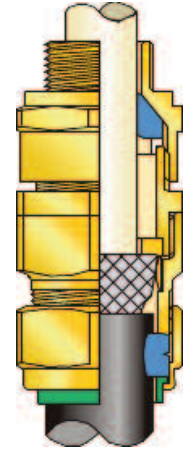
ATEX Code of Protection Category: ATEX Ex II 2/3 GD, Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66; ATEX Ex II 3 G Ex nR II;

IECEx: IECEx SIR 06.0043X

IEC Code of Protection Category: EN 60079-0:2004, EN 60079-1:2004, EN 60079-7:2003, EN 60079-15:2003, EN 61241-1:2004, IEC 61241-0:2004

Ingress Protection: IP66, IP67, IP68

Additional Approvals Held: GOST R (POCC GB. ГБ05.Б01912), GOST K (KZ 7500052 01 01 00141), UC/INMETRO, ABS, DNV, LLOYDS, UKRAINIAN APPROVAL



E2FX Tri-Star Flameproof Ex d, Increased Safety Ex e and Restricted Breathing Ex nR Cable Gland



CMP Type E2FX Tri-Star Triple Certified Flameproof (Type 'd'), Increased Safety (Type 'e') and Restricted Breathing (Type 'nR') cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas with Lead Covered or Lead Sheathed and Braided, Pliable Wire Armour (PWA), Strip Armour, or Steel Tape Armour (STA) cable. This cable gland provides a flameproof seal on the cable inner lead covering and in addition the gas tight seal has been tested to prove compatibility with restricted breathing equipment. The cable gland allows mechanical cable retention and earth continuity via the cable armour termination, and also earth bonding of the inner lead covering or lead sheath. Separate tightening actions for the inner displacement seal and the armour termination afford maximum control over the pressure applied to cable inner lead covering, and also allows the effectiveness of the gas tight seal to be tested. A detachable armour cone and AnyWay clamping ring arrangement facilitates remote make off and enables the cable to be disconnected from the equipment. An environmental / load retention seal is provided on the cable outer sheath.

The CMP E2FX Tri-Star Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 & Zone 22 provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14.

TECHNICAL DATA

TEMPERATURE RATING: -60°C to +130°C

CABLE TYPE: Lead Sheathed & Wire Braid Armour (LC/SWB), Lead Sheathed & Pliable Wire Armour (LC/PWA), Lead Sheathed & Steel Tape Armour (LC/STA), Lead Sheathed & Strip Armour (LC/ASA)

SEALING AREA(S): Cable Inner Lead Sheath & Outer Sheath

APPROVAL DETAIL

ATEX: SIRA06ATEX1097X, SIRA07ATEX4326X

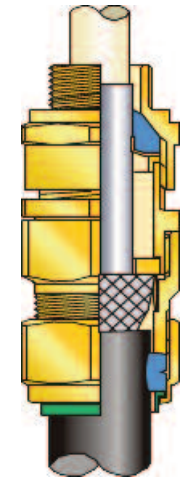
ATEX Code of Protection Category: ATEX Ex II 2/3 GD, Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66; ATEX Ex II 3 G Ex nR II;

IECEx: IECEx SIR 06.0043X

IEC Code of Protection Category: EN 60079-0:2004, EN 60079-1:2004, EN 60079-7:2003, EN 60079-15:2003, EN 61241-1:2004, IEC 61241-0:2004

Ingress Protection: IP66, IP67, IP68

Additional Approvals Held: GOST R (POCC GB. ГБ05.Б01912), GOST K (KZ 7500052 01 01 00141), UC/INMETRO, ABS, DNV, LLOYDS, UKRAINIAN APPROVAL

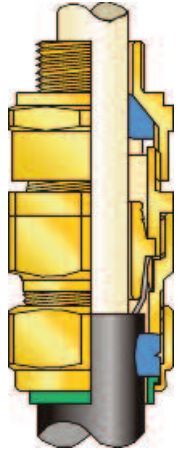




E1FU Tri-Star Flameproof Ex d, Increased Safety Ex e and Restricted Breathing Ex nR Cable Gland



CMP Type E1FU Tri-Star Triple Certified Flameproof (Type 'd'), Increased Safety (Type 'e') and Restricted Breathing (Type 'nR') indoor and outdoor cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas with all types of armoured cable. This cable gland provides a flameproof seal on the cable inner bedding and in addition the gas tight seal has been tested to prove compatibility with Restricted Breathing equipment. The cable gland allows mechanical cable retention and earth continuity via the cable armour termination. Separate tightening actions for the inner Displacement Seal and the Armour Termination afford maximum control over the pressure applied to the cable bedding, and also allows the effectiveness of the gas tight seal to be tested. A reversible armour cone and AnyWay clamping ring arrangement facilitates remote make off and enables the cable to be disconnected from the equipment. An environmental / load retention seal is provided on the cable outer sheath. The CMP E1FU Tri-Star Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 & Zone 22 provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14.



TECHNICAL DATA

TEMPERATURE RATING: -60°C to +130°C

CABLE TYPE: Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Steel Tape Armour (STA), Wire Braid Armour (e.g. SWB), Aluminium Strip Armour (ASA), Pliable Wire Armour (PWA), Screened Flexible Wire Braid (e.g. CY / SY), Armored & Jacketed

SEALING AREA(S): Cable Inner Bedding & Outer Cable Sheath

APPROVAL DETAIL

ATEX: SIRA06ATEX1097X, SIRA07ATEX4326X

ATEX Code of Protection Category: ATEX Ex II 2/3 GD, Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66

IECEX: IECEX SIR 06.0043X

IEC Code of Protection Category: EN 60079-0:2004, EN 60079-1:2004, EN 60079-7:2003, EN 60079-15:2003, EN 61241-1:2004, IEC 61241-0:2004

Ingress Protection: IP66, IP67, IP68

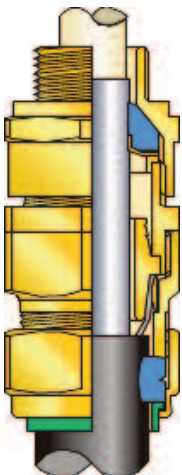
Additional Approvals Held: GOST R (POCC GB. F505.B01912), GOST K (KZ 7500052 01 01 00141), ABS, DNV, LLOYDS, UKRAINIAN APPROVAL



E2FU Tri-Star Flameproof Ex d, Increased Safety Ex e and Restricted Breathing Ex nR Cable Gland



CMP Type E2FU Tri-Star Triple Certified Flameproof (Type 'd'), Increased Safety (Type 'e') and Restricted Breathing (Type 'nR') indoor and outdoor cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas with all types of Lead Covered or Lead Sheathed and armoured cable. This cable gland provides a flameproof seal on the cable inner lead covering and in addition the gas tight seal has been tested to prove compatibility with Restricted Breathing equipment. The cable gland allows mechanical cable retention and earth continuity via the cable armour termination, and also earth bonding of the inner lead covering or lead sheath. Separate tightening actions for the inner Displacement Seal and the Armour Termination afford maximum control over the pressure applied to the cable inner lead covering, and also allows the effectiveness of the gas tight seal to be tested. A detachable universal armour cone and AnyWay clamping ring arrangement facilitates remote make off and enables the cable to be disconnected from the equipment. An environmental / load retention seal is provided on the cable outer sheath. The CMP E2FU Tri-Star Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 & Zone 22 provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14.



TECHNICAL DATA

TEMPERATURE RATING: -60°C to +130°C

CABLE TYPE: Lead Sheathed & Single Wire Armour (LC/SWA), Lead Sheathed & Aluminium Wire Armour (LC/AWA), Lead Sheathed & Wire Braid Armour (LC/SWB), Lead Sheathed & Pliable Wire Armour (LC/PWA), Lead Sheathed & Steel Tape Armour (LC/STA), Lead Sheathed & Aluminium Strip Armour (LC/ASA)

SEALING AREA(S): Cable Inner Lead Covering & Cable Outer Sheath

APPROVAL DETAIL

ATEX: SIRA06ATEX1097X, SIRA07ATEX4326X

ATEX Code of Protection Category: ATEX Ex II 2/3 GD, Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66

IECEX: IECEX SIR 06.0043X

IEC Code of Protection Category: EN 60079-0:2004, EN 60079-1:2004, EN 60079-7:2003, EN 60079-15:2003, EN 61241-1:2004, IEC 61241-0:2004

Ingress Protection: IP66, IP67, IP68

Additional Approvals Held: GOST R (POCC GB. F505.B01912), GOST K (KZ 7500052 01 01 00141), UC / INMETRO, ABS, DNV, LLOYDS UKRAINIAN APPROVAL



PX2K Flameproof Ex d, Increased Safety Ex e, Restricted Breathing Ex nR Compound Barrier Cable Gland



CMP Type PX2K Triple Certified Flameproof (Type 'd'), Increased Safety (Type 'e') and Restricted Breathing (Type 'nR') cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas with all types of armoured cable providing a compound barrier seal around the cable conductors and an environmental seal on the cable outer sheath. The cable gland provides mechanical cable retention and electrical continuity via armour termination. A combined detachable armour cone and compound tube, together with AnyWay universal clamping ring arrangement allows the cable to be easily disconnected from the equipment, for maintenance and change out etc., and re connected with the same consummate ease. This feature also facilitates remote make off procedures when the termination is to be conducted in confined spaces or in areas of restricted access.

The CMP PX2K cable gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 & Zone 22 provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14.

The PX2K is supplied in kit form inclusive of two detachable armour cones. Stepped Cone is suitable for SWA cables, Grooved Cone is suitable for all other approved armoured cables.

PX2K/PB for use with lead sheathed/lead covered cables.

TECHNICAL DATA

TEMPERATURE RATING: -60°C to +100°C

DELUGE PROTECTION: DTS01:91

CABLE TYPE: Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Wire Braid Armour (e.g. SWB), Screened Flexible Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Strip Armour (e.g. ASA)

SEALING AREA(S): Inner Compound Barrier & Outer Sheath

APPROVAL DETAIL

ATEX: SIRAO6ATEX1097X, SIRAO7ATEX4326X

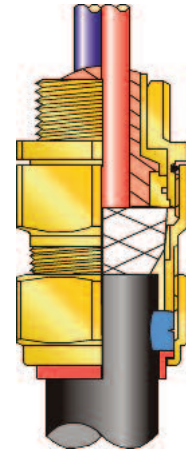
ATEX Code of Protection Category: ATEX Ex II 2/3 GD, Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66; ATEX Ex II 3 G Ex nR II;

IECEX: IECEX SIR 06.0044X

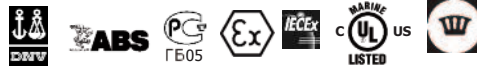
IEC Code of Protection Category: IEC 60079-0:2004, IEC 60079-7:2001, IEC 61241-0:2004, IEC 61241-1:2004

Ingress Protection: IP66, IP67, IP68

Additional Approvals Held: CSA, UL, GOST R (POCC GB. ГБ05.Б01912), GOST K (KZ 7500052 01 01 00141), ABS, DNV, LLOYDS, UKRAINIAN APPROVAL



PXSS2K Flameproof Ex d, Increased Safety Ex e, Restricted Breathing Ex nR Compound Barrier Cable Gland



CMP Type PXSS2K Triple Certified Flameproof (Type 'd'), Increased Safety (Type 'e') and Restricted Breathing (Type 'nR') cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas with all types of unarmoured cable providing a compound barrier seal around the cable conductors and an environmental seal on the cable outer sheath. The cable gland provides mechanical cable retention. A combined detachable spacer and compound tube allows the cable to be easily disconnected from the equipment, for maintenance and change out etc., and re-connected with the same consummate ease. This feature also facilitates remote make off procedures when the termination is to be conducted in confined spaces or in areas of restricted access.

The CMP PXSS2K cable gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 & Zone 22 provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14.

TECHNICAL DATA

TEMPERATURE RATING: -60°C to +100°C

DELUGE PROTECTION: DTS01:91

CABLE TYPE: Unarmoured

SEALING AREA(S): Inner Compound Barrier & Outer Sheath

APPROVAL DETAIL

ATEX: SIRAO6ATEX1097X, SIRAO7ATEX4326X

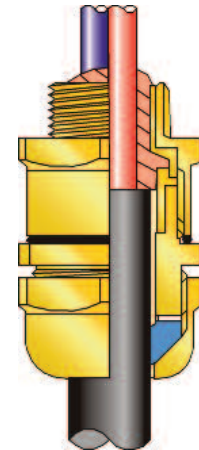
ATEX Code of Protection Category: ATEX Ex II 2/3 GD, Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66

IECEX: IECEX SIR 06.0044X

IEC Code of Protection Category: IEC 60079-0:2004, IEC 60079-7:2001, IEC 61241-0:2004, IEC 61241-1:2004

Ingress Protection: IP66, IP67, IP68

Additional Approvals Held: CSA, UL, GOST R (POCC GB. ГБ05.Б01912), GOST K (KZ 7500052 01 01 00141), ABS, DNV, LLOYDS, UKRAINIAN APPROVAL





A2F Cable Gland, Flameproof Ex d, Increased Safety Ex e and Restricted Breathing Ex nR Cable Gland



CMP Type A2F Triple Certified Flameproof (Type 'd'), Increased Safety (Type 'e') and Restricted Breathing (Type 'nR') indoor and outdoor cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 hazardous areas with un-armoured and braided cable providing a combined flameproof seal and environmental seal on the cable outer sheath. This product provides full compatibility with restricted breathing equipment that rely upon flammable gases being excluded from the main enclosure.

The CMP A2F Tri-Star Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 & Zone 22 provided always that the prevailing code of practice for selection, installation and maintenance is observed, e.g. IEC 60079-14.

TECHNICAL DATA

TEMPERATURE RATING: -60°C to +130°C

DELUGE PROTECTION: DTS01:91

CABLE TYPE: Unarmoured & Braided

SEALING AREA(S): Cable Outer Sheath

APPROVAL DETAIL

ATEX: SIRA06ATEX1097X, SIRA07ATEX4326X

ATEX Code of Protection Category: ATEX Ex II 2/3 GD, Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66

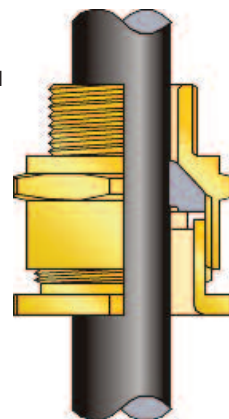
IECEx: IECEx SIR 06.0039X

IEC Code of Protection Category: IEC 60079-0:2004, IEC 60079-1:2003, IEC 60079-7:2006, IEC 60079-15:2005,

IEC 61241-0:2004, IEC 61241-1:2004

Ingress Protection: IP66, IP67, IP68

Additional Approvals Held: CASA, GOST R (POCC GB. Г605.В01912), GOST K (KZ 7500052 01 01 00141), INMETRO, ABS, DNV, LLOYDS, UKRAINIAN APPROVAL



A2FRC Tri-Star Flameproof Ex d, Increased Safety Ex e and Restricted Breathing Ex nR Cable Gland for Conduit Connection



CMP Type A2FRC Tri-Star Triple Certified Flameproof (Type 'd'), Increased Safety (Type 'e') and Restricted Breathing (Type 'nR') indoor and outdoor conduit connection cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 hazardous areas with un-armoured cable housed in rigid or flexible conduit systems. The cable gland provides a combined flameproof seal and environmental seal on the cable outer sheath. This product provides full compatibility with restricted breathing equipment.

The CMP A2FRC Tri-Star Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 & Zone 22 provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14.

TECHNICAL DATA

TEMPERATURE RATING: -60°C to +130°C

CABLE TYPE: Unarmoured & Braided

SEALING AREA(S): Cable Outer Sheath

APPROVAL DETAIL

ATEX: SIRA06ATEX1097X, SIRA07ATEX4326X

ATEX Code of Protection Category: ATEX Ex II 2/3 GD, Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66

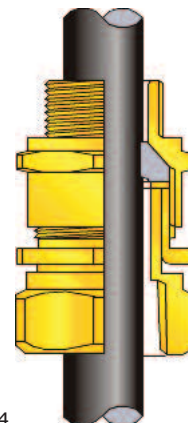
IECEx: IECEx SIR 06.0040X

IEC Code of Protection Category: IEC 60079-0:2004, IEC 60079-1:2003, IEC 60079-7:2006, IEC 60079-15:2005, IEC 61241-0:2004,

IEC 61241-1:2004

Ingress Protection: IP66

Additional Approvals Held: GOST R (POCC GB. Г605.В01912), GOST K (KZ 7500052 01 01 00141), INMETRO, ABS, DNV, LLOYDS, UKRAINIAN APPROVAL



A2F-FC Tri-Star Flameproof Ex d, Increased Safety Ex e and Restricted Breathing Ex nR Cable Gland For Flexible Metallic Conduit Connection



CMP Type A2F-FC Tri-Star Triple Certified Flameproof (Type "d"), Increased Safety (Type "e") and Restricted Breathing (Type "nR") indoor and outdoor conduit connection cable gland for use in Zone 1, Zone 2, Zone 21, and Zone 22, hazardous areas with un-armoured cable housed in flexible metallic conduit systems. The cable gland provides full compatibility with restricted breathing equipment. The CMP A2F-FC Tri-Star Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 & Zone 22, providing always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14.

TECHNICAL DATA

TEMPERATURE RATING: -60°C to +130°C

CABLE TYPE: Unarmoured & Braided

SEALING AREA(S): Cable Outer Sheath

APPROVAL DETAIL

ATEX: SIRA06ATEX1097X, SIRA07ATEX4326X

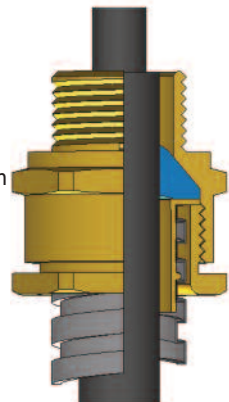
ATEX Code of Protection Category: ATEX II 2/3 GD, Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66

IECEx: IECEx SIR 06.0040X

IEC Code of Protection Category: EN 60079-0:2004, EN 60079-1:2003, EN 60079-7:2001, EN 60079-15:2005, EN 61241-0:2004, EN 61241-1:2004

Ingress Protection: IP66

Additional Approvals Held: GOST R (POCC GB. Г605.В01912), GOST K (KZ 7500052 01 01 00141), INMETRO, ABS, DNV, LLOYDS, UKRAINIAN APPROVAL



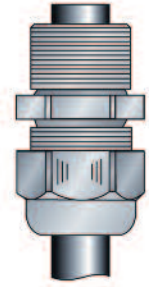
CMP V-TEC EX, EX L & EX M Cable Gland (A2Pe) Code of Protection EEx e II



The CMP V-TEC Type EX, EX L & M Range (A2Pe) of Increased Safety (Type 'e') Non-Metallic Cable Glands for Unarmoured and Screened Flexible Cables, is endorsed by an EC design type approval certificate in accordance with the requirements of EN50014 : 1997 & EN50019 : 1994 and the ATEX Directive 94/9/EC, concerning safety of Electrical Equipment, Products and Protection Systems for use in potentially explosive atmospheres (Hazardous Areas).

These Cable Gland products provide an environmental seal on the cable outer sheath and have been introduced as a cost effective solution for all indoor and outdoor cable installations in Zone 1 and Zone 2 Hazardous Areas, where Ex e or EEx e Code of Protection has been permitted. This cable gland is also suitable for use in conjunction with Ex de or EEx de equipment and apparatus which has an increased safety terminal chamber.

EC design type approval certificate number : PTB 99 ATEX 3112X and 3113X.



SS2K Flameproof Ex d, Increased Safety Ex e & Restricted Breathing Ex nR Cable Gland



CMP Type SS2K Tri-Star Triple Certified Flameproof (Type 'd'), Increased Safety (Type 'e') and Restricted Breathing (Type 'nR') indoor and outdoor cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 hazardous areas with un-armoured cables. This cable gland provides a flameproof seal on the cable inner sheath (or outer sheath of single sheathed cable) and a secondary environmental seal on the cable outer sheath. This cable gland can also be used with braided cables where the sealing is made on the cable overall diameter, when this arrangement is permitted by the prevailing installation code of practice, and the metallic braid is earthed inside the equipment. This product provides full compatibility with Restricted Breathing equipment and affords extra stability and superior resistance to cable pull out.

The CMP SS2K Tri-Star Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 & Zone 22 provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14. SS2k/PB for use with lead sheathed/lead covered cables & SS2k/TA for use with steel tape armour also available.

TECHNICAL DATA

TEMPERATURE RATING: -60°C to +130°C

DELUGE PROTECTION: DTS01:91

CABLE TYPE: Unarmoured & Braided

SEALING AREA(S): Cable Inner Bedding & Outer Cable Sheath, Double Seal on Cable Outer Sheath

APPROVAL DETAIL

ATEX: SIRA06ATEX1097X, SIRA07ATEX4326X

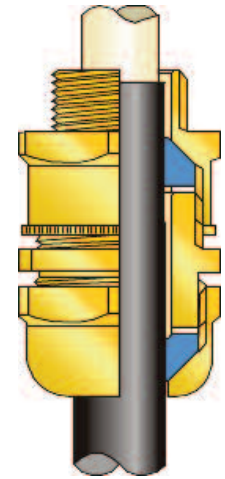
ATEX Code of Protection Category: ATEX Ex II 2/3 GD, Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66

IECEX: IECEX SIR 06.0041X

IEC Code of Protection Category: IEC 60079-0:2004, IEC 60079-1:2003, IEC 60079-7:2006, IEC 60079-15:2005, IEC 61241-0:2004, IEC 61241-1:2004

Ingress Protection: IP66, IP67, IP68

Additional Approvals Held: GOST R (POCC GB. ГБ05.Б01912), GOST K (KZ 7500052 01 01 00141), ABS, DNV, LLOYDS, UKRAINIAN APPROVAL



CMP Type C2K Increased Safety (Type 'e') cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas with all types of armoured cable providing an environmental seal on the cable outer sheath. The cable gland being suitable for use with armoured cables provides mechanical cable retention and electrical continuity via armour wire termination. A reversible armour cone and AnyWay universal clamping ring arrangement allows the cable to be easily disconnected from the equipment, for maintenance and change out etc. This feature also facilitates remote make off procedures when the termination is to be conducted in confined spaces or in areas of restricted access.

The CMP C2K Cable Gland is suitable for use with Increased Safety Type e and Flameproof Type d enclosures that are equipped with a secondary Increased Safety Type e terminal enclosure (i.e. Ex de) provided always that no source of ignition prevails and the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14.

TECHNICAL DATA

TEMPERATURE RATING: -60°C to +130°C

DELUGE PROTECTION: DTS01:91

CABLE TYPE: Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Wire Braid Armour (e.g. SWB), Aluminium Strip Armour (ASA), Screened Flexible Wire Braid (e.g. CY / SY), Armored & Jacketed

SEALING AREA(S): Cable Outer Sheath

APPROVAL DETAIL

ATEX: SIRA06ATEX1097X, SIRA07ATEX4326X

ATEX Code of Protection Category: ATEX Ex II 2/3 GD, Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66

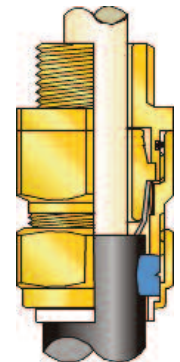
IECEX: IECEX SIR 06.0042X

IEC Code of Protection Category: IEC 60079-0:2004, IEC 60079-7:2001, IEC 61241-0:2004, IEC 61241-1:2004

Ingress Protection: IP66, IP67, IP68

Additional Approvals Held: CSA, GOST R (POCC GB. ГБ05.Б01912), GOST K (KZ 7500052 01 01 00141), ABS, DNV, LLOYDS, UKRAINIAN APPROVAL

C2K Increased Safety Ex e Cable Gland





CWe Increased Safety Ex e Cable Gland



CMP Type CWe Increased Safety (Type 'e') cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas with Single Wire Armour (SWA) cable providing an environmental seal on the cable outer sheath. The cable gland being suitable for armoured cables, provides mechanical cable retention and electrical continuity via armour wire termination. A detachable armour cone and AnyWay universal clamping ring arrangement allows the cable to be easily disconnected from the equipment, for maintenance and change out etc., and re-connected with the same consummate ease. This feature also facilitates remote make off procedures when the termination is to be conducted in confined spaces or in areas of restricted access.

The CMP CWe Cable Gland is suitable for use with Increased Safety Type e and Flameproof Type d enclosures that are equipped with a secondary Increased Safety Type e terminal enclosure (i.e. Ex de) provided always that no source of ignition prevails and the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14.

TECHNICAL DATA

TEMPERATURE RATING: -60°C to +130°C

CABLE TYPE: Single Wire Armour (SWA)

SEALING AREA(S): Cable Outer Sheath

APPROVAL DETAIL

ATEX: SIRA06ATEX1097X, SIRA07ATEX4326X

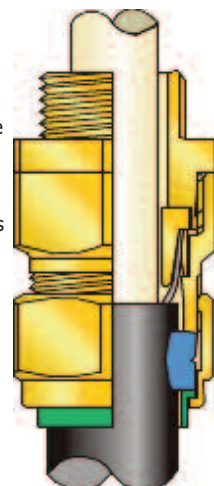
ATEX Code of Protection Category: ATEX Ex II 2/3 GD, Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66

IECEx: IECEx SIR 06.0042X

IEC Code of Protection Category: IEC 60079-0:2004, IEC 60079-7:2001, IEC 61241-0:2004, IEC 61241-1:2004

Ingress Protection: IP66

Additional Approvals Held: GOST R (POCC GB. F605.B01912), GOST K (KZ 7500052 01 01 00141), INMETRO, ABS, DNV, LLOYDS, UKRAINIAN APPROVAL



CXe Increased Safety Ex e Cable Gland



CMP Type CXe Increased Safety (Type 'e') cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas with Braided, Pliable Wire Armour (PWA), Strip Armour and Steel Tape Armour (STA) cable providing an environmental seal on the cable outer sheath. The cable gland being suitable for armoured cables, provides mechanical cable retention and electrical continuity via armour wire termination. A detachable armour cone and AnyWay universal clamping ring arrangement allows the cable to be easily disconnected from the equipment, for maintenance and change out etc., and re-connected with the same consummate ease. This feature also facilitates remote make off procedures when the termination is to be conducted in confined spaces or in areas of restricted access. The CMP CXe Cable Gland is suitable for use with Increased Safety Type e and Flameproof Type d enclosures that are equipped with a secondary Increased Safety Type e terminal enclosure (i.e. Ex de) provided always that no source of ignition prevails and the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14.

TECHNICAL DATA

TEMPERATURE RATING: -60°C to +130°C

CABLE TYPE: Wire Braid Armour (e.g. SWB), Screened Flexible Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Strip Armour (e.g. ASA)

SEALING AREA(S): Cable Outer Sheath

APPROVAL DETAIL

ATEX: SIRA06ATEX1097X, SIRA07ATEX4326X

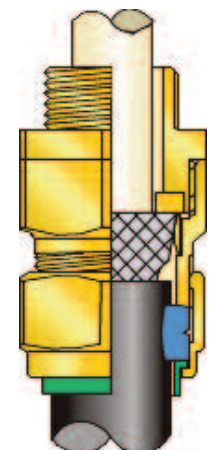
ATEX Code of Protection Category: ATEX Ex II 2/3 GD, Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66

IECEx: IECEx SIR 06.0042X

IEC Code of Protection Category: IEC 60079-0:2004, IEC 60079-7:2001, IEC 61241-0:2004, IEC 61241-1:2004

Ingress Protection: IP66

Additional Approvals Held: GOST R (POCC GB. F605.B01912), GOST K (KZ 7500052 01 01 00141), INMETRO, ABS, DNV, LLOYDS, UKRAINIAN APPROVAL



C2KX Ordinary, Wet & Hazardous Location Cable Connector



CMP C2KX Cable Connector suitable for use with Armored & Jacketed cables incorporating Wire Braid Armor in Ordinary, Wet & Hazardous Locations. The cable connector provides mechanical retention and electrical continuity via the armor termination and is available in NPT (standard) or Metric thread forms. Standard material is Brass grade CuZn39Pb3 (CW614N) to EN12168 with Electroless Nickel Plated Brass entry component. This product provides Nema 4X and IP68 ingress protection and is UL listed for use in Class I Zone 1 AEx e II applications and can be used in Class I Division 2 areas when installed in compliance with the NEC requirements.

TECHNICAL DATA

TEMPERATURE RATING: -60°C to +130°C

DELUGE PROTECTION: DTS01:91

CABLE TYPE: Armored & Jacketed

SEALING AREA(S): Cable Outer Jacket

APPROVAL DETAIL

Ingress Protection: IP66, IP67, IP68

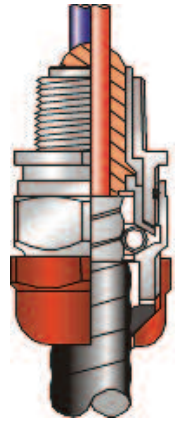
Additional Approvals Held: UL, GOST R (POCC GB. F605.B01912), GOST K (KZ 7500052 01 01 00141), ABS, DNV, LLOYDS, UKRAINIAN APPROVAL





TMCX Hazardous Location Cable Connector

CMP Type TMCX Cable Connector suitable for use with Corrugated Interlocked & Continuously Welded Metal Clad (Type MC or MC-HL) or TECK armored and armored & jacketed cables in ordinary, wet & hazardous locations including Class I Division 1 & 2 installations. The cable connector provides mechanical retention and electrical continuity via the armor termination and an environmental seal on the cable outer jacket. In addition this UL listed cable connector also offers Class I Zone I, AEx d IIC certification. The reusable compression spring feature providing both grounding and gripping functions to the cable armor, allows the cable to be easily disconnected from the equipment, for maintenance and change out etc. The TMCX cable connector offers Nema 4X and IP68 ingress protection and is supplied in Copper Free Aluminum, Stainless Steel, or Electroless Nickel Plated Brass. The TMCX is available in NPT (standard) and Metric thread forms, and is also IEC Ex Certified Ex d IIC & Ex e II, offering a single solution that can be employed in accordance with both NEC and IEC codes of installation.



TECHNICAL DATA

TEMPERATURE RATING: -60°C to +100°C

CABLE TYPE: Continuously Welded Metal Clad Armor (MCHL), Corrugated & Interlocked Metal Clad Armor (MC) or TECK

SEALING AREA(S): Inner Compound Barrier & Cable Outer Jacket

APPROVAL DETAIL

ATEX: SIRAO7ATEX1122X

ATEX Code of Protection Category: ATEX Ex II 2 GD, Ex d IIC, Ex e II, Ex tD A21 IP66

IECEx: IECEx SIR 07.0083X

IEC Code of Protection Category: IEC 60079-0:2004, IEC 60079-1:2003, IEC 60079-7:2006-07, IEC 61241-0:2004, IEC 61241-1:2004

Additional Approvals Held: CSA, UL, GOST R (POCC GB. F605.B01912), GOST K (KZ 7500052 01 01 00141), ABS, DNV, LLOYDS, UKRAINIAN APPROVAL



TMC Ordinary, Wet & Hazardous Location Cable Connector

CMP Type TMC Cable Connector suitable for use with Corrugated Interlocked & Continuously Welded Metal Clad (Type MC or MC-HL) or TECK armored and armored & jacketed cables in ordinary, wet & hazardous locations including Class II Division 1 & 2 installations.

TECHNICAL DATA

TEMPERATURE RATING: -60°C to +130°C

CABLE TYPE: Corrugated & Interlocked Metal Clad Armor (MC) or TECK, Continuously Welded Metal Clad Armor (MCHL)

SEALING AREA(S): Cable Outer Jacket

APPROVAL DETAIL

ATEX: SIRAO7ATEX1122X

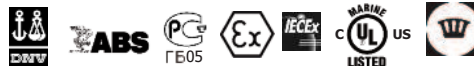
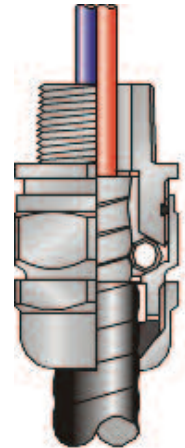
ATEX Code of Protection Category: ATEX Ex II 2 GD, Ex d IIC, Ex e II, Ex tD A21 IP66

IECEx: IECEx SIR 07.0083X

IEC Code of Protection Category: IEC 60079-0:2004, IEC 60079-1:2003, IEC 60079-7:2006-07, IEC 61241-0:2004,

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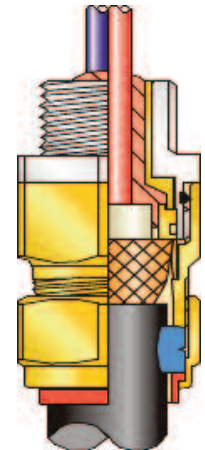
Additional Approvals Held: CSA, UL, GOST R (POCC GB. F605.B01912), GOST K (KZ 7500052 01 01 00141), ABS, DNV, LLOYDS, UKRAINIAN APPROVAL



PX2KX Hazardous Location Cable Connector

CMP Type PX2KX Class I Division 1 ABCD Cable Connector for use with Armored & Jacketed cable providing a compound barrier seal around the cable conductors and an environmental seal on the cable outer jacket. In addition this UL listed cable connector also offers Class I Zone 1, AEx d IIC, Ex d IIC certification. The cable connector provides mechanical cable retention and electrical continuity via armour termination. A detachable armour cone and AnyWay universal clamping ring arrangement allows the cable to be easily disconnected from the equipment, for maintenance and change out etc. This feature also facilitates remote make off procedures when the termination is to be conducted in confined spaces or in areas of restricted access.

The PX2KX cable connector offers Nema 4X and IP68 ingress protection and is supplied in Brass grade CuZn39Pb3 (CW614N) to EN12168 with Electroless Nickel Plated Brass entry component as standard. The PX2KX is also IEC Ex Triple Certified Ex d, Ex e & Ex nR, offering a single solution that can be employed in accordance with both NEC and IEC codes of installation.



TECHNICAL DATA

TEMPERATURE RATING: -60°C to +100°C

DELUGE PROTECTION: DTS01:91

CABLE TYPE: Armored & Jacketed

SEALING AREA(S): Inner Compound Barrier & Outer Sheath

APPROVAL DETAIL

ATEX: SIRAO6ATEX1097X, SIRAO7ATEX4326X

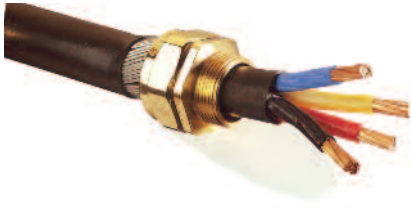
ATEX Code of Protection Category: ATEX Ex II 2/3 GD, Ex d IIC, Ex e II, Ex nR II, Ex tD A21 IP66

IECEx: IECEx SIR 06.0044X

IEC Code of Protection Category: IEC 60079-0:2004, IEC 60079-7:2001, IEC 61241-0:2004, IEC 61241-1:2004

Ingress Protection: IP66, IP67, IP68

Additional Approvals Held: UL, GOST R (POCC GB. F605.B01912), GOST K (KZ 7500052 01 01 00141), ABS, DNV, LLOYDS, UKRAINIAN APPROVAL



BW Cable Gland

CMP BW type brass indoor cable gland for use with all types of Single Wire Armour (SWA) cable providing mechanical cable retention and electrical continuity via armour wire termination. CMP BWL type is also available, this design benefits from a longer body to protect the armour wires from impact.



CX Cable Gland

CMP CX type brass indoor & outdoor cable gland for use with all types of Wire Braid Armour, Strip Armour, Pliable Wire Armour & Steel Tape Armour (STA) cable providing an environmental seal on the cable outer sheath. The cable gland also provides mechanical cable retention and electrical continuity via armour wire termination.



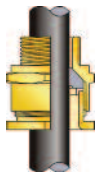
CW Cable Gland

CMP CW type brass indoor & outdoor cable gland for use with all types of Single Wire Armour (SWA) cable providing an environmental seal on the cable outer sheath. The cable gland also provides mechanical cable retention and electrical continuity via armour wire termination.



A2 Cable Gland

CMP A2 type brass indoor & outdoor cable gland for use with all types of Unarmoured cable, providing mechanical cable retention and an environmental seal on the cable outer sheath.



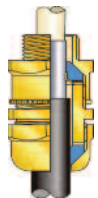
SS2KGP Cable Gland

CMP SS2KGP type brass indoor & outdoor cable gland for use with all types of Unarmoured cable, providing mechanical cable retention and an environmental seal on the cables inner and outer sheath, or a double seal on the cable outer sheath. Suitable for applications where superior cable pull out resistance is required.



SS2KGP/PB Cable Gland

CMP SS2KGP/PB type brass indoor & outdoor cable gland for use with all types of Lead Sheathed Unarmoured cable, providing mechanical cable retention and an environmental seal on the cables inner lead sheath and cable outer sheath. The cable gland also provides earth bonding of the inner lead covering or lead sheath.



E1U Cable Gland

CMP E1U type brass indoor & outdoor cable gland for use with all types of armoured cables providing an environmental seal on the cable inner bedding and on the cable outer sheath. The cable gland provides mechanical cable retention and electrical continuity via the armour termination.





**E2U
Cable Gland**

CMP E2U type brass indoor & outdoor cable gland for use with all types of Lead Sheathed and Armoured cables providing an environmental seal on the inner lead sheath and on the cable outer sheath. The cable gland provides mechanical cable retention and electrical continuity via the armour termination and also earth bonding of the inner lead covering or lead sheath.



**E1W
Cable Gland**

CMP E1W type brass indoor & outdoor cable gland for use with Single Wire Armour (SWA) cables providing an environmental seal on the cable inner sheath and on the cable outer sheath. The cable gland provides mechanical cable retention and electrical continuity via the armour termination.



**E2W
Cable Gland**

CMP E2W type brass indoor & outdoor cable gland for use with all types of Lead Sheathed and Single Wire Armour (SWA) cable providing an environmental seal on the cable inner lead sheath and on the cable outer sheath. The cable gland provides mechanical cable retention and electrical continuity via the armour termination and also earth bonding of the inner lead covering or lead sheath.



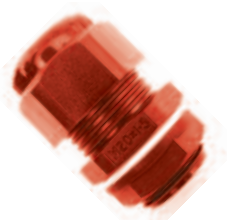
**E1X
Cable Gland**

CMP E1X type brass indoor & outdoor cable gland for use with Wire Braid Armour, Strip Armour, Pliable Wire Armour & Steel Tape Armour (STA) cables providing an environmental seal on the cable inner bedding and cable outer sheath. The cable gland provides mechanical cable retention and electrical continuity via the armour termination.



**E2X
Cable Gland**

CMP E2X type brass indoor & outdoor cable gland for use with all types of Lead Sheathed and Wire Braid Armour, Strip Armour, Pliable Wire Armour & Steel Tape Armour cable providing an environmental seal on the cable inner lead sheath and cable outer sheath. The cable gland provides mechanical cable retention and electrical continuity via the armour termination and also earth bonding of the inner lead covering or lead sheath.



**A2DG Dome Top
Cable Gland**

CMP A2DG type indoor and outdoor non-metallic Dome Cap cable gland for use with all types of Unarmoured cables, providing an environmental seal on the cable outer sheath. A2DG cable glands are available in various colours and are supplied complete with locknut. Standard thread forms are metric to EN 60423. Standard versions are produced in Low Smoke and Fume (LSF) polymeric materials with UL 94 V2 rating. Alternative versions are available in Red coloured Flame Retardant, Low Smoke and Fume (LSF) and Halogen Free polymeric material with UL 94 V0 rating.

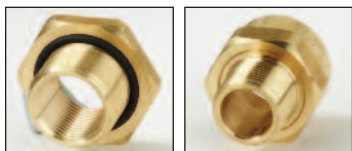


**A2 200 Hex Head Series
Cable Gland**

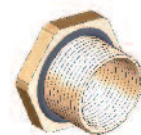
CMP A2 200 type indoor and outdoor non-metallic Hex Head cable gland for use with all types of Unarmoured cables, providing an environmental seal on the cable outer sheath. The A2 200 Hex Head cable glands are available in various colours and are supplied complete with a locknut. Standard thread forms are metric to EN 60423. Standard versions are produced in Low Smoke and Fume (LSF) polymeric materials with UL 94 V2 rating. Alternative versions are available in Red coloured Flame Retardant, Low Smoke and Fume (LSF) and Halogen Free polymeric material with UL 94 V0 rating.



THREAD CONVERSION ADAPTORS, REDUCERS & ACCESSORIES



Thread Conversion Adaptor & Reducer Type 737



The CMP Type 737 range of Thread Conversion Adaptors & Reducers are designed to provide flexibility and versatility in the execution of construction works when there is a conflict between the type or size of the cable gland thread and the cable entry hole in the equipment. These Thread Conversion Adaptors & Reducers are available with Male to Female connection threads and can be supplied with thread conversion between the forward and rear threads to either an increased or reduced size or a different thread type, e.g. Metric to NPT, or NPT to Metric.

TECHNICAL DATA

ATEX: SIRAO1ATEX1284U, SIRAO2ATEX1003X

ATEX Code of Protection Category: ATEX Ex II 2 GD, Ex d IIC, Ex e II, Ex tD A21 IP66

IECEx: IECEx SIR 07.0083X

IEC Code of Protection Category: IEC 60079-0:2004, IEC 60079-1:2003, IEC 60079-7:2006-07, IEC 61241-0:2004, IEC 61241-1:2004

Additional Approvals Held: CSA, UL, GOST R (POCC GB. ГБ05.Б01912), GOST K (KZ 7500052 01 01 00141), ABS, DNV, LLOYDS, UKRAINIAN APPROVAL



Stopper Plugs Types 747,757,767



Component approved Stopper Plugs designed to close unused cable entry holes in explosion protected equipment. Versions available with and without integral "O" Ring seal & in various materials. Also for industrial and safe area use.

TECHNICAL DATA

ATEX: SIRAO1ATEX1284U, SIRAO2ATEX1003X

ATEX Code of Protection Category: ATEX Ex II 2 GD, Ex d IIC, Ex e II, Ex tD A21 IP66

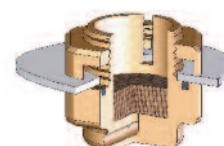
IECEx: IECEx SIR 07.0083X

IEC Code of Protection Category: IEC 60079-0:2004, IEC 60079-1:2003, IEC 60079-7:2006-07, IEC 61241-0:2004, IEC 61241-1:2004

Additional Approvals Held: CSA, UL, GOST R (POCC GB. ГБ05.Б01912), GOST K (KZ 7500052 01 01 00141), ABS, DNV, LLOYDS, UKRAINIAN APPROVAL



Breather/Drain Plug Type 781



Designed for increased safety Ex e apparatus that is susceptible to condensation or prone to moisture collection or ingress during normal operation. Designed to act both as a drainage device when mounted in a bottom entry of the equipment, and also to enable the inside air to breathe with the external environment under normal ambient and atmospheric conditions, whilst excluding further dust and moisture from penetrating the enclosure. Type 781 is supplied complete with an integral entry thread "O" ring seal, and a castellated locknut to facilitate drainage from inside the enclosure.

A General Purpose Industrial version is also available.

TECHNICAL DATA

ATEX: SIRAO1ATEX1284U, SIRAO2ATEX1003X

ATEX Code of Protection Category: ATEX Ex II 2 GD, Ex d IIC, Ex e II, Ex tD A21 IP66

IECEx: IECEx SIR 07.0083X

IEC Code of Protection Category: IEC 60079-0:2004, IEC 60079-1:2003, IEC 60079-7:2006-07, IEC 61241-0:2004, IEC 61241-1:2004

Additional Approvals Held: CSA, UL, GOST R (POCC GB. ГБ05.Б01912), GOST K (KZ 7500052 01 01 00141), ABS, DNV, LLOYDS, UKRAINIAN APPROVAL



Insulated Adaptor Type 777



The CMP Type 777 Insulated Adaptor allows the Metallic Cable Gland, and ultimately the cable armour, to be effectively isolated from the equipment. The use of these Adaptors has proven to be an essential precaution in areas where electromagnetic "noise" and circulating eddy currents "stray" around any vulnerable cable system. Particularly relevant in Power Plants and in areas where highly sensitive instrumentation circuits are relied upon for inference free safety critical operations, the cable armour can still be connected to ground externally with the use of an earth tag fitted between the cable gland and insulated adaptor. This allows the user to design his system around a single point earthing strategy and allows the operator to perform tests on the earth circuit without disconnection of the elements installed. A General Purpose Industrial version is also available.

TECHNICAL DATA

ATEX: SIRAO5ATEX1233U

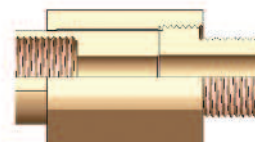
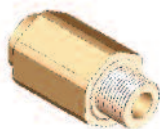
ATEX Code of Protection Category: ATEX Ex II 2 GD, Ex d IIC & Ex e II Component, Zone 1,2,21 & 22 - Gas Groups IIA, IIB, IIC

IECEx: IECEx SIR 05.004U

IEC Code of Protection Category: IEC 60079-0:2004, IEC 60079-1:2003, IEC 60079-7:2006-07, IEC 61241-0:2004, IEC 61241-1:2004

Additional Approvals Held: CSA, UL, GOST R (POCC GB. ГБ05.Б01912), GOST K (KZ 7500052 01 01 00141), ABS, DNV, LLOYDS, UKRAINIAN APPROVAL

Unions Type 780



The CMP Type 780 Metallic Union is designed to allow connection of rigid and flexible conduit, or terminated cable glands, to any fixed equipment. The 780 Union provides a running connection by means of an integral coupling arrangement that eliminates the need to rotate the conduit, or cable, or equipment to achieve a correct termination. The ease of installation offered by the 780 Union consequently makes the process of removing the conduit or other terminated cable entry device from the equipment a simple, fast and effective one. Available in Brass, Aluminium or Stainless Steel these Unions are approved for use in conjunction with Ex d and Ex e certified equipment and cable entry devices, and can also be supplied with thread conversion between the forward and rear threads to either a reduced size or a variety of different thread types, e.g. Metric to NPT, or NPT to Metric. A General Purpose Industrial version is also available.

TECHNICAL DATA

ATEX: SIRAO5ATEX1233U

ATEX Code of Protection Category: ATEX Ex II 2 GD, Ex d IIC & Ex e II Component, Zone 1,2,21 & 22 - Gas Groups IIA, IIB, IIC

IECEx: IECEx SIR 05.004U

IEC Code of Protection Category: IEC 60079-0:2004, IEC 60079-1:2003, IEC 60079-7:2006-07, IEC 61241-0:2004, IEC 61241-1:2004

Additional Approvals Held: CSA, UL, GOST R (POCC GB. 7605.B01912), GOST K (KZ 7500052 01 01 00141), ABS, DNV, LLOYDS, UKRAINIAN APPROVAL

Adaptors Type 797



The CMP Type 797 Male to Male and Female to Female Adaptor is designed to convert an existing enclosure aperture to the opposite male or female thread form. These Male to Male & Female to Female Adaptors can also be supplied with thread conversion between the two threads to either a reduced size or a different thread type, e.g. Metric to NPT, or NPT to Metric. A General Purpose Industrial version is also available. The CMP Type 797 Male to Male and Female to Female Adaptors are available in Brass, Aluminium or Stainless Steel and can be supplied for both Industrial and Hazardous Area applications, with Ex 'd' & Ex e Component and Equipment Approval.

TECHNICAL DATA

ATEX: SIRAO5ATEX1233U

ATEX Code of Protection Category: ATEX Ex II 2 GD, Ex d IIC & Ex e II Component, Zone 1,2,21 & 22 - Gas Groups IIA, IIB, IIC

IECEx: IECEx SIR 05.004U

IEC Code of Protection Category: IEC 60079-0:2004, IEC 60079-1:2003, IEC 60079-7:2006-07, IEC 61241-0:2004, IEC 61241-1:2004

Additional Approvals Held: CSA, UL, GOST R (POCC GB. 7605.B01912), GOST K (KZ 7500052 01 01 00141), ABS, DNV, LLOYDS, UKRAINIAN APPROVAL

Locknuts



Brass Locknuts are the recommended items used in securing brass cable glands, unions, adaptors, reducers, and stopper plugs to a gland plate or into equipment. Aluminium versions are also available for use with CMP Aluminium Cable Glands to prevent the electrolytic action of galvanic corrosion which can occur when dissimilar metals are coupled together.

Serrated Washers



Available in Stainless Steel as standard, these "shake-proof" Serrated Washers fitted internally to the equipment and before a locknut act as an anti-vibration device to prevent the cable gland or other cable entry device and locknut arrangement from inadvertently loosening in service. Alternative materials are available.

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 also complies with category "B" rating specified in BS EN 50262:1999. Alternative materials are available.

Shrouds



CMP manufactures a range of push on shrouds which are used to minimise the risk of dirt or foreign substances gathering on the Cable Gland Body, and/or point of cable to gland interface. Standard shrouds are produced in Black PVC and PCP. CMP LSF (Blue/Grey) shrouds are available from stock. PVC, PCP & LSF shrouds are also manufactured in alternative colours including Red and White to suit a variety of customer requirements.

Entry Thread Seal



To maintain the Ingress Protection rating between the equipment and cable gland it might be necessary to fit an Entry Thread Seal at the gland entry interstice. For Explosion Protected equipment it is essential to maintain the integrity of the degree of Ingress Protection at which the equipment has been rated. Manufactured in 2mm thick white Nylon as standard and certified to EN 60529. As an alternative we are also able to offer Integral Thread "O" Ring Seals to cable glands, adaptors, reducers and stopper plugs.

CABLE GLAND SELECTION GUIDELINES

There are many factors to consider when selecting cable glands for industrial installations. Neglecting to pay due attention to some of these factors may cause unnecessary anxiety at a future point in time when the equipment and cables have been delivered on site, but for example the cable glands have either been forgotten to be ordered or it is discovered that they are the incorrect type or size at the very point when they are needed the most. Good advice would be to allocate some value added planning and preparation time to the subject of cable gland selection so as to avoid the great inconvenience which is likely to occur at a critical point in time. In the event that a user or contractor is in possession of a cable schedule that requires a cable gland selection and sizing process to be carried out, CMP Products would be more than happy to assist in carrying out this process at no cost to the enquirer. Please contact CMP Products for further information on this subject.

Here is a summary of some aspects to carefully consider when selecting cable glands.

- Identify the type of cable to be used.
- Check the construction, size & material properties of the cable.

When the cable is armoured, verify the following :-

- Check the type and material of the cable armour. (*)
- Check the short circuit fault current rating of the cable armour. (**)
- Check the actual diameter of the inner bedding (where present) against this catalogue.
- Check the actual diameter of the lead covering (where present) against our main catalogue.
- Check the actual size of the overall cable diameter against our main catalogue.
- Check the size and type of armour or braid (where present) against our main catalogue.
- Check any special environmental requirements in relation to corrosion protection.
- Check the material of the mating electrical enclosures to eliminate dissimilar metals.
- Consider whether any protective plating is required to be applied to the cable gland.

- Check the type and size of the cable entry hole in the mating electrical equipment.
- Check the ingress protection rating of the electrical equipment or site standard.
- Check whether a single seal or double seal cable gland is required.
- Check whether an entry thread seal is required for IP66 (or IP67/IP68) conditions.
- Check whether fixing accessories such as locknuts and serrated washers are required.
- Check whether earth tags are required. (**)
- Check whether shroud tags are required.
- Select a corresponding cable gland type from this catalogue.
- For installations in Hazardous Areas, special considerations should be taken into account to ensure compliance with national or international codes of practice.
- Check whether a thread conversion adaptor / reducer is required to make the installation.
- Select corresponding adaptors or reducers from this catalogue.
- Check whether any stopper plugs are required to close unused cable entries.
- Select corresponding stopper plugs from this catalogue.

Note (*) : 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.

Note () :** For certain medium voltage and high voltage cables where the fault current carrying capacity of the cable armour is greater than that of the standard earth tag it may be necessary to consider a cable gland utilising the CMP heavy duty Cast Integral Earth Lug (CIEL) option which can be identified in the body of this catalogue.



HOW TO ORDER

On each of the main 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.

e.g. 1: 20 - E1W - Brass, with M20 entry thread

e.g. 2 : 20 – E1FW – Nickel Plated Brass, with M20 entry thread



20 E1W 1RA

20 E1FW 1RA 5

Cable Gland Size & Type	Supply Type	CMP STD Suffix	Options		Material	Entry Thread Type		Entry Thread Size					
								Imperial	PG	NPT / BSP / NPSM	Metric		
e.g. 20E1FW	1 - Gland	RA	D	Deluge Seal	0	Brass	1A	Metric	1A	1/2"	7	3/8"	-
-	2 - Pack	-	B	Brazilian Certification	1	Aluminium	1	Imperial	1	5/8"	9	1/2"	16
-	-	-			2	Nylon	2	PG	2	3/4"	11	3/4"	20
-	-	-			3	Mild Steel	3	NPT	3	1"	13.5	1"	25
-	-	-			4	Stainless Steel	4	BSP	4	1-1/4"	16	1-1/4"	32
-	-	-			5	Brass - Fully Nickel Plated	5	NPSM	5	1-1/2"	21	1-1/2"	40
-	-	-			6	N/A	6	BSPT	6	2"	29	2"	50
-	-	-			7	Brass with Nickel Plated Entry Component	-	-	7	2-1/2"	36	2-1/2"	63
-	-	-			8	Zinc Plated	-	-	8	3"	42	3"	75
-	-	-			-		-	-	9	3-1/2"	48	3-1/2"	90
-	-	-			-		-	-	10	4"		4"	100

"Unless otherwise stated, for IEC products, the standard Hazardous Area certification marking includes ATEX and IEC Ex as a minimum – please refer to CMP Products if your requirement differs from the standard"



CABLE GLAND SELECTION CHARTS

Selection Table Of Unarmoured Cable Glands

Please replace "XX" in Ordering Reference with Cable Gland name i.e. A2

Cable Gland Size	Available Entry Threads "C"			Minimum Thread Length	Overall Cable Bedding Diameter		Across Flats	Across Corners	Protrusion Length	Ordering Reference (Brass Metric)
	Standard		Option		Min	Max				
	Metric	NPT	NPT							
20S/16	M20	1/2"	3/4"	10.0	3.1	8.7	24.0	26.6	21.0	20S16XX1RA
20S	M20	1/2"	3/4"	10.0	6.1	11.7	24.0	26.6	21.0	20XX1RA
20	M20	1/2"	3/4"	10.0	6.5	14.0	27.0	30.0	24.0	20XX1RA
25	M25	3/4"	1"	10.0	11.1	20.0	36.0	39.9	26.0	25XX1RA
32	M32	1"	1 1/4"	10.0	17.0	26.3	41.0	45.5	27.0	32XX1RA
40	M40	1 1/4"	1 1/2"	15.0	23.5	32.2	50.0	55.4	28.0	40XX1RA
50S	M50	1 1/2"	2"	15.0	31.0	38.2	55.0	61.0	29.0	50SXX1RA
50	M50	2"	2 1/2"	15.0	35.6	44.1	60.0	66.5	30.0	50XX1RA
63S	M63	2"	2 1/2"	15.0	41.5	50.0	70.0	77.6	30.0	63SXX1RA
63	M63	2 1/2"	3"	15.0	47.2	56.0	75.0	83.2	30.0	63XX1RA
75S	M75	2 1/2"	3"	15.0	54.0	62.0	80.0	88.7	32.0	75SXX1RA
75	M75	3"	3 1/2"	15.0	61.1	68.0	85.0	94.2	32.0	75XX1RA
90	M90	3"	3 1/2"	15.0	66.6	79.4	108.0	120.7	44.0	90XX1RA
100	M100	4"	-	15.0	76.0	91.0	123.0	137.8	48.0	100XX1RA
115	M115	-	-	15.0	86.0	98.0	133.4	147.6	55.0	115XX1RA
130	M130	-	-	15.0	97.0	115.0	152.4	164.9	62.0	130XX1RA

All dimensions in millimeters

Selection Table Of SWA Cable Glands

Please replace "XXXX" in Ordering Reference with Cable Gland name i.e. E1FW

Cable Gland Size	Available Entry Threads "C"			Minimum Thread Length	Cable Bedding Diameter		Overall Cable Bedding Diameter		Armour Range		Across Flats	Across Corners	Protrusion Length	Ordering Reference (Brass Metric)
	Standard		Option		Min	Max	Min	Max	Min	Max				
	Metric	NPT	NPT											
20S/16	M20	1/2"	3/4"	10.0	3.1	8.7	6.1	11.5	0.9	1.1	24.0	24.4	58.5	20S16XXXX1RA
20S	M20	1/2"	3/4"	10.0	6.1	11.7	9.5	15.9	0.9	1.25	24.0	26.6	58.5	20XXXX1RA
20	M20	1/2"	3/4"	10.0	6.5	14.0	12.5	20.9	0.9	1.25	30.5	33.3	60.5	20XXXX1RA
25S	M25	3/4"	1"	10.0	11.1	20.0	14.0	22.0	1.25	1.6	37.5	40.5	67.5	25XXXX1RA
25	M25	3/4"	1"	10.0	11.1	20.0	18.2	26.2	1.25	1.6	37.5	40.5	67.5	25XXXX1RA
32	M32	1"	1 1/4"	15.0	17.0	26.3	23.7	33.9	1.6	2.0	46.0	51.0	69.5	32XXXX1RA
40	M40	1 1/4"	1 1/2"	15.0	22.0	32.2	27.9	40.4	1.6	2.0	55.0	61.0	78.0	40XXXX1RA
50S	M50	1 1/2"	2"	15.0	29.5	38.2	35.2	46.7	2.0	2.5	60.0	66.5	75.5	50SXXXX1RA
50	M50	2"	2 1/2"	15.0	35.6	44.1	40.4	53.1	2.0	2.5	70.0	78.6	80.5	50XXXX1RA
63S	M63	2"	2 1/2"	15.0	40.1	50.0	45.6	59.4	2.0	2.5	75.0	83.2	91.5	63SXXXX1RA
63	M63	2 1/2"	3"	15.0	47.2	56.0	54.6	65.9	2.0	2.5	80.0	89.0	92.0	63XXXX1RA
75S	M75	2 1/2"	3"	15.0	52.8	62.0	59.0	72.1	2.0	2.5	89.0	101.6	99.0	75SXXXX1RA
75	M75	3"	3 1/2"	15.0	59.1	68.0	66.7	78.5	2.0	2.5	99.0	111.1	102.0	75XXXX1RA
90	M90	3"	3 1/2"	15.0	66.6	79.4	76.2	90.4	3.15	3.15	114.0	128.6	120.0	90XXXX1RA
100	M100	-	-	15.0	76.0	91.0	86.1	101.5	3.15	4.0	123.0	138.0	148.0	100XXXX1RA
115	M115	-	-	15.0	86.0	98.0	101.5	110.3	3.15	4.0	133.4	147.8	169.0	115XXXX1RA
130	M130	-	-	15.0	97.0	115.0	114.2	123.3	3.15	4.0	146.1	161.9	183.0	130XXXX1RA

All dimensions in millimeters

Selection Table Of STA/Braided Cable Glands

Please replace "XXXX" in Ordering Reference with Cable Gland name i.e. E1FX

Cable Gland Size	Available Entry Threads "C"			Minimum Thread Length	Cable Bedding Diameter		Overall Cable Bedding Diameter		Armour Range		Across Flats	Across Corners	Protrusion Length	Ordering Reference (Brass Metric)
	Standard		Option		Min	Max	Min	Max	Min	Max				
	Metric	NPT	NPT											
20S/16	M20	1/2"	3/4"	15.0	3.1	8.7	6.1	11.5	0.0	1.0	24.0	24.4	58.5	20S16XXXX1RA
20S	M20	1/2"	3/4"	15.0	6.1	11.7	9.5	15.9	0.0	1.0	24.0	26.6	58.5	20XXXX1RA
20	M20	1/2"	3/4"	15.0	6.5	14.0	12.5	20.9	0.0	1.0	30.5	33.3	60.5	20XXXX1RA
25S	M25	3/4"	1"	15.0	11.1	20.0	14.0	22.0	0.0	1.0	37.5	40.5	67.5	25XXXX1RA
25	M25	3/4"	1"	15.0	11.1	20.0	18.2	26.2	0.0	1.0	37.5	40.5	67.5	25XXXX1RA
32	M32	1"	1 1/4"	15.0	17.0	26.3	23.7	33.9	0.0	1.0	46.0	51.0	69.5	32XXXX1RA
40	M40	1 1/4"	1 1/2"	15.0	22.0	32.2	27.9	40.4	0.0	1.0	55.0	61.0	78.0	40XXXX1RA
50S	M50	1 1/2"	2"	15.0	29.5	38.2	35.2	46.7	0.0	1.0	60.0	66.5	75.5	50SXXXX1RA
50	M50	2"	2 1/2"	15.0	35.6	44.1	40.4	53.1	0.0	1.0	70.0	78.6	80.5	50XXXX1RA
63S	M63	2"	2 1/2"	15.0	40.1	50.0	45.6	59.4	0.0	1.0	75.0	83.2	91.5	63SXXXX1RA
63	M63	2 1/2"	3"	15.0	47.2	56.0	54.6	65.9	0.0	1.0	80.0	89.0	92.0	63XXXX1RA
75S	M75	2 1/2"	3"	15.0	52.8	62.0	59.0	72.1	0.0	1.0	89.0	101.6	99.0	75SXXXX1RA
75	M75	3"	3 1/2"	15.0	59.1	68.0	66.7	78.5	0.0	1.0	99.0	111.1	102.0	75XXXX1RA
90	M90	3"	3 1/2"	15.0	66.6	79.4	76.2	90.4	0.0	1.6	114.0	128.6	120.0	90XXXX1RA
100	M100	-	-	15.0	76.0	91.0	86.1	101.5	0.0	1.6	123.0	138.0	148.0	100XXXX1RA
115	M115	-	-	15.0	86.0	98.0	101.5	110.3	0.0	1.6	133.4	147.8	169.0	115XXXX1RA
130	M130	-	-	15.0	97.0	115.0	114.2	123.3	0.0	1.6	146.1	161.9	183.0	130XXXX1RA

All dimensions in millimeters

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