



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 multiple 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.



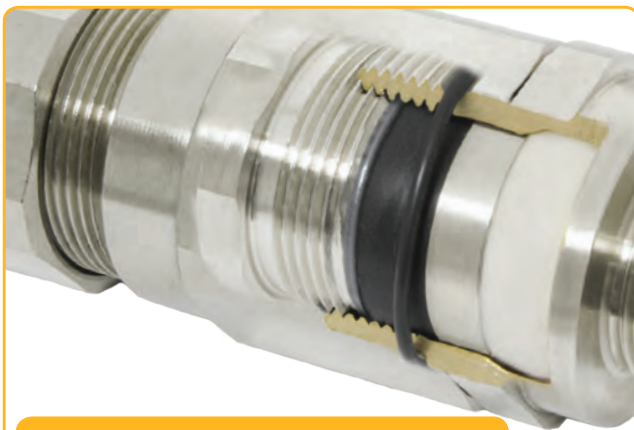
Triton CDS - Right First Time Installation

TRITON CDS

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

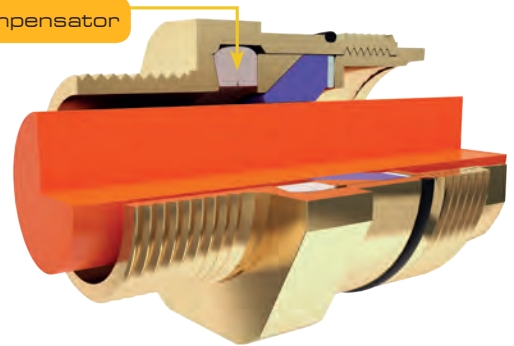
Introduced to effectively handle all types and sizes of cable construction taking away the concern of the operator, letting the product do the job instead.

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.



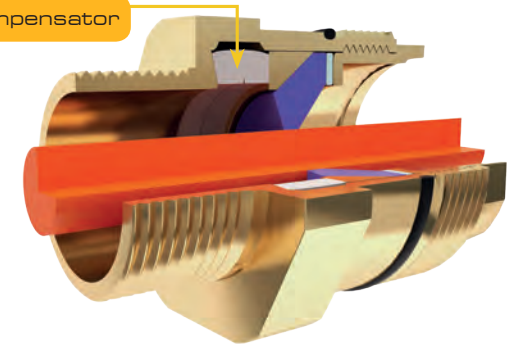
T3CDS Flameproof Sealing System

Compensator



When a larger diameter cable is installed, the inner compensator is affected to a greater extent

Compensator



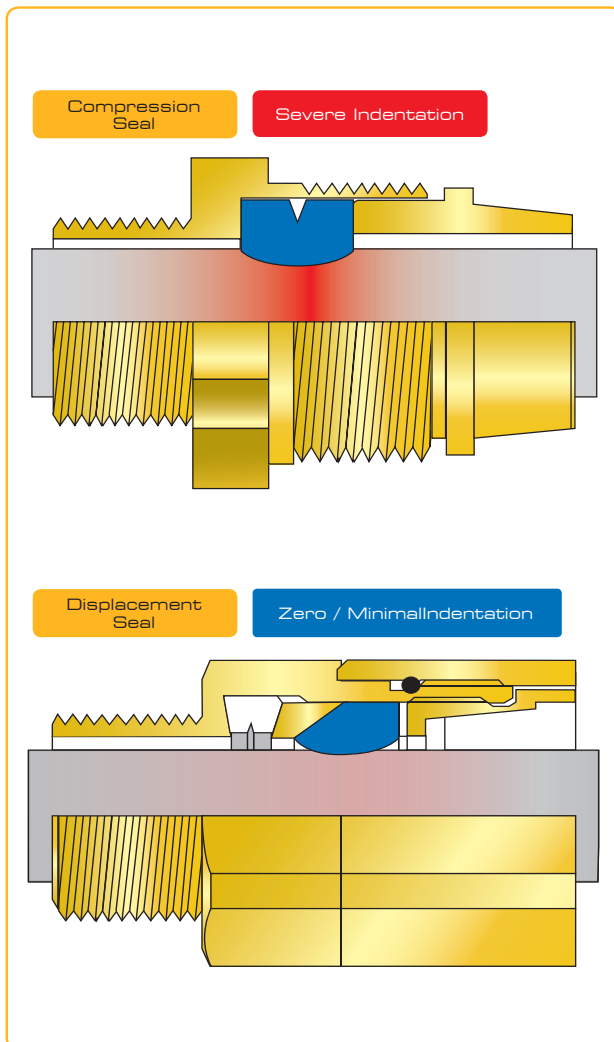
When a smaller diameter cable is installed the inner compensator is affected to a lesser extent

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



TRITON
CDS

T3CDS



Triton CDS (T3CDS) Globally Approved, Explosive Atmosphere Cable Gland

For all types of Armoured Cables

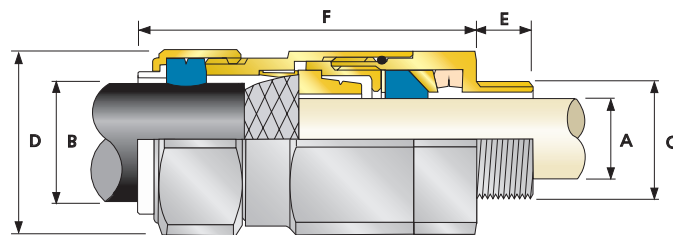
- Fully sequential, three step installation procedure
- Reduces installation times, cost & risk
- Direct & remote installation
- Unique compensating displacement seal system (CDS)
 - Metal-to-metal installation every time regardless of cable diameter
- Designed to reduce the effects of Coldflow
- Integral protected deluge seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- 60°C to +130°C (standard), -20°C to 200°C (ThermEx option)
- Globally marked, IECEx, ATEX, UL & cCSAus
- Superior EMC performance



† Grooved Cone (X) is 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), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) 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 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.

Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.



TECHNICAL DATA

Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classification*	Impact = Level 8, Cable Anchorage = Class D
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
Electrical Classification*	Category B (Category A when used with braid, tape or pliable wire armour cables)
ATEX Certificate	SIRA13ATEX1073X, SIRA13ATEX4079X
Code of Protection	⊕ II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da, ⊕ II 3G Ex nR IIC Gc, ⊕ I M2, Ex d I Mb, Ex e I Mb
Compliance Standards	EN60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0028X, IECEx SIM 14.0007X
Code of Protection	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	IEC 60079-0,1,7,15,31
cCSAus Certificate (20S16 - 90)	1310517
CSAus 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, 4 and 4X, Class I, Zone 1, AEx e II, AEx nR II
cCSA 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, 4 and 4X, Ex d IIC, Ex e IIC, Ex nR II
Compliance Standards	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-E60079-0, 1, 7, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0, 1, 7
UL Certificate (20S16 - 90)	E200163
Code of Protection	Class I, Zone 1, AEx e II
Compliance Standards	UL514B
EAC Certificate	TC RU C-GB.ГБ05.В00138
UkrSEPRO	UA.TR.047.C.0644-15
NEPSI Certificate	GYJ13.1141X / GYJ13.1283X
CCOE / PESO (India) Certificate	P333688
INMETRO Certificate	TUV 11.0374X
RETIE Certificate	03866
Marine Certificates	LRS: 01/00172 (E3), DNV: E-13848, ABS: 14-LD234401A-4-PDA, BV: 43180/A1
Ingress Protection Rating**	IP66, IP67 & IP68***
Deluge Protection Compliance	DTS01 : 91
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
Cable Type(s)	Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Aluminium Strip Armour (ASA), Screened Flexible (EMC) Wire Braid (e.g CY/SY), Wire Braid Armour (e.g SWB)
Armour Clamping	Reversible Armour Cone & AnyWay Universal Clamping Ring
Sealing Technique	Inner Bedding Sealing Ring: Compensating Displacement Seal (CDS), Outer Sheath Sealing Ring : Load Retention Seal (LRS)
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

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

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Cable Bedding Diameter "A"		Overall Cable Diameter "B"		Armour Range †				Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option					Grooved Cone (X)		Stepped Cone (W)					(*Brass Metric)				
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"		NPT	Min	Max	Min	Max	Min	Max	Min	Max	Max		Max	Size	Type		
16	M16	15.0	-	-	-	3.1	8.6	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	78.7	16	T3CDS	1RA	PVC36	0.18
20S16	M20	15.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	78.7	20S16	T3CDS	1RA	PVC36	0.20
20S	M20	15.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	78.7	20S	T3CDS	1RA	PVC36	0.20
20	M20	15.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	76.2	20	T3CDS	1RA	PVC06	0.28
25S	M25	15.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	88.8	25S	T3CDS	1RA	PVC09	0.44
25	M25	15.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	88.7	25	T3CDS	1RA	PVC09	0.44
32	M32	15.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	90.7	32	T3CDS	1RA	PVC11	0.63
40	M40	15.0	1 ¼"	25.6	1 ½"	22.0	32.1	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	93.2	40	T3CDS	1RA	PVC15	0.91
50S	M50	15.0	1 ½"	26.1	2"	29.5	38.1	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	100.7	50S	T3CDS	1RA	PVC18	1.12
50	M50	15.0	2"	26.9	2 ½"	35.6	44.0	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	105.8	50	T3CDS	1RA	PVC21	1.60
63S	M63	15.0	2"	26.9	2 ½"	40.1	49.9	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	102.5	63S	T3CDS	1RA	PVC23	1.73
63	M63	15.0	2 ½"	39.9	3"	47.2	55.9	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	105.4	63	T3CDS	1RA	PVC25	1.78
75S	M75	15.0	2 ½"	39.9	3"	52.8	61.9	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	110.6	75S	T3CDS	1RA	PVC28	2.57
75	M75	15.0	3"	41.5	3 ½"	59.1	67.9	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	120.3	75	T3CDS	1RA	PVC30	3.33
90	M90	24.0	3 ½"	42.8	4"	66.6	78.6	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	138.9	90	T3CDS	1RA	PVC32	4.87
100	M100	24.0	3 ½"	42.8	4"	76.0	90.9	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	128.2	100	T3CDS	1RA	LSF33	4.97
115	M115	24.0	4"	44.0	5"	86.0	97.9	101.5	110.2	0.8	1.6	3.15	4.0	138.0	151.8	161.3	115	T3CDS	1RA	LSF34	7.72
130	M130	24.0	5"	46.8	-	97.0	114.9	110.2	123.2	0.8	1.6	3.15	4.0	157.0	172.7	173.3	130	T3CDS	1RA	LSF35	9.78

*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass 'S'; 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: 32T3CDS1RA534 = Nickel Plated Brass 1 ¼" NPT, 50S13CDS1RA035 = Brass 1 ½" NPT, 25T3CDS1RA432 = Stainless Steel ¾" NPT, 20T3CDS1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated


TRITON
CDS

T3CDSPB


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

For all types of Lead Sheathed Armoured Cables

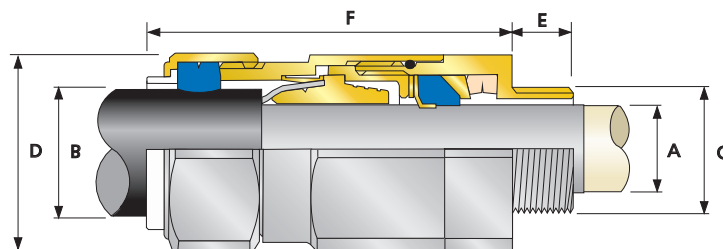
- Effectively earths / grounds lead sheathed cables
- Fully sequential, three step installation procedure
- Direct & remote installation
- Unique compensating displacement seal system (CDS)
 - Metal-to-metal installation every time regardless of lead sheath diameter
- Designed to reduce the effects of Coldflow
- Integral protected deluge seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- 60°C to +130°C
- Globally marked, IECEx, ATEX, UL & cCSAus
- Superior EMC performance



† Grooved Cone (X) is 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), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) 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 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.

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Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
Electrical Classification*	Category B (Category A when used with braid, tape or pliable wire armour cables)
ATEX Certificate	SIRA13ATEX1073X, SIRA13ATEX4079X
Code of Protection	⊕ II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIC Da, Ⓢ II 3G Ex nR IIC Gc, Ⓢ I M2, Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0, 1, 7, 15, 31
IECEx Certificate	IECEx SIR 13.0028X, IECEx SIM 14.0007X
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	IEC 60079-0, 1, 7, 15, 31
EAC Certificate	TC RU C-GB.ГБ.05.В.00138
UkrSEPRO	UA.TR.047.C.0644-15
NEPSI Certificate	GYJ13.1141X / GYJ13.1283X
CCOE / PESO (India) Certificate	P333688
INMETRO Approval	TUV 11.0374X
RETIE Approval	03866
Marine Approvals	LRS: 01/00172 (E3), DNV: E-13848, ABS: 14-LD234401A-4-PDA, BV: 43180/A1
Ingress Protection Rating**	IP66, IP67 & IP68***
Deluge Protection Compliance	DTS01 : 91
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
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)
Armour Clamping	Reversible Armour Cone & AnyWay Universal Clamping Ring
Sealing Technique	Inner Bedding Sealing Ring: Compensating Displacement Seal (CDS), Outer Sheath Sealing Ring : Load Retention Seal (LRS)
Sealing Area(s)	Cable Inner Lead Covering & Cable Outer Sheath

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

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

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	Standard				Option					Grooved Cone (X)		Stepped Cone (W)					Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"		NPT	Min	Max	Min	Max	Min	Max	Min	Max							
20S16	M20	15.0	½"	19.9	¾"	3.1	7.8	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	78.7	20S16	T3CDSPB	1RA	PVC36	0.20
20S	M20	15.0	½"	19.9	¾"	6.1	11.0	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	78.7	20S	T3CDSPB	1RA	PVC36	0.20
20	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	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	88.8	25S	T3CDSPB	1RA	PVC09	0.44
25	M25	15.0	¾"	20.2	1"	11.1	19.3	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	88.7	25	T3CDSPB	1RA	PVC09	0.44
32	M32	15.0	1"	25.0	1 ¼"	17.0	25.5	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	90.7	32	T3CDSPB	1RA	PVC11	0.64
40	M40	15.0	1 ¼"	25.6	1 ½"	22.0	31.2	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	93.2	40	T3CDSPB	1RA	PVC15	0.91
50S	M50	15.0	1 ½"	26.1	2"	29.5	37.2	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	100.7	50S	T3CDSPB	1RA	PVC18	1.13
50	M50	15.0	2"	26.9	2 ½"	35.6	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
63S	M63	15.0	2"	26.9	2 ½"	40.1	48.5	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	102.5	63S	T3CDSPB	1RA	PVC23	1.74
63	M63	15.0	2 ½"	39.9	3"	47.2	54.2	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	105.4	63	T3CDSPB	1RA	PVC25	1.79
75S	M75	15.0	2 ½"	39.9	3"	52.8	60.2	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	110.6	75S	T3CDSPB	1RA	PVC28	2.58
75	M75	15.0	3"	41.5	3 ½"	59.1	65.2	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	120.3	75	T3CDSPB	1RA	PVC30	3.34
90	M90	24.0	3 ½"	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	PVC32	4.89
100	M100	24.0	3 ½"	42.8	4"	76.0	88.1	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	128.2	100	T3CDSPB	1RA	LSF33	4.99
115	M115	24.0	4"	44.0	5"	86.0	94.1	101.5	110.2	0.8	1.6	3.15	4.0	138.0	151.8	161.3	115	T3CDSPB	1RA	LSF34	7.75
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	LSF35	9.81

*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: 32T3CDSPB1RA534 = Nickel Plated Brass 1 ½" NPT, 50S3CDSPB1RA035 = Brass 1 ½" NPT, 25T3CDSPB1RA432 = Stainless Steel ¾" NPT, 20T3CDSPB1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

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.



A2e100 in Nickel Plated Brass with Ingress Disc



Extreme Testing

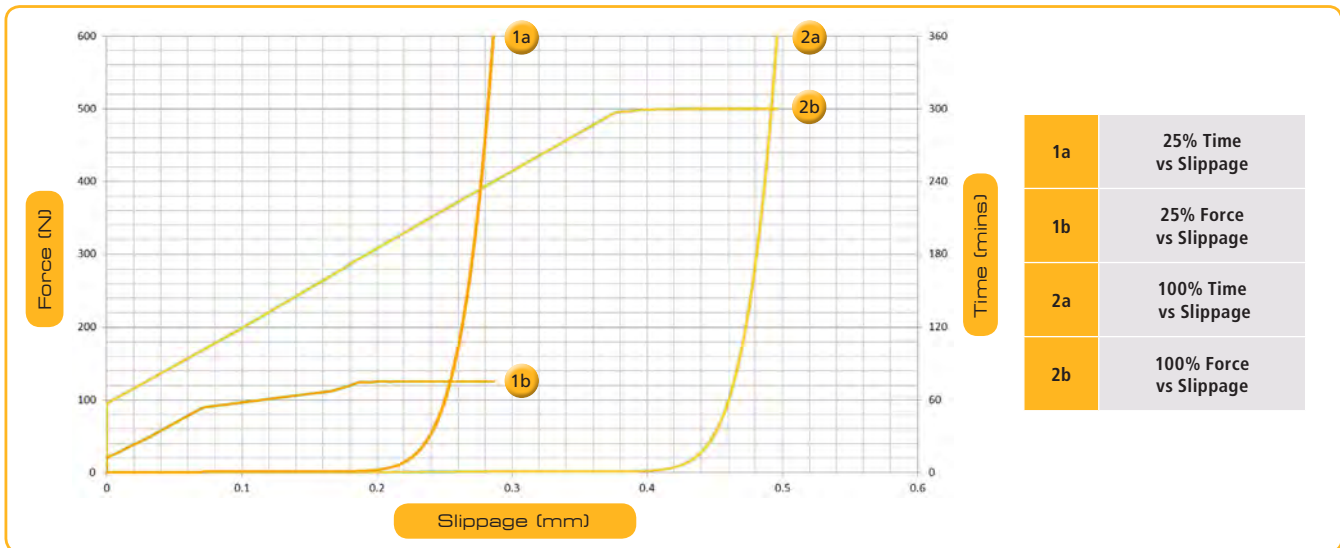
In order to comply with IEC 60079-0:2011 cable glands must be tested for thermal endurance and then be capable of holding a variable but substantial force which is determined by the external cable diameter.

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.



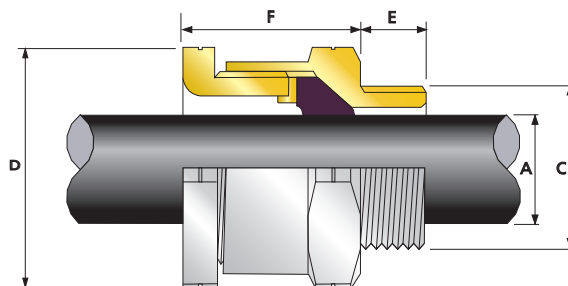
A2F100



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
- Supplied with ingress disc



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
ATEX Certificate	SIRA16ATEX1018, SIRA16ATEX4020
Code of Protection	⊕ II 2G, II 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIC Da ⊕ II 3G Ex nRc IIC Gc, ⊕ I M2 Ex db I Mb, Ex eb I Mb
Compliance Standards	EN 60079-0, 1, 7, 15, 31
IECEx Certificate	IECEx SIR 16.0006
Code of Protection	Ex db IIC Gb, Ex eb IIC Gb, Ex nRc IIC Gc, Ex ta IIC Da, Ex db I Mb, Ex eb I Mb
Compliance Standards	IEC 60079-0, 1, 7, 15, 31
EAC Certificate (Formerly GOST R, K & B)	TC RU C-Gb.ГБ05.В00138
KCC Certificate	13_GA480_0748X; 13_GA480_0749X; 13_GA480_0750X; 14_GA480_0251X
NEPSI Certificate	GY13.1140X / GY13.1282X
INMETRO Approval	TÜV 12.0619X
CCOE / PESO Certificate (India)	P333688
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3), DNV: E-13848, ABS: 14-LD234401A-4-PDA
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
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.

*** 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.

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

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Overall Cable Diameter "A"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option						Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Min	Max	Max	Max						
16	M16	15.0	-	-	-	3.2	8.0	24.0	26.4	34.9	16	A2F100	1RA	PVC04	0.07
20S16	M20	15.0	½"	19.9	¾"	3.2	8.0	24.0	26.4	30.4	20S16	A2F100	1RA	PVC04	0.08
20S	M20	15.0	½"	19.9	¾"	6.5	11.2	24.0	26.4	31.9	20S	A2F100	1RA	PVC04	0.07
20	M20	15.0	½"	19.9	¾"	7.0	13.5	27.0	29.7	35.8	20	A2F100	1RA	PVC05	0.09
20L	M20	15.0	½"	19.9	¾"	8.7	14.0	27.0	29.7	34.3	20L	A2F100	1RA	PVC05	0.09
25	M25	15.0	¾"	20.2	1"	11.5	19.5	36.0	39.6	40.4	25	A2F100	1RA	PVC09	0.16
25L	M25	15.0	¾"	20.2	1"	14.0	20.0	36.0	39.6	39.9	25L	A2F100	1RA	PVC09	0.16
32	M32	15.0	1"	25.0	1 ¼"	19.0	25.5	41.0	45.1	38.5	32	A2F100	1RA	PVC10	0.18
32L	M32	15.0	1"	25.0	1 ¼"	20.2	26.3	41.0	45.1	35.5	32L	A2F100	1RA	PVC10	0.18
40	M40	15.0	1 ¼"	25.6	1 ½"	25.0	32.2	50.0	55.0	38.8	40	A2F100	1RA	PVC13	0.25
50S	M50	15.0	1 ½"	26.1	2"	31.0	38.2	55.0	60.5	41.4	50S	A2F100	1RA	PVC15	0.33
50	M50	15.0	2"	26.9	2 ½"	35.6	44.0	60.0	66.0	45.8	50	A2F100	1RA	PVC18	0.35
63S	M63	15.0	2"	26.9	2 ½"	41.5	49.9	70.5	77.6	43.3	63S	A2F100	1RA	PVC21	0.56
63	M63	15.0	2 ½"	39.9	3"	48.2	54.9	75.0	82.5	43.6	63	A2F100	1RA	PVC23	0.55
75S	M75	15.0	2 ½"	39.9	3"	54.0	61.9	84.0	92.4	45.4	75S	A2F100	1RA	PVC26	0.73
75	M75	15.0	3"	41.5	3 ½"	61.1	67.9	84.0	92.4	49.0	75	A2F100	1RA	PVC26	0.58
90	M90	24.0	3 ½"	42.8	4"	66.6	79.9	108.0	118.8	66.0	90	A2F100	1RA	PVC31	1.71
100	M100	24.0	3 ½"	42.8	4"	76.0	89.0	123.0	135.3	72.2	100	A2F100	1RA	LSF33	2.26
115	M115	24.0	4"	44.0	5"	86.0	97.9	133.4	146.7	67.9	115	A2F100	1RA	LSF34	2.74
130	M130	24.0	5"	46.8	-	97.0	114.9	152.4	167.6	81.1	130	A2F100	1RA	LSF35	4.07

*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'

NPT options add the following digits to the material suffix (NPT & Metric threads only available): 1/2" = 31; 3/4" = 32; 1" = 33; 1 1/4" = 34; 1 1/2" = 35; 2" = 36; 2 1/2" = 37; 3" = 38; 3 1/2" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32A2F1001RA534 = Nickel Plated Brass 1 1/4" NPT, 50SA2F1001RA035 = Brass 1 1/2" NPT, 25A2F1001RA432 = Stainless Steel 3/4" NPT, 20A2F1001RA5 = Nickel Plated Brass M20

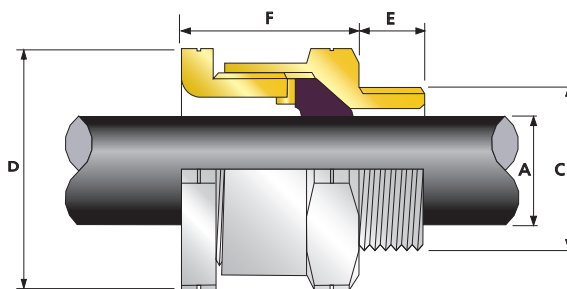
Dimensions are displayed in millimetres unless otherwise stated

**A2e100**

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
- 10mm thread lengths available upon request (sizes 32 and below)
- Supplied with ingress disc



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
ATEX Certificate	SIRA16ATEX3165, SIRA16ATEX4020
Code of Protection	Ⓜ II 2G Ex eb IIC Gb, II 1D Ex ta IIIC Da Ⓜ II 3G Ex nRc IIC Gc, Ⓜ I M2 Ex eb I Mb
Compliance Standards	EN 60079-0, 7, 15, 31
IECEx Certificate	IECEx SIR 16.0053
Code of Protection	Ex eb IIC Gb, Ex ta IIIC Da, Ex nRc IIC Gc, Ex eb I Mb
Compliance Standards	IEC 60079-0, 7, 15, 31
EAC Certificate	TC RU C-GB.F505.B00138
KCC Certificate	13_GA4B0_0749X; 13_GA4B0_0750X; 14_GA4B0_0251X
NEPSI Certificate	GY113.1140X / GY113.1282X
CCOE / PESO (India) Certificate	P333688
Marine Approvals	DNV: E-13848, ABS: 01LD234401B/2PDA, LRS: 01/00172 (E3)
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
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.

*** 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.

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

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Overall Cable Diameter "A"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard			Option	Size						Type	Ordering Suffix			
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"		NPT	Min	Max	Max				Max		
16	M16	15.0	-	-	-	3.2	8.0	24.0	26.4	34.9	16	A2E100	1RA	PVC04	0.07
20S16	M20	15.0	½"	19.9	¾"	3.2	8.0	24.0	26.4	30.4	20S16	A2E100	1RA	PVC04	0.08
20S	M20	15.0	½"	19.9	¾"	6.5	11.2	24.0	26.4	31.9	20S	A2E100	1RA	PVC04	0.07
20	M20	15.0	½"	19.9	¾"	7.0	13.5	27.0	29.7	35.8	20	A2E100	1RA	PVC05	0.08
20L	M20	15.0	½"	19.9	¾"	8.7	14.0	27.0	29.7	34.3	20L	A2E100	1RA	PVC05	0.08
25	M25	15.0	¾"	20.2	1"	11.5	19.5	36.0	39.6	40.4	25	A2E100	1RA	PVC09	0.16
25L	M25	15.0	¾"	20.2	1"	14.0	20.0	36.0	39.6	39.9	25L	A2E100	1RA	PVC09	0.16
32	M32	15.0	1"	25.0	1 ¼"	19.0	25.5	41.0	45.1	38.5	32	A2E100	1RA	PVC10	0.19
32L	M32	15.0	1"	25.0	1 ¼"	20.2	26.3	41.0	45.1	35.5	32L	A2E100	1RA	PVC10	0.19
40	M40	15.0	1 ¼"	25.6	1 ½"	25.0	32.2	50.0	55.0	38.8	40	A2E100	1RA	PVC13	0.25
50S	M50	15.0	1 ½"	26.1	2"	31.0	38.2	55.0	60.5	41.4	50S	A2E100	1RA	PVC15	0.33
50	M50	15.0	2"	26.9	2 ½"	35.6	44.0	60.0	66.0	45.8	50	A2E100	1RA	PVC18	0.35
63S	M63	15.0	2"	26.9	2 ½"	41.5	49.9	70.5	77.6	43.3	63S	A2E100	1RA	PVC21	0.56
63	M63	15.0	2 ½"	39.9	3"	48.2	54.9	75.0	82.5	43.6	63	A2E100	1RA	PVC23	0.55
75S	M75	15.0	2 ½"	39.9	3"	54.0	61.9	84.0	92.4	45.4	75S	A2E100	1RA	PVC26	0.73
75	M75	15.0	3"	41.5	3 ½"	61.1	67.9	84.0	92.4	49.0	75	A2E100	1RA	PVC26	0.58
90	M90	24.0	3 ½"	42.8	4"	66.6	79.9	108.0	118.8	66.0	90	A2E100	1RA	PVC31	1.71
100	M100	24.0	3 ½"	42.8	4"	76.0	89.0	123.0	135.3	72.2	100	A2E100	1RA	LSF33	2.26
115	M115	24.0	4"	44.0	5"	86.0	97.9	133.4	146.7	67.9	115	A2E100	1RA	LSF34	2.74
130	M130	24.0	5"	46.8	-	97.0	114.9	152.4	167.6	81.1	130	A2E100	1RA	LSF35	4.07

*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'

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

Examples: 32A2E1001RA534 = Nickel Plated Brass 1 1/4" NPT, 50SA2E1001RA035 = Brass 1 1/2" NPT, 25A2E1001RA432 = Stainless Steel 3/4" NPT, 20A2E1001RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



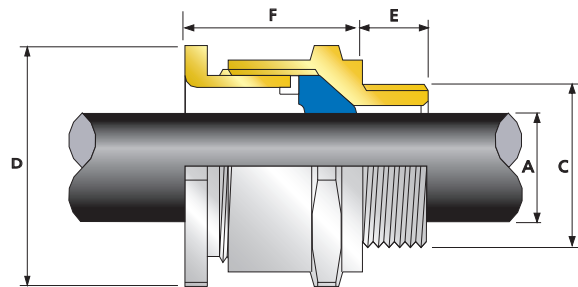
A2F



A2F Globally Approved, Explosive Atmosphere Cable Gland

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



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
ATEX Certificate	SIRA13ATEX1068X, SIRA13ATEX4074X
Code of Protection	⊕ II 2G, II 1D Ex d IIC Gb, Ex e IIC Gb, Ex ta IIC Da ⊕ II 3G Ex nR IIC Gc I M2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0, 1, 7, 15, 31
IECEx Certificate	IECEx SIR 13.0023X, IECEx SIM 14.0006
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	IEC 60079-0, 1, 7, 15, 31
CSA Certificate	1211841
Code of Protection	Class I, Div. 2 Groups B, C and D; Class II, Div. 2 Groups E, F and G; Class III, Div. 2; Type 4X: Oil Resistant II: Ex d IIC, Ex e II, Ex nR II
Compliance Standards	C22.2 No 0, 0.4, 94, 174, CAN/CSA-E60079-0, 1, 7, 15
EAC Certificate (Formerly GOST R, K & B)	TC RU C-GB.ГБ05.В00138
UkrSEPRO	UA.TR.047.C.0644-15
KCS Certificate	13_GA480_0748X; 13_GA480_0749X; 13_GA480_0750X; 14_GA480_0251X
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
INMETRO Approval	TÜV 12.0619X
CCOE / PESO Certificate (India)	P333688
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3), DNV: E-13848, ABS: 14-LD234401A-4-PDA, BV: 43180/A1
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.

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

Cable Gland Selection Table

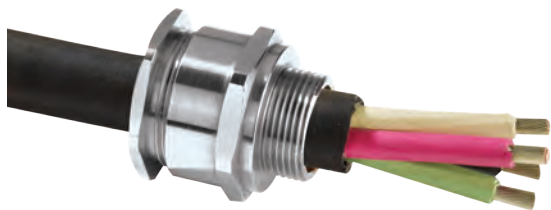
Refer to illustration at the top of the page.

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Overall Cable Diameter "A"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard			Option	Size						Type	Ordering Suffix			
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"		NPT	Min	Max	Max				Max		
16	M16	15.0	-	-	-	3.2	8.7	24.0	26.4	29.9	16	A2F	1RA	PVC04	0.060
20S16	M20	15.0	½"	19.9	¾"	3.2	8.7	24.0	26.4	26.0	20S16	A2F	1RA	PVC04	0.070
20S	M20	15.0	½"	19.9	¾"	6.1	11.7	24.0	26.4	26.0	20S	A2F	1RA	PVC04	0.060
20	M20	15.0	½"	19.9	¾"	6.5	14.0	27.0	29.7	27.7	20	A2F	1RA	PVC05	0.070
25	M25	15.0	¾"	20.2	1"	11.1	20.0	36.0	39.6	35.5	25	A2F	1RA	PVC09	0.130
32	M32	15.0	1"	25.0	1 ¼"	17.0	26.3	41.0	45.1	35.1	32	A2F	1RA	PVC10	0.150
40	M40	15.0	1 ¼"	25.6	1 ½"	23.5	32.2	50.0	55.0	35.1	40	A2F	1RA	PVC13	0.200
50S	M50	15.0	1 ½"	26.1	2"	31.0	38.2	55.0	60.5	33.0	50S	A2F	1RA	PVC15	0.260
50	M50	15.0	2"	26.9	2 ½"	35.6	44.0	60.0	66.0	37.3	50	A2F	1RA	PVC18	0.270
63S	M63	15.0	2"	26.9	2 ½"	41.5	49.9	70.5	77.6	33.5	63S	A2F	1RA	PVC21	0.430
63	M63	15.0	2 ½"	39.9	3"	47.2	55.9	75.0	82.5	36.2	63	A2F	1RA	PVC23	0.400
75S	M75	15.0	2 ½"	39.9	3"	54.0	61.9	84.0	92.4	34.1	75S	A2F	1RA	PVC24	0.520
75	M75	15.0	3"	41.5	3 ½"	61.1	67.9	84.0	92.4	40.9	75	A2F	1RA	PVC26	0.500
90	M90	24.0	3 ½"	42.8	4"	66.6	79.9	108.0	118.8	60.3	90	A2F	1RA	PVC31	1.600
100	M100	24.0	3 ½"	42.8	4"	76.0	91.0	123.0	135.3	57.2	100	A2F	1RA	LSF33	1.780
115	M115	24.0	4"	44.0	5"	86.0	97.9	133.4	146.7	67.3	115	A2F	1RA	LSF34	2.670
130	M130	24.0	5"	46.8	-	97.0	114.9	152.4	167.6	74.7	130	A2F	1RA	LSF35	3.800

*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass "S"; 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: 32A2F1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SA2F1RA035 = Brass 1 ½" NPT, 25A2F1RA432 = Stainless Steel ¾" NPT, 20A2F1RA5 = Nickel Plated Brass M20

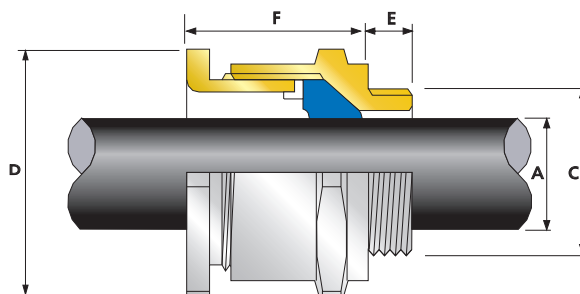
Dimensions are displayed in millimetres unless otherwise stated

**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



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
ATEX Certificate	SIRA13ATEX1068X, SIRA13ATEX4074X
Code of Protection	II 2G Ex e IIC Gb, II 1D Ex ta IIIC Da II 3G Ex nR IIC Gc
Compliance Standards	EN 60079-0,7,31
IECEx Certificate	IECEx SIR 13.0023X, IECEx SIM 14.0006
Code of Protection	Ex e IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc
Compliance Standards	IEC 60079-0,7,31
EAC Certificate	TC RU C-GB.Γ505.B00138
KCS Certificate	13_GA480_0749X; 13_GA480_0750X; 14_GA480_0251X
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
CCOE / PESO (India) Certificate	P333688
Marine Approvals	DNV: E-13848, ABS: 16-LD1478091PDA, LRS: 01/00172 (E3), BV: 43180/A1
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

*** 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.

Dimensions listed below are for metric cable glands only

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

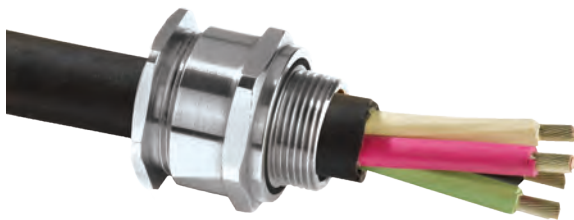
Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Overall Cable Diameter "A"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference ("Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option						Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Min	Max	Max	Max						
16	M16	10.0	-	-	-	3.2	8.7	24.0	26.4	28.6	16	A2E	1RA	PVC02	0.060
20S16	M20	10.0	½"	19.9	¾"	3.2	8.7	24.0	26.4	26.3	20S16	A2E	1RA	PVC04	0.070
20S	M20	10.0	½"	19.9	¾"	6.1	11.7	24.0	26.4	26.0	20S	A2E	1RA	PVC04	0.060
20	M20	10.0	½"	19.9	¾"	6.5	14.0	27.0	29.7	27.7	20	A2E	1RA	PVC05	0.070
25	M25	10.0	¾"	20.2	1"	11.1	20.0	36.0	39.6	36.3	25	A2E	1RA	PVC09	0.130
32	M32	10.0	1"	25.0	1 ¼"	17.0	26.3	41.0	45.1	35.1	32	A2E	1RA	PVC10	0.150
40	M40	15.0	1 ¼"	25.6	1 ½"	23.5	32.2	50.0	55.0	35.1	40	A2E	1RA	PVC13	0.200
50S	M50	15.0	1 ½"	26.1	2"	31.0	38.2	55.0	60.5	33.0	50S	A2E	1RA	PVC15	0.260
50	M50	15.0	2"	26.9	2 ½"	35.6	44.0	60.0	66.0	37.3	50	A2E	1RA	PVC18	0.270
63S	M63	15.0	2"	26.9	2 ½"	41.5	49.9	70.5	77.6	33.5	63S	A2E	1RA	PVC21	0.430
63	M63	15.0	2 ½"	39.9	3"	47.2	55.9	75.0	82.5	36.2	63	A2E	1RA	PVC23	0.400
75S	M75	15.0	2 ½"	39.9	3"	54.0	61.9	84.0	92.4	34.1	75S	A2E	1RA	PVC24	0.520
75	M75	15.0	3"	41.5	3 ½"	61.1	67.9	84.0	92.4	40.9	75	A2E	1RA	PVC26	0.500
90	M90	24.0	3 ½"	42.8	4"	66.6	79.9	108.0	118.8	60.3	90	A2E	1RA	PVC31	1.600
100	M100	24.0	3 ½"	42.8	4"	76.0	91.0	123.0	135.3	57.2	100	A2E	1RA	LSF33	1.780
115	M115	24.0	4"	44.0	5"	86.0	97.9	133.4	146.7	67.3	115	A2E	1RA	LSF34	2.670
130	M130	24.0	5"	46.8	-	97.0	114.9	152.4	167.6	74.7	130	A2E	1RA	LSF35	3.800

*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; 1/2" = 31; 3/4" = 32; 1" = 33; 1 1/4" = 34; 1 1/2" = 35; 2" = 36; 2 1/2" = 37; 3" = 38; 3 1/2" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32A2E1RA534 = Nickel Plated Brass 1 1/4" NPT, 50SA2E1RA035 = Brass 1 1/2" NPT, 25A2E1RA432 = Stainless Steel 3/4" NPT, 20A2E1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



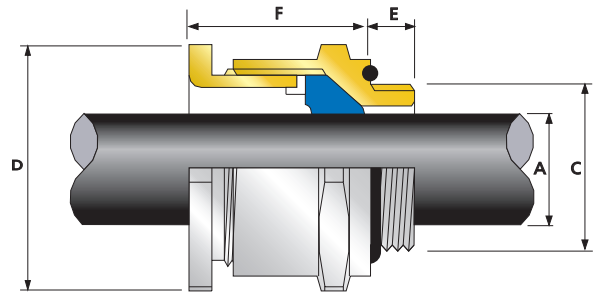
RA2e



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



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
ATEX Certificate	SIRA13ATEX1068X, SIRA13ATEX4074X
Code of Protection	II 2G II 1D Ex e IIC Gb, Ex ta IIIC Da II 3G Ex nR IIC Gc
Compliance Standards	EN 60079-0,7,31
IECEx Certificate	IECEx SIR 13.0023X, IECEx SIM 14.0006
Code of Protection	Ex e IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc
Compliance Standards	IEC 60079-0,7,31
EAC Certificate	TC RU C-GB.7605.B00138
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-LD1478091PDA, LRS: 01/00172 (E3)
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.

*** 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.

Dimensions listed below are for metric cable glands only

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

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Overall Cable Diameter "A"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option						Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Min	Max	Max	Max						
16	M16	10.0	-	-	-	3.2	8.7	27.0	29.7	29.4	16	RA2E	1RA	PVC02	0.060
20S16	M20	10.0	½"	19.9	¾"	3.2	8.7	27.0	29.7	26.2	20S16	RA2E	1RA	PVC04	0.070
20S	M20	10.0	½"	19.9	¾"	6.1	11.7	27.0	29.7	25.9	20S	RA2E	1RA	PVC04	0.060
20	M20	10.0	½"	19.9	¾"	6.5	14.0	27.0	29.7	27.4	20	RA2E	1RA	PVC05	0.070
25	M25	10.0	¾"	20.2	1"	11.1	20.0	36.0	39.6	35.9	25	RA2E	1RA	PVC09	0.130
32	M32	10.0	1"	25.0	1 ¼"	17.0	26.3	41.0	45.1	35.5	32	RA2E	1RA	PVC10	0.150
40	M40	15.0	1 ¼"	25.6	1 ½"	23.5	32.2	50.0	55.0	35.2	40	RA2E	1RA	PVC13	0.200
50S	M50	15.0	1 ½"	26.1	2"	31.0	38.2	60.0	66.0	33.9	50S	RA2E	1RA	PVC15	0.260
50	M50	15.0	2"	26.9	2 ½"	35.6	44.0	60.0	66.0	37.5	50	RA2E	1RA	PVC18	0.270
63S	M63	15.0	2"	26.9	2 ½"	41.5	49.9	75.0	82.5	34.7	63S	RA2E	1RA	PVC21	0.430
63	M63	15.0	2 ½"	39.9	3"	47.2	55.9	75.0	82.5	37.0	63	RA2E	1RA	PVC23	0.400
75S	M75	15.0	2 ½"	39.9	3"	54.0	61.9	90.0	99.0	34.7	75S	RA2E	1RA	PVC24	0.520
75	M75	15.0	3"	41.5	3 ½"	61.1	67.9	89.0	97.9	40.6	75	RA2E	1RA	PVC26	0.500
90	M90	24.0	3 ½"	42.8	4"	66.6	79.9	108.0	118.8	60.3	90	RA2E	1RA	PVC31	1.600
100	M100	24.0	3 ½"	42.8	4"	76.0	91.0	123.0	135.3	54.3	100	RA2E	1RA	LSF33	1.780
115	M115	24.0	4"	44.0	5"	86.0	97.9	133.4	146.7	66.2	115	RA2E	1RA	LSF34	2.670
130	M130	24.0	5"	46.8	-	97.0	114.9	152.4	167.6	74.8	130	RA2E	1RA	LSF35	3.800

*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass 'S'; 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: 32RA2E1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SRA2E1RA035 = Brass 1 ½" NPT, 25RA2E1RA432 = Stainless Steel ¾" NPT, 20RA2E1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



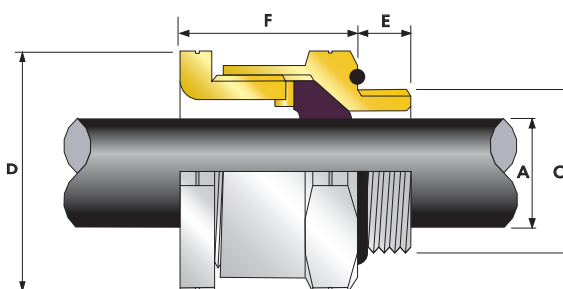
RA2e100



RA2e100 Internationally Approved, Ex e, Explosive Atmosphere Cable Gland

For all types of Unarmoured & Braided Cables

- Supplied with face seal
- 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
- 10mm thread lengths available upon request (sizes 32 and below)
- Supplied with ingress disc



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
ATEX Certificate	SIRA16ATEX3165, SIRA16ATEX4020
Code of Protection	⊕ II 2G Ex eb IIC Gb, II 1D Ex ta IIC Da ⊕ II 3G Ex nRc IIC Gc, ⊕ I M2 Ex eb I Mb
Compliance Standards	EN 60079-0, 7, 15, 31
IECEx Certificate	IECEx SIR 16.0053
Code of Protection	Ex eb IIC Gb, Ex ta IIC Da, Ex nRc IIC Gc, Ex eb I Mb
Compliance Standards	IEC 60079-0, 7, 15, 31
EAC Certificate	TC RU C-GB.F605.B00138
KCC Certificate	13_GA4B0_0749X; 13_GA4B0_0750X; 14_GA4B0_0251X
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
CCOE / PESO (India) Certificate	P333688
Marine Approvals	DNV: E-13848, ABS: 01LD234401B/2PDA, LRS: 01/00172 (E3)
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
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.

*** 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.

Dimensions listed below are for metric cable glands only

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

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Overall Cable Diameter "A"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference ("Brass Metric")			Shroud	Cable Gland Weight (Kgs)
	Standard			Option	Size						Type	Ordering Suffix			
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"		NPT	Min	Max	Max				Max		
16	M16	15.0	-	-	-	3.2	8.0	24.0	26.4	34.9	16	RA2E100	1RA	PVC04	0.07
20S16	M20	15.0	½"	19.9	¾"	3.2	8.0	27.0	29.7	31.4	20S16	RA2E100	1RA	PVC05	0.08
20S	M20	15.0	½"	19.9	¾"	6.5	11.2	27.0	29.7	32.1	20S	RA2E100	1RA	PVC05	0.07
20	M20	15.0	½"	19.9	¾"	7.0	13.5	27.0	29.7	35.8	20	RA2E100	1RA	PVC05	0.08
20L	M20	15.0	½"	19.9	¾"	8.7	14.0	27.0	29.7	34.3	20L	RA2E100	1RA	PVC05	0.08
25	M25	15.0	¾"	20.2	1"	11.5	19.5	36.0	39.6	40.4	25	RA2E100	1RA	PVC09	0.16
25L	M25	15.0	¾"	20.2	1"	14.0	20.0	36.0	39.6	39.9	25L	RA2E100	1RA	PVC09	0.16
32	M32	15.0	1"	25.0	1 ¼"	19.0	25.5	41.0	45.1	38.5	32	RA2E100	1RA	PVC10	0.19
32L	M32	15.0	1"	25.0	1 ¼"	20.2	26.3	41.0	45.1	38.9	32L	RA2E100	1RA	PVC10	0.19
40	M40	15.0	1 ¼"	25.6	1 ½"	25.0	32.2	50.0	55.0	39.1	40	RA2E100	1RA	PVC13	0.25
50S	M50	15.0	1 ½"	26.1	2"	31.0	38.2	60.0	66.0	41.1	50S	RA2E100	1RA	PVC18	0.33
50	M50	15.0	2"	26.9	2 ½"	35.6	44.0	60.0	66.0	45.8	50	RA2E100	1RA	PVC18	0.35
63S	M63	15.0	2"	26.9	2 ½"	41.5	49.9	75.0	82.5	43.3	63S	RA2E100	1RA	PVC23	0.56
63	M63	15.0	2 ½"	39.9	3"	48.2	54.9	75.0	82.5	43.6	63	RA2E100	1RA	PVC23	0.55
75S	M75	15.0	2 ½"	39.9	3"	54.0	61.9	89.9	98.9	45.4	75S	RA2E100	1RA	PVC27	0.73
75	M75	15.0	3"	41.5	3 ½"	61.1	67.9	89.9	98.9	49.0	75	RA2E100	1RA	PVC27	0.58
90	M90	24.0	3 ½"	42.8	4"	66.6	79.9	108.0	118.8	66.0	90	RA2E100	1RA	PVC31	1.71
100	M100	24.0	3 ½"	42.8	4"	76.0	89.0	123.0	135.3	71.2	100	RA2E100	1RA	LSF33	2.26
115	M115	24.0	4"	44.0	5"	86.0	97.9	133.4	146.7	69.9	115	RA2E100	1RA	LSF34	2.74
130	M130	24.0	5"	46.8	-	97.0	114.9	152.4	167.6	81.1	130	RA2E100	1RA	LSF35	4.07

*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'

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

Examples: 32RA2E1001RA534 = Nickel Plated Brass 1 1/4" NPT, 50SRA2E1001RA035 = Brass 1 1/2" NPT, 25RA2E1001RA432 = Stainless Steel 3/4" NPT, 20RA2E1001RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



A2FFC



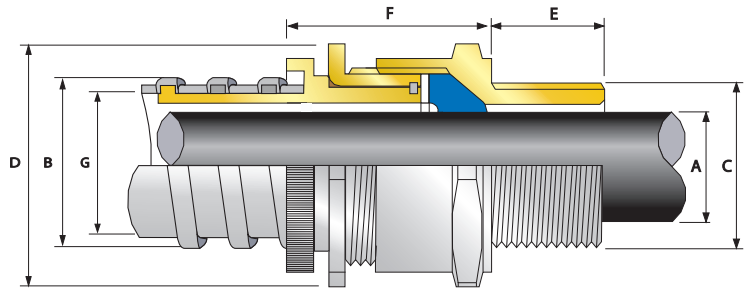
A2FFC Globally Approved, Flexible Conduit Explosive Atmosphere Cable Gland

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
- Globally marked, IECEx, ATEX & CSA



Alternative conduit sizes available upon request.
Ordering Suffix - e.g. C (conduit) 050 (CMP sizing reference)



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
ATEX Certificate	SIRA13ATEX1068X, SIRA13ATEX4074
Code of Protection	Ex II 2G II 1D Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da Ex II 3G Ex nR IIC Gc, I M2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0023X, IECEx SIM 14.0006
Code of Protection	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	IEC 60079-0,1,7,15,31
CSA Certificate	1211841
Code of Protection	Ex d IIC, Ex e II, Ex nR II, Enclosure Type 4x
Compliance Standards	C22.2 No 0,0.4, 94, 174, CAN/CSA-E60079-0,1,7,15
EAC Certificate (Formerly GOST R, K & B)	TC RU C-GB.Г505.В00138
UkrSEPRO	UA.TR.047.C.0644-15
KCS Certificate	13_GA4BO_0748X; 13_GA4BO_0749X; 13_GA4BO_0750X; 14_GA4BO_0251X
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
CCOE / PESO (India) Certificate	P333688
INMETRO Approval	TÜV 12.0878X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3), ABS: 14-LD234401A-4-PDA
Ingress Protection Rating**	IP66
Standard Cable Gland Material	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
Cable Type	Unarmoured & Braided Housed in Flexible Conduit
Sealing Technique	CMP Displacement Seal
Sealing Area(s)	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.

Cable Gland Selection Table

Refer to illustration at the top of the page.

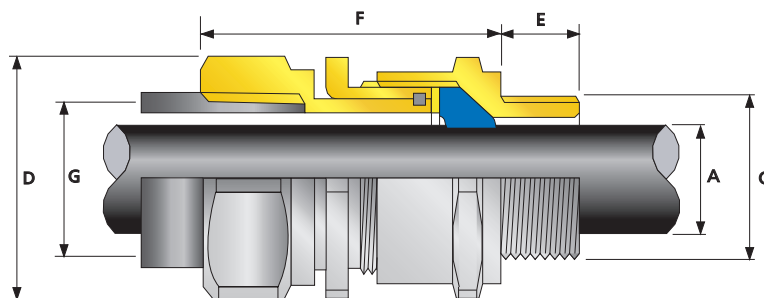
Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Entry Threads "C"	Thread Length (Metric) "E" (Alternate Metric Thread Lengths Available)	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)
			Min	Max			Max	Max				Size	Type	Ordering Suffix	
20S16	M20 x 1.5	15.0	3.2	4.1	5.1	12.0	24.0	26.4	33.2	26.4	20S16	A2FFC	1RAC000		0.09
20S16	M20 x 1.5	15.0	3.2	5.2	6.8	13.0	24.0	26.4	33.2	26.4	20S16	A2FFC	1RAC001		0.09
20S16	M20 x 1.5	15.0	3.2	5.5	7.8	13.0	24.0	26.4	33.2	26.4	20S16	A2FFC	1RAC004		0.09
20S16	M20 x 1.5	15.0	3.2	8.0	9.1	15.0	24.0	26.4	33.2	26.4	20S16	A2FFC	1RAC009		0.08
20S16	M20 x 1.5	15.0	3.2	8.1	9.5	15.0	24.0	26.4	33.2	26.4	20S16	A2FFC	1RAC010		0.09
20S16	M20 x 1.5	15.0	3.2	8.1	10.2	16.0	24.0	26.4	33.2	26.4	20S16	A2FFC	1RAC020		0.09
20S16	M20 x 1.5	15.0	3.2	8.1	10.9	17.0	24.0	26.4	33.2	26.4	20S16	A2FFC	1RAC025		0.09
20S16	M20 x 1.5	15.0	3.2	8.1	11.7	17.4	24.0	26.4	33.2	26.4	20S16	A2FFC	1RAC030		0.09
20S	M20 x 1.5	15.0	6.1	11.4	13.0	20.0	24.0	26.4	33.1	26.4	20S	A2FFC	1RAC040		0.09
20S	M20 x 1.5	15.0	6.1	11.7	13.9	20.0	24.0	26.4	33.1	26.4	20S	A2FFC	1RAC045		0.09
20S	M20 x 1.5	15.0	6.1	11.7	14.7	21.5	24.0	26.4	33.1	26.4	20S	A2FFC	1RAC060		0.09
20	M20 x 1.5	15.0	6.5	13.1	15.6	21.6	27.0	29.7	35.4	29.7	20	A2FFC	1RAC050		0.10
20	M20 x 1.5	15.0	6.5	14.0	16.9	23.4	27.0	29.7	35.4	29.7	20	A2FFC	1RAC066		0.10
20	M20 x 1.5	15.0	6.5	14.0	18.0	24.0	27.0	29.7	35.4	29.7	20	A2FFC	1RAC070		0.10
20	M20 x 1.5	15.0	6.5	14.0	18.7	25.0	27.0	29.7	35.4	29.7	20	A2FFC	1RAC075		0.10
20	M20 x 1.5	15.0	6.5	14.0	20.0	26.3	27.0	29.7	35.4	29.7	20	A2FFC	1RAC080		0.12
20	M20 x 1.5	15.0	6.5	14.0	20.5	28.0	27.0	29.7	35.4	31.0	20	A2FFC	1RAC085		0.11
25	M25 x 1.5	15.0	11.1	15.3	17.6	25.0	36.0	39.6	43.1	39.6	25	A2FFC	1RAC100		0.16
25	M25 x 1.5	15.0	11.1	18.4	20.7	27.0	36.0	39.6	43.1	39.6	25	A2FFC	1RAC105		0.16
25	M25 x 1.5	15.0	11.1	19.0	22.3	28.5	36.0	39.6	43.1	39.6	25	A2FFC	1RAC110		0.17
25	M25 x 1.5	15.0	11.1	20.0	23.7	32.0	36.0	39.6	43.1	39.6	25	A2FFC	1RAC115		0.18
25	M25 x 1.5	15.0	11.1	20.0	25.1	31.0	36.0	39.6	43.1	39.6	25	A2FFC	1RAC120		0.17
25	M25 x 1.5	15.0	11.1	20.0	26.5	35.0	36.0	39.6	43.1	39.6	25	A2FFC	1RAC180		0.18
32	M32 x 1.5	15.0	17.0	26.0	28.1	35.8	41.0	45.1	43.1	45.1	32	A2FFC	1RAC250		0.21
32	M32 x 1.5	15.0	17.0	26.3	30.4	38.0	41.0	45.1	43.1	45.1	32	A2FFC	1RAC280		0.21
32	M32 x 1.5	15.0	17.0	26.3	34.6	45.0	41.0	45.1	43.6	48.0	32	A2FFC	1RAC290		0.25
40	M40 x 1.5	15.0	23.5	32.2	36.4	45.0	50.0	55.0	45.1	55.0	40	A2FFC	1RAC300		0.28
40	M40 x 1.5	15.0	23.5	32.2	40.0	49.0	50.0	55.0	45.1	55.0	40	A2FFC	1RAC380		0.30
50S	M50 x 1.5	15.0	31.0	38.2	46.5	58.7	55.0	60.5	43.8	63.7	50S	A2FFC	1RAC450		0.48
50S	M50 x 1.5	15.0	31.0	38.2	51.2	61.0	55.0	60.5	43.8	65.0	50S	A2FFC	1RAC500		0.49
50	M50 x 1.5	15.0	35.6	44.0	51.2	61.0	60.0	66.0	48.0	66.0	50	A2FFC	1RAC550		0.49

*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; 1/8" = 31, 1/4" = 32, 1" = 33, 1 1/4" = 34, 1 1/2" = 35, 2" = 36, 2 1/2" = 37, 3" = 38, 3 1/2" = 39 (Brass requires prefix "0")

Examples: 32A2FFC1RA534C290 = Nickel Plated Brass 1 1/4" NPT suitable for conduit sized 35.0 ID - 43.0 OD, 50SA2FFC1RA035C500 = Brass 1 1/2" NPT, 20A2FFC1RA5C075 = Nickel Plated Brass M20 suitable for conduit sized 18.7 ID - 24.0 OD

Dimensions are displayed in millimetres unless otherwise stated



A2FRC

Ex e Ex d Ex nR Ex ta

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
- 60°C to +130°C
- Globally marked, IECEx, ATEX & CSA



Alternative conduit sizes available upon request.

See cable gland selection table below for full NPT & Metric thread ordering references

THREAD OPTION ORDERING EXAMPLES

Ordering Reference	Male Thread	Female Thread
20A2FRC1RA	M20	M20
20A2FRC1RA031	M20	1/2" NPT
20A2FRC1RA03131	1/2" NPT	1/2" NPT
20A2FRC1RA03102	1/2" NPT	M20

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. 32A2FRC1RA53405 (1 - 1/4" NPT Male x M40 Female)

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
ATEX Certificate	SIRA13ATEX1068X, SIRA13ATEX4074X
Code of Protection	Ex II 2G II 1D Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da, II 3G Ex nR IIC Gc
Compliance Standards	EN 60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0023X, IECEx SIM 14.0006
Code of Protection	Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da
Compliance Standards	IEC 60079-0,1,7,15,31
CSA Certificate	1211841
Code of Protection	Ex d IIC, Ex e II, Ex nR II, Enclosure Type 4x
Compliance Standards	C22.2 No 0,0.4, 94,174, CAN/CSA-E60079-0,1,7, 15
EAC Certificate	TC RU C-GB.T605.B00138
UkrSEPRO	UA.TR.047.C.0644-15
KCS Certificate	13_GA4BO_0748X; 13_GA4BO_0749X; 13_GA4BO_0750X; 14_GA4BO_0251X
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GY13.1140X / GY13.1282X
INMETRO Approval	TUV 12.0878X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3), DNV: E-13848, BV: 43180/A1
Ingress Protection Rating**	IP66
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel
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.

Cable Gland Selection Table

Refer to illustration at the top of the page.

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Female Connection Thread "G"	Female Connection Thread (NPT) "G"	Overall Cable Diameter "A"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric male and female)			Shroud	Cable Gland Weight (Kgs)		
	Standard				Option			Min	Max				Max	Max	Size			Type	Ordering Suffix
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT														
20S16	M20	15.0	½"	19.9	¾"	M20	½"	3.2	8.7	24.0	26.4	46.9	20S16	A2FRC	1RA	PVC04	0.110		
20S	M20	15.0	½"	19.9	¾"	M20	½"	6.1	11.7	24.0	26.4	46.1	20S	A2FRC	1RA	PVC04	0.110		
20	M20	15.0	½"	19.9	¾"	M20	½"	6.5	14.0	27.0	29.7	47.9	20	A2FRC	1RA	PVC05	0.110		
25	M25	15.0	¾"	20.2	1"	M25	¾"	11.1	20.0	36.0	39.6	56.1	25	A2FRC	1RA	PVC09	0.200		
32	M32	15.0	1"	25.0	1 ¼"	M32	1"	17.0	26.3	41.0	45.1	55.5	32	A2FRC	1RA	PVC10	0.240		
40	M40	15.0	1 ¼"	25.6	1 ½"	M40	1 ¼"	23.5	32.2	50.0	55.0	57.7	40	A2FRC	1RA	PVC13	0.330		
50S	M50	15.0	1 ½"	26.1	2"	M50	1 ½"	31.0	38.2	55.0	60.5	59.1	50S	A2FRC	1RA	PVC15	0.430		
50	M50	15.0	2"	26.9	2 ½"	M50	2"	35.6	44.0	60.0	66.0	64.3	50	A2FRC	1RA	PVC18	0.440		
63S	M63	15.0	2"	26.9	2 ½"	M63	2"	41.5	49.9	70.5	77.6	61.6	63S	A2FRC	1RA	PVC21	0.720		
63	M63	15.0	2 ½"	39.9	3"	M63	2 ½"	47.2	55.9	75.0	82.5	71.0	63	A2FRC	1RA	PVC23	0.640		
75S	M75	15.0	2 ½"	39.9	3"	M75	2 ½"	54.0	61.9	84.0	92.4	70.1	75S	A2FRC	1RA	PVC26	0.960		
75	M75	15.0	3"	41.5	3 ½"	M75	3"	61.1	67.9	84.0	92.4	73.2	75	A2FRC	1RA	PVC26	0.860		
90	M90	24.0	3 ½"	42.8	4"	M90	3 ½"	66.6	79.9	108.0	118.8	106.3	90	A2FRC	1RA	PVC31	2.250		
100	M100	24.0	3 ½"	42.8	4"	M100	3 ½"	76.0	91.0	123.0	135.5	115.8	100	A2FRC	1RA	LSF33	3.860		
115	M115	24.0	4"	44.0	5"	M115	4"	86.0	97.9	133.4	146.7	117.3	115	A2FRC	1RA	LSF34	4.500		
130	M130	24.0	5"	46.8	-	M130	5"	97.0	114.9	152.4	167.6	120.0	130	A2FRC	1RA	LSF35	4.770		

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

For NPT male and / or female options please add the following digits to the material suffix (See Thread Options table above) 1/2" = 31, 3/4" = 32, 1" = 33, 1 1/4" = 34, 1 1/2" = 35, 2" = 36, 2 1/2" = 37, 3" = 38, 3 1/2" = 39, 4" = 310 (Brass requires prefix '0').

NPT male & Metric female product option is required, please add the following digits to the material and NPT male suffix (See Thread Options table) M16=01, M20=02, M25=03, M32=04, M40=05, M50=06, M63=07, M75=08, M90=09 (Brass requires prefix '0').

Examples: 32A2FRC1RA533 = Nickel Plated Brass M32 male x 1" NPT female, 20S16A2FRC1RA031 = Brass M20 male x 1/2" NPT female, 25A2FRC1RA43202 = Stainless Steel 1/4" NPT male x M25 female, 20A2FRC1RA5 = Nickel Plated Brass M20 male & female

Dimensions are displayed in millimetres unless otherwise stated



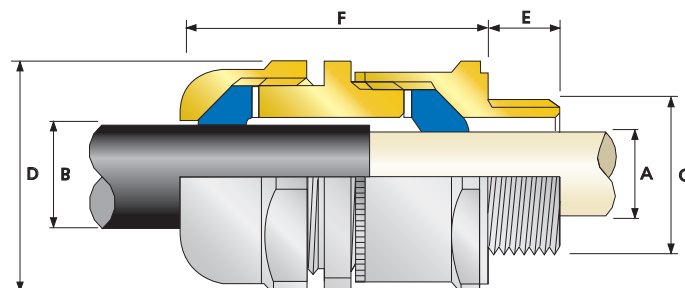
SS2K



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
- Deluge protected
- Secure against self-loosening
- -60°C to +130°C (standard), -20°C to 200°C (ThermEx option)
- Ex e only version available
- Globally marked, IECEx, ATEX & CSA



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
ATEX Certificate	SIRA13ATEX1069X, SIRA13ATEX4075X
Code of Protection	Ex II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da Ex II 3G Ex nR IIC Gc, Ex IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0024X, IECEx SIM 14.0006
Code of Protection	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	IEC 60079-0,1,7,15,31
CSA Certificate	1211841
Code of Protection	Ex d IIC, Ex e II, Ex nR II, Enclosure Type 4x Class I, Div. 2, Groups B,C & D
Compliance Standards	C22.2 No 0,0,4, 94, 174, CAN/CSA-E60079-0,1,7, 15
EAC Certificate	TC RU C-GB.ГБ05.В00138
UkrSEPRO	UA.TR.047.C.0644-15
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
CCOE / PESO (India) Certificate	P333688
INMETRO Approval	TÜV 12.0879X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3), DNV: E-13848, ABS: 14-LD234401A-4-PDA, BV: 43180/A1
Ingress Protection Rating**	IP66, IP67 & IP68***
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 Inner Bedding & Outer Cable Sheath, Double Seal on 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.

*** 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.

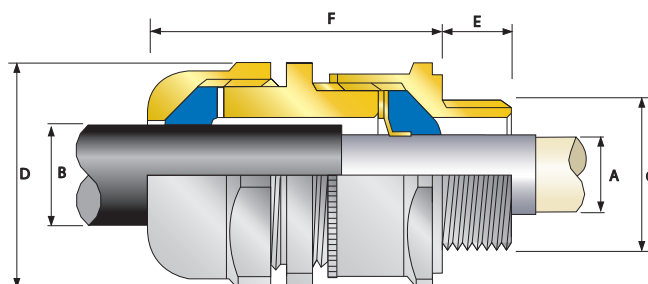
Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Cable Bedding Diameter "A"		Overall Cable Diameter "B"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard			Option	Size								Type	Ordering Suffix			
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"		NPT	Min	Max	Min	Max	Max				Max		
20S16	M20	15.0	½"	19.9	¾"	3.2	8.6	3.2	8.6	24.0	26.4	49.0	20S16	SS2K	1RA	PVC04	0.140
20S	M20	15.0	½"	19.9	¾"	6.1	11.7	6.1	11.7	24.0	26.4	49.0	20S	SS2K	1RA	PVC04	0.130
20	M20	15.0	½"	19.9	¾"	6.5	14.0	6.5	14.0	27.0	29.7	54.0	20	SS2K	1RA	PVC05	0.160
25	M25	15.0	¾"	20.2	1"	11.1	20.0	11.1	20.0	36.0	39.6	66.0	25	SS2K	1RA	PVC09	0.300
32	M32	15.0	1"	25.0	1 ¼"	17.0	26.3	17.0	26.3	41.0	45.1	67.0	32	SS2K	1RA	PVC10	0.350
40	M40	15.0	1 ¼"	25.6	1 ½"	23.5	32.1	23.5	32.1	50.0	55.0	70.0	40	SS2K	1RA	PVC13	0.500
50S	M50	15.0	1 ½"	26.1	2"	31.0	38.2	31.0	38.2	55.0	60.5	65.0	50S	SS2K	1RA	PVC15	0.560
50	M50	15.0	2"	26.9	2 ½"	35.6	44.0	35.6	44.0	60.0	66.0	70.0	50	SS2K	1RA	PVC18	0.590
63S	M63	15.0	2"	26.9	2 ½"	41.5	49.9	41.5	49.9	70.5	77.6	70.0	63S	SS2K	1RA	PVC21	0.890
63	M63	15.0	2 ½"	39.9	3"	47.2	55.9	47.2	55.9	75.0	82.5	71.0	63	SS2K	1RA	PVC23	0.850
75S	M75	15.0	2 ½"	39.9	3"	54.0	61.9	54.0	61.9	80.0	88.0	70.0	75S	SS2K	1RA	PVC25	1.020
75	M75	15.0	3"	41.5	3 ½"	61.1	67.9	61.1	67.9	84.0	92.4	75.0	75	SS2K	1RA	PVC26	0.990
90	M90	24.0	3 ½"	42.8	4"	66.6	79.4	66.6	79.4	108.0	118.8	113.0	90	SS2K	1RA	PVC31	2.990
100	M100	24.0	3 ½"	42.8	4"	76.0	90.9	76.0	90.9	123.0	134.2	106.0	100	SS2K	1RA	LSF33	3.390
115	M115	24.0	4"	44.0	5"	86.0	97.9	86.0	97.9	133.4	146.7	128.0	115	SS2K	1RA	LSF34	5.320
130	M130	24.0	5"	46.8	-	97.0	114.9	97.0	114.9	152.4	167.6	129.0	130	SS2K	1RA	LSF35	6.350

*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass 'S'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; 1/2" = 31; 3/4" = 32; 1" = 33; 1 1/4" = 34; 1 1/2" = 35; 2" = 36; 2 1/2" = 37; 3" = 38; 3 1/2" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32SS2K1RA534 = Nickel Plated Brass 1 1/4" NPT, 50SSS2K1RA035 = Brass 1 1/2" NPT, 25SSS2K1RA432 = Stainless Steel 3/4" NPT, 20SSS2K1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



SS2KPB



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
- 60°C to +130°C
- 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 B
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ATEX Certificate	SIRA13ATEX1069X, SIRA13ATEX4075X
Code of Protection	Ⓜ II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da Ⓜ II 3G Ex nR IIC Gc, Ⓜ IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0, 1, 7, 15, 31
IECEx Certificate	IECEx SIR 13.0024X, IECEx SIM 14.0006
Code of Protection	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	IEC 60079-0, 1, 7, 15, 31
EAC Certificate	TC RU C-GB.ГБ05.В00138
UkrSEPRO	UA.TR.047.C.0644-15
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
CCOE / PESO (India) Certificate	P333688
INMETRO Approval	TÜV 12.0879X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3), DNV: E-13848, ABS: 14-LD234401A-4-PDA, BV: 43180/A1
Ingress Protection Rating**	IP66, IP67 & IP68***
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
Cable Type	Unarmoured & Lead Sheathed, Lead Covered
Sealing Technique	CMP Unique Displacement Seal Concept
Sealing Area(s)	Cable Inner Lead Sheath or Lead Covering and 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.

*** 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 Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Diameter over Lead Sheath "A"		Overall Cable Diameter "B"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option	Min	Max	Min	Max	Max	Max		Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric)"E"	NPT	Thread Length (NPT)"E"	NPT												
20S16	M20	15.0	½"	19.9	¾"	3.2	7.8	3.2	8.6	24.0	26.4	49.5	20S16	SS2KPB	1RA	PVC04	0.14
20S	M20	15.0	½"	19.9	¾"	6.1	11.0	6.1	11.7	24.0	26.4	49.5	20S	SS2KPB	1RA	PVC04	0.13
20	M20	15.0	½"	19.9	¾"	6.5	13.4	6.5	14.0	27.0	29.7	54.5	20	SS2KPB	1RA	PVC05	0.16
25	M25	15.0	¾"	20.2	1"	11.1	19.3	11.1	20.0	36.0	39.6	66.5	25	SS2KPB	1RA	PVC09	0.30
32	M32	15.0	1"	25.0	1 ¼"	17.0	25.5	17.0	26.3	41.0	45.1	67.5	32	SS2KPB	1RA	PVC10	0.36
40	M40	15.0	1 ¼"	25.6	1 ½"	23.5	31.2	23.5	32.1	50.0	55.0	70.5	40	SS2KPB	1RA	PVC13	0.51
50S	M50	15.0	1 ½"	26.1	2"	31.0	37.2	31.0	38.2	55.0	60.5	65.5	50S	SS2KPB	1RA	PVC15	0.57
50	M50	15.0	2"	26.9	2 ½"	35.6	42.6	35.6	44.0	60.0	66.0	70.5	50	SS2KPB	1RA	PVC18	0.60
63S	M63	15.0	2"	26.9	2 ½"	41.5	48.5	41.5	49.9	70.5	77.6	70.5	63S	SS2KPB	1RA	PVC21	0.90
63	M63	15.0	2 ½"	39.9	3"	47.2	54.2	47.2	55.9	75.0	82.5	71.5	63	SS2KPB	1RA	PVC23	0.86
75S	M75	15.0	2 ½"	39.9	3"	54.0	60.2	54.0	61.9	80.0	88.0	70.5	75S	SS2KPB	1RA	PVC25	1.03
75	M75	15.0	3"	41.5	3 ½"	61.1	65.2	61.1	67.9	84.0	92.4	75.5	75	SS2KPB	1RA	PVC26	1.00
90	M90	24.0	3 ½"	42.8	4"	66.6	77.1	66.6	79.4	108.0	118.8	113.5	90	SS2KPB	1RA	PVC31	3.01
100	M100	24.0	3 ½"	42.8	4"	76.0	88.1	76.0	90.9	123.0	134.2	106.5	100	SS2KPB	1RA	LSF33	3.41
115	M115	24.0	4"	44.0	5"	86.0	94.1	86.0	97.9	133.4	146.7	128.5	115	SS2KPB	1RA	LSF34	5.35
130	M130	24.0	5"	46.8	-	97.0	110.1	97.0	114.9	152.4	167.6	129.5	130	SS2KPB	1RA	LSF35	6.39

*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: 32SS2KPB1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SSS2KPB1RA035 = Brass 1 ½" NPT, 25SS2KPB1RA432 = Stainless Steel ¾" NPT, 20SS2KPB1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



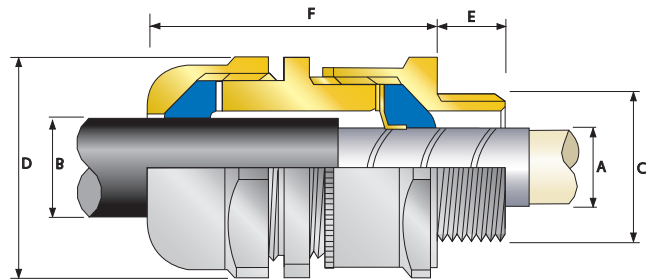
SS2KTA



SS2KTA Double Seal, Ex e, Internationally Approved, Explosive Atmosphere Cable Gland

For all types of Tape Armoured Cables

- Effectively earths / grounds tape armour cables
- Direct & remote installation
- Superior levels of cable retention
- Displacement type flameproof seals
- Secure against self-loosening
- 60°C to +130°C
- 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 B
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ATEX Certificate	SIRA13ATEX1069X, SIRA13ATEX4075X
Code of Protection	II 2G II 1D Ex e IIC Gb, Ex ta IIIC Da II 3G Ex nR IIC Gc
Compliance Standards	EN 60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0024X, IECEx SIM 14.0006
Code of Protection	Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da
Compliance Standards	IEC 60079-0,1,7,15,31
EAC Certificate	TC RU C-GB.ГБ05.В00138
UkrSEPRO	UA.TR.047.C.0644-15
CCOE / PESO (India) Certificate	P333688
INMETRO Approval	TUV 12.0879X
Ingress Protection Rating**	IP66, IP67 & IP68***
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Aluminium, 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

* 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.

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

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Diameter over Tape Armour "A"		Overall Cable Diameter "B"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option								Size				
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Min	Max	Min	Max	Max	Max		Size	Type	Ordering Suffix		
20S16	M20	15.0	½"	19.9	¾"	3.2	7.8	3.2	8.6	24.0	26.4	49.5	20S16	SS2KTA	1RA	PVC04	0.14
20S	M20	15.0	½"	19.9	¾"	6.1	11.0	6.1	11.7	24.0	26.4	49.5	20S	SS2KTA	1RA	PVC04	0.13
20	M20	15.0	½"	19.9	¾"	6.5	13.4	6.5	14.0	27.0	29.7	54.5	20	SS2KTA	1RA	PVC05	0.16
25	M25	15.0	¾"	20.2	1"	11.1	19.3	11.1	20.0	36.0	39.6	66.5	25	SS2KTA	1RA	PVC09	0.30
32	M32	15.0	1"	25.0	1 ¼"	17.0	25.5	17.0	26.3	41.0	45.1	67.5	32	SS2KTA	1RA	PVC10	0.36
40	M40	15.0	1 ¼"	25.6	1 ½"	23.5	31.2	23.5	32.1	50.0	55.0	70.5	40	SS2KTA	1RA	PVC13	0.51
50S	M50	15.0	1 ½"	26.1	2"	31.0	37.2	31.0	38.2	55.0	60.5	65.5	50S	SS2KTA	1RA	PVC15	0.57
50	M50	15.0	2"	26.9	2 ½"	35.6	42.6	35.6	44.0	60.0	66.0	70.5	50	SS2KTA	1RA	PVC18	0.60
63S	M63	15.0	2"	26.9	2 ½"	41.5	48.5	41.5	49.9	70.5	77.6	70.5	63S	SS2KTA	1RA	PVC21	0.90
63	M63	15.0	2 ½"	39.9	3"	47.2	54.2	47.2	55.9	75.0	82.5	71.5	63	SS2KTA	1RA	PVC23	0.86
75S	M75	15.0	2 ½"	39.9	3"	54.0	60.2	54.0	61.9	80.0	88.0	70.5	75S	SS2KTA	1RA	PVC25	1.03
75	M75	15.0	3"	41.5	3 ½"	61.1	65.2	61.1	67.9	84.0	92.4	75.5	75	SS2KTA	1RA	PVC26	1.00
90	M90	24.0	3 ½"	42.8	4"	66.6	77.1	66.6	79.4	108.0	118.8	113.5	90	SS2KTA	1RA	PVC31	3.01
100	M100	24.0	3 ½"	42.8	4"	76.0	88.1	76.0	90.9	123.0	134.2	106.5	100	SS2KTA	1RA	LSF33	3.41
115	M115	24.0	4"	44.0	5"	86.0	94.1	86.0	97.9	133.4	146.7	128.5	115	SS2KTA	1RA	LSF34	5.35
130	M130	24.0	5"	46.8	-	97.0	110.1	97.0	114.9	152.4	167.6	129.5	130	SS2KTA	1RA	LSF35	6.39

*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass 'S'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; 1/2" = 31, 3/4" = 32; 1" = 33; 1 1/4" = 34; 1 1/2" = 35; 2" = 36; 2 1/2" = 37; 3" = 38; 3 1/2" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32SS2KTA1RA534 = Nickel Plated Brass 1 1/4" NPT, 50SS2KTA1RA035 = Brass 1 1/2" NPT, 25SS2KTA1RA432 = Stainless Steel 3/4" NPT, 20SS2KTA1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

**C2K**

C2K Internationally Approved, Ex e, Explosive Atmosphere Cable Gland

For all types of Armoured cables

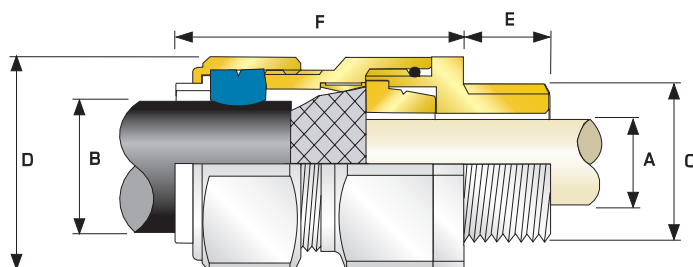
- Metal-to-metal armour clamping
- Direct & remote installation
- Integral protected deluge seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Integral protected deluge seal
- -60°C to +130°C (standard), -20°C to 200°C (ThermEx option)
- Internationally marked, IECEx & ATEX
- Superior EMC performance



† Grooved Cone (X) is 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), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) 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 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.

Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.



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	SIRA13ATEX1070X
Code of Protection	Ex II 2G, II 1D, Ex e IIC Gb, Ex ta IIIC Da
Compliance Standards	EN 60079-0, 7, 31
IECEx Certificate	IECEx SIR 13.0025X
Code of Protection	Ex e IIC Gb, Ex ta IIIC Da
Compliance Standards	IEC 60079-0, 7, 31
EAC Certificate	TC RU C-GB.1605.B00138
UkrSEPRO	UA.TR.047.C.0644-15
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GY113.1140X
INMETRO Approval	TUV 12.0617X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3) DNV: E-13848 ABS: 16-LD1478091PDA, BV: 43180/A1
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	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 (EMC) Wire Braid (e.g. CY / SY), Armoured & Jacketed
Armour Clamping	Reversible Armour Cone & AnyWay Universal Clamping Ring
Sealing Technique	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
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.

*** 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.

Dimensions listed below are for metric cable glands only

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

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Cable Bedding Diameter "A"	Overall Cable Diameter "B"		Armour Range †				Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option				Grooved Cone (X)		Stepped Cone (W)					Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"		NPT	Max	Min	Max	Min	Max	Min	Max	Max						
20S16	M20	15.0	½"	19.9	¾"	8.7	6.1	13.1	0.3	1.0	0.8	1.25	30.5	33.6	65.0	20S16	C2K	1RA	PVC04	0.23
20S	M20	15.0	½"	19.9	¾"	11.7	9.5	15.9	0.3	1.0	0.8	1.25	30.5	33.6	62.0	20S	C2K	1RA	PVC04	0.24
20	M20	15.0	½"	19.9	¾"	14.0	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	63.0	20	C2K	1RA	PVC06	0.22
25S	M25	15.0	¾"	20.2	1"	20.0	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	69.5	25S	C2K	1RA	PVC09	0.35
25	M25	15.0	¾"	20.2	1"	20.0	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	69.5	25	C2K	1RA	PVC09	0.35
32	M32	15.0	1"	25.0	1 ¼"	26.0	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	75.0	32	C2K	1RA	PVC11	0.55
40	M40	15.0	1 ¼"	25.6	1 ½"	32.2	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	75.0	40	C2K	1RA	PVC15	0.75
50S	M50	15.0	1 ½"	26.1	2"	38.2	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	77.0	50S	C2K	1RA	PVC18	0.86
50	M50	15.0	2"	26.9	2 ½"	44.1	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	77.0	50	C2K	1RA	PVC21	1.13
63S	M63	15.0	2"	26.9	2 ½"	50.0	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	80.0	63S	C2K	1RA	PVC23	1.35
63	M63	15.0	2 ½"	39.9	3"	56.0	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	80.0	63	C2K	1RA	PVC25	1.34
75S	M75	15.0	2 ½"	39.9	3"	62.0	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	87.0	75S	C2K	1RA	PVC28	2.02
75	M75	15.0	3"	41.5	3 ½"	64.2	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	88.0	75	C2K	1RA	PVC30	2.48
90	M90	24.0	3 ½"	42.8	4"	78.6	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	102.0	90	C2K	1RA	PVC32	3.52
100	M100	24.0	3 ½"	42.8	4"	91.0	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	114.0	100	C2K	1RA	LSF33	4.58
115	M115	24.0	4"	44.0	5"	98.0	101.5	110.2	0.8	1.6	3.15	4.0	133.4	146.7	114.0	115	C2K	1RA	LSF34	6.50
130	M130	24.0	5"	46.8	-	115.0	110.2	123.2	0.8	1.6	3.15	4.0	152.4	167.6	114.0	130	C2K	1RA	LSF35	8.50

*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass 'S'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; 1/2" = 31; 3/4" = 32; 1" = 33; 1 1/4" = 34; 1 1/2" = 35; 2" = 36; 2 1/2" = 37; 3" = 38; 3 1/2" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32C2K1RA534 = Nickel Plated Brass 1 1/4" NPT, 50S2C2K1RA035 = Brass 1 1/2" NPT, 25C2K1RA432 = Stainless Steel 3/4" NPT, 20C2K1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



CXe



CXe Internationally Approved, Ex e, Explosive Atmosphere Cable Gland

For Braided & Steel Tape Armoured Cables

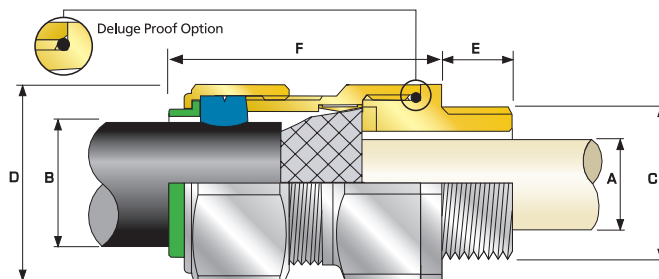
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60°C to +130°C
- Internationally marked, IECEx & ATEX
- Superior EMC performance



Deluge Proof version available, ferrule colour coded white for ease of identification, please add "D" after the product type.

† Grooved Cone (X) is 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), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) 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 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.



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	SIRA13ATEX1070X
Code of Protection	⊕ II 2G, II 1D, Ex e IIC Gb, Ex ta IIIC Da
Compliance Standards	EN 60079-0,7,31
IECEx Certificate	IECEx SIR 13.0025X
Code of Protection	Ex e IIC Gb, Ex ta IIIC Da
Compliance Standards	IEC 60079-0,7,31
EAC Certificate	TC RU C-GB.1605.B00138
UkrSEPRO	UA.TR.047.C.0644-15
NEPSI Certificate	GY13.1140X
INMETRO Approval	TÜV 12.0617X
CCOE / PESO (India) Certificate	P333688
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3) DNV: E-13848 ABS: 16-LD1478091PDA, BV: 43180/A1
Ingress Protection Rating**	IP66 as standard (IP67, IP68*** available upon request)
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
Cable Type	Wire Braid Armour (e.g. SWB), Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Strip Armour (e.g. ASA)
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

* 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 Size	Available Entry Threads "C"		Cable Bedding Diameter "A"	Overall Cable Diameter "B"			Armour Range † Grooved Cone (X)		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Metric	Thread Length (Metric) "E"		Max	Min	Max	Min	Max				Size	Type	Ordering Suffix		
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	
20S	M20	15.0	11.7	9.5	15.9	0.3	1.0	24.0	26.4	48.0	20S	CXE	1RA	PVC04	0.10	
20	M20	15.0	14.0	12.5	20.9	0.4	1.0	30.5	33.6	48.0	20	CXE	1RA	PVC06	0.15	
25S	M25	15.0	20.0	14.0	22.0	0.4	1.2	37.5	41.3	56.0	25S	CXE	1RA	PVC09	0.22	
25	M25	15.0	20.0	18.2	26.2	0.4	1.2	37.5	41.3	56.0	25	CXE	1RA	PVC09	0.22	
32	M32	15.0	26.0	23.7	33.9	0.4	1.2	46.0	50.6	54.0	32	CXE	1RA	PVC11	0.31	
40	M40	15.0	32.2	27.9	40.4	0.4	1.6	55.0	60.5	58.0	40	CXE	1RA	PVC15	0.45	
50S	M50	15.0	38.2	35.2	46.7	0.4	1.6	60.0	66.0	61.0	50S	CXE	1RA	PVC18	0.57	
50	M50	15.0	44.1	40.4	53.0	0.6	1.6	70.1	77.1	60.0	50	CXE	1RA	PVC21	0.75	
63S	M63	15.0	50.0	45.6	59.4	0.6	1.6	75.0	82.5	74.0	63S	CXE	1RA	PVC23	1.04	
63	M63	15.0	56.0	54.6	65.8	0.6	1.6	80.0	88.0	71.0	63	CXE	1RA	PVC25	1.02	
75S	M75	15.0	62.0	59.0	72.0	0.6	1.6	90.0	99.0	86.0	75S	CXE	1RA	PVC28	1.79	
75	M75	15.0	64.2	66.7	78.4	0.6	1.6	100.0	110.0	82.0	75	CXE	1RA	PVC30	2.09	
90	M90	24.0	78.6	76.2	90.3	0.8	1.6	114.3	125.7	95.0	90	CXE	1RA	PVC32	3.04	
100	M100	24.0	91.0	86.1	101.4	0.8	1.6	123.0	135.3	95.0	100	CXE	1RA	LSF33	3.13	
115	M115	24.0	98.0	101.5	110.2	0.8	1.6	133.4	146.7	107.5	115	CXE	1RA	LSF34	4.48	
130	M130	24.0	115.0	110.2	123.2	0.8	1.6	152.4	167.6	110.0	130	CXE	1RA	LSF35	5.77	

* For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass 'S'; 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: 32CXE1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SCXE1RA035 = Brass 1 ½" NPT, 25CXE1RA432 = Stainless Steel ¾" NPT, 20CXE1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

**CWe**

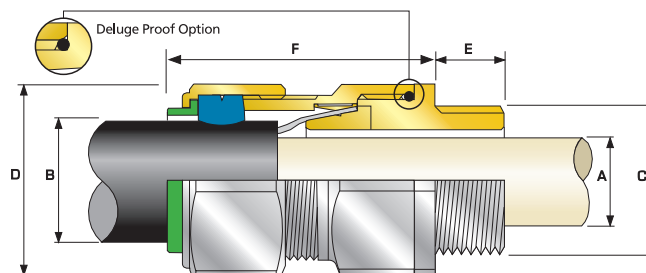
CWe Internationally Approved, Ex e, Explosive Atmosphere Cable Gland

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



Deluge Proof version available, ferrule colour coded white for ease of identification, please add "D" after the product type.



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	SIRA13ATEX1070X
Code of Protection	Ⓔ II 2G, II 1D, Ex e IIC Gb, Ex ta IIIC Da
Compliance Standards	EN 60079-0,7,31
IECEx Certificate	IECEx SIR 13.0025X
Code of Protection	Ex e IIC Gb, Ex ta IIIC Da
Compliance Standards	IEC 60079-0,7,31
EAC Certificate	TC RU C-GB.ГБ05.В00138
UkrSEPRO	UA.TR.047.C.0644-15
NEPSI Certificate	GYJ13.1140X
CCOE / PESO (India) Certificate	P333688
INMETRO Approval	TÜV 12.0617X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3) DNV: E-13848 ABS: 16-LD1478091PDA, BV: 43180/A1
Ingress Protection Rating**	IP66 as standard (IP67, IP68*** available upon request)
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel
Seal Material	CMP SOLO LSF 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 (LRS)
Sealing Area(s)	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

Cable Gland Selection Table

Refer to illustration at the top of the page.

Cable Gland Size	Metric	Thread Length (Metric) "E"	Cable Bedding Diameter "A"	Overall Cable Diameter "B"		Armour Range		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
			Max	Min	Max	Min	Max	Max	Max		Size	Type	Ordering Suffix		
20S16	M20	15.0	8.7	6.1	13.1	0.8	1.25	24.0	26.4	48.0	20S16	CWE	1RA	PVC04	0.10
20S	M20	15.0	11.7	9.5	15.9	0.8	1.25	24.0	26.4	48.0	20S	CWE	1RA	PVC04	0.10
20	M20	15.0	14.0	12.5	20.9	0.8	1.25	30.5	33.6	48.0	20	CWE	1RA	PVC06	0.15
25S	M25	15.0	20.0	14.0	22.0	1.25	1.6	37.5	41.3	56.0	25S	CWE	1RA	PVC09	0.22
25	M25	15.0	20.0	18.2	26.2	1.25	1.6	37.5	41.3	56.0	25	CWE	1RA	PVC09	0.22
32	M32	15.0	26.0	23.7	33.9	1.6	2.0	46.0	50.6	54.0	32	CWE	1RA	PVC11	0.31
40	M40	15.0	32.2	27.9	40.4	1.6	2.0	55.0	60.5	58.0	40	CWE	1RA	PVC15	0.45
50S	M50	15.0	38.2	35.2	46.7	2.0	2.5	60.0	66.0	61.0	50S	CWE	1RA	PVC18	0.57
50	M50	15.0	44.1	40.4	53.0	2.0	2.5	70.1	77.1	60.0	50	CWE	1RA	PVC21	0.75
63S	M63	15.0	50.0	45.6	59.4	2.0	2.5	75.0	82.5	74.0	63S	CWE	1RA	PVC23	1.04
63	M63	15.0	56.0	54.6	65.8	2.0	2.5	80.0	88.0	71.0	63	CWE	1RA	PVC25	1.02
75S	M75	15.0	62.0	59.0	72.0	2.0	2.5	90.0	99.0	86.0	75S	CWE	1RA	PVC28	1.79
75	M75	15.0	64.2	66.7	78.4	2.5	3.0	100.0	110.0	82.0	75	CWE	1RA	PVC30	2.09
90	M90	24.0	78.6	76.2	90.3	3.15	4.0	114.3	125.7	95.0	90	CWE	1RA	PVC32	3.04
100	M100	24.0	91.0	86.1	101.4	3.15	4.0	123.0	135.3	95.0	100	CWE	1RA	LSF33	3.13
115	M115	24.0	98.0	101.5	110.2	3.15	4.0	133.4	146.7	107.5	115	CWE	1RA	LSF34	4.48
130	M130	24.0	115.0	110.2	123.2	3.15	4.0	152.4	167.6	110.0	130	CWE	1RA	LSF35	5.76

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

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

Examples: 32CWE1RA534 = Nickel Plated Brass 1 1/4" NPT, 50SCWE1RA035 = Brass 1 1/2" NPT, 25CWE1RA432 = Stainless Steel 3/4" NPT, 20CWE1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



TE1FU



TE1FU Globally Approved, Explosive Atmosphere Cable Gland

For all types of Armoured Cables

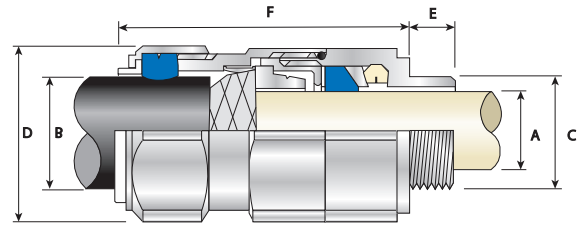
- Stainless steel compact design
- Fully sequential, three step installation procedure
- Reduces installation times, cost & risk
- Direct & remote installation
- Unique compensating displacement seal system(CDS)
- Metal-to-metal installation regardless of cable bedding diameter
- Integral protected deluge seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60°C to +130°C
- Globally marked, IECEx, ATEX & cCSAus
- Superior EMC performance



† Grooved Cone (X) is 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), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) 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 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.

Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.



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	SIRA13ATEX1073X, SIRA13ATEX4079X
Code of Protection	II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da, II 3G Ex nR IIC Gc, I M2, Ex d I Mb, Ex e I Mb
Compliance Standards	EN60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0028X, IECEx SIM 14.0007X
Code of Protection	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	IEC 60079-0,1,7,15,31
cCSAus Certificate (20S16 - 90)	1310517
CSAus 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, 4 and 4X, Class I, Zone 1, AEx e II, AEx nR II
cCSA 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, 4 and 4X, Ex d IIC, Ex e IIC, Ex nR II
Compliance Standards	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-E60079-0, 1, 7, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0, 1, 7
EAC Certificate	TC RU C-GB, GB05.800138
NEPSI Certificate	GYJ13.1141X / GYJ13.1283X
CCOE / PESO (India) Certificate	P333688
INMETRO Approval	TÜV 11.0374X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3), DNV: E-13848, ABS: 14-LD234401A4-PDA, BV: 43180/A1
Ingress Protection Rating**	IP66, IP67 & IP68***
Deluge Protection Compliance	DTS01 : 91
Cable Gland Material	Stainless Steel
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
Cable Type(s)	Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Aluminium Strip Armour (ASA), Screened Flexible (EMC) Wire Braid (e.g. CY/SY), Wire Braid Armour (e.g. SWB)
Armour Clamping	Reversible Armour Cone & AnyWay Universal Clamping Ring
Sealing Technique	Inner Bedding Sealing Ring: Compensating Displacement Seal (CDS), Outer Sheath Sealing Ring : Load Retention Seal (LRS)
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

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

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Cable Bedding Diameter "A"		Overall Cable Diameter "B"		Armour Range †				Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (Stainless Steel Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option	Min	Max	Min	Max			Max	Max	Size	Type		Ordering Suffix				
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT																
20S16	M20	15.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	57.3	20S16	TE1FU	1RA4	PVC04	0.15
20S	M20	15.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	57.3	20S	TE1FU	1RA4	PVC04	0.15
20	M20	15.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	61.2	20	TE1FU	1RA4	PVC06	0.23
25S	M25	15.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	74.0	25S	TE1FU	1RA4	PVC09	0.34
25	M25	15.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	74.0	25	TE1FU	1RA4	PVC09	0.34
32	M32	15.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	78.2	32	TE1FU	1RA4	PVC11	0.55
40	M40	15.0	1 ¼"	25.6	1 ½"	22.0	32.1	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	81.6	40	TE1FU	1RA4	PVC15	0.79
50S	M50	15.0	1 ½"	26.1	2"	29.5	38.1	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	88.1	50S	TE1FU	1RA4	PVC18	1.00
50	M50	15.0	2"	26.9	2 ½"	35.6	44.0	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	91.2	50	TE1FU	1RA4	PVC21	1.37
63S	M63	15.0	2"	26.9	2 ½"	40.1	49.9	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.4	90.5	63S	TE1FU	1RA4	PVC23	1.50
63	M63	15.0	2 ½"	39.9	3"	47.2	55.9	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	90.3	63	TE1FU	1RA4	PVC25	1.56
75S	M75	15.0	2 ½"	39.9	3"	52.8	61.9	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	104.7	75S	TE1FU	1RA4	PVC28	2.45
75	M75	15.0	3"	41.5	3 ½"	59.1	67.9	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	110.8	75	TE1FU	1RA4	PVC30	3.15
90	M90	24.0	3 ½"	42.8	4"	66.6	78.6	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	135.5	90	TE1FU	1RA4	PVC32	4.62
100	M100	24.0	3 ½"	42.8	4"	76.0	90.9	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	126.8	100	TE1FU	1RA4	LSF33	4.95
115	M115	24.0	4"	44.0	5"	86.0	97.9	101.5	110.2	0.8	1.6	3.15	4.0	138.0	151.8	157.5	115	TE1FU	1RA4	LSF34	7.60
130	M130	24.0	5"	46.8	-	97.0	114.9	110.2	123.2	0.8	1.6	3.15	4.0	157.0	172.7	164.5	130	TE1FU	1RA4	LSF35	8.73

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

Examples: 32TE1FU1RA434 = Stainless Steel 1 1/4" NPT, 50TE1FU1RA435 = 1 1/2" NPT, 25TE1FU1RA432 = Stainless Steel 3/4" NPT

Dimensions are displayed in millimetres unless otherwise stated



TE1FUPB

TE1FUPB Globally Approved, Explosive Atmosphere Cable Gland

For all types of Lead Sheathed Armoured Cables

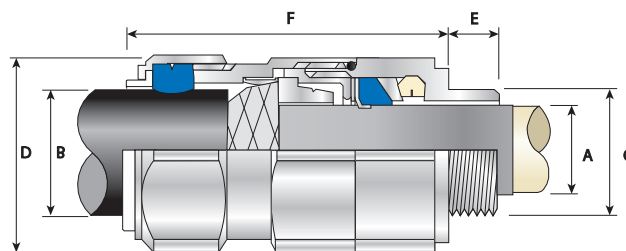
- Stainless steel compact design
- Effectively earths / grounds lead sheathed cables
- Fully sequential, three step installation procedure
- Reduces installation times, cost & risk
- Direct & remote installation
- Unique compensating displacement seal system(CDS)
- Metal-to-metal installation regardless 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



† Grooved Cone (X) is 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), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) 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 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.

Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.



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	SIRA13ATEX1073X, SIRA13ATEX4079X
Code of Protection	⊕ II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da, Ex tD II 3G Ex nR IIC Gc, ⊕ I M2, Ex d I Mb, Ex e I Mb
Compliance Standards	EN60079-0, 1, 7, 15, 31
IECEx Certificate	IECEx SIR 13.0028X, IECEx SIM 14.0007X
Code of Protection	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	IEC 60079-0, 1, 7, 15, 31
cCSAus Certificate (20S16 - 90)	1310517
CSAus 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, 4 and 4X, Class I, Zone 1, AEx e II, AEx nR II
cCSA 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, 4 and 4X, Ex d IIC, Ex e IIC, Ex nR II
Compliance Standards	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-E60079-0, 1, 7, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0, 1, 7
EAC Certificate	TC RU C-GB.ГБ05.B.00138
NEPSI Certificate	GYJ13.1141X / GYJ13.1283X
CCOE / PESO (India) Certificate	P333688
INMETRO Approval	TÜV 11.0374X
Ingress Protection Rating**	IP66, IP67 & IP68***
Deluge Protection Compliance	DT501 : 91
Cable Gland Material	Stainless Steel
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
Cable Type(s)	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)
Armour Clamping	Reversible Armour Cone & AnyWay Universal Clamping Ring
Sealing Technique	Inner Bedding Sealing Ring: Compensating Displacement Seal (CDS), Outer Sheath Sealing Ring: Load Retention Seal (LRS)
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

Cable Gland Selection Table

Refer to illustration at the top of the page.

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Lead Sheath Diameter "A"		Overall Cable Diameter "B"		Armour Range †				Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (Stainless Steel Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option												Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Min	Max	Min	Max	Grooved Cone (X)	Stepped Cone (W)	Max	Max								
20S16	M20	15.0	½"	19.9	¾"	3.1	7.8	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	57.3	20S16	TE1FUPB	1RA4	PVC04	0.15
20S	M20	15.0	½"	19.9	¾"	6.1	11.0	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	57.3	20S	TE1FUPB	1RA4	PVC04	0.15
20	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	61.2	20	TE1FUPB	1RA4	PVC06	0.23
25S	M25	15.0	¾"	20.2	1"	11.1	19.3	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	74.0	25S	TE1FUPB	1RA4	PVC09	0.35
25	M25	15.0	¾"	20.2	1"	11.1	19.3	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	74.0	25	TE1FUPB	1RA4	PVC09	0.35
32	M32	15.0	1"	25.0	1 ¼"	17.0	25.5	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	78.2	32	TE1FUPB	1RA4	PVC11	0.55
40	M40	15.0	1 ¼"	25.6	1 ½"	22.0	31.2	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	81.6	40	TE1FUPB	1RA4	PVC15	0.80
50S	M50	15.0	1 ½"	26.1	2"	29.5	37.2	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	88.1	50S	TE1FUPB	1RA4	PVC18	1.01
50	M50	15.0	2"	26.9	2 ½"	35.6	42.6	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	91.2	50	TE1FUPB	1RA4	PVC21	1.38
63S	M63	15.0	2"	26.9	2 ½"	40.1	48.5	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.4	90.5	63S	TE1FUPB	1RA4	PVC23	1.51
63	M63	15.0	2 ½"	39.9	3"	47.2	54.2	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	90.3	63	TE1FUPB	1RA4	PVC25	1.57
75S	M75	15.0	2 ½"	39.9	3"	52.8	60.2	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	104.7	75S	TE1FUPB	1RA4	PVC28	2.46
75	M75	15.0	3"	41.5	3 ½"	59.1	65.2	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	110.8	75	TE1FUPB	1RA4	PVC30	3.15
90	M90	24.0	3 ½"	42.8	4"	66.6	77.1	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	135.5	90	TE1FUPB	1RA4	PVC32	4.63
100	M100	24.0	4"	44.0	5"	76.0	88.1	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	126.8	100	TE1FUPB	1RA4	LSF33	4.97
115	M115	24.0	4"	44.0	5"	86.0	94.1	101.5	110.2	0.8	1.6	3.15	4.0	138.0	151.8	157.5	115	TE1FUPB	1RA4	LSF34	7.60
130	M130	24.0	5"	46.8	6"	97.0	110.1	110.2	123.2	0.8	1.6	3.15	4.0	157.0	172.7	164.5	130	TE1FUPB	1RA4	LSF35	8.77

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

Examples: 32TE1FUPB1RA434 = Stainless Steel 1 1/4" NPT, 50STE1FUPB1RA435 = 1 1/2" NPT, 25TE1FUPB1RA432 = Stainless Steel 3/4" NPT

Dimensions are displayed in millimetres unless otherwise stated



E1FU



E1FU Globally Approved, Explosive Atmosphere Cable Gland

For all types of Armoured cables

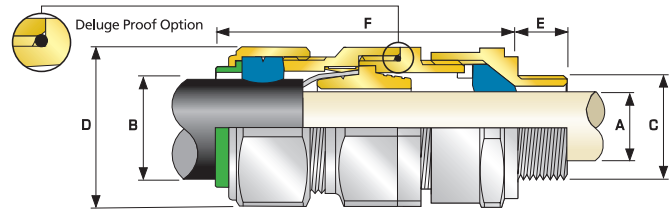
- Metal-to-metal armour clamping
- Direct & remote installation
- Displacement type flameproof inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60°C to +130°C
- Globally marked, IECEx, ATEX & cCSAus
- Superior EMC performance



† Grooved Cone (X) is 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), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside of 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 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.

Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.



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	SIRA13ATEX1071X, SIRA13ATEX4077X
Code of Protection	Ex II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da Ex II 3G Ex nR IIC Gc, Ex IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0, 1, 7, 15, 31
IECEx Certificate	IECEx SIR 13.0026X, IECEx SIM 14.0007X
Code of Protection	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	IEC 60079-0, 1, 7, 15, 31
cCSAus Certificate (20S16 - 90)	1310517
CSAus 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, 4 and 4X, Class I, Zone 1, AEx e II, AEx nR II
cCSA 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, 4 and 4X, Ex d IIC, Ex e IIC, Ex nR II
Compliance Standards	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-E60079-0, 1, 7, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0, 1, 7
EAC Certificate (Formerly GOST R & K)	TC RU C-GB.Г505.В00138
UkrSEPRO	UA.TR.047.C.0644-15
KCS Certificate	14-GA4BO-0257X
NEPSI Certificate	GY13.1140X / GY13.1282X
CCOE / PESO (India) Certificate	P333688
INMETRO Approval	TÜV 12.0618X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3), DNV: E-13848, ABS: 14-LD234401A-4-PDA, BV: 43180/A1
Ingress Protection Rating**	IP66 as standard (IP67, IP68*** available upon request)
Deluge Protection Compliance	DTS01:91 option available on request (white ferrule for identification purposes)
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Aluminium
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
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 (EMC) Wire Braid (e.g. CY / SY), Armoured & Jacketed
Armour Clamping	Reversible 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

* 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.

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

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Cable Bedding Diameter "A"		Overall Cable Diameter "B"		Armour Range †				Across Flats "D"		Across Corners "D"		Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option					Grooved Cone (X)		Stepped Cone (W)							Size		Type		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Min	Max	Min	Max	Min	Max	Min	Max	Max	Max	Max	Max	Size	Type	Ordering Suffix			
20S16	M20	15.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	72.5	20S16	E1FU	1RA	PVC04	0.16		
20S	M20	15.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	70.0	20S	E1FU	1RA	PVC04	0.15		
20	M20	15.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	73.0	20	E1FU	1RA	PVC06	0.21		
25S	M25	15.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	89.0	25S	E1FU	1RA	PVC09	0.33		
25	M25	15.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	89.0	25	E1FU	1RA	PVC09	0.33		
32	M32	15.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	86.0	32	E1FU	1RA	PVC11	0.43		
40	M40	15.0	1 ¼"	25.6	1 ½"	22.0	32.1	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	90.0	40	E1FU	1RA	PVC15	0.62		
50S	M50	15.0	1 ½"	26.1	2"	29.5	38.1	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	91.0	50S	E1FU	1RA	PVC18	0.75		
50	M50	15.0	2"	26.9	2 ½"	35.6	44.0	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	95.0	50	E1FU	1RA	PVC21	0.95		
63S	M63	15.0	2"	26.9	2 ½"	40.1	49.9	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	102.0	63S	E1FU	1RA	PVC23	1.34		
63	M63	15.0	2 ½"	39.9	3"	47.2	55.9	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	104.0	63	E1FU	1RA	PVC25	1.34		
75S	M75	15.0	2 ½"	39.9	3"	52.8	61.9	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	115.0	75S	E1FU	1RA	PVC28	2.11		
75	M75	15.0	3"	41.5	3 ½"	59.1	67.9	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	117.0	75	E1FU	1RA	PVC30	2.42		
90	M90	24.0	3 ½"	42.8	4"	66.6	78.6	76.2	90.3	0.8	1.6	3.15	4.0	114.3	125.4	147.0	90	E1FU	1RA	PVC32	4.21		
100	M100	24.0	3 ½"	42.8	4"	76.0	90.9	86.1	101.4	0.8	1.6	3.15	4.0	123.0	135.3	140.0	100	E1FU	1RA	LSF33	4.45		
115	M115	24.0	4"	44.0	5"	86.0	97.9	101.5	110.2	0.8	1.6	3.15	4.0	133.4	146.7	162.0	115	E1FU	1RA	LSF34	6.19		
130	M130	24.0	5"	46.8	-	97.0	114.9	110.2	123.2	0.8	1.6	3.15	4.0	152.4	167.6	174.0	130	E1FU	1RA	LSF35	8.34		

*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')

Examples: 32E1FU1RA534 = Nickel Plated Brass 1 ¼" NPT, 50S1FU1RA035 = Brass 1 ½" NPT, 20E1FU1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

**E2FU**

E2FU Globally Approved, Explosive Atmosphere Cable Gland

For all types of Lead Sheathed Armoured cables

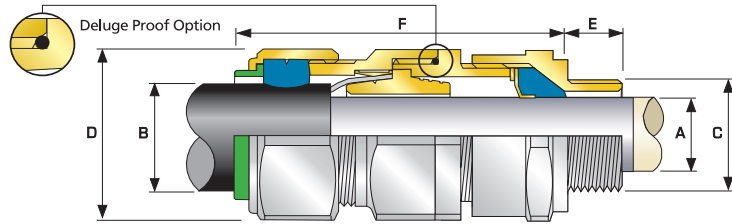
- Effectively earths / grounds lead sheathed cables
- Metal-to-metal armour clamping
- Direct & remote installation
- Displacement type flameproof inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- 60°C to +130°C
- Globally marked, IECEx, ATEX & cCSAus
- Superior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



† Grooved Cone (X) is 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), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) 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 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.

Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.



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	SIRA13ATEX1071X, SIRA13ATEX4077X
Code of Protection	II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da II 3G Ex nR IIC Gc, IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0, 1, 7, 15, 31
IECEx Certificate	IECEx SIR 13.0026X, IECEx SIM 14.0007X
Code of Protection	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	IEC 60079-0, 1, 7, 15, 31
cCSAus Certificate (20S16 - 90)	1310517
CSAus 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, 4 and 4X, Class I, Zone 1, AEx e II, AEx nR II
cCSA 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, 4 and 4X, Ex d IIC, Ex e IIC, Ex nR II
Compliance Standards	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-E60079-0, 1, 7, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0, 1, 7
EAC Certificate	TC RU C-GB.1505.B00138
UkrSEPRO	UA.TR.047.C.0644-15
KCS Certificate	14-GA4B0-0257X
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
CCOE / PESO (India) Certificate	P333688
INMETRO Approval	TUV 12.0618X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3), DNV: E-13848, ABS: 14-LD234401A-4-PDA, BV: 43180/A1
Ingress Protection Rating**	IP66 as standard (IP67, IP68*** available upon request)
Deluge Protection Compliance	DTS01:91 option available on request (white ferrule for identification purposes)
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Aluminium
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
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)
Armour Clamping	Reversible 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

* 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.

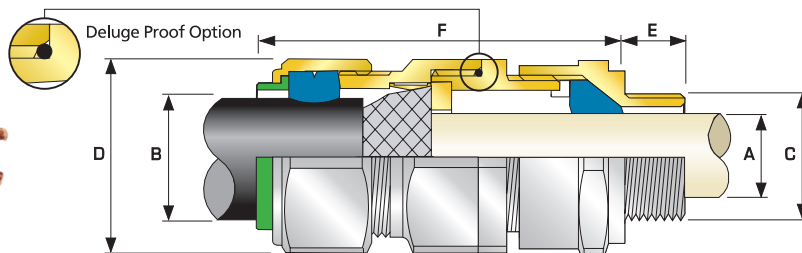
Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Lead Sheath Diameter "A"		Overall Cable Diameter "B"		Armour Range †				Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard			Option	Grooved Cone (X)					Stepped Cone (W)		Size	Type				Ordering Suffix				
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Min	Max	Min	Max	Min	Max			Min	Max	Max		Max			
20S16	M20	15.0	½"	19.9	¾"	3.1	7.8	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	72.5	20S16	E2FU	1RA	PVC04	0.16
20S	M20	15.0	½"	19.9	¾"	6.1	11.0	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	70.0	20S	E2FU	1RA	PVC04	0.15
20	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	73.0	20	E2FU	1RA	PVC06	0.21
25S	M25	15.0	¾"	20.2	1"	11.1	19.3	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	89.0	25S	E2FU	1RA	PVC09	0.33
25	M25	15.0	¾"	20.2	1"	11.1	19.3	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	89.0	25	E2FU	1RA	PVC09	0.33
32	M32	15.0	1"	25.0	1 ¼"	17.0	25.5	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	86.0	32	E2FU	1RA	PVC11	0.43
40	M40	15.0	1 ¼"	25.6	1 ½"	22.0	31.2	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	90.0	40	E2FU	1RA	PVC15	0.63
50S	M50	15.0	1 ½"	26.1	2"	29.5	37.2	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	91.0	50S	E2FU	1RA	PVC18	0.76
50	M50	15.0	2"	26.9	2 ½"	35.6	42.6	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	95.0	50	E2FU	1RA	PVC21	0.95
63S	M63	15.0	2"	26.9	2 ½"	40.1	48.5	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	102.0	63S	E2FU	1RA	PVC23	1.35
63	M63	15.0	2 ½"	39.9	3"	47.2	54.2	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	104.0	63	E2FU	1RA	PVC25	1.35
75S	M75	15.0	2 ½"	39.9	3"	52.8	60.2	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	115.0	75S	E2FU	1RA	PVC28	2.12
75	M75	15.0	3"	41.5	3 ½"	59.1	65.2	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	117.0	75	E2FU	1RA	PVC30	2.43
90	M90	24.0	3 ½"	42.8	4"	66.6	77.1	76.2	90.3	0.8	1.6	3.15	4.0	114.3	125.4	147.0	90	E2FU	1RA	PVC32	4.23
100	M100	24.0	3 ½"	42.8	4"	76.0	88.1	86.1	101.4	0.8	1.6	3.15	4.0	123.0	135.3	140.0	100	E2FU	1RA	LSF33	4.47
115	M115	24.0	4"	44.0	5"	86.0	94.1	101.5	110.2	0.8	1.6	3.15	4.0	133.4	146.7	162.0	115	E2FU	1RA	LSF34	6.22
130	M130	24.0	5"	46.8	-	97.0	110.1	110.2	123.2	0.8	1.6	3.15	4.0	152.4	167.6	174.0	130	E2FU	1RA	LSF35	8.38

*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')

Examples: 32E2FU1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SE2FU1RA035 = Brass 1 ½" NPT, 20E2FU1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



E1FX



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
- -60°C to +130°C
- Globally marked, IECEx, ATEX & cCSAus
- Superior EMC performance



† Grooved Cone (X) is 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), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) 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 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.

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
Electrical Classifications*	Category B (Category A when used with braid, tape or pliable wire armour cables)
ATEX Certificate	SIRA13ATEX1071X, SIRA13ATEX4077X
Code of Protection	Ⓜ II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da, Ⓜ II 3G Ex nR IIC Gc, Ⓜ IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0, 1, 7, 15, 31
IECEx Certificate	IECEx SIR 13.0026X, IECEx SIM 14.0007X
Code of Protection	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	IEC 60079-0, 1, 7, 15, 31
cCSAus Certificate (20S16 - 90)	1310517
CSAus 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, 4 and 4X, Class I, Zone 1, AEx e II, AEx nR II
cCSA 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, 4 and 4X, Ex d IIC, Ex e IIC, Ex nR II
Compliance Standards	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-E60079-0, 1, 7, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0, 1, 7
EAC Certificate	TC RU C-G.B.605.B00138
UkrSEPRO	UA.TR.047.C.0644-15
KCS Certificate	14-GA480-0257X
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
INMETRO Approval	TÜV 12.0618X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3), DNV: E-13848, ABS: 14-LD234401A-4-PDA, BV: 43180/A1
Ingress Protection Rating**	IP66 as standard (IP67, IP68*** available upon request)
Deluge Protection Compliance	DTSO1:91 option available on request (white ferrule for identification purposes)
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Aluminium
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
Cable Type	Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Wire Braid Armour (e.g. SWB), Aluminium Strip Armour (ASA), Armoured & Jacketed
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

* 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.

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

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Cable Bedding Diameter "A"		Overall Cable Diameter "B"		Armour Range † Grooved Cone (X)		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option										Size				
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Min	Max	Min	Max	Min	Max	Max	Max	Max	Size	Type	Ordering Suffix		
20S16	M20	15.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.3	1.0	24.0	26.4	72.5	20S16	E1FX	1RA	PVC04	0.16
20S	M20	15.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.3	1.0	24.0	26.4	70.0	20S	E1FX	1RA	PVC04	0.15
20	M20	15.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.4	1.0	30.5	33.6	73.0	20	E1FX	1RA	PVC06	0.21
25S	M25	15.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	0.4	1.2	37.5	41.3	89.0	25S	E1FX	1RA	PVC09	0.33
25	M25	15.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	0.4	1.2	37.5	41.3	89.0	25	E1FX	1RA	PVC09	0.33
32	M32	15.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	0.4	1.2	46.0	50.6	86.0	32	E1FX	1RA	PVC11	0.43
40	M40	15.0	1 ¼"	25.6	1 ½"	22.0	32.1	27.9	40.4	0.4	1.6	55.0	60.5	90.0	40	E1FX	1RA	PVC15	0.62
50S	M50	15.0	1 ½"	26.1	2"	29.5	38.1	35.2	46.7	0.4	1.6	60.0	66.0	91.0	50S	E1FX	1RA	PVC18	0.75
50	M50	15.0	2"	26.9	2 ½"	35.6	44.0	40.4	53.0	0.6	1.6	70.1	77.1	95.0	50	E1FX	1RA	PVC21	0.95
63S	M63	15.0	2"	26.9	2 ½"	40.1	49.9	45.6	59.4	0.6	1.6	75.0	82.5	102.0	63S	E1FX	1RA	PVC23	1.34
63	M63	15.0	2 ½"	39.9	3"	47.2	55.9	54.6	65.8	0.6	1.6	80.0	88.0	104.0	63	E1FX	1RA	PVC25	1.34
75S	M75	15.0	2 ½"	39.9	3"	52.8	61.9	59.0	72.0	0.6	1.6	90.0	99.0	115.0	75S	E1FX	1RA	PVC28	2.11
75	M75	15.0	3"	41.5	3 ½"	59.1	67.9	66.7	78.4	0.6	1.6	100.0	110.0	117.0	75	E1FX	1RA	PVC30	2.42
90	M90	24.0	3 ½"	42.8	4"	66.6	78.6	76.2	90.3	0.8	1.6	114.3	125.4	147.0	90	E1FX	1RA	PVC32	4.21
100	M100	24.0	3 ½"	42.8	4"	76.0	90.9	86.1	101.4	0.8	1.6	123.0	135.3	140.0	100	E1FX	1RA	LSF33	4.45
115	M115	24.0	4"	44.0	5"	86.0	97.9	101.5	110.2	0.8	1.6	133.4	146.7	162.0	115	E1FX	1RA	LSF34	6.19
130	M130	24.0	5"	46.8	-	97.0	114.9	110.2	123.2	0.8	1.6	152.4	167.6	174.0	130	E1FX	1RA	LSF35	8.34

*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')

Examples: 32E1FX1RA534 = Nickel Plated Brass 1 ½" NPT, 50S1E1FX1RA035 = Brass 1 ½" NPT, 20E1FX1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

**E2FX**

E2FX Internationally Approved, Explosive Atmosphere Cable Gland

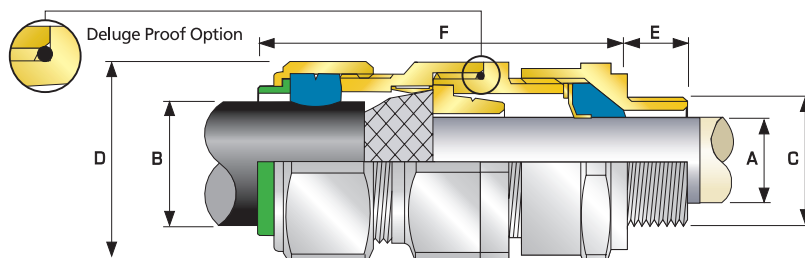
For Lead Sheathed Braided & Steel Tape Armoured cables

- 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
- 60°C to +130°C
- Globally marked, IECEx, ATEX & cCSAus
- Superior EMC performance



† Grooved Cone (X) is 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), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (V).

Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire 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.



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
Electrical Classifications*	Category B (Category A when used with braid, tape or pliable wire armour cables)
ATEX Certificate	SIRA13ATEX1071X, SIRA13ATEX4077X
Code of Protection	⊕ II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da ⊕ II 3G Ex nR IIC Gc, ⊕ IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0, 1, 7, 15, 31
IECEx Certificate	IECEx SIR 13.0026X, IECEx SIM 14.0007X
Code of Protection	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	IEC 60079-0, 1, 7, 15, 31
cCSAus Certificate (20S16 - 90)	1310517
CSAus 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, 4 and 4X, Class I, Zone 1, AEx e II, AEx nR II
cCSA 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, 4 and 4X, Ex d IIC, Ex e IIC, Ex nR II
Compliance Standards	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-E60079-0, 1, 7, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0, 1, 7
EAC Certificate	TC RU C-GB.T605.B00138
UkrSEPRO	UA.TR.047.C.0644-15
KCS Certificate	14-GA4B0-0257X
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
INMETRO Approval	TUV 12.0618X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3), DNV: E-13848, ABS: 14-LD234401A-4-PDA, BV: 43180/A1
Ingress Protection Rating**	IP66 as standard (IP67, IP68*** available upon request)
Deluge Protection Compliance	DTS01:91 option available on request (white ferrule for identification purposes)
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Aluminium
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
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)
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

* 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.

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

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Lead Sheath Diameter "A"		Overall Cable Diameter "B"		Armour Range † Grooved Cone (X)		Across Flats "D"		Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option											Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Min	Max	Min	Max	Min	Max	Max	Max	Max	Max	Max	Max	Max		
20S16	M20	15.0	½"	19.9	¾"	3.1	7.8	6.1	13.1	0.3	1.0	24.0	26.4	72.5	20S16	E2FX	1RA	PVC04	0.16	
20S	M20	15.0	½"	19.9	¾"	6.1	11.0	9.5	15.9	0.3	1.0	24.0	26.4	70.0	20S	E2FX	1RA	PVC04	0.15	
20	M20	15.0	½"	19.9	¾"	6.5	13.4	12.5	20.9	0.4	1.0	30.5	33.6	73.0	20	E2FX	1RA	PVC06	0.21	
25S	M25	15.0	¾"	20.2	1"	11.1	19.3	14.0	22.0	0.4	1.2	37.5	41.3	89.0	25S	E2FX	1RA	PVC09	0.33	
25	M25	15.0	¾"	20.2	1"	11.1	19.3	18.2	26.2	0.4	1.2	37.5	41.3	89.0	25	E2FX	1RA	PVC09	0.33	
32	M32	15.0	1"	25.0	1 ¼"	17.0	25.5	23.7	33.9	0.4	1.2	46.0	50.6	86.0	32	E2FX	1RA	PVC11	0.43	
40	M40	15.0	1 ¼"	25.6	1 ½"	22.0	31.2	27.9	40.4	0.4	1.6	55.0	60.5	90.0	40	E2FX	1RA	PVC15	0.63	
50S	M50	15.0	1 ½"	26.1	2"	29.5	37.2	35.2	46.7	0.4	1.6	60.0	66.0	91.0	50S	E2FX	1RA	PVC18	0.76	
50	M50	15.0	2"	26.9	2 ½"	35.6	42.6	40.4	53.0	0.6	1.6	70.1	77.1	95.0	50	E2FX	1RA	PVC21	0.95	
63S	M63	15.0	2"	26.9	2 ½"	40.1	48.5	45.6	59.4	0.6	1.6	75.0	82.5	102.0	63S	E2FX	1RA	PVC23	1.35	
63	M63	15.0	2 ½"	39.9	3"	47.2	54.2	54.6	65.8	0.6	1.6	80.0	88.0	104.0	63	E2FX	1RA	PVC25	1.95	
75S	M75	15.0	2 ½"	39.9	3"	52.8	60.2	59.0	72.0	0.6	1.6	90.0	99.0	115.0	75S	E2FX	1RA	PVC28	2.12	
75	M75	15.0	3"	41.5	3 ½"	59.1	65.2	66.7	78.4	0.6	1.6	100.0	110.0	117.0	75	E2FX	1RA	PVC30	2.43	
90	M90	24.0	3 ½"	42.8	4"	66.6	77.1	76.2	90.3	0.8	1.6	114.3	125.4	147.0	90	E2FX	1RA	PVC32	4.23	
100	M100	24.0	3 ½"	42.8	4"	76.0	88.1	86.1	101.4	0.8	1.6	123.0	135.3	140.0	100	E2FX	1RA	LSF33	4.47	
115	M115	24.0	4"	44.0	5"	86.0	94.1	101.5	110.2	0.8	1.6	133.4	146.7	162.0	115	E2FX	1RA	LSF34	6.22	
130	M130	24.0	5"	46.8	-	97.0	110.1	110.2	123.2	0.8	1.6	152.4	167.6	174.0	130	E2FX	1RA	LSF35	8.38	

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')

Examples: 32E2FX1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SE2FX1RA035 = Brass 1 ½" NPT, 20E2FX1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



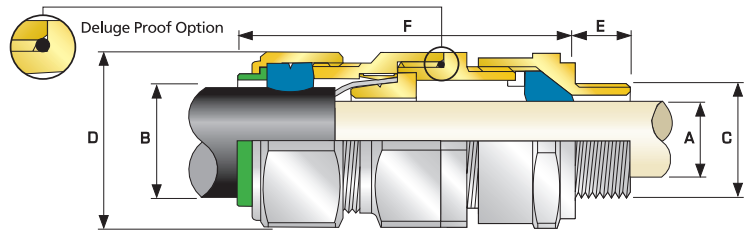
E1FW



E1FW Globally Approved, Explosive Atmosphere Cable Gland

For all types of Steel & Aluminium Wire Armoured Cables

- 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
- Globally marked, IECEx, ATEX & cCSAus
- 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 B
ATEX Certificate	SIRA13ATEX1071X, SIRA13ATEX4077X
Code of Protection	Ex II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da Ex II 3G Ex nR IIC Gc, Ex IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0, 1, 7, 15, 31
IECEx Certificate	IECEx SIR 13.0026X, IECEx SIM 14.0007X
Code of Protection	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	IEC 60079-0, 1, 7, 15, 31
cCSAus Certificate (20S16 - 90)	1310517
CSAus 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, 4 and 4X, Class I, Zone 1, AEx e II, AEx nR II
cCSA 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, 4 and 4X, Ex d IIC, Ex e IIC, Ex nR II
Compliance Standards	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-E60079-0, 1, 7, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0, 1, 7
EAC Certificate	TC RU C-GB.1505.B00138
UkrSEPRO	UA.TR.047.C.0644-15
KCS Certificate	14-GA4BO-0257X
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
INMETRO Approval	TÜV 12.0618X
RETIE Approval Number	03866
Marine Approvals	LR5: 01/00172 (E3), DNV: E-13848, ABS: 14-LD234401A-4-PDA, BV: 43180/A1
Ingress Protection Rating**	IP66 as standard (IP67, IP68*** available upon request)
Deluge Protection Compliance	DT501:91 option available on request (white ferrule for identification purposes)
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Aluminium
Seal Material	CMP SOLO LSF 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	CMP Inner Displacement Seal & Unique CMP 'LRS'™ 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

Cable Gland Selection Table

Refer to illustration at the top of the page.

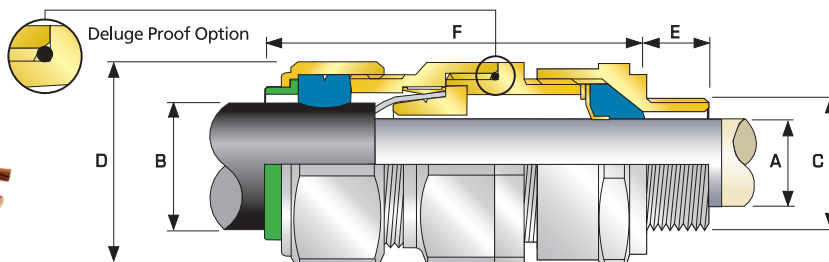
Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Cable Bedding Diameter "A"		Overall Cable Diameter "B"		Armour Range		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option										Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Min	Max	Min	Max	Min	Max	Max	Max	Size	Type	Ordering Suffix			
20S16	M20	15.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.8	1.25	24.0	26.4	72.5	20S16	E1FW	1RA	PVC04	0.16
20S	M20	15.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.8	1.25	24.0	26.4	70.0	20S	E1FW	1RA	PVC04	0.15
20	M20	15.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.8	1.25	30.5	33.6	73.0	20	E1FW	1RA	PVC06	0.21
25S	M25	15.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	1.25	1.6	37.5	41.3	89.0	25S	E1FW	1RA	PVC09	0.33
25	M25	15.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	1.25	1.6	37.5	41.3	89.0	25	E1FW	1RA	PVC09	0.33
32	M32	15.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	1.6	2.0	46.0	50.6	86.0	32	E1FW	1RA	PVC11	0.43
40	M40	15.0	1 ¼"	25.6	1 ½"	22.0	32.1	27.9	40.4	1.6	2.0	55.0	60.5	90.0	40	E1FW	1RA	PVC15	0.62
50S	M50	15.0	1 ½"	26.1	2"	29.5	38.1	35.2	46.7	2.0	2.5	60.0	66.0	91.0	50S	E1FW	1RA	PVC18	0.75
50	M50	15.0	2"	26.9	2 ½"	35.6	44.0	40.4	53.0	2.0	2.5	70.1	77.1	95.0	50	E1FW	1RA	PVC21	0.95
63S	M63	15.0	2"	26.9	2 ½"	40.1	49.9	45.6	59.4	2.0	2.5	75.0	82.5	102.0	63S	E1FW	1RA	PVC23	1.34
63	M63	15.0	2 ½"	39.9	3"	47.2	55.9	54.6	65.8	2.0	2.5	80.0	88.0	104.0	63	E1FW	1RA	PVC25	1.34
75S	M75	15.0	2 ½"	39.9	3"	52.8	61.9	59.0	72.0	2.0	2.5	90.0	99.0	115.0	75S	E1FW	1RA	PVC28	2.11
75	M75	15.0	3"	41.5	3 ½"	59.1	67.9	66.7	78.4	2.5	3.0	100.0	110.0	117.0	75	E1FW	1RA	PVC30	2.42
90	M90	24.0	3 ½"	42.8	4"	66.6	78.6	76.2	90.3	3.15	4.0	114.3	125.4	147.0	90	E1FW	1RA	PVC32	4.21
100	M100	24.0	3 ½"	42.8	4"	76.0	90.9	86.1	101.4	3.15	4.0	123.0	135.3	140.0	100	E1FW	1RA	LSF33	4.45
115	M115	24.0	4"	44.0	5"	86.0	97.9	101.5	110.2	3.15	4.0	133.4	146.7	162.0	115	E1FW	1RA	LSF34	6.19
130	M130	24.0	5"	46.8	-	97.0	114.9	110.2	123.2	3.15	4.0	152.4	167.6	174.0	130	E1FW	1RA	LSF35	8.34

*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 please add the following digits to the material suffix : 1/2" = 31, 3/4" = 32, 1" = 33, 1 1/4" = 34, 1 1/2" = 35, 2" = 36, 2 1/2" = 37, 3" = 38, 3 1/2" = 39, 4" = 310 (Brass requires prefix "0")

Examples: 32E1FW1RA534 = Nickel Plated Brass 1 1/4" NPT, 50SE1FW1RA035 = Brass 1 1/2" NPT, 20E1FW1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

**E2FW**

E2FW Globally Approved, Explosive Atmosphere Cable Gland

For Lead Sheathed Steel & Aluminium Wire 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
- 60°C to +130°C
- Globally marked, IECEx, ATEX & cCSAus
- 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 B
ATEX Certificate	SIRA13ATEX1071X, SIRA13ATEX4077X
Code of Protection	Ex II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da, Ex II 3G Ex nR IIC Gc, Ex IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0026X, IECEx SIM 14.0007X
Code of Protection	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	IEC 60079-0,1,7,15,31
cCSAus Certificate (20S16 - 90)	1310517
CSAus 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, 4 and 4X, Class I, Zone 1, AEx e II, AEx nR II
cCSA 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, 4 and 4X, Ex d IIC, Ex e IIC, Ex nR II
Compliance Standards	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-E60079-0, 1, 7, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0, 1, 7
EAC Certificate	TC RU C-GB.T605.B00138
UkrSEPRO	UA.TR.047.C.0644-15
KCS Certificate	14-GA480-0257X
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
INMETRO Approval	TÜV 12.0618X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3), DNV: E-13848, ABS: 14-LD234401A-4-PDA, BV: 43180/A1
Ingress Protection Rating**	IP66 as standard (IP67, IP68*** available upon request)
Deluge Protection Compliance	DT501:91 option available on request (white ferrule for identification purposes)
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Aluminium
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
Cable Type	Lead Sheathed & Single Wire Armour (SWA), Lead Sheathed & Aluminium Wire Armour (AWA)
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 Lead Covering & 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.

*** 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.

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

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Lead Sheath Diameter "A"		Overall Cable Diameter "B"		Armour Range		Across Flats "D"		Across Corners "D"		Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option												Size				
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT)	NPT	Min	Max	Min	Max	Min	Max	Max	Max	Max	Max		Size	Type	Ordering Suffix		
20S16	M20	15.0	½"	19.9	¾"	3.1	7.8	6.1	13.1	0.8	1.25	24.0	26.4	72.5	20S16	E2FW	1RA	PVC04	0.16		
20S	M20	15.0	½"	19.9	¾"	6.1	11.0	9.5	15.9	0.8	1.25	24.0	26.4	70.0	20S	E2FW	1RA	PVC04	0.15		
20	M20	15.0	½"	19.9	¾"	6.5	13.4	12.5	20.9	0.8	1.25	30.5	33.6	73.0	20	E2FW	1RA	PVC06	0.21		
25S	M25	15.0	¾"	20.2	1"	11.1	19.3	14.0	22.0	1.25	1.6	37.5	41.3	89.0	25S	E2FW	1RA	PVC09	0.33		
25	M25	15.0	¾"	20.2	1"	11.1	19.3	18.2	26.2	1.25	1.6	37.5	41.3	89.0	25	E2FW	1RA	PVC09	0.33		
32	M32	15.0	1"	25.0	1 ¼"	17.0	25.5	23.7	33.9	1.6	2.0	46.0	50.6	86.0	32	E2FW	1RA	PVC11	0.43		
40	M40	15.0	1 ½"	25.6	1 ½"	22.0	31.2	27.9	40.4	1.6	2.0	55.0	60.5	90.0	40	E2FW	1RA	PVC15	0.63		
50S	M50	15.0	1 ½"	26.1	2"	29.5	37.2	35.2	46.7	2.0	2.5	60.0	66.0	91.0	50S	E2FW	1RA	PVC18	0.76		
50	M50	15.0	2"	26.9	2 ½"	35.6	42.6	40.4	53.0	2.0	2.5	70.1	77.1	95.0	50	E2FW	1RA	PVC21	0.95		
63S	M63	15.0	2"	26.9	2 ½"	40.1	48.5	45.6	59.4	2.0	2.5	75.0	82.5	102.0	63S	E2FW	1RA	PVC23	1.35		
63	M63	15.0	2 ½"	39.9	3"	47.2	54.2	54.6	65.8	2.0	2.5	80.0	88.0	104.0	63	E2FW	1RA	PVC25	1.35		
75S	M75	15.0	2 ½"	39.9	3"	52.8	60.2	59.0	72.0	2.0	2.5	90.0	99.0	115.0	75S	E2FW	1RA	PVC28	2.12		
75	M75	15.0	3"	41.5	3 ½"	59.1	65.2	66.7	78.4	2.5	3.0	100.0	110.0	117.0	75	E2FW	1RA	PVC30	2.43		
90	M90	24.0	3 ½"	42.8	4"	66.6	77.1	76.2	90.3	3.15	4.0	114.3	125.4	147.0	90	E2FW	1RA	PVC32	4.23		
100	M100	24.0	3 ½"	42.8	4"	76.0	88.1	86.1	101.4	3.15	4.0	123.0	135.3	140.0	100	E2FW	1RA	LSF33	4.47		
115	M115	24.0	4"	44.0	5"	86.0	94.1	101.5	110.2	3.15	4.0	133.4	146.7	162.0	115	E2FW	1RA	LSF34	6.22		
130	M130	24.0	5"	46.8	-	97.0	110.1	110.2	123.2	3.15	4.0	152.4	167.6	174.0	130	E2FW	1RA	LSF35	8.38		

*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; 1/2" = 31; 3/4" = 32; 1" = 33; 1 1/4" = 34; 1 1/2" = 35; 2" = 36; 2 1/2" = 37; 3" = 38; 3 1/2" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32E2FW1RA534 = Nickel Plated Brass 1 1/4" NPT, 50SE2FW1RA035 = Brass 1 1/2" NPT, 20E2FW1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



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.



MIX

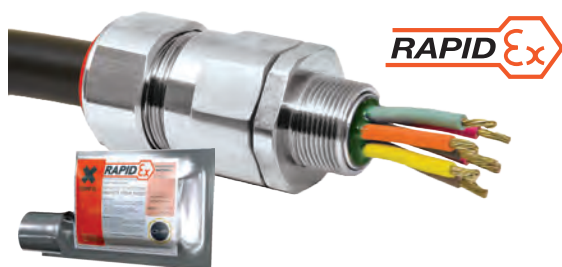


APPLY



SEAL

		Cable Gland Size															
Thread Size		20S	20	25	25S	32	40s	40	50S	50	63S	63	75S	75	90	100	115
		M20	1 X 30	1 X 30													
	M25			1 X 30	1 X 30												
	M32					1 X 30											
	M40							1 X 30									
	M50								1 X 80	1 X 80							
	M63										1 X 80	1 X 80					
	M75												2 X 80	2 X 80			
	M90														2 X 80		
	M100															3 X 80	
	1/2"	1 X 30	1 X 30														
	3/4"	1 X 30	1 X 30	1 X 30													
	1"			1 X 30	1 X 30	1 X 30	1 X 30										
	1 1/4"					1 X 30	1 X 30	1 X 30									
	1 1/2"						1 X 30	1 X 30	1 X 30	1 X 30							
	2"							1 X 30	1 X 30	1 X 30	1 X 80	1 X 80					
	2 1/2"										1 X 80	1 X 80	2 X 80	2 X 80			
	3"												2 X 80	2 X 80	2 X 80		
	3 1/2"													3 X 80	3 X 80	3 X 80	
	4"														3 X 80	3 X 80	3 X 80


RAPIDEx
PX2KREX

Ex e Ex d Ex nR Ex ta

PX2KREX Globally Approved, Explosive Atmosphere RapidEx Barrier Cable Gland

For all types of Armoured Cables

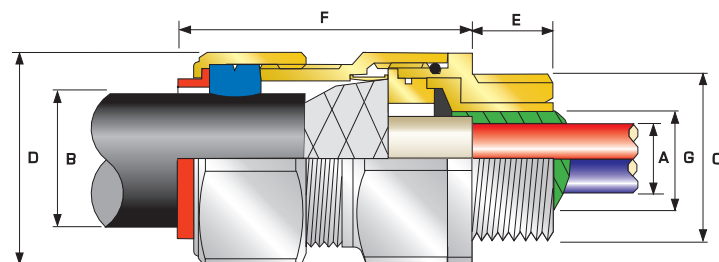
- RapidEx liquid pour sealing system
 - Enhances reliability, reduces risk
 - Reduces man hours
 - Reduces cost
- Metal-to-metal armour clamping
- Direct & remote installation
- Integral protected deluge seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- 60°C to +85°C
- Globally marked, IECEx, ATEX & cCSAus
- Superior EMC performance



† Grooved Cone (X) is 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), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) 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 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.

Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.



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, SIRA13ATEX4078X
Code of Protection	⊕ II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da ⊕ II 3G Ex nR IIC Gc, ⊕ IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0, 1, 7, 15, 31
IECEx Certificate	IECEx SIR 13.0027X, IECEx SIM 14.0008X
Code of Protection	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	IEC 60079-0, 1, 7, 15, 31
cCSAus Certificate (20S16 - 100)	2288626
CSAus Code of Protection***	Class I, Div. 1, 2 Groups A, B, C and D; Class II, Div. 1, 2 Groups E, F and G; Class III, Div. 1, 2; Type 4X: Oil Resistant II: Class I, Zone 1 AEx d IIC Gb, AEx e IIC Gb, Class I, Zone 2 AEx nR IIC Gc, Class I, Zone 20 AEx ta IIIC Da
cCSAus Code of Protection***	Class I, Div. 1, 2 Groups A, B, C and D; Class II, Div. 1, 2 Groups E, F and G; Class III, Div. 1, 2; Type 4X: Oil Resistant II: Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da
Compliance Standards	CAN/CSA-C22.2 No 0,18,25,30,94,174, CAN/CSA-E60079-0, 1, 7, 15, 31 CAN/CSA-E6124111 Part 11, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079
EAC Certificate	TC RU C-GB. ГБ05.B.00138
UkrSEPRO	UA.TR.047.C.0644-15
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GY13.1140X / GY13.1282X
INMETRO Approval	TÜV 12.2073X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3) DNV: E-13848 ABS: 14-LD234401A-4-PDA, BV: 43180/A1
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 / RapidEx Resin Barrier
Cable Type	Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Wire Braid Armour (e.g. SWB), Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Strip Armour (e.g. ASA)***
Armour Clamping	Detachable Resin Tube / Cone & AnyWay Universal Clamping Ring
Sealing Technique	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
Sealing Area(s)	Inner RapidEx Barrier Seal & 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.

***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

Cable Gland Selection Table

Refer to illustration at the top of the page.

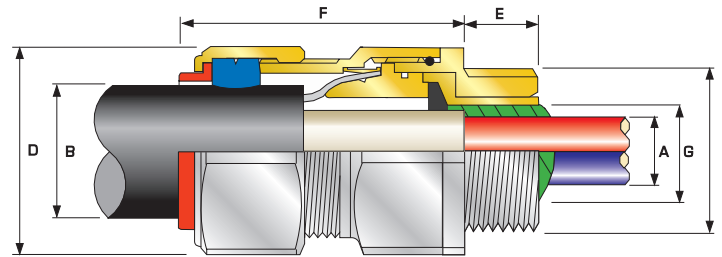
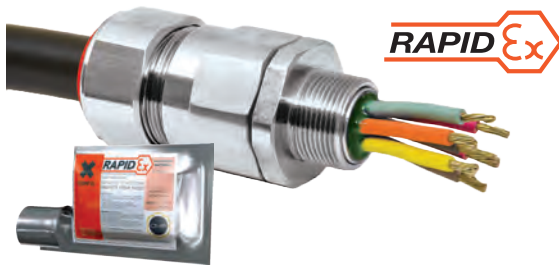
Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Number of Cores	Diameter Over Conductors "A"	Cable Bedding Diameter "G"	Overall Cable Diameter "B"		Armour Range †				Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard			Option	Grooved Cone (X)						Stepped Cone (W)		Size	Type				Ordering Suffix				
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT						Max	Max							Min	Max		
20S16	M20	15.0	½"	19.9	¾"	11	11.7	11.7	6.1	13.1	0.3	1.0	0.8	1.25	30.5	33.6	62.0	20S16	PX2KREX	1RA	PVC06	0.24
20S	M20	15.0	½"	19.9	¾"	11	11.7	11.7	9.5	15.9	0.3	1.0	0.8	1.25	30.5	33.6	62.0	20S	PX2KREX	1RA	PVC06	0.23
20	M20	15.0	½"	19.9	¾"	11	12.6	12.9	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	63.0	20	PX2KREX	1RA	PVC06	0.24
25S	M25	15.0	¾"	20.2	1"	21	17.5	17.9	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	69.5	25S	PX2KREX	1RA	PVC09	0.37
25	M25	15.0	¾"	20.2	1"	21	17.5	17.9	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	69.5	25	PX2KREX	1RA	PVC09	0.37
32	M32	15.0	1"	25.0	1 ¼"	38	23.6	23.9	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	75.0	32	PX2KREX	1RA	PVC11	0.57
40	M40	15.0	1 ¼"	25.6	1 ½"	59	30.0	30.3	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	75.0	40	PX2KREX	1RA	PVC15	0.80
50S	M50	15.0	1 ½"	26.1	2"	89	36.6	36.9	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	77.0	50S	PX2KREX	1RA	PVC18	0.90
50	M50	15.0	2"	26.9	2 ½"	89	41.0	41.3	40.4	53.0	0.6	1.6	2.0	2.5	70.0	77.0	77.0	50	PX2KREX	1RA	PVC21	1.19
63S	M63	15.0	2"	26.9	2 ½"	115	47.9	48.4	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	79.7	63S	PX2KREX	1RA	PVC23	1.39
63	M63	15.0	2 ½"	39.9	3"	115	53.7	54.0	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	80.3	63	PX2KREX	1RA	PVC25	1.41
75S	M75	15.0	2 ½"	39.9	3"	140	59.9	60.2	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	86.8	75S	PX2KREX	1RA	PVC28	2.09
75	M75	15.0	3"	41.5	3 ½"	140	64.2	64.2	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	88.3	75	PX2KREX	1RA	PVC30	2.54
90	M90	20.0	3 ½"	42.8	4"	24.0	75.3	75.6	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	102.1	90	PX2KREX	1RA	PVC32	3.71
100	M100	20.0	3 ½"	42.8	4"	24.0	85.6	85.9	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	114.0	100	PX2KREX	1RA	LSF33	4.81

*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass 'S'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1' For NPT options please add the following digits to the material suffix; 1/2" = 31, 3/4" = 32, 1" = 33, 1 1/4" = 34, 1 1/2" = 35, 2" = 36, 2 1/2" = 37, 3" = 38, 3 1/2" = 39, 4" = 310 (Brass requires prefix "0")

Examples: 32PX2KREX1RA534 = Nickel Plated Brass 1 1/4" NPT, 50SPX2KREX1RA035 = Brass 1 1/2" NPT, 25PX2KREX1RA432 = Stainless Steel 3/4" NPT, 20PX2KREX1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



PX2KWREX



PX2KWREX Globally Approved, Explosive Atmosphere RapidEx Barrier Cable Gland

For all types of Steel & Aluminium Wire Armoured Cables

- RapidEx liquid pour sealing system
 - Enhances reliability, reduces risk
 - Reduces man hours
 - Reduces cost
- Metal-to-metal armour clamping
- Direct & remote installation
- Integral protected deluge seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60°C to +85°C
- Globally marked, IECEx, ATEX & cCSAus
- 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 B
ATEX Certificate	SIRA13ATEX1072X, SIRA13ATEX4078X
Code of Protection	II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIC Da II 3G Ex nR IIC Gc, IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0, 1, 7, 15, 31
IECEx Certificate	IECEx SIR 13.0027X, IECEx 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	IEC 60079-0, 1, 7, 15, 31
cCSAus Certificate (20S16 - 100)	2288626
CSAus Code of Protection***	Class I, Div. 2 Groups A, B, C and D; Class II, Div. 2 Groups F and G; Class III, Div. 2; Type 4X: Oil Resistant II: Class I, Zone 1 AEx d IIC Gb, AEx e IIC Gb, Class I, Zone 2 AEx nR IIC Gc, Class I, Zone 20 AEx ta IIC Da
cCSA Code of Protection***	Class I, Div. 2 Groups A, B, C and D; Class II, Div. 2 Groups F and G; Class III, Div. 2; Type 4X: Oil Resistant II: Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIC Da
Compliance Standards	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-E60079-0, 1, 7, 31 CAN/CSA-E6124111 Part 11, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079
EAC Certificate	TC RU C-GB.1505.B00138
UkrSEPRO	UA.TR.047.C.0644-15
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GY13.1140X / GY13.1282X
INMETRO Approval	TÜV 12.2073X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3) DNV: E-13848 ABS: 14-LD234401A-4-PDA, BV: 43180/A1
Ingress Protection Rating**	IP66, IP67 & IP68****
Deluge Protection Compliance	DTS01 : 91
Cable Gland Material	Electroless Nickel Plated Brass, Brass, Stainless Steel, Aluminium
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer / RapidEx Barrier Compound
Cable Type	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)***
Armour Clamping	Detachable Resin Tube / Cone & AnyWay Universal Clamping Ring
Sealing Technique	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
Sealing Area(s)	RapidEx Resin Barrier & 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.

***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

Cable Gland Selection Table

Refer to illustration at the top of the page.

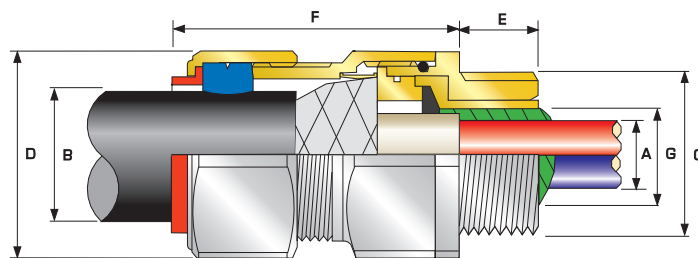
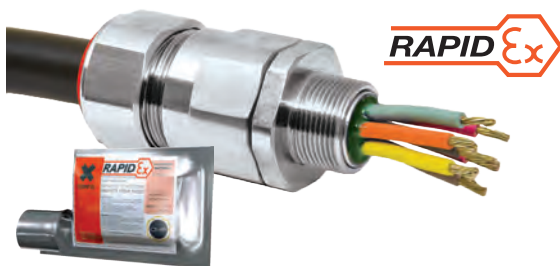
Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Number of Cores	Diameter Over Conductors "A"	Cable Bedding Diameter "G"	Overall Cable Diameter "B"		Armour Range		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option											Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Max	Max	Max	Min	Max	Min	Max	Max	Max	Max				Size	Type
20S16	M20	15.0	½"	0.78	¾"	11	11.7	11.7	6.1	13.1	0.8	1.25	30.5	33.6	62.0	20S16	PX2KWREX	1RA	PVC06	0.24
20S	M20	15.0	½"	0.78	¾"	11	11.7	11.7	9.5	15.9	0.8	1.25	30.5	33.6	62.0	20S	PX2KWREX	1RA	PVC06	0.23
20	M20	15.0	½"	0.78	¾"	11	12.6	12.9	12.5	20.9	0.8	1.25	30.5	33.6	63.0	20	PX2KWREX	1RA	PVC06	0.24
25S	M25	15.0	¾"	0.80	1"	21	17.5	17.9	14.0	22.0	1.25	1.6	37.5	41.3	69.5	25S	PX2KWREX	1RA	PVC09	0.37
25	M25	15.0	¾"	0.80	1"	21	17.5	17.9	18.2	26.2	1.25	1.6	37.5	41.3	69.5	25	PX2KWREX	1RA	PVC09	0.37
32	M32	15.0	1"	0.98	1 ¼"	38	23.6	23.9	23.7	33.9	1.6	2.0	46.0	50.6	75.0	32	PX2KWREX	1RA	PVC11	0.57
40	M40	15.0	1 ¼"	1.01	1 ½"	59	30.0	30.3	27.9	40.4	1.6	2.0	55.0	60.5	75.0	40	PX2KWREX	1RA	PVC15	0.80
50S	M50	15.0	1 ½"	1.03	2"	89	36.6	36.9	35.2	46.7	2.0	2.5	60.0	66.0	77.0	50S	PX2KWREX	1RA	PVC18	0.90
50	M50	15.0	2"	1.06	2 ½"	89	41.0	41.3	40.4	53.0	2.0	2.5	70.1	77.1	77.0	50	PX2KWREX	1RA	PVC21	1.19
63S	M63	15.0	2"	1.06	2 ½"	115	47.9	48.4	45.6	59.4	2.0	2.5	75.0	82.5	79.7	63S	PX2KWREX	1RA	PVC23	1.39
63	M63	15.0	2 ½"	1.57	3"	115	53.7	54.0	54.6	65.8	2.0	2.5	80.0	88.0	80.3	63	PX2KWREX	1RA	PVC25	1.41
75S	M75	15.0	2 ½"	1.57	3"	140	59.9	60.2	59.0	72.0	2.0	2.5	90.0	99.0	86.8	75S	PX2KWREX	1RA	PVC28	2.09
75	M75	15.0	3"	1.63	3 ½"	140	64.2	64.2	66.7	78.4	2.5	3.0	100.0	110.0	88.3	75	PX2KWREX	1RA	PVC30	2.54
90	M90	24.0	3 ½"	1.69	4"	200	75.3	75.6	76.2	90.3	3.15	4.0	115.0	126.5	102.1	90	PX2KWREX	1RA	PVC32	3.71
100	M100	24.0	3 ½"	1.69	4"	200	85.6	85.9	86.1	101.4	3.15	4.0	127.0	139.7	114.0	100	PX2KWREX	1RA	JSF33	4.81

*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass 'S'; 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: 32PX2KWREX1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SPX2KWREX1RA035 = Brass 1 ½" NPT, 25PX2KWREX1RA432 = Stainless Steel ¾" NPT, 20PX2KWREX1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



PX2KXREX



PX2KXREX Globally Approved, Explosive Atmosphere RapidEx Barrier Cable Gland

For all types of Braided & Tape Armoured Cables

- RapidEx liquid pour sealing system
 - Enhances reliability, reduces risk
 - Reduces man hours
 - Reduces cost
- Metal-to-metal armour clamping
- Direct & remote installation
- Integral protected deluge seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- 60°C to +85°C
- Globally marked, IECEx, ATEX & cCSAus
- Superior EMC performance



† Grooved Cone (X) is 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), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) 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 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.

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, SIRA13ATEX4078X
Code of Protection	⊕ II 2G, II 1D, Ex d IIC, Ex e IIC Gb, Ex ta IIIC Da ⊕ II 3G Ex nR IIC Gc, ⊕ IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0, 1, 7, 15, 31
IECEx Certificate	IECEx SIR 13.0027X, IECEx SIM 14.0008X
Code of Protection	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	IEC 60079-0, 1, 7, 15, 31
cCSAus Certificate (20S16 - 100)	2288626
CSAus Code of Protection***	Class I, Div. 1, 2 Groups A, B, C and D; Class II, Div. 1, 2 Groups E, F and G; Class III, Div. 1, 2; Type 4X: Oil Resistant II: Class I, Zone 1 AEx d IIC Gb, AEx e IIC Gb, Class I, Zone 2 AEx nR IIC Gc, Class I, Zone 20 AEx ta IIIC Da
cCSA Code of Protection***	Class I, Div. 1, 2 Groups A, B, C and D; Class II, Div. 1, 2 Groups E, F and G; Class III, Div. 1, 2; Type 4X: Oil Resistant II: Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da
Compliance Standards	CAN/CSA-C22.2 No 0,18,25,30,94,174, CAN/CSA-E60079-0, 1, 7, 31 CAN/CSA-E6124111 Part 11, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079
EAC Certificate	TC RU C-GB.T605.B00138
UkrSEPRO	UA.TR.047.C.0644-15
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
INMETRO Approval	TUV 12.2073X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (DNV) DNV: E-13848 ABS: 14-LD234401A-4-PDA, BV: 43180/A1
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 / RapidEx Resin Barrier
Cable Type	Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Wire Braid Armour (e.g. SWB), Aluminium Strip Armour (ASA), Armoured & Jacketed***
Armour Clamping	Detachable Resin Tube / Cone & AnyWay Universal Clamping Ring
Sealing Technique	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
Sealing Area(s)	Inner RapidEx Barrier Seal & 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.

*** 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

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

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Number of Cores	Diameter Over Conductors "A"	Cable Bedding Diameter "G"	Overall Cable Diameter "B"		Armour Range † Grooved Cone (X)		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option											Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Max	Max	Max	Min	Max	Min	Max	Max	Max						
20S16	M20	15.0	½"	19.9	¾"	11	11.7	11.7	6.1	13.1	0.3	1.0	30.5	33.6	62.0	20S16	PX2KXREX	1RA	PVC06	0.240
20S	M20	15.0	½"	19.9	¾"	11	11.7	11.7	9.5	15.9	0.3	1.0	30.5	33.6	62.0	20S	PX2KXREX	1RA	PVC06	0.230
20	M20	15.0	½"	19.9	¾"	11	12.6	12.9	12.5	20.9	0.4	1.0	30.5	33.6	63.0	20	PX2KXREX	1RA	PVC06	0.240
25S	M25	15.0	¾"	20.2	1"	21	17.5	17.9	14.0	22.0	0.4	1.2	37.5	41.3	69.5	25S	PX2KXREX	1RA	PVC09	0.370
25	M25	15.0	¾"	20.2	1"	21	17.5	17.9	18.2	26.2	0.4	1.2	37.5	41.3	69.5	25	PX2KXREX	1RA	PVC09	0.370
32	M32	15.0	1"	25.0	1 ¼"	38	23.6	23.9	23.7	33.9	0.4	1.2	46.0	50.6	75.0	32	PX2KXREX	1RA	PVC11	0.570
40	M40	15.0	1 ¼"	25.6	1 ½"	59	30.0	30.3	27.9	40.4	0.4	1.6	55.0	60.5	75.0	40	PX2KXREX	1RA	PVC15	0.800
50S	M50	15.0	1 ½"	26.1	2"	89	36.6	36.9	35.2	46.7	0.4	1.6	60.0	66.0	77.0	50S	PX2KXREX	1RA	PVC18	0.900
50	M50	15.0	2"	26.9	2 ½"	89	41.0	41.3	40.4	53.0	0.6	1.6	70.0	77.0	77.0	50	PX2KXREX	1RA	PVC21	1.190
63S	M63	15.0	2"	26.9	2 ½"	115	47.9	48.4	45.6	59.4	0.6	1.6	75.0	82.5	79.7	63S	PX2KXREX	1RA	PVC23	1.390
63	M63	15.0	2 ½"	39.9	3"	115	53.7	54.0	54.6	65.8	0.6	1.6	80.0	88.0	80.3	63	PX2KXREX	1RA	PVC25	1.410
75S	M75	15.0	2 ½"	39.9	3"	140	59.9	60.2	59.0	72.0	0.6	1.6	90.0	99.0	86.8	75S	PX2KXREX	1RA	PVC28	2.090
75	M75	15.0	3"	41.5	3 ½"	140	64.2	64.2	66.7	78.4	0.6	1.6	100.0	110.0	88.3	75	PX2KXREX	1RA	PVC30	2.540
90	M90	24.0	3 ½"	42.8	4"	200	75.3	75.6	76.2	90.3	0.8	1.6	115.0	126.5	102.1	90	PX2KXREX	1RA	PVC32	3.710
100	M100	24.0	3 ½"	42.8	4"	200	85.6	85.9	86.1	101.4	0.8	1.6	127.0	139.7	114.0	100	PX2KXREX	1RA	LSF33	4.810

* 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: 32PX2KXREX1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SPX2KXREX1RA035 = Brass 1 ½" NPT, 25PX2KXREX1RA432 = Stainless Steel ¾" NPT, 20PX2KXREX1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



RAPIDEx

PX2KPBREX



PX2KPBREX Internationally Approved, Explosive Atmosphere RapidEx Barrier Cable Gland

For all types of Lead Sheathed Armoured Cables

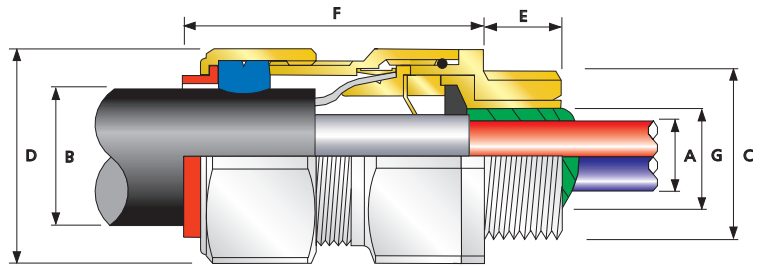
- Effectively earths / grounds lead sheathed cables
- RapidEx liquid pour sealing system
 - Enhances reliability, reduces risk
 - Reduces man hours
 - Reduces cost
- Metal-to-metal armour clamping
- Direct & remote installation
- Integral protected deluge seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- 60°C to +85°C
- Internationally marked, IECEx & ATEX
- Superior EMC performance



† Grooved Cone (X) is 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), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) 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 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.

Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.



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, SIRA13ATEX4078X
Code of Protection	Ⓜ II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da, Ⓜ II 3G Ex nR IIC Gc, Ⓜ IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0027X, IECEx SIM 14.0008X
Code of Protection	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	IEC 60079-0,1,7,15,31
UkrSEPRO	UA.TR.047.C.0644-15
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
INMETRO Approval	TÜV 12.2073X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3) DNV: E-13848 ABS: 14-LD234401A-4-PDA, BV: 43180/A1
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 / RapidEx Barrier Compound
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)
Armour Clamping	Detachable Compound Tube / Cone & AnyWay Universal Clamping Ring
Sealing Technique	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
Sealing Area(s)	Inner Compound Barrier & 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.

*** 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.

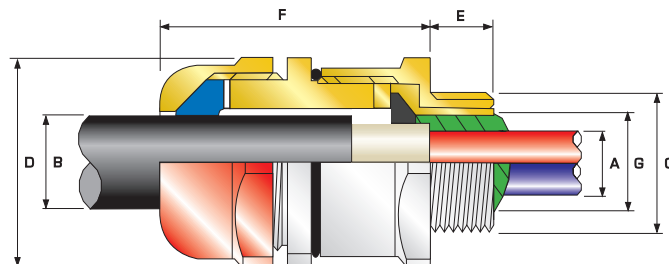
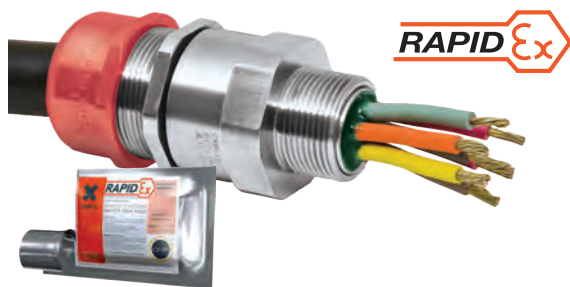
Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Number of Cores	Diameter Over Conductors "A"	Lead Sheath Diameter "G"		Overall Cable Diameter "B"		Armour Range †				Across Flats "D"		Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option							Grooved Cone (X)		Stepped Cone (W)		Max	Max			Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric "E")	NPT	Thread Length (NPT) "E"	NPT	Max	Max	Min	Max	Min	Max	Min	Max											
														Min	Max	Min	Max							
20S16	M20	15.0	½"	19.9	¾"	11	7.8	3.1	7.8	6.1	13.1	0.3	1.0	0.8	1.25	30.5	33.6	62.0	20S16	PX2KPBREX	1RA	PVC06	0.25	
20S	M20	15.0	½"	19.9	¾"	11	11.0	6.1	11.0	9.5	15.9	0.3	1.0	0.8	1.25	30.5	33.6	62.0	20S	PX2KPBREX	1RA	PVC06	0.23	
20	M20	15.0	½"	19.9	¾"	11	12.6	6.5	13.4	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	63.0	20	PX2KPBREX	1RA	PVC06	0.24	
25S	M25	15.0	¾"	20.2	1"	21	17.5	11.1	19.3	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	69.5	25S	PX2KPBREX	1RA	PVC09	0.37	
25	M25	15.0	¾"	20.2	1"	21	17.5	11.1	19.3	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	69.5	25	PX2KPBREX	1RA	PVC09	0.37	
32	M32	15.0	1"	25.0	1 ¼"	38	23.6	17.0	25.5	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	75.0	32	PX2KPBREX	1RA	PVC11	0.57	
40	M40	15.0	1 ¼"	25.6	1 ½"	59	27.9	22.0	31.2	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	75.0	40	PX2KPBREX	1RA	PVC15	0.80	
50S	M50	15.0	1 ½"	26.1	2"	89	35.2	29.5	37.2	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	77.0	50S	PX2KPBREX	1RA	PVC18	0.90	
50	M50	15.0	2"	26.9	2 ½"	89	40.4	35.6	42.6	40.4	53.0	0.6	1.6	2.0	2.5	70.0	77.0	77.0	50	PX2KPBREX	1RA	PVC21	1.19	
63S	M63	15.0	2"	26.9	2 ½"	115	45.6	40.1	48.5	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	79.7	63S	PX2KPBREX	1RA	PVC23	1.41	
63	M63	15.0	2 ½"	39.9	3"	115	53.7	47.2	54.2	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	80.3	63	PX2KPBREX	1RA	PVC25	1.44	
75S	M75	15.0	2 ½"	39.9	3"	140	59.0	52.8	60.2	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	86.8	75S	PX2KPBREX	1RA	PVC28	2.13	
75	M75	15.0	3"	41.5	3 ½"	140	64.2	59.1	65.2	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	88.3	75	PX2KPBREX	1RA	PVC30	2.57	
90	M90	24.0	3 ½"	42.8	4"	200	75.3	66.6	77.1	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	102.1	90	PX2KPBREX	1RA	PVC32	3.75	
100	M100	24.0	3 ½"	42.8	4"	200	85.6	76.0	88.1	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	114.0	100	PX2KPBREX	1RA	LSF33	4.87	

*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; 1/2" = 31; 3/4" = 32; 1" = 33; 1 1/4" = 34; 1 1/2" = 35; 2" = 36; 2 1/2" = 37; 3" = 38; 3 1/2" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32PX2KPBREX1RA534 = Nickel Plated Brass 1 1/4" NPT, 50SPX2KPBREX1RA035 = Brass 1 1/2" NPT, 25PX2KPBREX1RA432 = Stainless Steel 3/4" NPT, 20PX2KPBREX1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



PXSS2KREX



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



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
ATEX Certificate	SIRA13ATEX1072X, SIRA13ATEX4078X
Code of Protection	Ex II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da Ex II 3G Ex nR IIC Gc, Ex IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0, 1, 15, 31
IECEx Certificate	IECEx SIR 13.0027X, IECEx SIM 14.0008X
Code of Protection	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	IEC 60079-0, 1, 15, 31
cCSAus Certificate (20S16 - 100)	2288626
CSAus Code of Protection***	Class I, Div. 1, 2 Groups A, B, C and D; Class II, Div. 1, 2 Groups E, F and G; Class III, Div. 1, 2; Type 4X: Oil Resistant II: Class I, Zone 1 AEx d IIC Gb, AEx e IIC Gb, Class I, Zone 2 AEx nR IIC Gc, Class I, Zone 20 AEx ta IIIC Da
cCSA Code of Protection***	Class I, Div. 1, 2 Groups A, B, C and D; Class II, Div. 1, 2 Groups E, F and G; Class III, Div. 1, 2; Type 4X: Oil Resistant II: Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da
Compliance Standards	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-E60079-0, 1, 7, 31 CAN CSA-E6124111, Part 11, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0:07
EAC Certificate	TC RU C-GB.ГБ05.В00138
UkrSEPRO	UA.TR.047.C.0644-15
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
INMETRO Approval	TUV 12.2073X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3) DNV: E-13848 ABS: 14-LD234401A-4-PDA, BV: 43180/A1
Ingress Protection Rating**	IP66, IP67 & IP68
Deluge Protection Compliance	DTS01 : 91
Cable Gland Material	Electroless Nickel Plated Brass, Brass, Stainless Steel, Aluminium
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer / RapidEx Barrier Compound
Cable Type	Unarmoured***
Sealing Technique	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
Sealing Area(s)	RapidEx Resin Barrier & 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.

***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

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

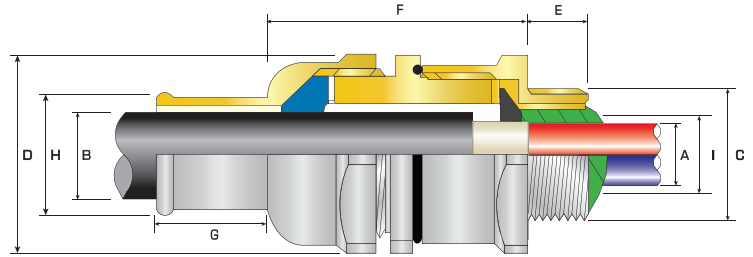
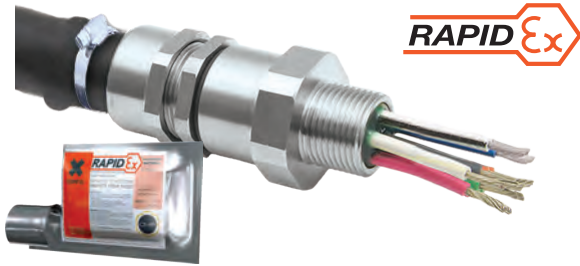
Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Number of Cores	Diameter Over Conductors "A"	Cable Bedding Diameter "G"	Overall Cable Diameter "B"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option									Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Max	Max	Max	Min	Max	Max	Max						
20S16	M20	15.0	½"	19.9	¾"	11	8.6	8.6	3.1	8.6	30.0	33.0	53.1	20S16	PXSS2KREX	1RA	PVC06	0.200
20S	M20	15.0	½"	19.9	¾"	11	11.7	11.7	6.1	11.7	30.0	33.0	53.1	20S	PXSS2KREX	1RA	PVC06	0.200
20	M20	15.0	½"	19.9	¾"	11	12.6	12.9	6.5	14.0	30.0	33.0	54.2	20	PXSS2KREX	1RA	PVC06	0.200
20L	M20	15.0	½"	19.9	¾"	11	12.6	12.9	10.0	15.9	30.0	33.0	54.2	20L	PXSS2KREX	1RA	PVC06	0.200
25	M25	15.0	¾"	20.2	1"	21	17.5	17.9	11.1	20.0	36.0	39.6	60.0	25	PXSS2KREX	1RA	PVC09	0.330
32	M32	15.0	1"	25.0	1 ¼"	38	23.6	23.9	17.0	26.3	41.0	45.1	61.1	32	PXSS2KREX	1RA	PVC10	0.590
32L	M32	15.0	1"	25.0	1 ¼"	38	23.6	23.9	20.0	27.4	41.0	45.1	61.1	32L	PXSS2KREX	1RA	PVC10	0.590
40	M40	15.0	1 ½"	25.6	1 ½"	59	30.0	30.3	22.0	32.1	50.0	55.0	62.4	40	PXSS2KREX	1RA	PVC13	0.560
50S	M50	15.0	1 ½"	26.1	2"	89	36.6	36.9	29.5	38.2	55.0	60.5	65.2	50S	PXSS2KREX	1RA	PVC15	0.660
50	M50	15.0	2"	26.9	2 ½"	89	41.0	41.3	35.6	44.0	60.0	66.0	67.6	50	PXSS2KREX	1RA	PVC18	0.730
63S	M63	15.0	2"	26.9	2 ½"	115	47.9	48.4	40.1	49.9	70.0	77.0	71.1	63S	PXSS2KREX	1RA	PVC21	1.070
63	M63	15.0	2 ½"	39.9	3"	115	53.7	54.0	47.2	55.9	75.0	82.5	70.4	63	PXSS2KREX	1RA	PVC23	1.060
75S	M75	15.0	2 ½"	39.9	3"	140	59.9	60.2	52.8	61.9	80.0	88.0	75.3	75S	PXSS2KREX	1RA	PVC25	1.300
75	M75	15.0	3"	41.5	3 ½"	140	64.3	64.2	59.1	67.9	85.0	93.5	74.9	75	PXSS2KREX	1RA	PVC27	1.300
90	M90	24.0	3 ½"	42.8	4"	200	75.3	75.6	66.6	79.4	108.0	118.8	94.8	90	PXSS2KREX	1RA	PVC31	3.020
100	M100	24.0	3 ½"	42.8	4"	200	85.6	85.9	76.0	90.9	123.0	135.3	86.3	100	PXSS2KREX	1RA	LSF33	4.000

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

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

Examples: 32PXSS2KREX1RA534 = Nickel Plated Brass 1 1/4" NPT, 50SPXSS2KREX1RA035 = Brass 1 1/2" NPT, 25PXSS2KREX1RA432 = Stainless Steel 3/4" NPT, 20PXSS2KREX1RA5 Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



PXSS2KHCREX



PXSS2KHCREX Globally Approved, Explosive Atmosphere RapidEx Barrier Cable Gland

For all types of Unarmoured & Braid cables housed in Flexible Hose

- 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



Epoxy compound version also available

Available for Group I & II use

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
ATEX Certificate	SIRA13ATEX1072X, SIRA13ATEX4078X
Code of Protection	II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da II 3G Ex nR IIC Gc, IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0027X, IECEx SIM 14.0008X
Code of Protection	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	IEC 60079-0,1,7,15,31
EAC Certificate	TC RU C-GB.ГБ05.В00138
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
INMETRO Approval	TÜV 12.2073X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 ABS: 01LD234401A/3-PDA
Ingress Protection Rating**	IP66, IP67 & IP68***
Deluge Protection Compliance	DTS01 : 91
Cable Gland Material	Electroless Nickel Plated Brass, Brass, Stainless Steel, Aluminium
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer / RapidEx Barrier Compound
Cable Type	Unarmoured
Armour Clamping	Detachable Resin Tube / Cone & AnyWay Universal Clamping Ring
Sealing Technique	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
Sealing Area(s)	RapidEx Resin Barrier & 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.

*** 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.

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

Cable Gland Size	Minimum Entry Thread (Metric) "C"	Minimum Thread Length "E"	Diameter Over Conductors "A"	Max Number Of Cores	Overall Cable Diameter "B"		Nominal Hose Bore Ø "H"	Across Flats "D"	Across Corners "D"	Nominal * Protusion Length Without Hose Connection "F"	Hose Connection Length "G"	Overall Length "E" + "F" + "G" *	Combined Ordering Reference (**Brass Metric)			Shroud	Cable Gland Weight (Kgs)
					Min	Max		Max	Max				Size	Type	Ordering Suffix		
20S16	M20	15.0	8.6	11	3.1	8.6	13.0	30.0	33.0	51.1	16.0	82.5	20S16	PXSS2KREXHC13	1RA	PVC06	0.220
20S16	M20	15.0	8.6	11	3.1	8.6	16.0	30.0	33.0	51.1	16.0	82.5	20S16	PXSS2KREXHC16	1RA	PVC06	0.220
20S	M20	15.0	11.7	11	6.1	11.7	16.0	30.0	33.0	49.3	16.0	82.5	20S	PXSS2KREXHC16	1RA	PVC06	0.220
20	M20	15.0	12.6	11	6.5	14.0	19.0	30.0	33.0	50.0	20.0	86.9	20	PXSS2KREXHC19	1RA	PVC06	0.220
25	M25	15.0	17.5	21	11.1	20.0	25.0	36.0	39.6	55.3	27.0	98.8	25	PXSS2KREXHC25	1RA	PVC09	0.360
32	M32	15.0	23.6	38	17.0	26.3	32.0	41.0	45.1	55.6	33.0	105.2	32	PXSS2KREXHC32	1RA	PVC10	0.450
40	M40	15.0	30.0	59	22.0	32.1	38.0	50.0	55.0	56.3	41.0	114.1	40	PXSS2KREXHC38	1RA	PVC13	0.650
50S	M50	15.0	36.6	89	29.5	38.2	51.0	60.0	66.0	57.3	54.0	128.5	50S	PXSS2KREXHC51	1RA	PVC18	1.070
50	M50	15.0	41.0	89	35.6	44.0	51.0	60.0	66.0	62.2	54.0	132.1	50	PXSS2KREXHC51	1RA	PVC18	0.950
63S	M63	15.0	47.9	115	40.1	49.9	63.0	70.1	77.1	63.0	70.0	150.1	63S	PXSS2KREXHC63	1RA	PVC21	1.730
63	M63	15.0	53.7	115	47.2	55.9	63.0	75.0	82.5	65.0	70.0	152.6	63	PXSS2KREXHC63	1RA	PVC23	1.430
75S	M75	15.0	59.9	140	52.8	61.9	76.0	80.4	88.4	65.6	91.5	174.6	75S	PXSS2KREXHC76	1RA	PVC26	2.500
75	M75	15.0	64.3	140	59.1	67.9	76.0	85.0	93.5	63.7	91.5	177.4	75	PXSS2KREXHC76	1RA	PVC27	1.960

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

**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: 50SPXSS2KREXHC511RA5 = Nickel Plated Brass 50mm, 25PXSS2KREXHC251RA4 = Stainless Steel M25

Dimensions are displayed in millimetres unless otherwise stated


RAPIDEx
PXRCREX

Ex e Ex d Ex ta

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
- Internationally marked, IECEx & ATEX



Alternative conduit sizes available upon request.

See cable gland selection table below for full NPT & Metric thread ordering references

THREAD OPTION ORDERING EXAMPLES

Ordering Reference	Male Thread	Female Thread
20PXRCREX1RA	M20	M20
20PXRCREX1RA031	M20	1/2" NPT
20PXRCREX1RA03131	1/2" NPT	1/2" NPT
20PXRCREX1RA031021	1/2" NPT	M20

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. 32PXRCREX1RA53405 (1 1/4" NPT Male x M40 Female)

Cable Gland Selection Table

Refer to illustration at the top of the page.

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Max Number Of Cores	Standard Female Connection Thread "H"	Diameter Over Conductors "A"	Cable Bedding Diameter "G"	Overall Cable Diameter "B"	Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option									Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT													
20	M20	15.0	½"	19.9	¾"	11	M20	12.6	12.9	13.9	30.0	33.0	45.9	20	PXRCREX	1RA	PVC06	0.170
25	M25	15.0	¾"	20.2	1"	21	M25	17.5	17.9	19.9	41.0	45.1	53.6	25	PXRCREX	1RA	PVC09	0.330
32	M32	15.0	1"	25.0	1 ¼"	38	M32	23.6	23.9	26.2	41.0	45.1	51.8	32	PXRCREX	1RA	PVC10	0.320
40	M40	15.0	1 ¼"	25.6	1 ½"	59	M40	30.0	30.3	32.3	50.0	55.0	48.6	40	PXRCREX	1RA	PVC13	0.420
50S	M50	15.0	1 ½"	26.1	2"	89	M50	36.6	36.9	38.9	55.0	60.5	59.1	50S	PXRCREX	1RA	PVC15	0.570
50	M50	15.0	2"	26.9	2 ½"	89	M50	41.0	41.3	44.2	60.0	66.0	64.0	50	PXRCREX	1RA	PVC18	0.610
63S	M63	15.0	2"	26.9	2 ½"	115	M63	47.9	48.4	50.0	70.1	77.1	62.6	63S	PXRCREX	1RA	PVC21	0.940
63	M63	15.0	2 ½"	39.9	3"	115	M63	53.7	54.0	58.0	75.0	82.5	64.6	63	PXRCREX	1RA	PVC23	0.890
75S	M75	15.0	2 ½"	39.9	3"	140	M75	59.9	60.2	62.4	84.0	92.4	71.7	75S	PXRCREX	1RA	PVC27	1.290
75	M75	15.0	3"	41.5	3 ½"	140	M75	64.3	64.2	68.1	85.0	93.5	71.2	75	PXRCREX	1RA	PVC27	1.160
90	M90	24.0	3 ½"	42.8	4"	200	M90	75.3	75.6	80.1	108.0	118.8	87.3	90	PXRCREX	1RA	PVC31	2.630

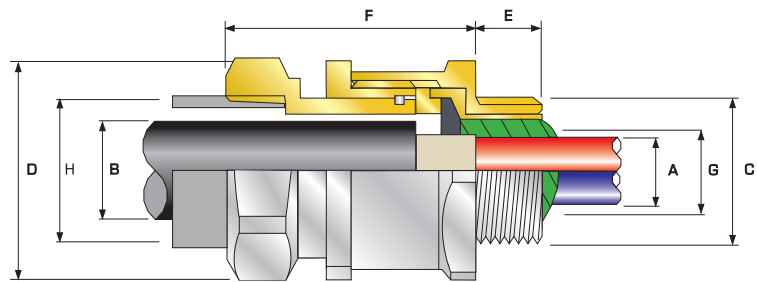
*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'

For NPT male and / or female options please add the following digits to the material suffix (See Thread Options table above); 1/2" = 31, 3/4" = 32, 1" = 33, 1 1/4" = 34, 1 1/2" = 35, 2" = 36, 2 1/2" = 37, 3" = 38, 3 1/2" = 39, 4" = 310 (Brass requires prefix "0")

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

Examples: 32PXRCREX1RA533 = Nickel Plated Brass M32 male x 1" NPT female, 20S16PXRCREX1RA031 = Brass M20 male x 1/2" NPT female, 25PXRCREX1RA43202 = Stainless Steel 1/4" NPT male x M25 female, 20PXRCREX1RA5 = Nickel Plated Brass M20 male & female

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 B
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ATEX Certificate	SIRA13ATEX1072X
Code of Protection	Ex II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da
Compliance Standards	EN 60079-0,1,7,31
IECEx Certificate	IECEx SIR 13.0027X, IECEx SIM 14.0008X
Code of Protection	Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da
Compliance Standards	IEC 60079-0,1,7,31
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
INMETRO Approval	TÜV 12.2073X
EAC Certificate	TC RU C-GB.605.B.01271
UkrSEPRO	UA.TR.047.C.0644-15
CCOE / PESO (India) Certificate	P333688
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3) DNV: E-13848 ABS: 14-LD234401A-4-PDA
Ingress Protection Rating**	IP66
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel
Seal Material	RapidEx Barrier Compound
Cable Type	Unarmoured
Sealing Area(s)	RapidEx Resin Barrier

* 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.



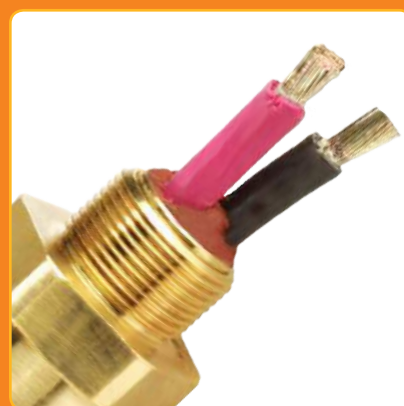


Explosive Atmosphere Compound Barrier Cable Glands

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.





PX2K



PX2K Globally Approved, Explosive Atmosphere Barrier Cable Gland

For all types of Armoured cables

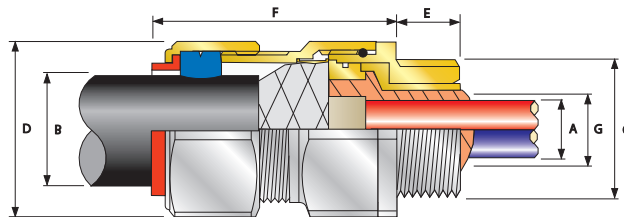
- Metal-to-metal armour clamping
- Direct & remote installation
- Compound barrier type flameproof seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Integral protected deluge seal
- -60°C to +85°C
- Globally marked, IECEx, ATEX, UL & cCSAus
- Superior EMC performance



† **Grooved Cone (X)** is 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), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) 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 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.

Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.



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, SIRA13ATEX4078X
Code of Protection	⊕ II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIC Da ⊕ II 3G Ex nR IIC Gc, ⊕ IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0, 1, 7, 15, 31
IECEx Certificate	IECEx SIR 13.0027X, IECEx 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	IEC 60079-0, 1, 7, 15, 31
cCSAus Certificate (20S16 - 100)	2288626
CSAus Code of Protection***	Class I, Div. 1, 2 Groups A, B, C and D; Class II, Div. 1, 2 Groups E, F and G; Class III, Div. 1, 2; Type 4X: Oil Resistant II: Class I, Zone 1 AEx d IIC Gb, AEx e IIC Gb, Class I, Zone 2 AEx nR IIC Gc, Class I, Zone 20 AEx ta IIC Da
cCSA Code of Protection***	Class I, Div. 1, 2 Groups A, B, C and D; Class II, Div. 1, 2 Groups E, F and G; Class III, Div. 1, 2; Type 4X: Oil Resistant II: Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIC Da
Compliance Standards	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-E60079-0, 1, 7, 15, 31 CAN/CSA-E6124111 Part 11, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079
UL Certificate (20S16 -100)	E201187, E161256C
Code of Protection	Class I Div 1,2, Groups A,B,C,D, Class II Div 1,2, Groups E,F,G
Compliance Standards	UL 2225, CSA C22.2 No 174, UL 514B, CSA C22.2 No 18, CSA C22.2 No 30
EAC Certificate	TC RU C-GB.Г505.В00138
UkrSEPRO	UA.TR.047.C.0644-15
KCS Certificate	14-GA480-0252X
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
INMETRO Approval	TÜV 12.2073X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3) DNV: E-13848 ABS: 14-LD234401A-4-PDA, BV: 43180/A1
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 / Epoxy Barrier Compound
Cable Type	Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Wire Braid Armour (e.g. SWB), Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Strip Armour (e.g. ASA)***
Armour Clamping	Detachable Compound Tube / Cone & AnyWay Universal Clamping Ring
Sealing Technique	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
Sealing Area(s)	Inner Compound Barrier & 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.

***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

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

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)				Number of Cores	Diameter Over Conductors "A"	Cable Bedding Diameter "G"	Overall Cable Diameter "B"		Armour Range †				Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)	
	Standard									Option	Grooved Cone (X)		Stepped Cone (W)				Ordering Suffix					
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Max	Max	Max	Min	Max	Min	Max	Min	Max	Max		Max	Size	Type			Ordering Suffix
20S16	M20	15.0	½"	19.9	¾"	11	11.7	11.7	6.1	13.1	0.3	1.0	0.8	1.25	30.5	33.6	62.0	20S16	PX2K	1RA	PVC06	0.24
20S	M20	15.0	½"	19.9	¾"	11	11.7	11.7	9.5	15.9	0.3	1.0	0.8	1.25	30.5	33.6	62.0	20S	PX2K	1RA	PVC06	0.23
20	M20	15.0	½"	19.9	¾"	11	12.6	12.9	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	63.0	20	PX2K	1RA	PVC06	0.24
25S	M25	15.0	¾"	20.2	1"	21	17.5	17.9	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	69.5	25S	PX2K	1RA	PVC09	0.37
25	M25	15.0	¾"	20.2	1"	21	17.5	17.9	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	69.5	25	PX2K	1RA	PVC09	0.37
32	M32	15.0	1"	25.0	1 ¼"	38	23.6	23.9	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	75.0	32	PX2K	1RA	PVC11	0.57
40	M40	15.0	1 ¼"	25.6	1 ½"	59	30.0	30.3	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	75.0	40	PX2K	1RA	PVC15	0.80
50S	M50	15.0	1 ½"	26.1	2"	89	36.6	36.9	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	77.0	50S	PX2K	1RA	PVC18	0.90
50	M50	15.0	2"	26.9	2 ½"	89	41.0	41.3	40.4	53.0	0.6	1.6	2.0	2.5	70.0	77.0	77.0	50	PX2K	1RA	PVC21	1.19
63S	M63	15.0	2"	26.9	2 ½"	115	47.9	48.4	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	79.7	63S	PX2K	1RA	PVC23	1.39
63	M63	15.0	2 ½"	39.9	3"	115	53.7	54.0	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	80.3	63	PX2K	1RA	PVC25	1.41
75S	M75	15.0	2 ½"	39.9	3"	140	59.9	60.2	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	86.8	75S	PX2K	1RA	PVC28	2.09
75	M75	15.0	3"	41.5	3 ½"	140	64.2	64.2	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	88.3	75	PX2K	1RA	PVC30	2.54
90	M90	24.0	3 ½"	42.8	4"	200	75.3	75.6	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	102.1	90	PX2K	1RA	PVC32	3.71
100	M100	24.0	3 ½"	42.8	4"	200	85.6	85.9	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	114.0	100	PX2K	1RA	LSF33	4.31

*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: 32PX2K1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SPX2K1RA035 = Brass 1 ½" NPT, 25PX2K1RA432 = Stainless Steel ¾" NPT, 20PX2K1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated


PX2KX


PX2KX Globally Approved, Explosive Atmosphere Barrier Cable Gland

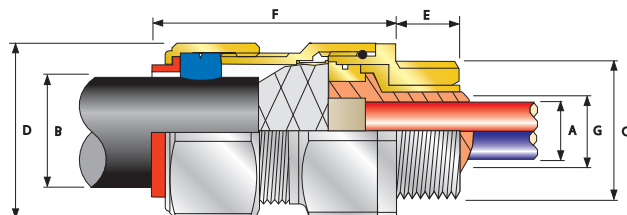
For all types of Braided & Tape Armoured Cables

- Metal-to-metal armour clamping
- Direct & remote installation
- Compound barrier type flameproof seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Integral protected deluge seal
- -60°C to +85°C
- Globally marked, IECEx, ATEX, UL & cCSAus
- Superior EMC performance



† Grooved Cone (X) is 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), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) 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 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.



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
Electrical Classifications*	Category B (Category A when used with braid, tape or pliable wire armour cables)
ATEX Certificate	SIRA13ATEX1072X, SIRA13ATEX4078X
Code of Protection	Ex II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da, Ex II 3G Ex nR IIC Gc, Ex IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0, 1, 7, 15, 31
IECEx Certificate	IECEx SIR 13.0027X, IECEx SIM 14.0008X
Code of Protection	Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex d I, Ex e I
Compliance Standards	IEC 60079-0, 1, 7, 15, 31
cCSAus Certificate (20S16 - 100)	2288626
CSAus Code of Protection***	Class I, Div. 1, 2 Groups A, B, C and D; Class II, Div. 1, 2 Groups E, F and G; Class III, Div. 1, 2; Type 4X: Oil Resistant II: Class I, Zone 1 AEx d IIC Gb, AEx e IIC Gb, Class I, Zone 2 AEx nR IIC Gc, Class I, Zone 20 AEx ta IIIC Da
cCSA Code of Protection***	Class I, Div. 1, 2 Groups A, B, C and D; Class II, Div. 1, 2 Groups E, F and G; Class III, Div. 1, 2; Type 4X: Oil Resistant II: Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da
Compliance Standards	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-E60079-0, 1, 7, 15, 31 CAN/CSA-E612411 Part 11, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079
UL Certificate (20S16 - 100)	E201187, E161256C
Code of Protection	Class I Div 1, 2, Groups A, B, C, D, Class II Div 1, 2, Groups E, F, G
Compliance Standards	UL 2225, CSA C22.2 No 174, UK 514B, CSA C22.2 No 18, CSA C22.2 No 30
EAC Certificate	TC RU C-GB.7605.B00138
UkrSEPRO	UA.TR.047.C.0644-15
KCS Certificate	14-GA4BO-0252X
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
INMETRO Approval	TUV 12.2073X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3) DNV: E-13848 ABS: 14-LD234401A-4-PDA, BV: 43180/A1
Ingress Protection Rating**	IP66, IP67 & IP68****
Deluge Protection Compliance	DTS01 : 91
Cable Gland Material	Electroless Nickel Plated Brass, Brass, Stainless Steel, Aluminium
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound
Cable Type	Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Wire Braid Armour (e.g. SWB), Aluminium Strip Armour (ASA), Armoured & Jacketed***
Armour Clamping	Detachable Compound Tube / Cone & AnyWay Universal Clamping Ring
Sealing Technique	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
Sealing Area(s)	Inner Compound Barrier & 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.

***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

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

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Number of Cores	Diameter Over Conductors "A"	Cable Bedding Diameter "G"	Overall Cable Diameter "B"		Armour Range † Grooved Cone (X)		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option				Min	Max	Min	Max				Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	
20S16	M20	15.0	½"	19.9	¾"	11	11.7	11.7	6.1	13.1	0.3	1.0	30.5	33.6	62.0	20S16	PX2KX	1RA	PVC06	0.24
20S	M20	15.0	½"	19.9	¾"	11	11.7	11.7	9.5	15.9	0.3	1.0	30.5	33.6	62.0	20S	PX2KX	1RA	PVC06	0.23
20	M20	15.0	½"	19.9	¾"	11	12.6	12.9	12.5	20.9	0.4	1.0	30.5	33.6	63.0	20	PX2KX	1RA	PVC06	0.24
25S	M25	15.0	¾"	20.2	1"	21	17.5	17.9	14.0	22.0	0.4	1.2	37.5	41.3	69.5	25S	PX2KX	1RA	PVC09	0.37
25	M25	15.0	¾"	20.2	1"	21	17.5	17.9	18.2	26.2	0.4	1.2	37.5	41.3	69.5	25	PX2KX	1RA	PVC09	0.37
32	M32	15.0	1"	25.0	1 ¼"	38	23.6	23.9	23.7	33.9	0.4	1.2	46.0	50.6	75.0	32	PX2KX	1RA	PVC11	0.57
40	M40	15.0	1 ¼"	25.6	1 ½"	59	30.0	30.3	27.9	40.4	0.4	1.6	55.0	60.5	75.0	40	PX2KX	1RA	PVC15	0.80
50S	M50	15.0	1 ½"	26.1	2"	89	36.6	36.9	35.2	46.7	0.4	1.6	60.0	66.0	77.0	50S	PX2KX	1RA	PVC18	0.90
50	M50	15.0	2"	26.9	2 ½"	89	41.0	41.3	40.4	53.0	0.6	1.6	70.0	77.0	77.0	50	PX2KX	1RA	PVC21	1.19
63S	M63	15.0	2"	26.9	2 ½"	115	47.9	48.4	45.6	59.4	0.6	1.6	75.0	82.5	79.7	63S	PX2KX	1RA	PVC23	1.39
63	M63	15.0	2 ½"	39.9	3"	115	53.7	54.0	54.6	65.8	0.6	1.6	80.0	88.0	80.3	63	PX2KX	1RA	PVC25	1.41
75S	M75	15.0	2 ½"	39.9	3"	140	59.9	60.2	59.0	72.0	0.6	1.6	90.0	99.0	86.8	75S	PX2KX	1RA	PVC28	2.09
75	M75	15.0	3"	41.5	3 ½"	140	64.2	64.2	66.7	78.4	0.6	1.6	100.0	110.0	88.3	75	PX2KX	1RA	PVC30	2.54
90	M90	24.0	3 ½"	42.8	4"	200	75.3	75.6	76.2	90.3	0.8	1.6	115.0	126.5	102.1	90	PX2KX	1RA	PVC32	3.71
100	M100	24.0	3 ½"	42.8	4"	200	85.6	85.9	86.1	101.4	0.8	1.6	127.0	139.7	114.0	100	PX2KX	1RA	LSF33	4.31

*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass 'S'; 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: 32PX2KX1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SPX2KX1RA035 = Brass 1 ½" NPT, 25PX2KX1RA432 = Stainless Steel ¾" NPT, 20PX2KX1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



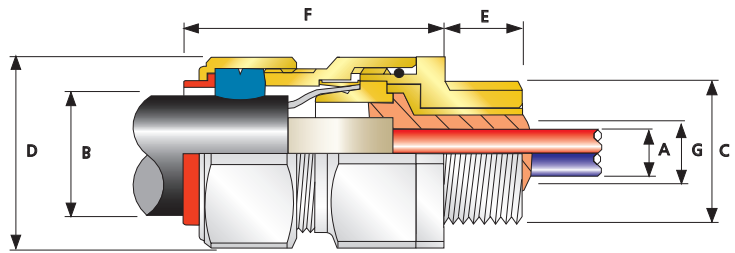
PX2KW



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
- Integral protected deluge seal
- -60°C to +85°C
- Globally marked, IECEx, ATEX, UL & cCSAus
- 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 B
ATEX Certificate	SIRA13ATEX1072X, SIRA13ATEX4078X
Code of Protection	Ex d IIC Gb, Ex e IIC Gb, Ex e IIC Gb, Ex ta IIC Da Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0027X, IECEx 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	IEC 60079-0,1,7,15,31
cCSAus Certificate (20S16 - 100)	2288626
CSAus Code of Protection***	Class I, Div. 2 Groups A, B, C and D; Class II, Div. 2 Groups F and G; Class III, Div. 2; Type 4X: Oil Resistant II: Class I, Zone 1 AEx d IIC Gb, AEx e IIC Gb, Class I, Zone 2 AEx nR IIC Gc, Class I, Zone 20 AEx ta IIC Da
cCSA Code of Protection***	Class I, Div. 2 Groups A, B, C and D; Class II, Div. 2 Groups F and G; Class III, Div. 2; Type 4X: Oil Resistant II: Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIC Da
Compliance Standards	CAN/CSA-C22.2 No 0,18,25,30,94,174, CAN/CSA-E60079-0,1,7,15,31 CAN/CSA-E6124111 Part 11, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079
UL Certificate (20S16 - 100)	E161256C
Code of Protection	Class I, Div 2, Groups A,B,C,D; Class II, Div 2, Groups F,G
Compliance Standards	UL 2225, CSA C22.2 No 174, UL 514B, CSA C22.2 No 18
EAC Certificate	TC RU C-GB.7605.B00138
UkrSEPRO	UA.TR.047.C.0644-15
KCS Certificate	14-GA480-0252X
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
INMETRO Approval	TÜV 12.2073X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3) DNV: E-13848 ABS: 14-LD234401A-4-PDA, BV: 43180/A1
Ingress Protection Rating**	IP66, IP67 & IP68****
Deluge Protection Compliance	DTS01 : 91
Cable Gland Material	Electroless Nickel Plated Brass, Brass, Stainless Steel, Aluminium
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 Compound Tube / Cone & AnyWay Universal Clamping Ring
Sealing Technique	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
Sealing Area(s)	Inner Compound Barrier & 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.

*** 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

Cable Gland Selection Table

Refer to illustration at the top of the page.

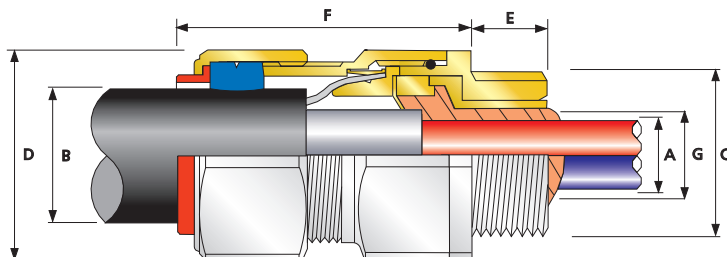
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Number of Cores	Diameter Over Conductors "A"	Cable Bedding Diameter "G"	Overall Cable Diameter "B"		Armour Range		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Cable Gland Weight (Kgs)	
	Standard				Option											Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Max	Max	Max	Min	Max	Min	Max	Max	Max						
20S16	M20	15.0	½"	19.9	¾"	11	11.7	11.7	6.1	13.1	0.8	1.25	30.5	33.6	62.0	20S16	PX2KW	1RA	PVC06	0.24
20S	M20	15.0	½"	19.9	¾"	11	11.7	11.7	9.5	15.9	0.8	1.25	30.5	33.6	62.0	20S	PX2KW	1RA	PVC06	0.23
20	M20	15.0	½"	19.9	¾"	11	12.6	12.9	12.5	20.9	0.8	1.25	30.5	33.6	63.0	20	PX2KW	1RA	PVC06	0.24
25S	M25	15.0	¾"	20.2	1"	21	17.5	17.9	14.0	22.0	1.25	1.6	37.5	41.3	69.5	25S	PX2KW	1RA	PVC09	0.37
25	M25	15.0	¾"	20.2	1"	21	17.5	17.9	18.2	26.2	1.25	1.6	37.5	41.3	69.5	25	PX2KW	1RA	PVC09	0.37
32	M32	15.0	1"	25.0	1 ¼"	38	23.6	23.9	23.7	33.9	1.6	2.0	46.0	50.6	75.0	32	PX2KW	1RA	PVC11	0.57
40	M40	15.0	1 ¼"	25.6	1 ½"	59	30.0	30.3	27.9	40.4	1.6	2.0	55.0	60.5	75.0	40	PX2KW	1RA	PVC15	0.80
50S	M50	15.0	1 ½"	26.1	2"	89	36.6	36.9	35.2	46.7	2.0	2.5	60.0	66.0	77.0	50S	PX2KW	1RA	PVC18	0.90
50	M50	15.0	2"	26.9	2 ½"	89	41.0	41.3	40.4	53.0	2.0	2.5	70.1	77.1	77.1	50	PX2KW	1RA	PVC21	1.19
63S	M63	15.0	2"	26.9	2 ½"	115	47.9	48.4	45.6	59.4	2.0	2.5	75.0	82.5	79.7	63S	PX2KW	1RA	PVC23	1.39
63	M63	15.0	2 ½"	39.9	3"	115	53.7	54.0	54.6	65.8	2.0	2.5	80.0	88.0	80.3	63	PX2KW	1RA	PVC25	1.41
75S	M75	15.0	2 ½"	39.9	3"	140	59.9	60.2	59.0	72.0	2.0	2.5	90.0	99.0	86.8	75S	PX2KW	1RA	PVC28	2.09
75	M75	15.0	3"	41.5	3 ½"	140	64.2	64.2	66.7	78.4	2.5	3.0	100.0	110.0	88.3	75	PX2KW	1RA	PVC30	2.54
90	M90	24.0	3 ½"	42.8	4"	200	75.3	75.6	76.2	90.3	3.15	4.0	115.0	126.5	102.1	90	PX2KW	1RA	PVC32	3.71
100	M100	24.0	3 ¾"	42.8	4"	200	85.6	85.9	86.1	101.4	3.15	4.0	127.0	139.7	114.0	100	PX2KW	1RA	LSF33	4.81

* For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass 'S'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1' For NPT options add the following digits to the material suffix; 1/2" = 31; 3/4" = 32; 1" = 33; 1 1/4" = 34; 1 1/2" = 35; 2" = 36; 2 1/2" = 37; 3" = 38; 3 1/2" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32PX2KW1RA534 = Nickel Plated Brass 1 1/4" NPT, 50SPX2KW1RA035 = Brass 1 1/2" NPT, 25PX2KW1RA432 = Stainless Steel 3/4" NPT, 20PX2KW1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated


PX2KPB


PX2KPB Internationally Approved, Explosive Atmosphere Barrier Cable Gland

For all types of Lead Sheathed Armoured cables

- Effectively earths / grounds lead sheathed cables
- Metal-to-metal armour clamping
- Direct & remote installation
- Compound barrier type flameproof seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Integral protected deluge seal
- 60°C to +85°C
- Internationally marked, IECEx & ATEX
- Superior EMC performance



† Grooved Cone (X) is 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), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) 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 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.

Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.

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, SIRA13ATEX4078X
Code of Protection	Ex II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da, Ex II 3G Ex nR IIC Gc, Ex IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0, 1, 7, 15, 31
IECEx Certificate	IECEx SIR 13.0027X, IECEx SIM 14.0008X
Code of Protection	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	IEC 60079-0, 1, 7, 15, 31
UkrSEPRO	UA.TR.047.C.0644-15
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
INMETRO Approval	TÜV 12.2073X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3), DNV: E-13848, ABS: 14-LD234401A-4-PDA, BV: 43180/A1
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 / Epoxy Barrier Compound
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)
Armour Clamping	Detachable Compound Tube / Cone & AnyWay Universal Clamping Ring
Sealing Technique	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
Sealing Area(s)	Inner Compound Barrier & 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.

*** 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.

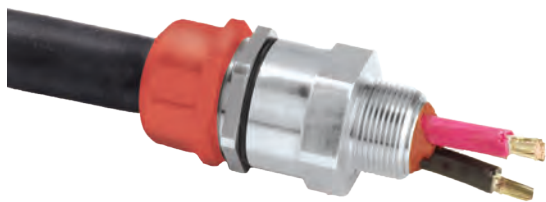
Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Number of Cores	Diameter Over Conductors "A"	Lead Sheath Diameter "G"		Overall Cable Diameter "B"		Armour Range †				Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)								
	Standard				Option																										
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT							Max	Max	Min	Max				Min	Max	Grooved Cone (X)			Stepped Cone (W)		Max	Max	Size	Type	Ordering Suffix	
																					Min			Max	Min						Max
20S16	M20	15.0	½"	19.9	¾"	11	7.8	3.1	7.8	6.1	13.1	0.3	1.0	0.8	1.25	30.5	33.6	62.0	20S16	PX2KPB	1RA	PVC06	0.25								
20S	M20	15.0	½"	19.9	¾"	11	11.0	6.1	11.0	9.5	15.9	0.3	1.0	0.8	1.25	30.5	33.6	62.0	20S	PX2KPB	1RA	PVC06	0.23								
20	M20	15.0	½"	19.9	¾"	11	12.6	6.5	13.4	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	63.0	20	PX2KPB	1RA	PVC06	0.24								
25S	M25	15.0	¾"	20.2	1"	21	17.5	11.1	19.3	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	69.5	25S	PX2KPB	1RA	PVC09	0.37								
25	M25	15.0	¾"	20.2	1"	21	17.5	11.1	19.3	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	69.5	25	PX2KPB	1RA	PVC09	0.37								
32	M32	15.0	1"	25.0	1 ¼"	38	23.6	17.0	25.5	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	75.0	32	PX2KPB	1RA	PVC11	0.57								
40	M40	15.0	1 ¼"	25.6	1 ½"	59	30.0	22.0	31.2	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	75.0	40	PX2KPB	1RA	PVC15	0.80								
50S	M50	15.0	1 ½"	26.1	2"	89	36.6	29.5	37.2	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	77.0	50S	PX2KPB	1RA	PVC18	0.90								
50	M50	15.0	2"	26.9	2 ½"	89	41.0	35.6	42.6	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	77.0	50	PX2KPB	1RA	PVC21	1.19								
63S	M63	15.0	2"	26.9	2 ½"	115	47.9	40.1	48.5	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	79.7	63S	PX2KPB	1RA	PVC23	1.41								
63	M63	15.0	2 ½"	39.9	3"	115	53.7	47.2	54.2	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	80.3	63	PX2KPB	1RA	PVC25	1.44								
75S	M75	15.0	2 ½"	39.9	3"	140	59.9	52.8	60.2	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	86.8	75S	PX2KPB	1RA	PVC28	2.13								
75	M75	15.0	3"	41.5	3 ½"	140	64.2	59.1	65.2	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	88.3	75	PX2KPB	1RA	PVC30	2.57								
90	M90	24.0	3 ½"	42.8	4"	200	75.3	66.6	77.1	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	102.1	90	PX2KPB	1RA	PVC32	3.75								
100	M100	24.0	4"	44.0	5"	200	85.6	76.0	88.1	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	114.0	100	PX2KPB	1RA	LSF33	4.87								

* 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: 32PX2KPB1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SPX2KPB1RA035 = Brass 1 ½" NPT, 25PX2KPB1RA432 = Stainless Steel ¾" NPT, 20PX2KPB1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



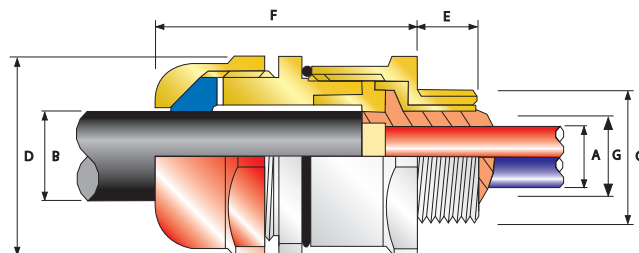
PXSS2K



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

For all types of Unarmoured & Braided Cables

- 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



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
ATEX Certificate	SIRA13ATEX1072X, SIRA13ATEX4078X
Code of Protection	Ex II 2 GD, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIC Da Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0027X, IECEx 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	IEC 60079-0,1,7,15,31
cCSAus Certificate (20516 - 100)	2288626
CSAus Code of Protection***	Class I, Div. 1, 2 Groups A, B, C and D; Class II, Div. 1, 2 Groups E, F and G; Class III, Div. 1, 2; Type 4X: Oil Resistant II: Class I, Zone 1 AEx d IIC Gb, AEx e IIC Gb, Class I, Zone 2 AEx nR IIC Gc, Class I, Zone 20 AEx ta IIC Da
cCSA Code of Protection***	Class I, Div. 1, 2 Groups A, B, C and D; Class II, Div. 1, 2 Groups E, F and G; Class III, Div. 1, 2; Type 4X: Oil Resistant II: Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIC Da
Compliance Standards	CAN/CSA-C22.2 No 0.18,25,30,174,94, CAN/CSA-E60079-0,1,7,15,31, CAN/CSA-E612411 Part 11, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079
UL Certificate (20516 - 100)	E201187B, E253914
Code of Protection	Class I, Groups A,B,C,D, Class II, Groups F,G Class I, Zone 1, AEx d IIC, AEx e II
Compliance Standards	UL 2225, CSA C22.2 No 174 UL 2225, UL 514B, UL 60079-0, UL 60079-7
EAC Certificate	TC RU C-GB.ГБ05.В00138
UkrSEPRO	UA.TR.047.C.0644-15
KCS Certificate	14-GA480-0252X
CCOE / PESO (India) Certificate	P333688
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
INMETRO Approval	TÜV 12.2073X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3) DNV: E-13848 ABS: 14-LD234401A-4-PDA, BV: 43180/A1
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 / Epoxy Barrier Compound
Cable Type	Unarmoured***
Sealing Technique	CMP Unique Displacement Seal Concept
Sealing Area(s)	Inner Compound Barrier & 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.

***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

Cable Gland Selection Table

Refer to illustration at the top of the page.

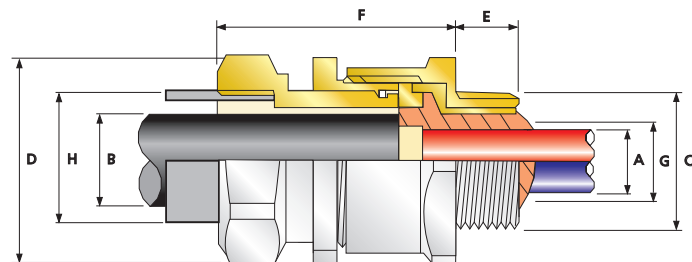
Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Number of Cores	Diameter Over Conductors "A"	Cable Bedding Diameter "G"	Overall Cable Diameter "B"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference ("Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option				Max	Max				Max	Min	Max		
	Metric	Min Thread Length (Metric) "E"	NPT	Thread Length (NPT)	NPT	Max	Max	Max	Min	Max	Max	Max		Size	Type	Ordering Suffix		
20S16	M20	15.0	½"	19.9	¾"	11	8.6	8.6	3.1	8.6	30.0	33.0	53.1	20S16	PXSS2K	1RA	PVC06	0.20
20S	M20	15.0	½"	19.9	¾"	11	11.7	11.7	6.1	11.7	30.0	33.0	53.1	20S	PXSS2K	1RA	PVC06	0.20
20	M20	15.0	½"	19.9	¾"	11	12.6	12.9	6.5	14.0	30.0	33.0	54.2	20	PXSS2K	1RA	PVC06	0.20
20L	M20	15.0	½"	19.9	¾"	11	12.6	12.9	10.0	15.9	30.0	33.0	54.2	20L	PXSS2K	1RA	PVC06	0.200
25	M25	15.0	¾"	20.2	1"	21	17.5	17.9	11.1	20.0	36.0	39.6	60.0	25	PXSS2K	1RA	PVC09	0.33
32	M32	15.0	1"	25.0	1 ¼"	38	23.6	23.9	17.0	26.3	41.0	45.1	61.1	32	PXSS2K	1RA	PVC10	0.39
32L	M32	15.0	1"	25.0	1 ¼"	38	23.6	23.9	20.0	27.4	41.0	45.1	61.1	32L	PXSS2K	1RA	PVC10	0.59
40	M40	15.0	1 ¼"	25.6	1 ½"	59	30.0	30.3	22.0	32.1	50.0	55.0	62.4	40	PXSS2K	1RA	PVC13	0.56
50S	M50	15.0	1 ½"	26.1	2"	89	36.6	36.9	29.5	38.2	55.0	60.5	65.2	50S	PXSS2K	1RA	PVC15	0.66
50	M50	15.0	2"	26.9	2 ½"	89	41.0	41.3	35.6	44.0	60.0	66.0	67.6	50	PXSS2K	1RA	PVC18	0.73
63S	M63	15.0	2"	26.9	2 ½"	115	47.9	48.4	40.1	49.9	70.1	77.1	71.1	63S	PXSS2K	1RA	PVC21	1.07
63	M63	15.0	2 ½"	39.9	3"	115	53.7	54.0	47.2	55.9	75.0	82.5	70.4	63	PXSS2K	1RA	PVC23	1.06
75S	M75	15.0	2 ½"	39.9	3"	140	59.9	60.2	52.8	61.9	80.0	88.0	75.3	75S	PXSS2K	1RA	PVC25	1.30
75	M75	15.0	3"	41.5	3 ½"	140	64.3	64.2	59.1	67.9	85.0	93.5	74.9	75	PXSS2K	1RA	PVC27	1.30
90	M90	24.0	3 ½"	42.8	4"	200	75.3	75.6	66.6	79.4	108.0	118.8	94.8	90	PXSS2K	1RA	PVC31	3.02
100	M100	24.0	3 ½"	42.8	4"	200	85.6	85.9	76.0	90.9	123.0	135.3	86.3	100	PXSS2K	1RA	LSF33	4.00

*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; 1/2" = 31, 3/4" = 32, 1" = 33, 1 1/4" = 34, 1 1/2" = 35, 2" = 36, 2 1/2" = 37, 3" = 38, 3 1/2" = 39, 4" = 310 (Brass requires prefix "0")

Examples: 32PXSS2K1RA534 = Nickel Plated Brass 1 1/4" NPT, 50SPXSS2K1RA035 = Brass 1 1/2" NPT, 25PXSS2K1RA432 = Stainless Steel 3/4" NPT, 20PXSS2K1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated


PXRC


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



Alternative conduit sizes available upon request.

See cable gland selection table below for full NPT & Metric thread ordering references

THREAD OPTION ORDERING EXAMPLES

Ordering Reference	Male Thread	Female Thread
20PXRC1RA	M20	M20
20PXRC1RA031	M20	1/2" NPT
20PXRC1RA03131	1/2" NPT	1/2" NPT
20PXRC1RA03102	1/2" NPT	M20

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. 32PXRC1RA53405 (1 1/4" NPT Male x M40 Female)

Cable Gland Selection Table

Refer to illustration at the top of the page.

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Number of Cores	Female Connection Thread "H"	Female Connection Thread (NPT) "H"	Diameter Over Conductors "A"	Cable Bedding Diameter "G"	Overall Cable Diameter "B"	Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Cable Gland Weight (Kgs)
	Standard				Option										Size	Type	Ordering Suffix	
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Max												
20	M20	15.0	½"	19.9	¾"	11	M20	½"	12.6	12.9	13.9	30.0	33.0	45.9	20	PXRC	1RA	0.17
25	M25	15.0	¾"	20.2	1"	21	M25	¾"	17.5	17.9	19.9	41.0	45.1	53.6	25	PXRC	1RA	0.33
32	M32	15.0	1"	25.0	1 ¼"	38	M32	1"	23.6	23.9	26.2	41.0	45.1	51.8	32	PXRC	1RA	0.32
40	M40	15.0	1 ¼"	25.6	1 ½"	59	M40	1 ¼"	30.0	30.3	32.3	50.0	55.0	48.6	40	PXRC	1RA	0.41
50S	M50	15.0	1 ½"	26.1	2"	89	M50	1 ½"	36.6	36.9	38.9	55.0	60.5	59.1	50S	PXRC	1RA	0.57
50	M50	15.0	2"	26.9	2 ½"	89	M50	2"	41.0	41.3	44.2	60.0	66.0	64.0	50	PXRC	1RA	0.61
63S	M63	15.0	2"	26.9	2 ½"	115	M63	2"	47.9	48.4	50.0	70.1	77.1	62.6	63S	PXRC	1RA	0.94
63	M63	15.0	2 ½"	39.9	3"	115	M63	2 ½"	53.7	54.0	58.0	75.0	82.5	64.6	63	PXRC	1RA	0.89
75S	M75	15.0	2 ½"	39.9	3"	140	M75	2 ½"	59.9	60.2	62.4	84.0	92.4	71.7	75S	PXRC	1RA	1.29
75	M75	15.0	3"	41.5	3 ½"	140	M75	3"	64.3	64.2	68.1	85.0	93.5	71.2	75	PXRC	1RA	1.16
90	M90	24.0	3 ½"	42.8	4"	200	M90	3 ½"	75.3	75.6	80.1	108.0	118.8	87.3	90	PXRC	1RA	2.63

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

For NPT male and / or female options please add the following digits to the material suffix (See Thread Options table above): 1/2" = 31, 3/4" = 32, 1" = 33, 1 1/4" = 34, 1 1/2" = 35, 2" = 36, 2 1/2" = 37, 3" = 38, 3 1/2" = 39, 4" = 310 (Brass requires prefix "0").

When NPT male & Metric female product option is required, please add the following digits to the material and NPT male suffix (See Thread Options table above): M20 = 01, M25 = 02, M32 = 03, M40 = 04, M50 = 05, M63 = 06, M75 = 07, M90 = 08 (Brass requires prefix "0").

Examples: 32PXRC1RA533 = Nickel Plated Brass M32 male x 1" NPT female, 20S16PXRC1RA031 = Brass M20 male x 1/2" NPT female, 25PXRC1RA43202 = Stainless Steel 1/4" NPT male x M25 female, 20PXRC1RA5 = Nickel Plated Brass M20 male & female

Dimensions are displayed in millimetres unless otherwise stated



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

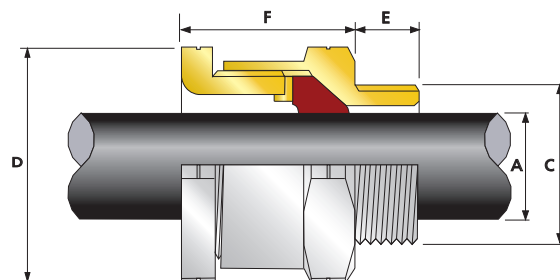
ThermEx -
Explosive Atmosphere Cable Glands rated up to 200°C

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

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



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
Continuous Operating Temperature	-60°C to +180°C
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	Unarmoured & Braided
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.

*** 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.

Dimensions listed below are for metric cable glands only

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

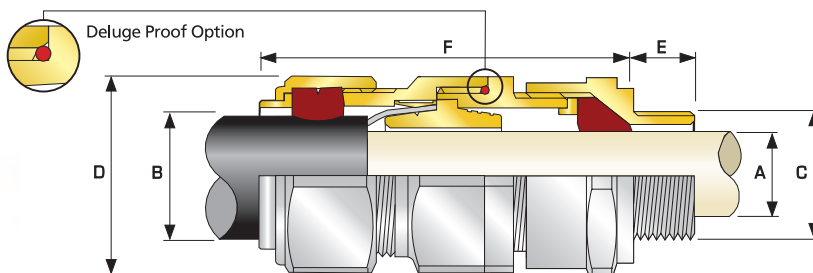
Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Overall Cable Diameter		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)		
	Standard				Option								
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Min	Max	Max	Max	Max	Size	Type	Ordering Suffix
16	M16	10.0	-	-	-	3.2	8.0	24.0	26.4	34.9	16	A2HT	1RA
16P	M16	10.0	-	-	-	3.2	8.0	22.0	24.2	34.7	16P	A2HT	1RA
20S/16	M20	10.0	1/2"	19.9	3/4"	3.2	8.0	24.0	26.4	32.9	20S16	A2HT	1RA
20S/16P	M20	10.0	-	-	-	3.2	8.0	22.0	24.2	32.4	20S16P	A2HT	1RA
20S	M20	10.0	1/2"	19.9	3/4"	6.5	11.2	24.0	26.4	34.9	20S	A2HT	1RA
20SP	M20	10.0	-	-	-	6.5	11.2	22.0	24.2	34.4	20SP	A2HT	1RA
20	M20	10.0	1/2"	19.9	3/4"	7.0	13.5	27.0	29.7	36.8	20	A2HT	1RA
20P	M20	10.0	-	-	-	7.0	13.5	24.0	26.4	41.1	20P	A2HT	1RA
25	M25	10.0	3/4"	20.2	1"	11.5	19.5	36.0	39.6	43.1	25	A2HT	1RA
25P	M25	10.0	-	-	-	11.5	19.5	32.0	35.2	49.4	25P	A2HT	1RA
32	M32	10.0	1"	25.0	1 1/4"	19.0	25.5	41.0	45.1	41.5	32	A2HT	1RA
40	M40	15.0	1 1/4"	25.6	1 1/2"	25.0	32.2	50.0	55.0	39.1	40	A2HT	1RA
50S	M50	15.0	1 1/2"	26.1	2"	31.0	38.2	55.0	60.5	41.4	50S	A2HT	1RA
50	M50	15.0	2"	26.9	2 1/2"	35.6	44.0	60.0	66.0	45.8	50	A2HT	1RA
63S	M63	15.0	2"	26.9	2 1/2"	41.5	49.9	70.5	77.6	43.3	63S	A2HT	1RA
63	M63	15.0	2 1/2"	39.9	3"	48.2	54.9	75.0	82.5	43.6	63	A2HT	1RA
75S	M75	15.0	2 1/2"	39.9	3"	54.0	61.9	84.0	92.4	45.4	75S	A2HT	1RA

*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; 1/2" = 31; 3/4" = 32; 1" = 33; 1 1/4" = 34; 1 1/2" = 35; 2" = 36; 2 1/2" = 37; 3" = 38; 3 1/2" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32A21RA534 = Nickel Plated Brass 1 1/4" NPT, 50SA21RA035 = Brass 1 1/2" NPT, 25A21RA432 = Stainless Steel 3/4" NPT, 20A21RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Please contact CMP for Cable Gland weights and Shroud sizing



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
- Secure against self-loosening
- Displacement type inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Deluge protection option
- Superior EMC performance



† Grooved Cone (X) is 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), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) 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 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.

Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.

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)
Continuous Operating Temperature	-20°C to +200°C
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), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Wire Braid Armour, Aluminium Strip Armour (ASA), Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Armoured & Jacketed
Armour Clamping	Reversible 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

* 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.

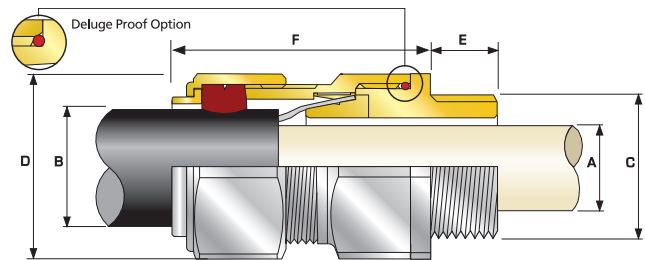
Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Cable Bedding Diameter "A"		Overall Cable Diameter "B"		Armour Range †				Across Flats "D"		Across Corners "D"		Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option														Size		Type		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Min	Max	Groove Cone (X)		Stepped Cone (W)		Max	Max	Size	Type	Ordering Suffix							
								Min	Max	Min	Max												
20S16	M20	10.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	72.5	20S16	E1UHT	1RA	PVC04	0.163		
20S	M20	10.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	70.0	20S	E1UHT	1RA	PVC04	0.150		
20	M20	10.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	73.0	20	E1UHT	1RA	PVC06	0.200		
25S	M25	10.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	89.0	25S	E1UHT	1RA	PVC09	0.330		
25	M25	10.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	89.0	25	E1UHT	1RA	PVC09	0.330		
32	M32	10.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	86.0	32	E1UHT	1RA	PVC11	0.430		
40	M40	15.0	1 ¼"	25.6	1 ½"	22.0	32.1	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	90.0	40	E1UHT	1RA	PVC15	0.620		
50S	M50	15.0	1 ½"	26.1	2"	29.5	38.1	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	91.0	50S	E1UHT	1RA	PVC18	0.750		
50	M50	15.0	2"	26.9	2 ½"	35.6	44.0	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	95.0	50	E1UHT	1RA	PVC21	0.950		
63S	M63	15.0	2"	26.9	2 ½"	40.1	49.9	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	102.0	63S	E1UHT	1RA	PVC23	1.340		
63	M63	15.0	2 ½"	39.9	3"	47.2	55.9	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	104.0	63	E1UHT	1RA	PVC25	1.340		
75S	M75	15.0	2 ½"	39.9	3"	52.8	61.9	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	115.0	75S	E1UHT	1RA	PVC28	2.110		
75	M75	15.0	3"	41.5	3 ½"	59.1	67.9	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	117.0	75	E1UHT	1RA	PVC30	2.420		
90	M90	24.0	3 ½"	42.8	4"	66.6	78.6	76.2	90.3	0.8	1.6	3.15	4.0	114.3	125.4	147.0	90	E1UHT	1RA	PVC32	4.210		
100	M100	24.0	3 ½"	42.8	4"	76.0	90.9	86.1	101.4	0.8	1.6	3.15	4.0	123.0	135.3	140.0	100	E1UHT	1RA	LSF33	4.450		
115	M115	24.0	4"	44.0	5"	86.0	97.9	101.5	110.2	0.8	1.6	3.15	4.0	133.4	146.7	162.0	115	E1UHT	1RA	LSF34	6.190		
130	M130	24.0	5"	46.8	-	97.0	114.9	110.2	123.2	0.8	1.6	3.15	4.0	152.4	160.6	174.0	130	E1UHT	1RA	LSF35	8.340		

*Note: For material options please add the following suffix to change the Ordering Reference: Brass (no suffix required), Nickel Plated Brass "S", 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: 32E1UHT1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SE1UHT1RA035 = Brass 1 ½" NPT, 25E1UHT1RA432 = 20E1UHT1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



CWHT

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



Deluge Proof option available (CWDHT)

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
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)	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.

* 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

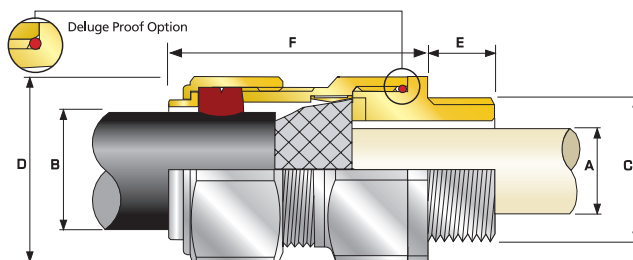
Refer to illustration at the top of the page.

Cable Gland Size	Entry Thread "C"	Thread Length (Metric) "E"	Cable Bedding Diameter "A"	Overall Cable Diameter "B"		Armour Range		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
			Max	Min	Max	Min	Max	Max	Max		Size	Type	Ordering Suffix		
20S16	M20	10.0	8.7	6.1	13.1	0.8	1.25	24.0	26.4	48.0	20S16	CWHT	1RA	PVC04	0.100
20S	M20	10.0	11.7	9.5	15.9	0.8	1.25	24.0	26.4	48.0	20S	CWHT	1RA	PVC04	0.100
20	M20	10.0	14.0	12.5	20.9	0.8	1.25	30.5	33.6	48.0	20	CWHT	1RA	PVC06	0.147
25S	M25	10.0	20.0	14.0	22.0	1.25	1.6	37.5	41.3	56.0	25S	CWHT	1RA	PVC09	0.224
25	M25	10.0	20.0	18.2	26.2	1.25	1.6	37.5	41.3	56.0	25	CWHT	1RA	PVC09	0.221
32	M32	10.0	26.3	23.7	33.9	1.6	2.0	46.0	50.6	54.0	32	CWHT	1RA	PVC11	0.306
40	M40	15.0	32.2	27.9	40.4	1.6	2.0	55.0	60.5	58.0	40	CWHT	1RA	PVC15	0.448
50S	M50	15.0	38.2	35.2	46.7	2.0	2.5	60.0	66.0	61.0	50S	CWHT	1RA	PVC18	0.567
50	M50	15.0	44.1	40.4	53.0	2.0	2.5	70.1	77.1	60.0	50	CWHT	1RA	PVC21	0.751
63S	M63	15.0	50.0	45.6	59.4	2.0	2.5	75.0	82.5	74.0	63S	CWHT	1RA	PVC23	1.036
63	M63	15.0	56.0	54.6	65.8	2.0	2.5	80.0	88.0	71.0	63	CWHT	1RA	PVC25	1.016
75S	M75	15.0	62.0	59.0	72.0	2.0	2.5	90.0	99.0	86.0	75S	CWHT	1RA	PVC28	1.787
75	M75	15.0	68.0	66.7	78.4	2.5	3.0	100.0	110.0	82.0	75	CWHT	1RA	PVC30	2.091
90	M90	24.0	80.0	76.2	90.3	3.15	4.0	114.3	125.7	95.0	90	CWHT	1RA	PVC32	3.044
100	M100	24.0	91.0	86.1	101.4	3.15	4.0	123.0	135.3	95.0	100	CWHT	1RA	LSF33	3.132
115	M115	24.0	98.0	101.5	110.2	3.15	4.0	133.4	146.7	107.5	115	CWHT	1RA	LSF34	4.476
130	M130	24.0	115.0	110.2	123.2	3.15	4.0	152.4	167.6	110.0	130	CWHT	1RA	LSF35	5.761

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

Examples: 20CWHT1RA5 = Nickel Plated Brass M20, 50CWHT1RA = Brass 50mm, 25CWHT1RA4 = Stainless Steel 25mm

Dimensions are displayed in millimetres unless otherwise stated



CXHT

CXHT High Temperature, Single Seal Industrial Cable Gland

For Braided & Steel Tape 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



Deluge Proof option available (CXDHT)

† Grooved Cone (X) is 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), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) 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 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.

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)
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
Cable 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' 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.

* 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.

Cable Gland Size	Entry Thread "C"	Thread Length (Metric) "E"	Cable Bedding Diameter "A"	Overall Cable Diameter "B"			Armour Range † Grooved Cone (X)		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
			Max	Min	Max	Min	Max	Max	Max	Max		Size	Type	Ordering Suffix		
20S16	M20	10.0	8.7	6.1	13.1	0.3	1.0	24.0	26.4	26.4	48.0	20S16	CXHT	1RA	PVC04	0.100
20S	M20	10.0	11.7	9.5	15.9	0.3	1.0	24.0	26.4	26.4	48.0	20S	CXHT	1RA	PVC04	0.100
20	M20	10.0	14.0	12.5	20.9	0.4	1.0	30.5	33.6	33.6	48.0	20	CXHT	1RA	PVC06	0.147
25S	M25	10.0	20.0	14.0	22.0	0.4	1.2	37.5	41.3	41.3	56.0	25S	CXHT	1RA	PVC09	0.224
25	M25	10.0	20.0	18.2	26.2	0.4	1.2	37.5	41.3	41.3	56.0	25	CXHT	1RA	PVC09	0.221
32	M32	10.0	26.0	23.7	33.9	0.4	1.2	46.0	50.6	50.6	54.0	32	CXHT	1RA	PVC11	0.308
40	M40	15.0	32.2	27.9	40.4	0.4	1.6	55.0	60.5	60.5	58.0	40	CXHT	1RA	PVC15	0.448
50S	M50	15.0	38.2	35.2	46.7	0.4	1.6	60.0	66.0	66.0	61.0	50S	CXHT	1RA	PVC18	0.567
50	M50	15.0	44.1	40.4	53.0	0.6	1.6	70.1	77.1	77.1	60.0	50	CXHT	1RA	PVC21	0.751
63S	M63	15.0	50.0	45.6	59.4	0.6	1.6	75.0	82.5	82.5	74.0	63S	CXHT	1RA	PVC23	1.036
63	M63	15.0	56.0	54.6	65.8	0.6	1.6	80.0	88.0	88.0	71.0	63	CXHT	1RA	PVC25	1.016
75S	M75	15.0	62.0	59.0	72.0	0.6	1.6	90.0	99.0	99.0	86.0	75S	CXHT	1RA	PVC28	1.787
75	M75	15.0	64.2	66.7	78.4	0.6	1.6	100.0	110.0	110.0	82.0	75	CXHT	1RA	PVC30	2.091
90	M90	24.0	78.6	76.2	90.3	0.8	1.6	114.3	125.7	125.7	95.0	90	CXHT	1RA	PVC32	3.044
100	M100	24.0	91.0	86.1	101.4	0.8	1.6	123.0	135.3	135.3	95.0	100	CXHT	1RA	LSF33	3.132
115	M115	24.0	98.0	101.5	110.2	0.8	1.6	133.4	146.7	146.7	107.5	115	CXHT	1RA	LSF34	4.476
130	M130	24.0	115.0	110.2	123.2	0.8	1.6	152.4	167.6	167.6	110.0	130	CXHT	1RA	LSF35	5.761

*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



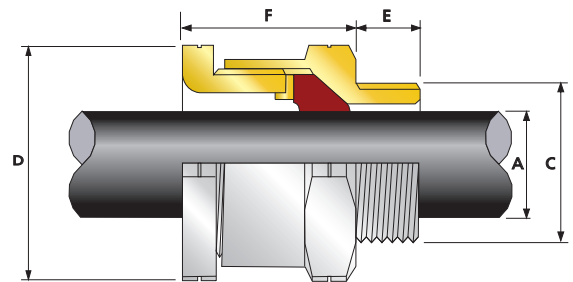
A2FHT



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 marked, IECEx & ATEX



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
ATEX Certificate	SIRA16ATEX1019X, SIRA16ATEX4021X
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	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.

*** 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.

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

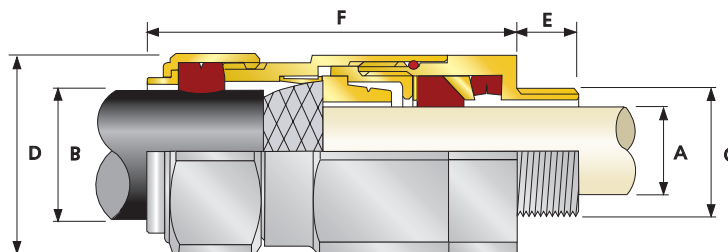
Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Overall Cable Diameter		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)		
	Standard				Option								
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Min	Max	Max	Max	Max	Size	Type	Ordering Suffix
16	M16	15.0	-	-	-	3.2	8.0	24.0	26.4	34.9	16	A2FHT	1RA
16P	M16	15.0	-	-	-	3.2	8.0	22.0	24.2	34.7	16P	A2FHT	1RA
20S/16	M20	15.0	1/2"	19.9	3/4"	3.2	8.0	24.0	26.4	31.4	20S16	A2FHT	1RA
20S/16P	M20	15.0	-	-	-	3.2	8.0	22.0	24.2	32.1	20S16P	A2FHT	1RA
20S	M20	15.0	1/2"	19.9	3/4"	6.5	11.2	24.0	26.4	32.1	20S	A2FHT	1RA
20SP	M20	15.0	-	-	-	6.5	11.2	22.0	24.2	32.1	20SP	A2FHT	1RA
20	M20	15.0	1/2"	19.9	3/4"	7.0	13.5	27.0	29.7	35.8	20	A2FHT	1RA
20P	M20	15.0	-	-	-	7.0	13.5	24.0	26.4	41.4	20P	A2FHT	1RA
25	M25	15.0	3/4"	20.2	1"	11.5	19.5	36.0	39.6	40.4	25	A2FHT	1RA
25P	M25	15.0	-	-	-	11.5	19.5	32.0	35.2	49.7	25P	A2FHT	1RA
32	M32	15.0	1"	25.0	1 1/4"	19.0	25.5	41.0	45.1	38.5	32	A2FHT	1RA
40	M40	15.0	1 1/4"	25.6	1 1/2"	25.0	32.2	50.0	55.0	39.1	40	A2FHT	1RA
50S	M50	15.0	1 1/2"	26.1	2"	31.0	38.2	55.0	60.5	41.4	50S	A2FHT	1RA
50	M50	15.0	2"	26.9	2 1/2"	35.6	44.0	60.0	66.0	45.8	50	A2FHT	1RA
63S	M63	15.0	2"	26.9	2 1/2"	41.5	49.9	70.5	77.6	43.3	63S	A2FHT	1RA
63	M63	15.0	2 1/2"	39.9	3"	48.2	54.9	75.0	82.5	43.6	63	A2FHT	1RA
75S	M75	15.0	2 1/2"	39.9	3"	54.0	61.9	84.0	92.4	45.4	75S	A2FHT	1RA

*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; 1/2" = 31; 3/4" = 32; 1" = 33; 1 1/4" = 34; 1 1/2" = 35; 2" = 36; 2 1/2" = 37; 3" = 38; 3 1/2" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32A2F1RA534 = Nickel Plated Brass 1 1/4" NPT, 50SA2F1RA035 = Brass 1 1/2" NPT, 25A2F1RA432 = Stainless Steel 3/4" NPT, 20A2F1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Please contact CMP for Cable Gland weights and Shroud sizing



T3CDSHT



Triton CDS (T3CDSHT) Internationally Approved, Explosive Atmosphere Cable Gland

For all types of Armoured Cables

- 20°C to 200°C high temperature ThermEx seals
- Fully sequential, three step installation procedure
- Reduces installation times, cost & risk
- Direct & remote installation
- Unique compensating displacement seal system (CDS)
 - Metal-to-metal installation every time regardless of cable diameter
- Designed to reduce the effects of Coldflow
- Integral protected deluge seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Internationally marked, IECEx & ATEX
- Superior EMC performance



† Grooved Cone (X) is 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), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) 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 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.

Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.

TECHNICAL DATA

Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classification	Impact = Level 8, Cable Anchorage = Class D
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
Electrical Classification	Category B (Category A when used with braid, tape or pliable wire armour cables)
ATEX Certificate	SIRA13ATEX1073X, SIRA13ATEX4079X
Code of Protection	⊕ II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da, Ⓢ II 3G Ex nR IIC Gc, Ⓢ I M2, Ex d I Mb, Ex e I Mb
Compliance Standards	EN60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0028X, IECEx SIM 14.0007X
Code of Protection	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	IEC 60079-0,1,7,15,31
Continuous Operating Temperature	-20°C to +200°C
Ingress Protection Rating**	IP66, IP67 & IP68***
Deluge Protection	DTS01 : 91
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
Cable Type(s)	Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Aluminium Strip Armour (ASA), Screened Flexible (EMC) Wire Braid (e.g. CY/SY), Wire Braid Armour (e.g. SWB)
Armour Clamping	Reversible Armour Cone & AnyWay Universal Clamping Ring
Sealing Technique	Inner Bedding Sealing Ring: Compensating Displacement Seal (CDS), Outer Sheath Sealing Ring: Load Retention Seal (LRS)
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

Cable Gland Selection Table

Refer to illustration at the top of the page.

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Cable Bedding Diameter "A"		Overall Cable Diameter "B"		Armour Range †				Across Flats "D"		Across Corners "D"		Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)				
	Standard				Option	Min	Max	Min	Max	Grooved Cone (X)		Stepped Cone (W)		Max	Max	Max	Max		Size	Type	Ordering Suffix						
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT					Min	Max	Min	Max											Min	Max	Min	Max
20S16	M20	15.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	78.7	20S16	T3CDSHT	1RA	PVC36	0.20						
20S	M20	15.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	78.7	20S	T3CDSHT	1RA	PVC36	0.20						
20	M20	15.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	76.2	20	T3CDSHT	1RA	PVC06	0.28						
25S	M25	15.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	88.8	25S	T3CDSHT	1RA	PVC09	0.44						
25	M25	15.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	88.7	25	T3CDSHT	1RA	PVC09	0.44						
32	M32	15.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	90.7	32	T3CDSHT	1RA	PVC11	0.63						
40	M40	15.0	1 ¼"	25.6	1 ½"	22.0	32.1	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	93.2	40	T3CDSHT	1RA	PVC15	0.91						
50S	M50	15.0	1 ½"	26.1	2"	29.5	38.1	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	100.7	50S	T3CDSHT	1RA	PVC18	1.12						
50	M50	15.0	2"	26.9	2 ½"	35.6	44.0	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	105.8	50	T3CDSHT	1RA	PVC21	1.60						
63S	M63	15.0	2"	26.9	2 ½"	40.1	49.9	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.4	102.5	63S	T3CDSHT	1RA	PVC23	1.73						
63	M63	15.0	2 ½"	39.9	3"	47.2	55.9	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	105.4	63	T3CDSHT	1RA	PVC25	1.78						
75S	M75	15.0	2 ½"	39.9	3"	52.8	61.9	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	110.6	75S	T3CDSHT	1RA	PVC28	2.57						
75	M75	15.0	3"	41.5	3 ½"	59.1	67.9	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	120.3	75	T3CDSHT	1RA	PVC30	3.33						
90	M90	24.0	3 ½"	42.8	4"	66.6	78.6	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	138.9	90	T3CDSHT	1RA	PVC32	4.87						
100	M100	24.0	3 ½"	42.8	4"	76.0	90.9	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	128.2	100	T3CDSHT	1RA	LSF33	4.97						
115	M115	24.0	4"	44.0	5"	86.0	97.9	101.5	110.2	0.8	1.6	3.15	4.0	138.0	151.8	161.3	115	T3CDSHT	1RA	LSF34	7.72						
130	M130	24.0	5"	46.8	-	97.0	114.9	110.2	123.2	0.8	1.6	3.15	4.0	157.0	172.7	173.3	130	T3CDSHT	1RA	LSF35	9.78						

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

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

Examples: 32T3CDSHT1RA534 = Nickel Plated Brass 1 1/4" NPT, 50S3T3CDSHT1RA035 = Brass 1 1/2" NPT, 25T3CDSHT1RA432 = Stainless Steel 3/4" NPT, 20T3CDSHT1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



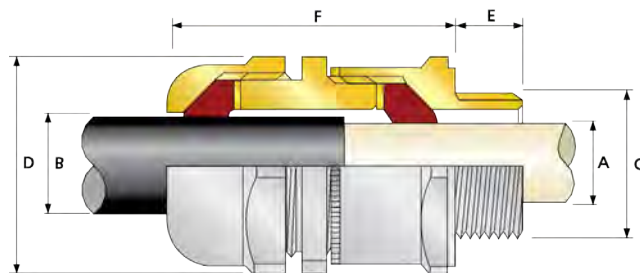
SS2KHT



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



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
ATEX Certificate	SIRA13ATEX1069X, SIRA13ATEX4075X
Code of Protection	II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da II 3G Ex nR IIC Gc, IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0024X
Code of Protection	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	IEC 60079-0,1,7,15,31
Continuous Operating Temperature	-20°C to +200°C
Ingress Protection Rating**	IP66, IP67 & IP68***
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 Inner Bedding & Outer Cable Sheath, Double Seal on 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.

*** 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.

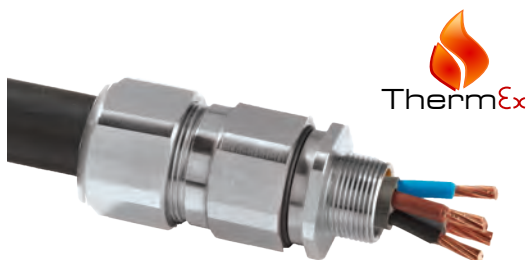
Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Cable Bedding Diameter "A"		Overall Cable Diameter "B"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option								Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Min	Max	Min	Max	Max	Max						
20S16	M20	15.0	½"	19.9	¾"	3.2	8.6	3.2	8.6	24.0	26.4	49.0	20S16	SS2KHT	1RA	PVC04	0.140
20S	M20	15.0	½"	19.9	¾"	6.1	11.7	6.1	11.7	24.0	26.4	49.0	20S	SS2KHT	1RA	PVC04	0.130
20	M20	15.0	½"	19.9	¾"	6.5	14.0	6.5	14.0	27.0	29.7	54.0	20	SS2KHT	1RA	PVC05	0.160
25	M25	15.0	¾"	20.2	1"	11.1	20.0	11.1	20.0	36.0	39.6	66.0	25	SS2KHT	1RA	PVC09	0.300
32	M32	15.0	1"	25.0	1 ¼"	17.0	26.3	17.0	26.3	41.0	45.1	67.0	32	SS2KHT	1RA	PVC10	0.350
40	M40	15.0	1 ¼"	25.6	1 ½"	23.5	32.1	23.5	32.1	50.0	55.0	70.0	40	SS2KHT	1RA	PVC13	0.500
50S	M50	15.0	1 ½"	26.1	2"	31.0	38.2	31.0	38.2	55.0	60.5	65.0	50S	SS2KHT	1RA	PVC15	0.560
50	M50	15.0	2"	26.9	2 ½"	35.6	44.0	35.6	44.0	60.0	66.0	70.0	50	SS2KHT	1RA	PVC18	0.590
63S	M63	15.0	2"	26.9	2 ½"	41.5	49.9	41.5	49.9	70.5	77.6	70.0	63S	SS2KHT	1RA	PVC21	0.890
63	M63	15.0	2 ½"	39.9	3"	47.2	55.9	47.2	55.9	75.0	82.5	71.0	63	SS2KHT	1RA	PVC23	0.850
75S	M75	15.0	2 ½"	39.9	3"	54.0	61.9	54.0	61.9	80.0	88.0	70.0	75S	SS2KHT	1RA	PVC25	1.020
75	M75	15.0	3"	41.5	3 ½"	61.1	67.9	61.1	67.9	84.0	92.4	75.0	75	SS2KHT	1RA	PVC26	0.990
90	M90	24.0	3 ½"	42.8	4"	66.6	79.4	66.6	79.4	108.0	118.8	113.0	90	SS2KHT	1RA	PVC31	2.990
100	M100	24.0	3 ½"	42.8	4"	76.0	90.9	76.0	90.9	123.0	134.2	106.0	100	SS2KHT	1RA	LSF33	3.390
115	M115	24.0	4"	44.0	5"	86.0	97.9	86.0	97.9	133.4	146.7	128.0	115	SS2KHT	1RA	LSF34	5.320
130	M130	24.0	5"	46.8	-	97.0	114.9	97.0	114.9	152.4	167.6	129.0	130	SS2KHT	1RA	LSF35	6.350

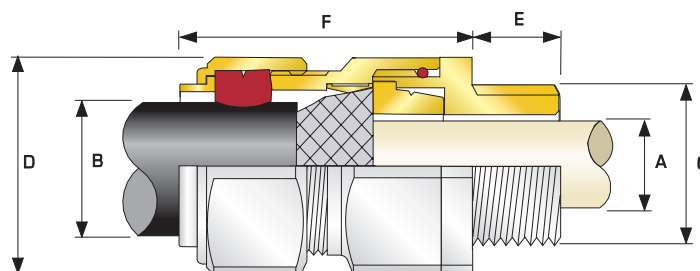
*For material options add the following suffix to the Ordering Reference: Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix: ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32SS2KHT1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SS2KHT1RA035 = Brass 1 ½" NPT, 25SS2KHT1RA432 = Stainless Steel ¾" NPT, 20SS2KHT1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



ThermEx



C2KHT



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
- Internationally marked, IECEx & ATEX
- Superior EMC performance



† Grooved Cone (X) is 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), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) 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 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.

Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.

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	SIRA13ATEX1070X
Code of Protection	Ex II 2G, II 1D, Ex e IIC Gb, Ex ta IIIC Da
Compliance Standards	EN 60079-0,7,31
IECEx Certificate	IECEx SIR 13.0025X
Code of Protection	Ex e IIC Gb, Ex ta IIIC Da
Compliance Standards	IEC 60079-0,7,31
Continuous Operating Temperature	-20°C to +200°C
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	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 (EMC) Wire Braid (e.g. CY / SY), Armoured & Jacketed
Armour Clamping	Reversible Armour Cone & AnyWay Universal Clamping Ring
Sealing Technique	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
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.

*** 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 Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Cable Bedding Diameter "A"	Overall Cable Diameter "B"			Armour Range †				Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option					Grooved Cone (X)		Stepped Cone (W)					Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"						Min	Max	Min	Max								
20S16	M20	15.0	½"	19.9	¾"	8.7	6.1	13.1	0.3	1.0	0.8	1.25	30.5	33.6	65.0	20S16	C2KHT	1RA	PVC04	0.23	
20S	M20	15.0	½"	19.9	¾"	11.7	9.5	15.9	0.3	1.0	0.8	1.25	30.5	33.6	62.0	20S	C2KHT	1RA	PVC04	0.24	
20	M20	15.0	½"	19.9	¾"	14.0	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	63.0	20	C2KHT	1RA	PVC06	0.23	
25S	M25	15.0	¾"	20.2	1"	20.0	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	69.5	25S	C2KHT	1RA	PVC09	0.35	
25	M25	15.0	¾"	20.2	1"	20.0	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	69.5	25	C2KHT	1RA	PVC09	0.35	
32	M32	15.0	1"	25.0	1 ¼"	26.0	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	75.0	32	C2KHT	1RA	PVC11	0.55	
40	M40	15.0	1 ¼"	25.6	1 ½"	32.2	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	75.0	40	C2KHT	1RA	PVC15	0.75	
50S	M50	15.0	1 ½"	26.1	2"	38.2	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	77.0	50S	C2KHT	1RA	PVC18	0.86	
50	M50	15.0	2"	26.9	2 ½"	44.1	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	77.0	50	C2KHT	1RA	PVC21	1.13	
63S	M63	15.0	2"	26.9	2 ½"	50.0	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	80.0	63S	C2KHT	1RA	PVC23	1.13	
63	M63	15.0	2 ½"	39.9	3"	56.0	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	80.0	63	C2KHT	1RA	PVC25	1.34	
75S	M75	15.0	2 ½"	39.9	3"	62.0	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	87.0	75S	C2KHT	1RA	PVC28	2.02	
75	M75	15.0	3"	41.5	3 ½"	64.2	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	88.0	75	C2KHT	1RA	PVC30	2.48	
90	M90	24.0	3 ½"	42.8	4"	78.6	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	102.0	90	C2KHT	1RA	PVC32	3.52	
100	M100	24.0	3 ½"	42.8	4"	91.0	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	114.0	100	C2KHT	1RA	LSF33	4.58	
115	M115	24.0	4"	44.0	5"	98.0	101.5	110.2	0.8	1.6	3.15	4.0	133.4	146.7	114.0	115	C2KHT	1RA	LSF34	6.50	
130	M130	24.0	5"	46.8	-	115.0	110.2	123.2	0.8	1.6	3.15	4.0	152.4	167.6	114.0	130	C2KHT	1RA	LSF35	8.50	

*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass 'S'; 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: 32C2KHT1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SC2KHT1RA035 = Brass 1 ½" NPT, 25C2KHT1RA432 = Stainless Steel ¾" NPT, 20C2KHT1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



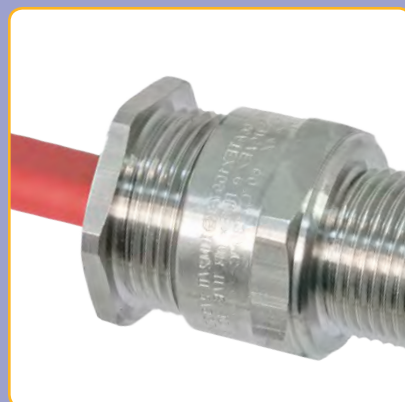
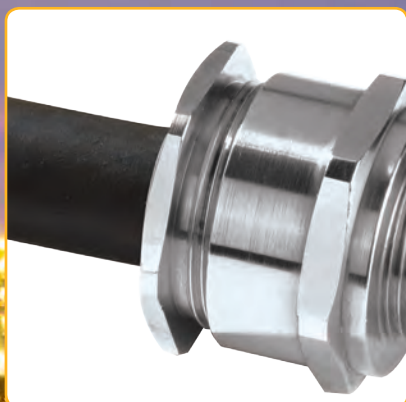
Flat-Form Cable Glands

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

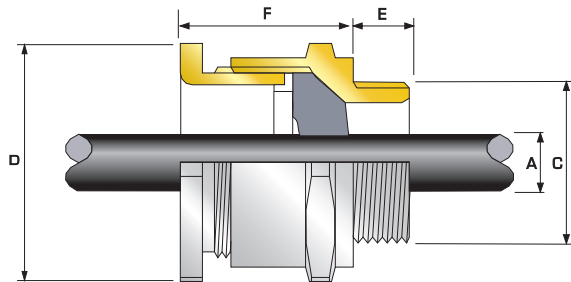
A2FF Single Seal, Flat-Form Industrial Cable Gland

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)



Flat-form seals available for alternative Cable Glands upon request



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

* 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.

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

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Overall Cable Diameter "A" (h x w)		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Cable Gland Weight (Kgs)
	Standard				Option						Size	Type	Ordering Suffix	
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Min	Max	Max	Max					
20S	M20	10.0	½"	19.9	¾"	4.0 x 6.2	6.8 x 11.7	24.0	26.4	25.1	20S	A2FF	1RA	0.054
20	M20	10.0	½"	19.9	¾"	5.7 x 8.0	8.7 x 13.5	27.0	29.7	27.2	20	A2FF	1RA	0.059

*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

Examples: 25A2FF1RA432 = Stainless Steel ¾" NPT, 20A2FF1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

**A2F-FF**

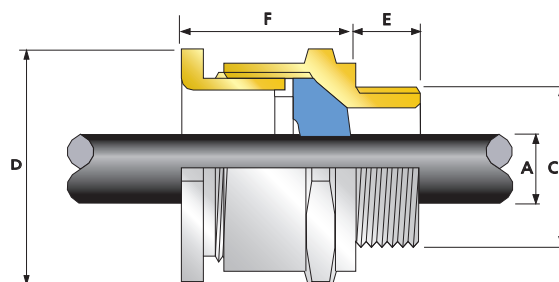
A2F Internationally Approved, Flat-Form Explosive Atmosphere Cable Gland

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



Flat-form seals available for alternative Cable Glands upon request



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
ATEX Certificate	SIRA13ATEX1068X, SIRA13ATEX4074X
Code of Protection	⊕ II 2G, II 1D Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da ⊕ II 3G Ex nR IIC Gc, I M2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN 60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0023X, IECEx SIM 14.0006
Code of Protection	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	IEC 60079-0,1,7,15,31
EAC Certificate	TC RU C-GB.ГБ05.В00138
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

* 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.

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

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Overall Cable Diameter "A" (h x w)		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Cable Gland Weight (Kgs)
	Standard				Option						Size	Type	Ordering Suffix	
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Min	Max	Max	Max					
20S	M20	15.0	½"	19.9	¾"	4.0 x 6.2	6.8 x 11.7	24.0	26.4	25.1	20S	A2FFF	1RA	0.054
20	M20	15.0	½"	19.9	¾"	5.7 x 8.0	8.7 x 13.5	27.0	29.7	27.2	20	A2FFF	1RA	0.059

*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

Examples: 25A2FF1RA432 = Stainless Steel ¾" NPT, 20A2FF1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated