



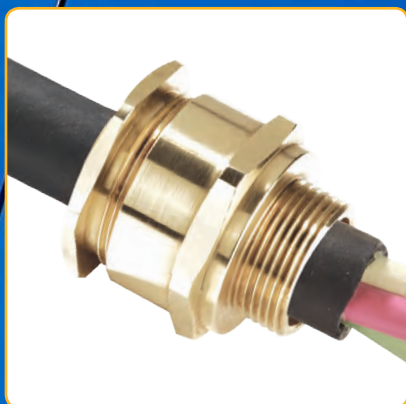
## Industrial Cable Glands

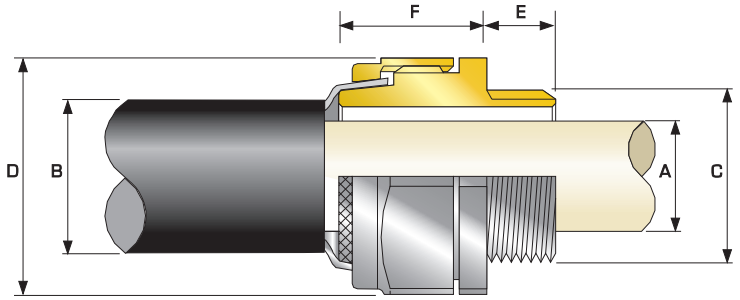
The CMP Products range of Industrial Cable Glands embraces products used in a wide and diverse variety of market sectors, in conjunction with virtually every kind of industrial cable installation. With a wealth of experience in terminating all types of armoured and unarmoured cables CMP understands that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

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

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

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





**BW**

**BW Industrial Cable Gland**

**For all types of Steel & Aluminium Wire Armoured Cables**

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



TECHNICAL DATA	
Design Specification	BS 6121:Part 1:1989
Mechanical Classifications*	Impact = Level 8, Cable Anchorage = Class D
Enclosure Protection	IK10 to IEC 62262 (20 joules)
Electrical Classifications*	Category B
Marine Approvals	LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
GOST R Certificate	POCC GB.AF35.H00102
Continuous Operating Temperature	-60°C to +200°C
Ingress Protection Rating**	IP2X
Cable Gland Material	Brass, Electroless Nickel Plated Brass
Cable Type	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
Armour Clamping	Two Part Armour Lock
Cable Gland Kits Available	Cable Gland Kit for use with all types of SWA cable, including 2 Brass Cable Glands, 2 Steel Locknuts, 2 Brass Earth Tags and 2 PVC Shrouds for sizes up to and including 32mm. For sizes 40mm and above each kit includes 1 of each component.

\* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444  
 As IEC 62444 and EN 62444 do not cover cable glands which are supplied without cable sealing rings, the information provided here is for information only.  
 \*\* When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

**Cable Gland Selection Table**

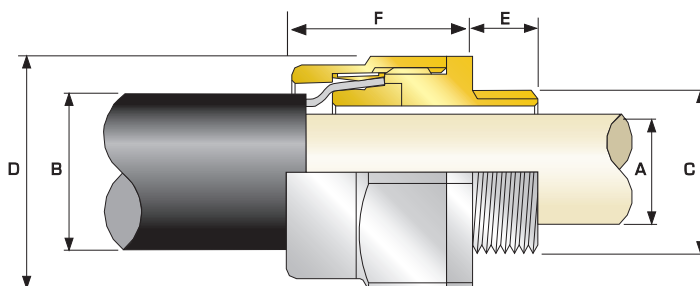
Refer to illustration at the top of the page.

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)		Cable Bedding Diameter "A" Max	Overall Cable Diameter "B" Max	Armour Range		Across Flats "D" Max	Across Corners "D" Max	Protusion Length "F" Max	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Metric	Thread Length (Metric) "E"			Min	Max				Size	Type	Ordering Suffix		
20S	M20	10.0	11.7	15.8	0.8	1.25	22.0	24.2	18.5	20S	BW	1AA	PVC04	0.052
20	M20	10.0	14.0	21.1	0.8	1.25	28.0	30.8	22.5	20	BW	1AA	PVC05	0.088
25	M25	10.0	20.0	27.2	1.25	1.6	33.0	36.3	21.5	25	BW	1AA	PVC07	0.110
32	M32	10.0	26.3	34.1	1.6	2.0	41.0	45.1	22.5	32	BW	1AA	PVC10	0.149
40	M40	15.0	32.2	42.4	1.6	2.0	50.0	55.0	30.0	40	BW	1AA	PVC13	0.316
50S	M50	15.0	38.2	50.1	2.0	2.5	57.1	62.8	30.0	50S	BW	1AA	PVC16	0.468
50	M50	15.0	44.1	55.7	2.0	2.5	65.0	71.5	32.0	50	BW	1AA	PVC19	0.477
63S	M63	15.0	50.0	62.4	2.0	2.5	75.0	82.5	41.3	63S	BW	1AA	PVC23	0.632
63	M63	15.0	56.0	68.2	2.0	2.5	79.0	86.9	41.3	63	BW	1AA	PVC24	0.890
75S	M75	15.0	62.0	76.8	2.0	2.5	89.0	97.9	47.6	75S	BW	1AA	PVC27	1.268
75	M75	15.0	68.0	82.9	2.5	3.0	95.0	104.5	49.6	75	BW	1AA	PVC29	1.400

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

Example: 32BW1RAS = Nickel Plated Brass

Dimensions are displayed in millimetres unless otherwise stated



**BWL**

**BWL Heavy Duty Industrial Cable Gland**

**For all types of Steel & Aluminium Wire Armoured Cables**

- High quality durable materials
- Simple, effective two part arrangement
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Robust, heavy duty design
- Longer body protects armour wires from impact
- -60°C to +200°C
- Superior EMC performance

TECHNICAL DATA	
Design Specification	BS 6121: Part 1: 1989
Mechanical Classifications*	Impact = Level 8, Cable Anchorage = Class D
Enclosure Protection	IK10 to IEC 62262 (20 joules)
Electrical Classifications*	Category B
Marine Approvals	LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
GOST R Certificate	POCC GB.AГ35.H00102
Continuous Operating Temperature	-60°C to +200°C
Ingress Protection Rating**	IP2X
Cable Gland Material	Brass, Electroless Nickel Plated Brass
Cable Type	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
Armour Clamping	Detachable Armour Cone & AnyWay Universal Clamping Ring



\* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444  
 As IEC 62444 and EN 62444 do not cover cable glands which are supplied without cable sealing rings, the information provided here is for information only.

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

**Cable Gland Selection Table**

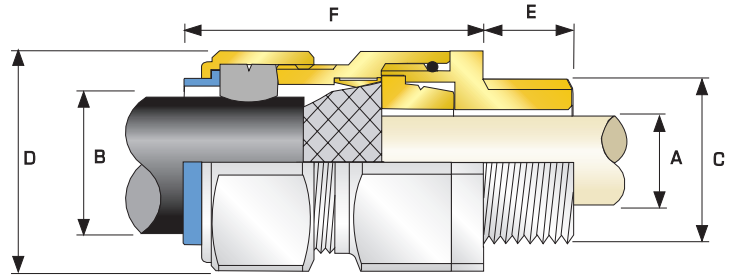
Refer to illustration at the top of the page.

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)
	Metric	Thread Length (Metric) "E"			Max	Max				Min	Max	Max		
20S16	M20	10.0	8.7	13.2	0.8	1.25	24.0	26.4	35.2	20S16	BWL	1RA	PVC04	0.084
20S	M20	10.0	11.7	15.9	0.8	1.25	24.0	26.4	32.2	20S	BWL	1RA	PVC04	0.076
20	M20	10.0	14.0	20.9	0.8	1.25	30.5	33.6	30.6	20	BWL	1RA	PVC06	0.117
25	M25	10.0	20.0	26.2	1.25	1.6	36.0	39.6	36.4	25	BWL	1RA	PVC09	0.155
32	M32	10.0	26.3	33.9	1.6	2.0	46.0	50.6	32.6	32	BWL	1RA	PVC11	0.220
40	M40	15.0	32.2	40.4	1.6	2.0	55.0	60.5	36.6	40	BWL	1RA	PVC15	0.370
50S	M50	15.0	38.2	46.7	2.0	2.5	60.0	66.0	39.6	50S	BWL	1RA	PVC18	0.468
50	M50	15.0	44.1	53.1	2.0	2.5	70.1	77.1	39.1	50	BWL	1RA	PVC21	0.434
63S	M63	15.0	50.0	59.4	2.0	2.5	75.0	82.5	52.0	63S	BWL	1RA	PVC23	0.846
63	M63	15.0	56.0	65.9	2.0	2.5	80.0	88.0	49.8	63	BWL	1RA	PVC25	0.818
75S	M75	15.0	62.0	72.1	2.0	2.5	90.0	99.0	63.7	75S	BWL	1RA	PVC28	1.486
75	M75	15.0	68.0	78.5	2.5	3.0	100.0	110.0	57.3	75	BWL	1RA	PVC30	1.662
90	M90	24.0	80.0	90.4	3.15	4.0	114.3	125.7	66.6	90	BWL	1RA	PVC32	2.460

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

Example: 32BWL1RA5 = Nickel Plated Brass

Dimensions are displayed in millimetres unless otherwise stated



**C2KGP**

**C2KGP Single Seal Industrial Cable Gland**

**For all types of Armoured Cables**

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

<b>Design Specification</b>	BS 6121:Part 1:1989, IEC 62444, EN 62444
<b>Mechanical Classifications*</b>	Impact = Level 8, Cable Anchorage = Class D
<b>Enclosure Protection</b>	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
<b>Electrical Classifications*</b>	Category B (Category A when used with braid, tape or pliable wire armour cables)
<b>Marine Approvals</b>	LRS: 01/00171 (E1)
<b>GOST R Certificate</b>	POCC GB.AF35.H00102
<b>Ingress Protection Rating**</b>	IP66, IP67 & IP68***
<b>Deluge Protection Compliance</b>	DTS01 : 91
<b>Cable Gland Material</b>	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
<b>Seal Material</b>	CMP Thermoset Rubber
<b>Cable Type</b>	Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Steel Tape Armour (STA), Aluminium Strip Armour (ASA), Wire Braid Armour, Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA)
<b>Armour Clamping</b>	Reversible Armour Cone & AnyWay Universal Clamping Ring
<b>Sealing Technique</b>	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
<b>Sealing Area(s)</b>	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.

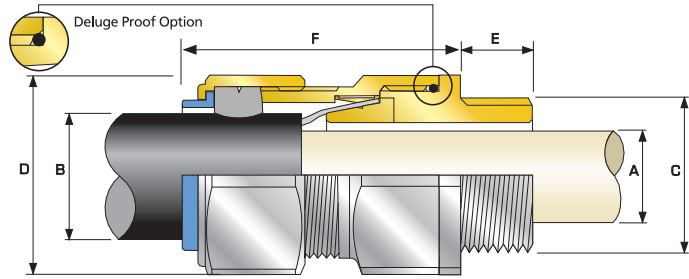
Dimensions listed below are for metric cable glands only  
Dimensions for alternative threads may vary, please see supplementary technical data sheet

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)
	Metric	Thread Length (Metric) "E"		Max	Min	Max	Grooved Cone (X)		Stepped Cone (W)					Size	Type	Ordering Suffix		
							Min	Max	Min	Max								
20S16	M20	10.0	8.7	6.1	13.1	0.3	1.0	0.8	1.25	30.5	33.6	65.0	20S16	C2KGP	1RA	PVC06	0.23	
20S	M20	10.0	11.7	9.5	15.9	0.3	1.0	0.8	1.25	30.5	33.6	62.0	20S	C2KGP	1RA	PVC06	0.22	
20	M20	10.0	14.0	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	63.0	20	C2KGP	1RA	PVC06	0.22	
25S	M25	10.0	20.0	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	69.5	25S	C2KGP	1RA	PVC09	0.35	
25	M25	10.0	20.0	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	69.5	25	C2KGP	1RA	PVC09	0.35	
32	M32	10.0	26.3	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	75.0	32	C2KGP	1RA	PVC11	0.55	
40	M40	15.0	32.2	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	75.0	40	C2KGP	1RA	PVC15	0.75	
50S	M50	15.0	38.2	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	77.0	50S	C2KGP	1RA	PVC18	0.86	
50	M50	15.0	44.1	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	77.0	50	C2KGP	1RA	PVC21	1.13	
63S	M63	15.0	50.0	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	80.0	63S	C2KGP	1RA	PVC23	1.33	
63	M63	15.0	56.0	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	80.0	63	C2KGP	1RA	PVC25	1.34	
75S	M75	15.0	62.0	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	87.0	75S	C2KGP	1RA	PVC28	2.02	
75	M75	15.0	68.0	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	88.0	75	C2KGP	1RA	PVC30	2.48	
90	M90	24.0	80.0	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	102.0	90	C2KGP	1RA	PVC32	3.52	
100	M100	24.0	91.0	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	114.0	100	C2KGP	1RA	LSF33	4.57	
115	M115	24.0	98.0	101.5	110.2	0.8	1.6	3.15	4.0	133.4	146.7	114.0	115	C2KGP	1RA	LSF34	6.50	
130	M130	24.0	115.0	110.2	123.2	0.8	1.6	3.15	4.0	152.4	167.6	114.0	130	C2KGP	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 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: 32C2KGP1RA534 = Nickel Plated Brass 1 1/4" NPT, 50S2KGP1RA035 = Brass 1 1/2" NPT, 25C2KGP1RA432 = Stainless Steel 3/4" NPT, 20C2KGP1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



**CW**

**CW Single Seal Industrial Cable Gland**

**For all types of Steel & Aluminium Wire Armoured Cables**

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



Deluge Proof option available (CWD)

TECHNICAL DATA	
Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classifications*	Impact = Level 8, Cable Anchorage = Class D
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
Electrical Classifications*	Category B
Marine Approvals	LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
GOST R Certificate	POCC GB.AF35.H00102
Ingress Protection Rating**	IP66 as standard (IP67, IP68*** available upon request)
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
Seal Material	CMP 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.  
 \*\*\* 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.

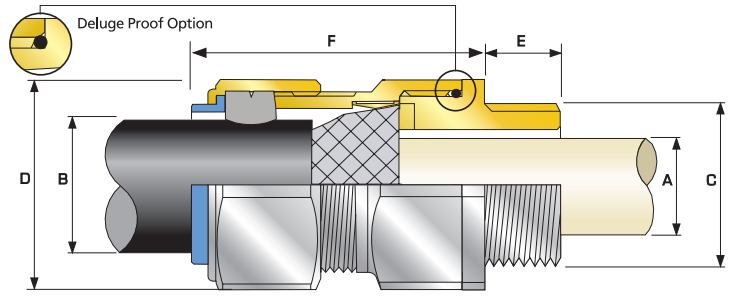
Dimensions listed below are for metric cable glands only  
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Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)				Cable Bedding Diameter "A"	Overall Cable Diameter "B"		Armour Range		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)	
	Standard		Option			Min	Max	Min	Max				Size	Type	Ordering Suffix			
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"														NPT
20S16	M20	10.0	1/2"	19.9	3/4"	8.7	6.1	13.1	0.8	1.25	24.0	26.4	48.0	20S16	CW	1RA	PVC04	0.100
20S	M20	10.0	1/2"	19.9	3/4"	11.7	9.5	15.9	0.8	1.25	24.0	26.4	48.0	20S	CW	1RA	PVC04	0.140
20	M20	10.0	1/2"	19.9	3/4"	14.0	12.5	20.9	0.8	1.25	30.5	33.6	48.0	20	CW	1RA	PVC06	0.180
25S	M25	10.0	3/4"	20.2	1"	20.0	14.0	22.0	1.25	1.6	37.5	41.3	56.0	25S	CW	1RA	PVC09	0.257
25	M25	10.0	3/4"	20.2	1"	20.0	18.2	26.2	1.25	1.6	37.5	41.3	56.0	25	CW	1RA	PVC09	0.257
32	M32	10.0	1"	25.0	1 1/4"	26.0	23.7	33.9	1.6	2.0	46.0	50.6	54.0	32	CW	1RA	PVC11	0.376
40	M40	15.0	1 1/4"	25.6	1 1/2"	32.2	27.9	40.4	1.6	2.0	55.0	60.5	58.0	40	CW	1RA	PVC15	0.630
50S	M50	15.0	1 1/2"	26.1	2"	38.2	35.2	46.7	2.0	2.5	60.0	66.0	61.0	50S	CW	1RA	PVC18	0.757
50	M50	15.0	2"	26.9	2 1/2"	44.1	40.4	53.0	2.0	2.5	70.1	77.1	60.0	50	CW	1RA	PVC21	0.862
63S	M63	15.0	2"	26.9	2 1/2"	50.0	45.6	59.4	2.0	2.5	75.0	82.5	74.0	63S	CW	1RA	PVC23	1.390
63	M63	15.0	2 1/2"	39.9	3"	56.0	54.6	65.8	2.0	2.5	80.0	88.0	71.0	63	CW	1RA	PVC25	1.360
75S	M75	15.0	2 1/2"	39.9	3"	62.0	59.0	72.0	2.0	2.5	90.0	99.0	86.0	75S	CW	1RA	PVC28	2.307
75	M75	15.0	3"	41.5	3 1/2"	64.2	66.7	78.4	2.5	3.0	100.0	110.0	82.0	75	CW	1RA	PVC30	2.909
90	M90	24.0	3 1/2"	42.8	4"	78.6	76.2	90.3	3.15	4.0	114.3	125.7	95.0	90	CW	1RA	PVC32	3.858
100	M100	24.0	4"	44.0	5"	91.0	86.1	101.4	3.15	4.0	123.0	135.3	95.0	100	CW	1RA	LSF33	4.958
115	M115	24.0	4"	44.0	5"	98.0	101.5	110.2	3.15	4.0	133.4	146.7	107.5	115	CW	1RA	LSF34	5.058
130	M130	24.0	5"	46.8	-	115.0	110.2	123.2	3.15	4.0	152.4	167.6	110.0	130	CW	1RA	LSF35	6.158

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

Dimensions are displayed in millimetres unless otherwise stated



**CX**

**CX Single Seal Industrial Cable Gland**

**For Braided & Steel Tape Armoured Cables**

- High quality durable materials
- Robust, heavy duty design
- Metal-to-metal armour clamping
- Direct & remote installation
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60°C to +130°C (standard), -20°C to 200°C (ThermIn option page 91)
- 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.

**TECHNICAL DATA**

<b>Design Specification</b>	BS 6121:Part 1:1989, IEC 62444, EN 62444
<b>Mechanical Classifications*</b>	Impact = Level 8, Cable Anchorage = Class D
<b>Enclosure Protection</b>	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
<b>Electrical Classifications*</b>	Category A
<b>Marine Approvals</b>	LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
<b>GOST R Certificate</b>	POCC GB.AF35.H00102
<b>Ingress Protection Rating**</b>	IP66 as standard (IP67, IP68*** available upon request)
<b>Cable Gland Material</b>	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
<b>Seal Material</b>	CMP Thermoset Rubber
<b>Cable Type</b>	Wire Braid Armour, Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA)
<b>Armour Clamping</b>	Detachable Armour Cone & AnyWay Universal Clamping Ring
<b>Sealing Technique</b>	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
<b>Sealing Area(s)</b>	Cable Outer Sheath
<b>Cable Gland Kits Available</b>	Cable Gland kit for use with all types of cable includes 2 Brass Cable Glands, 2 Steel Locknuts, 2 Brass Earth Tags and 2 PVC Shrouds for sizes up to and including 32mm. For sizes 40mm and above each kit includes 1 of each component.

\* 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](http://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**

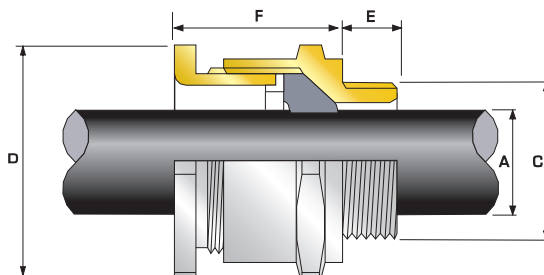
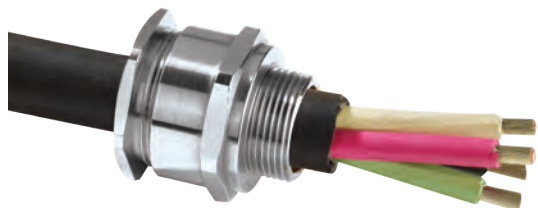
Refer to illustration at the top of the page.

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)		Cable Bedding Diameter "A"	Overall Cable Diameter "B"		Armour Range † 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 "E"		Min	Max	Min	Max				Size	Type	Ordering Suffix		
20S16	M20	10.0	8.7	6.1	13.1	0.3	1.0	24.0	26.4	48.0	20S16	CX	1RA	PVC04	0.100
	M20	10.0	11.7	9.5	15.9	0.3	1.0	24.0	26.4	48.0	20S	CX	1RA	PVC04	0.100
20	M20	10.0	14.0	12.5	20.9	0.4	1.0	30.5	33.6	48.0	20	CX	1RA	PVC06	0.147
25S	M25	10.0	20.0	14.0	22.0	0.4	1.2	37.5	41.3	56.0	25S	CX	1RA	PVC09	0.224
25	M25	10.0	20.0	18.2	26.2	0.4	1.2	37.5	41.3	56.0	25	CX	1RA	PVC09	0.221
32	M32	10.0	26.3	23.7	33.9	0.4	1.2	46.0	50.6	54.0	32	CX	1RA	PVC11	0.306
40	M40	15.0	32.2	27.9	40.4	0.4	1.6	55.0	60.5	58.0	40	CX	1RA	PVC15	0.448
50S	M50	15.0	38.2	35.2	46.7	0.4	1.6	60.0	66.0	61.0	50S	CX	1RA	PVC18	0.567
50	M50	15.0	44.1	40.4	53.0	0.6	1.6	70.1	77.1	60.0	50	CX	1RA	PVC21	0.751
63S	M63	15.0	50.0	45.6	59.4	0.6	1.6	75.0	82.5	74.0	63S	CX	1RA	PVC23	1.036
63	M63	15.0	56.0	54.6	65.8	0.6	1.6	80.0	88.0	71.0	63	CX	1RA	PVC25	1.016
75S	M75	15.0	62.0	59.0	72.0	0.6	1.6	90.0	99.0	86.0	75S	CX	1RA	PVC28	1.787
75	M75	15.0	68.0	66.7	78.4	0.6	1.6	100.0	110.0	82.0	75	CX	1RA	PVC30	2.091
90	M90	24.0	80.0	76.2	90.3	0.8	1.6	114.3	125.7	95.0	90	CX	1RA	PVC32	3.044
100	M100	24.0	91.0	86.1	101.4	0.8	1.6	123.0	135.3	95.0	100	CX	1RA	LSF33	3.132
115	M115	24.0	98.0	101.5	110.2	0.8	1.6	133.4	146.7	107.5	115	CX	1RA	LSF34	4.476
130	M130	24.0	115.0	110.2	123.2	0.8	1.6	152.4	167.6	110.0	130	CX	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: 20CX1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



**A2**

**A2 Single Seal Industrial Cable Gland**

For all types of Unarmoured & Braided Cables

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



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
CSA Certificate	1211841
Code of Protection	Enclosure Type 4X
Marine Approvals	LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
GOST R Certificate	POCC GB.AГ35.H00102
Ingress Protection Rating**	IP66, IP67 & IP68***
Deluge Protection Compliance	DT501 : 91
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
Seal Material	CMP Thermoset Rubber
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.

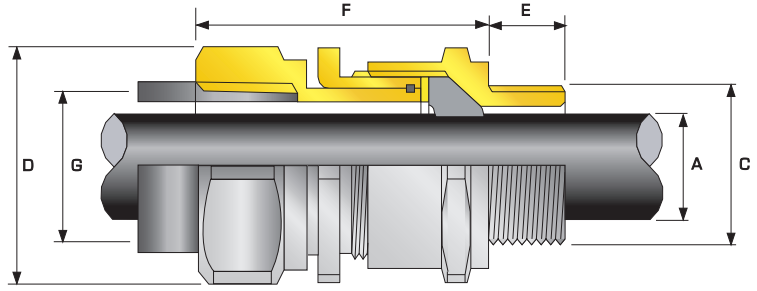
Cable Gland Size	Available Entry Threads "C" (Alternate Thread Lengths Available)		Overall Cable Diameter "A"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard		Min	Max	Max	Max		Size	Type	Ordering Suffix		
	Metric	Thread Length "E"										
20S16	M20	10.0	3.2	8.7	24.0	26.4	25.1	20S16	A2	1RA	PVC04	0.070
20S	M20	10.0	6.1	11.7	24.0	26.4	25.1	20S	A2	1RA	PVC04	0.060
20	M20	10.0	6.5	14.0	27.0	29.7	27.2	20	A2	1RA	PVC05	0.070
25	M25	10.0	11.1	20.0	36.0	39.6	35.5	25	A2	1RA	PVC09	0.130
32	M32	10.0	17.0	26.3	41.0	45.1	34.2	32	A2	1RA	PVC10	0.150
40	M40	15.0	23.5	32.2	50.0	55.0	35.1	40	A2	1RA	PVC13	0.200
50S	M50	15.0	31.0	38.2	55.0	60.5	32.0	50S	A2	1RA	PVC15	0.260
50	M50	15.0	35.6	44.0	60.0	66.0	36.3	50	A2	1RA	PVC18	0.270
63S	M63	15.0	41.5	49.9	70.5	77.6	33.5	63S	A2	1RA	PVC21	0.430
63	M63	15.0	47.2	55.9	75.0	82.5	35.8	63	A2	1RA	PVC23	0.460
75S	M75	15.0	54.0	61.9	84.0	92.4	34.2	75S	A2	1RA	PVC26	0.520
75	M75	15.0	61.1	67.9	84.0	92.4	40.6	75	A2	1RA	PVC26	0.500
90	M90	24.0	66.6	79.9	108.0	118.8	58.3	90	A2	1RA	PVC31	1.600
100	M100	24.0	76.0	91.0	123.0	135.3	55.2	100	A2	1RA	LSF33	1.780
115	M115	24.0	86.0	97.9	133.4	146.7	65.2	115	A2	1RA	LSF34	2.670
130	M130	24.0	97.0	114.9	152.4	167.6	73.9	130	A2	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'

Examples: 20A21RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated





**A2RC**

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

**For all types of Unarmoured Cables**

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



Alternative conduit sizes available upon request.

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

**THREAD OPTION ORDERING EXAMPLES**

Ordering Reference	Male Thread	Female Thread
20A2RC1RA	M20	M20
20A2RC1RA031	M20	½" NPT
20A2RC1RA03131	½" NPT	½" NPT
20A2RC1RA03102†	½" 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. 32A2RC1RA53405 (1 ¼" 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 D
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
GOST R Certificate	POCC GB.AГ35.H00102
Ingress Protection Rating**	IP66
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
Seal Material	CMP Thermoset Rubber
Cable Type	Unarmoured
Sealing Technique	CMP Unique Displacement Seal Concept
Sealing Area(s)	Cable Outer Sheath

\* 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	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Overall Cable Diameter "A"		Across Flats "D"	Across Corners "D"	Female Conduit Connection "G"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric male & 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	10.0	½"	19.9	¾"	3.2	8.7	24.0	26.4	M20	43.6	20S16	A2RC	1RA	PVC04	0.100
20S	M20	10.0	½"	19.9	¾"	6.1	11.7	24.0	26.4	M20	43.6	20S	A2RC	1RA	PVC04	0.100
20	M20	10.0	½"	19.9	¾"	6.5	14.0	27.0	29.7	M20	42.4	20	A2RC	1RA	PVC05	0.100
25	M25	10.0	¾"	20.2	1"	11.1	20.0	36.0	39.6	M25	50.4	25	A2RC	1RA	PVC09	0.190
32	M32	10.0	1"	25.0	1 ¼"	17.0	26.3	41.0	45.1	M32	50.7	32	A2RC	1RA	PVC10	0.230
40	M40	15.0	1 ¼"	25.6	1 ½"	23.5	32.2	50.0	55.0	M40	51.4	40	A2RC	1RA	PVC13	0.330
50S	M50	15.0	1 ½"	26.1	2"	31.0	38.2	55.0	60.5	M50	55.2	50S	A2RC	1RA	PVC15	0.430
50	M50	15.0	2"	26.9	2 ½"	35.6	44.0	60.0	66.0	M50	62.0	50	A2RC	1RA	PVC18	0.440
63S	M63	15.0	2"	26.9	2 ½"	41.5	49.9	70.5	77.6	M63	58.4	63S	A2RC	1RA	PVC21	0.720
63	M63	15.0	2 ½"	39.9	3"	47.2	55.9	75.0	82.5	M63	61.5	63	A2RC	1RA	PVC23	0.640
75S	M75	15.0	2 ½"	39.9	3"	54.0	61.9	79.0	88.0	M75	63.2	75S	A2RC	1RA	PVC26	0.900
75	M75	15.0	3"	41.5	3 ½"	61.1	67.9	84.0	92.4	M75	68.6	75	A2RC	1RA	PVC26	0.800
90	M90	24.0	3 ½"	42.8	4"	66.6	79.9	108.0	118.8	M90	94.2	90	A2RC	1RA	PVC31	2.200

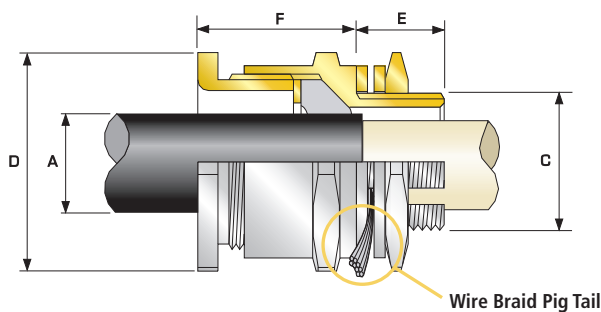
\*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'

For NPT male and / or female options please add the following digits to the material suffix (See Thread Options table above); 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")

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: 32A2RC1RA533 = Nickel Plated Brass M32 male x 1" NPT female, 20S16A2RC1RA031 = Brass M20 male x ½" NPT female, 25A2RC1RA43202 = Stainless Steel ¾" NPT male x M25 female, 220A2RC1RA5 = Nickel Plated Brass M20 M20 male & female

Dimensions are displayed in millimetres unless otherwise stated

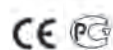


**CXT**

**CXT Single Seal Industrial Cable Gland**

**For Screened Flexible (EMC) Braided Cables**

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



Supplied with Locknut & Washer

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 A
GOST R Certificate	POCC GB.AF35.H00102
Ingress Protection Rating**	IP66
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
Seal Material	CMP Thermoset Rubber
Cable Type	Screened Flexible (EMC) Wire Braid ( e.g. CY / SY), Wire Braid Armour
Sealing Technique	CMP Unique Displacement Seal Concept
Sealing Area(s)	Cable Outer Sheath
Included Accessories	Locknut & Washer

\* 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**

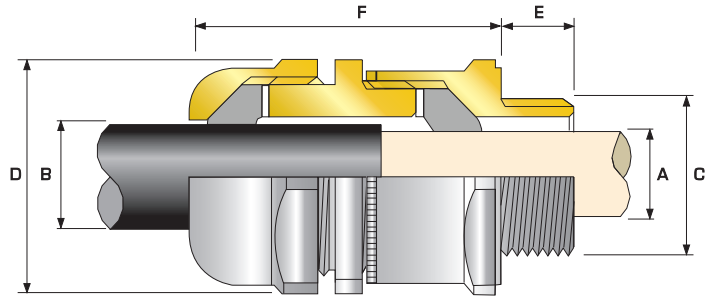
Refer to illustration at the top of the page.

Cable Gland Size	Entry Thread "C"	Thread Length (Metric) "E"	Overall Cable Diameter "A"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
			Min	Max	Max	Max		Size	Type	Ordering Suffix		
20S16	M20	15.0	3.2	8.7	24.0	26.4	25.4	20S16	CXT	1RA	PVC04	0.070
20S	M20	15.0	6.1	11.7	24.0	26.4	25.4	20S	CXT	1RA	PVC04	0.060
20	M20	15.0	6.5	14.0	27.0	29.7	27.2	20	CXT	1RA	PVC05	0.070
25	M25	15.0	11.1	20.0	36.0	39.6	36.3	25	CXT	1RA	PVC09	0.130
32	M32	15.0	17.0	26.3	41.0	45.1	34.5	32	CXT	1RA	PVC10	0.150
40	M40	15.0	23.5	32.2	50.0	55.0	35.6	40	CXT	1RA	PVC13	0.210
50S	M50	15.0	31.0	38.2	55.0	60.5	32.3	50S	CXT	1RA	PVC15	0.260
50	M50	15.0	35.6	44.0	60.0	66.0	36.6	50	CXT	1RA	PVC18	0.270
63S	M63	15.0	41.5	49.9	70.5	77.6	33.5	63S	CXT	1RA	PVC21	0.410
63	M63	15.0	47.2	55.9	75.0	82.5	35.8	63	CXT	1RA	PVC23	0.400
75S	M75	15.0	54.0	61.9	80.0	88.0	36.8	75S	CXT	1RA	PVC25	0.530
75	M75	15.0	61.1	67.9	84.0	92.4	40.6	75	CXT	1RA	PVC26	0.500
90	M90	24.0	66.6	79.9	108.0	118.8	58.3	90	CXT	1RA	PVC31	1.600
100	M100	24.0	76.0	91.0	123.0	135.3	55.2	100	CXT	1RA	LSF33	1.780
115	M115	24.0	86.0	97.9	133.4	146.7	65.2	115	CXT	1RA	LSF34	2.670
130	M130	24.0	97.0	114.9	152.4	167.6	73.9	130	CXT	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; 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: 32CXT1RA534 = Nickel Plated Brass 1 1/4" NPT, 50SCXT1RA035 = Brass 1 1/2" NPT, 25CXT1RA432 = Stainless Steel 3/4" NPT, 20CXT1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



**SS2KGP**

**SS2KGP Double Seal Industrial Cable Gland**

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

- Direct & remote installation
- Superior levels of cable retention
- Displacement type seals
- Deluge protected
- -60°C to +130°C



TECHNICAL DATA	
Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classifications*	Impact = Level 8, Cable Anchorage = Class B
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
Marine Approvals	LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
GOST R Certificate	POCC GB.AF35.H00102
Ingress Protection Rating**	IP66, IP67 & IP68***
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
Seal Material	CMP Thermoset Rubber
Cable Type	Unarmoured
Sealing Technique	CMP Unique Displacement Seal Concept
Sealing Area(s)	Cable Inner Bedding & Outer Cable Sheath

\* 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.

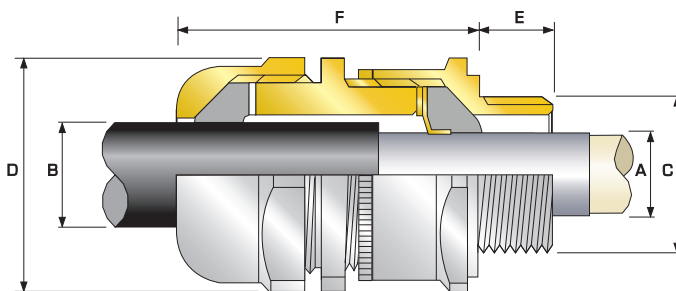
Dimensions listed below are for metric cable glands only  
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Overall Cable Diameter "A/B"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			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	10.0	½"	19.9	¾"	3.2	8.6	24.0	26.4	49.0	20S16	SS2KGP	1RA	PVC04	0.140
20S	M20	10.0	½"	19.9	¾"	6.1	11.7	24.0	26.4	49.0	20S	SS2KGP	1RA	PVC04	0.130
20	M20	10.0	½"	19.9	¾"	6.5	14.0	27.0	29.7	54.0	20	SS2KGP	1RA	PVC05	0.160
25	M25	10.0	¾"	20.2	1"	11.1	20.0	36.0	39.6	66.0	25	SS2KGP	1RA	PVC09	0.300
32	M32	10.0	1"	25.0	1 ¼"	17.0	26.3	41.0	45.1	67.0	32	SS2KGP	1RA	PVC10	0.350
40	M40	15.0	1 ¼"	25.6	1 ½"	23.5	32.1	50.0	55.0	70.0	40	SS2KGP	1RA	PVC13	0.500
50S	M50	15.0	1 ½"	26.1	2"	31.0	38.2	55.0	60.5	65.0	50S	SS2KGP	1RA	PVC15	0.560
50	M50	15.0	2"	26.9	2 ½"	35.6	44.0	60.0	66.0	70.0	50	SS2KGP	1RA	PVC18	0.590
63S	M63	15.0	2"	26.9	2 ½"	41.5	49.9	70.5	77.6	70.0	63S	SS2KGP	1RA	PVC21	0.890
63	M63	15.0	2 ½"	39.9	3"	47.2	55.9	75.0	82.5	71.0	63	SS2KGP	1RA	PVC23	0.850
75S	M75	15.0	2 ½"	39.9	3"	54.0	61.9	80.0	88.0	70.0	75S	SS2KGP	1RA	PVC25	1.020
75	M75	15.0	3"	41.5	3 ½"	61.1	67.9	84.0	92.4	75.0	75	SS2KGP	1RA	PVC26	0.990
90	M90	24.0	3 ½"	42.8	4"	66.6	79.4	108.0	118.8	113.0	90	SS2KGP	1RA	PVC31	2.990
100	M100	24.0	4"	44.0	5"	76.0	90.9	123.0	134.2	106.0	100	SS2KGP	1RA	LSF33	3.390
115	M115	24.0	4"	44.0	5"	86.0	97.9	133.4	146.7	128.0	115	SS2KGP	1RA	LSF34	5.320
130	M130	24.0	5"	46.8	-	97.0	114.9	152.4	167.6	129.0	130	SS2KGP	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: 32SS2KGP1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SS2KGP1RA035 = Brass 1 ½" NPT, 25SS2KGP1RA432 = Stainless Steel ¾" NPT, 20SS2KGP1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



## SS2KGPPB

### SS2KGPPB Double Seal Industrial Cable Gland

#### For all types of Lead Sheathed Unarmoured Cables

- Effectively earths / grounds lead sheathed cables
- Suitable for Tape Armours
- Direct & remote installation
- Superior levels of cable retention
- Displacement type seals
- Deluge protected
- -60°C to +130°C



TECHNICAL DATA	
Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classifications*	Impact = Level 8, Cable Anchorage = Class B
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
Marine Approvals	LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
GOST R Certificate	POCC GB.AF35.H00102
Ingress Protection Rating**	IP66, IP67 & IP68***
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
Seal Material	CMP Thermoset Rubber
Cable Type	Unarmoured Lead Sheathed, Steel Tape Armour (STA), Aluminium Tape Armour (ATA)
Sealing Technique	CMP Unique Displacement Seal Concept
Sealing Area(s)	Cable Inner Lead Sheath & Outer Sheath

\* 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](http://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

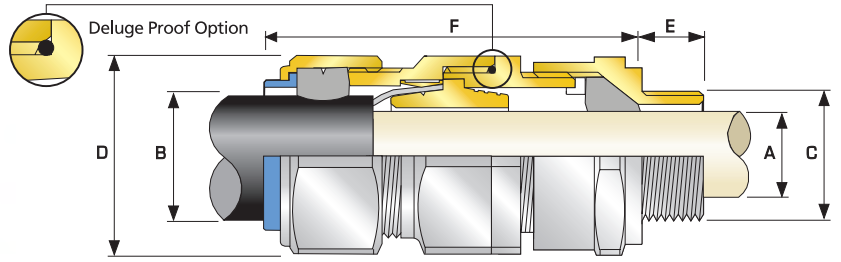
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Lead Sheath Diameter "A"		Overall Cable Diameter "B"		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	10.0	1/2"	19.9	3/4"	3.2	7.8	3.2	8.6	24.0	26.4	49.5	20S16	SS2KGPPB	1RA	PVC04	0.140
20S	M20	10.0	1/2"	19.9	3/4"	6.1	11.0	6.1	11.7	24.0	26.4	49.5	20S	SS2KGPPB	1RA	PVC04	0.130
20	M20	10.0	1/2"	19.9	3/4"	6.5	13.4	6.5	14.0	27.0	29.7	54.5	20	SS2KGPPB	1RA	PVC05	0.160
25	M25	10.0	3/4"	20.2	1"	11.1	19.3	11.1	20.0	36.0	39.6	66.5	25	SS2KGPPB	1RA	PVC09	0.300
32	M32	10.0	1"	25.0	1 1/4"	17.0	25.5	17.0	26.3	41.0	45.1	67.5	32	SS2KGPPB	1RA	PVC10	0.350
40	M40	15.0	1 1/4"	25.6	1 1/2"	23.5	31.2	23.5	32.1	50.0	55.0	70.5	40	SS2KGPPB	1RA	PVC13	0.510
50S	M50	15.0	1 1/2"	26.1	2"	31.0	37.2	31.0	38.2	55.0	60.5	65.5	50S	SS2KGPPB	1RA	PVC15	0.570
50	M50	15.0	2"	26.9	2 1/2"	35.6	42.6	35.6	44.0	60.0	66.0	70.5	50	SS2KGPPB	1RA	PVC18	0.600
63S	M63	15.0	2"	26.9	2 1/2"	41.5	48.5	41.5	49.9	70.5	77.6	70.5	63S	SS2KGPPB	1RA	PVC21	0.900
63	M63	15.0	2 1/2"	39.9	3"	47.2	54.2	47.2	55.9	75.0	82.5	71.5	63	SS2KGPPB	1RA	PVC23	0.860
75S	M75	15.0	2 1/2"	39.9	3"	54.0	60.2	54.0	61.9	80.0	88.0	70.5	75S	SS2KGPPB	1RA	PVC25	1.030
75	M75	15.0	3"	41.5	3 1/2"	61.1	65.2	61.1	67.9	84.0	92.4	75.5	75	SS2KGPPB	1RA	PVC26	1.000
90	M90	24.0	3 1/2"	42.8	4"	66.6	77.1	66.6	79.4	108.0	118.8	113.5	90	SS2KGPPB	1RA	PVC31	3.010
100	M100	24.0	3 1/2"	42.8	4"	76.0	88.1	76.0	90.9	123.0	134.2	106.5	100	SS2KGPPB	1RA	LSF33	3.410
115	M115	24.0	4"	44.0	5"	86.0	94.1	86.0	97.9	133.4	146.7	128.5	115	SS2KGPPB	1RA	LSF34	5.350
130	M130	24.0	5"	46.8	-	97.0	110.1	97.0	114.9	152.4	167.6	129.5	130	SS2KGPPB	1RA	LSF35	6.390

\*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: 32SS2KGPPB1RA534 = Nickel Plated Brass 1 1/4" NPT, 50SS2KGPPB1RA035 = Brass 1 1/2" NPT, 25SS2KGPPB1RA432 = Stainless Steel 3/4" NPT, 20SS2KGPPB1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



**E1U**

**E1U Double Seal Industrial Cable Gland**

**For all types of Armoured Cables**

- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Displacement type inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Deluge protection option
- -60°C to +130°C (standard), -20°C to 200°C (Thermin option page 91)
- 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**

<b>Design Specification</b>	BS 6121:Part 1:1989, IEC 62444, EN 62444
<b>Mechanical Classifications*</b>	Impact = Level 8, Cable Anchorage = Class D
<b>Enclosure Protection</b>	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
<b>Electrical Classifications*</b>	Category B (Category A when used with braid, tape or pliable wire armour cables)
<b>Marine Approvals</b>	LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
<b>GOST R Certificate</b>	POCC GB.AF35.H00102
<b>Ingress Protection Rating**</b>	IP66 as standard (IP67, IP68*** available upon request)
<b>Cable Gland Material</b>	Brass, Electroless Nickel Plated Brass, Aluminium
<b>Seal Material</b>	CMP Thermoset Rubber
<b>Cable Type</b>	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
<b>Armour Clamping</b>	Reversible Armour Cone & AnyWay Universal Clamping Ring
<b>Sealing Technique</b>	CMP Inner Displacement Seal & Unique CMP 'LRS'™ Outer Load Retention Seal
<b>Sealing Area(s)</b>	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

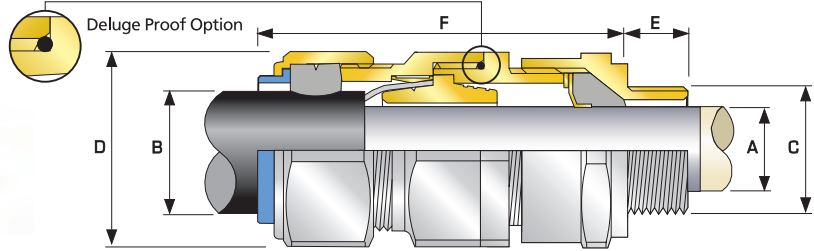
Dimensions for alternative threads may vary, please see supplementary technical data sheet

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"		Protusion 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	Size	Type		Ordering Suffix				
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"					NPT	Min	Max	Min							Max	Min		
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	E1U	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	E1U	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	E1U	1RA	PVC06	0.210	
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	E1U	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	E1U	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	E1U	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	E1U	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	E1U	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	E1U	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	E1U	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	E1U	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	E1U	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	E1U	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	E1U	1RA	PVC32	4.210	
100	M100	24.0	4"	44.0	5"	76.0	90.9	86.1	101.4	0.8	1.6	3.15	4.0	123.0	135.3	140.0	100	E1U	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	E1U	1RA	LSF34	6.190	
130	M130	24.0	5"	46.8	6"	97.0	114.9	110.2	123.2	0.8	1.6	3.15	4.0	152.4	167.6	174.0	130	E1U	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: 32E1U1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SE1U1RA035 = Brass 1 ½" NPT, 20E1U1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



**E2U**

**E2U Double Seal Industrial Cable Gland**

**For all types of Lead Sheathed Armoured Cables**

- Effectively earths / grounds lead sheathed cables
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently 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
- -60°C to +130°C
- 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)
Marine Approvals	LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
GOST R Certificate	POCC GB.AF35.H00102
Ingress Protection Rating**	IP66 as standard (IP67, IP68*** available upon request)
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Aluminium
Seal Material	CMP Thermoset Rubber
Cable Type	Lead Sheathed & Single Wire Armour (LC/SWA), Lead Sheathed & Wire Braid Armour, Lead Sheathed & Steel Tape Armour (LC/STA), Lead Sheathed & Pliable Wire Armour (LC/PWA), Lead Sheathed & 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 Lead Sheath & 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.

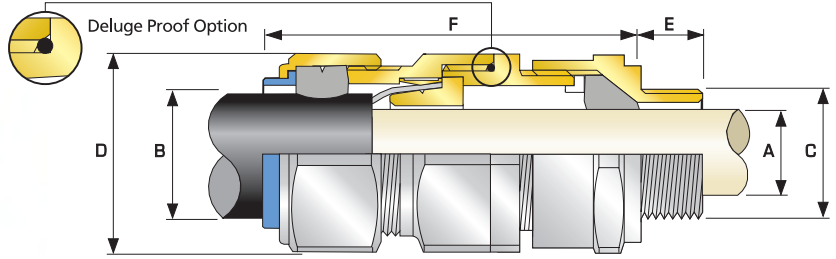
Dimensions listed below are for metric cable glands only  
Dimensions for alternative threads may vary, please see supplementary technical data sheet

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Cable 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			Min	Max	Min	Max	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	10.0	1/2"	19.9	3/4"	3.1	7.8	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	72.5	20S16	E2U	1RA	PVC04	0.160
20S	M20	10.0	1/2"	19.9	3/4"	6.1	11.0	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	70.0	20S	E2U	1RA	PVC04	0.150
20	M20	10.0	1/2"	19.9	3/4"	6.5	13.4	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	73.0	20	E2U	1RA	PVC06	0.210
25S	M25	10.0	3/4"	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	E2U	1RA	PVC09	0.330
25	M25	10.0	3/4"	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	E2U	1RA	PVC09	0.330
32	M32	10.0	1"	25.0	1 1/4"	17.0	25.5	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	86.0	32	E2U	1RA	PVC11	0.430
40	M40	15.0	1 1/4"	25.6	1 1/2"	22.0	31.2	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	90.0	40	E2U	1RA	PVC15	0.620
50S	M50	15.0	1 1/2"	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	E2U	1RA	PVC18	0.750
50	M50	15.0	2"	26.9	2 1/2"	35.6	42.6	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	95.0	50	E2U	1RA	PVC21	0.960
63S	M63	15.0	2"	26.9	2 1/2"	40.1	48.5	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	102.0	63S	E2U	1RA	PVC23	1.350
63	M63	15.0	2 1/2"	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	E2U	1RA	PVC25	1.350
75S	M75	15.0	2 1/2"	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	E2U	1RA	PVC28	2.120
75	M75	15.0	3"	41.5	3 1/2"	59.1	65.2	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	117.0	75	E2U	1RA	PVC30	2.430
90	M90	24.0	3 1/2"	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	E2U	1RA	PVC32	4.230
100	M100	24.0	4"	44.0	5"	76.0	88.1	86.1	101.4	0.8	1.6	3.15	4.0	123.0	135.3	140.0	100	E2U	1RA	LSF33	4.470
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	E2U	1RA	LSF34	6.210
130	M130	24.0	5"	46.8	6"	97.0	110.1	110.2	123.2	0.8	1.6	3.15	4.0	152.4	167.6	174.0	130	E2U	1RA	LSF35	8.360

\*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: 32E2U1RA534 = Nickel Plated Brass 1 1/4" NPT, 50SE2U1RA035 = Brass 1 1/2" NPT, 20E2U1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



**E1W**

**E1W Double Seal Industrial 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
- Displacement type inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Deluge protection option
- -60°C to +130°C
- Superior EMC performance



**TECHNICAL DATA**

<b>Design Specification</b>	BS 6121:Part 1:1989, IEC 62444, EN 62444
<b>Mechanical Classifications*</b>	Impact = Level 8, Cable Anchorage = Class D
<b>Enclosure Protection</b>	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
<b>Electrical Classifications*</b>	Category B
<b>Marine Approvals</b>	LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
<b>GOST R Certificate</b>	POCC GB.AF35.H00102
<b>Ingress Protection Rating**</b>	IP66 as standard (IP67, IP68*** available upon request)
<b>Cable Gland Material</b>	Brass, Electroless Nickel Plated Brass, Aluminium
<b>Seal Material</b>	CMP Thermoset Rubber
<b>Cable Type</b>	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
<b>Armour Clamping</b>	Detachable Armour Cone & AnyWay Universal Clamping Ring
<b>Sealing Technique</b>	CMP Inner Displacement Seal & Unique CMP 'LRS'™ Outer Load Retention Seal
<b>Sealing Area(s)</b>	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.

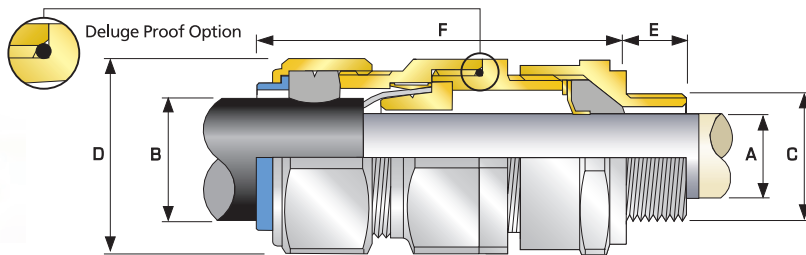
Dimensions listed below are for metric cable glands only  
Dimensions for alternative threads may vary, please see supplementary technical data sheet

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		Min	Max	Min	Max	Min	Max	Max	Max		Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT														
20S16	M20	10.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.8	1.25	24.0	26.4	72.5	20S16	E1W	1RA	PVC04	0.163
20S	M20	10.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.8	1.25	24.0	26.4	70.0	20S	E1W	1RA	PVC04	0.150
20	M20	10.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.8	1.25	30.5	33.6	73.0	20	E1W	1RA	PVC06	0.210
25S	M25	10.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	1.25	1.6	37.5	41.3	89.0	25S	E1W	1RA	PVC09	0.330
25	M25	10.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	1.25	1.6	37.5	41.3	89.0	25	E1W	1RA	PVC09	0.330
32	M32	10.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	1.6	2.0	46.0	50.6	86.0	32	E1W	1RA	PVC11	0.430
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	E1W	1RA	PVC15	0.620
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	E1W	1RA	PVC18	0.750
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	E1W	1RA	PVC21	0.950
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	E1W	1RA	PVC23	1.340
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	E1W	1RA	PVC25	1.340
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	E1W	1RA	PVC28	2.110
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	E1W	1RA	PVC30	2.420
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	E1W	1RA	PVC32	4.210
100	M100	24.0	4"	44.0	5"	76.0	90.9	86.1	101.4	3.15	4.0	123.0	135.3	140.0	100	E1W	1RA	LSF33	4.450
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	E1W	1RA	LSF34	6.190
130	M130	24.0	5"	46.8	6"	97.0	114.9	110.2	123.2	3.15	4.0	152.4	167.6	174.0	130	E1W	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 "5", Copper Free Aluminium "1"  
For NPT options please add the following digits to the material suffix ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38, 3 ½" = 39, 4" = 310 (Brass requires prefix "0")

Examples: 32E1W1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SE1W1RA035 = Brass 1 ½" NPT, 20E1W1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



**E2W**

**E2W Double Seal Industrial Cable Gland**

**For Lead Sheathed Steel & Aluminium Wire Armoured Cables**

- Effectively earths / grounds lead sheathed cables
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently 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
- -60°C to +130°C
- 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
Marine Approvals	LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
GOST R Certificate	POCC GB.AF35.H00102
Ingress Protection Rating**	IP66 as standard (IP67, IP68*** available upon request)
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Aluminium,
Seal Material	CMP Thermoset Rubber
Cable Type	Lead Sheathed & Single Wire Armour (LC/SWA), Lead Sheathed & Aluminium Wire Armour (LC/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

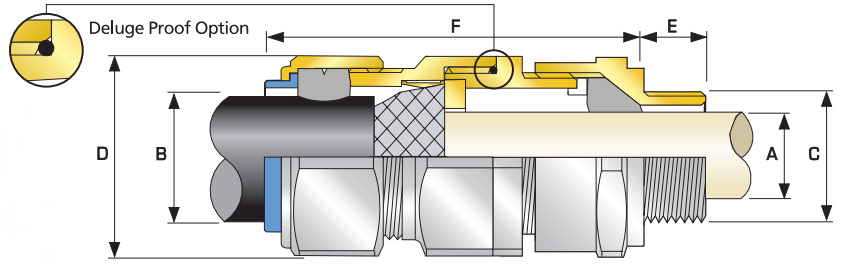
Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)					Cable Lead Sheath Diameter "A"		Overall Cable Diameter "B"		Armour Range		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard			Option		Min	Max	Min	Max	Min	Max	Max	Max		Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT														
20S16	M20	10.0	1/2"	19.9	3/4"	3.1	7.8	6.1	13.1	0.8	1.25	24.0	26.4	72.5	20S16	E2W	1RA	PVC04	0.160
20S	M20	10.0	1/2"	19.9	3/4"	6.1	11.0	9.5	15.9	0.8	1.25	24.0	26.4	70.0	20S	E2W	1RA	PVC04	0.150
20	M20	10.0	1/2"	19.9	3/4"	6.5	13.4	12.5	20.9	0.8	1.25	30.5	33.6	73.0	20	E2W	1RA	PVC06	0.210
25S	M25	10.0	3/4"	20.2	1"	11.1	19.3	14.0	22.0	1.25	1.6	37.5	41.3	89.0	25S	E2W	1RA	PVC09	0.330
25	M25	10.0	3/4"	20.2	1"	11.1	19.3	18.2	26.2	1.25	1.6	37.5	41.3	89.0	25	E2W	1RA	PVC09	0.330
32	M32	10.0	1"	25.0	1 1/4"	17.0	25.5	23.7	33.9	1.6	2.0	46.0	50.6	86.0	32	E2W	1RA	PVC11	0.430
40	M40	15.0	1 1/4"	25.6	1 1/2"	22.0	31.2	27.9	40.4	1.6	2.0	55.0	60.5	90.0	40	E2W	1RA	PVC15	0.620
50S	M50	15.0	1 1/2"	26.1	2"	29.5	37.2	35.2	46.7	2.0	2.5	60.0	66.0	91.0	50S	E2W	1RA	PVC18	0.750
50	M50	15.0	2"	26.9	2 1/2"	35.6	42.6	40.4	53.0	2.0	2.5	70.1	77.1	95.0	50	E2W	1RA	PVC21	0.950
63S	M63	15.0	2"	26.9	2 1/2"	40.1	48.5	45.6	59.4	2.0	2.5	75.0	82.5	102.0	63S	E2W	1RA	PVC23	1.340
63	M63	15.0	2 1/2"	39.9	3"	47.2	54.2	54.6	65.8	2.0	2.5	80.0	88.0	104.0	63	E2W	1RA	PVC25	1.340
75S	M75	15.0	2 1/2"	39.9	3"	52.8	60.2	59.0	72.0	2.0	2.5	90.0	99.0	115.0	75S	E2W	1RA	PVC28	2.110
75	M75	15.0	3"	41.5	3 1/2"	59.1	65.2	66.7	78.4	2.5	3.0	100.0	110.0	117.0	75	E2W	1RA	PVC30	2.420
90	M90	24.0	3 1/2"	42.8	4"	66.6	77.1	76.2	90.3	3.15	4.0	114.3	125.4	147.0	90	E2W	1RA	PVC32	4.210
100	M100	24.0	4"	44.0	5"	76.0	88.1	86.1	101.4	3.15	4.0	123.0	135.3	140.0	100	E2W	1RA	LSF33	4.450
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	E2W	1RA	LSF34	6.190
130	M130	24.0	5"	46.8	6"	97.0	110.1	110.2	123.2	3.15	4.0	152.4	160.6	174.0	130	E2W	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 "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: 32E2W1RA534 = Nickel Plated Brass 1 1/4" NPT, 50SE2W1RA035 = Brass 1 1/2" NPT, 25E2W1RA432 = Stainless Steel 3/4" NPT, 20E2W1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated





**E1X**

**E1X Double Seal Industrial 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
- Displacement type inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Deluge protection option
- -60°C to +130°C
- 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.

If Tape Armour is to be used please contact CMP for advice.

**TECHNICAL DATA**

<b>Design Specification</b>	BS 6121:Part 1:1989, IEC 62444, EN 62444
<b>Mechanical Classifications*</b>	Impact = Level 8, Cable Anchorage = Class D
<b>Enclosure Protection</b>	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
<b>Electrical Classifications*</b>	Category B (Category A when used with braid, tape or pliable wire armour cables)
<b>Marine Approvals</b>	LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
<b>GOST R Certificate</b>	POCC GB.AF35.H00102
<b>Ingress Protection Rating**</b>	IP66 as standard (IP67, IP68*** available upon request)
<b>Cable Gland Material</b>	Brass, Electroless Nickel Plated Brass, Aluminium
<b>Seal Material</b>	CMP Thermoset Rubber
<b>Cable Type</b>	Wire Braid Armour, Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Aluminium Strip Armour (e.g. ASA)
<b>Armour Clamping</b>	Detachable Armour Cone & AnyWay Universal Clamping Ring
<b>Sealing Technique</b>	CMP Inner Displacement Seal & Unique CMP 'LRS'™ Outer Load Retention Seal
<b>Sealing Area(s)</b>	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](http://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

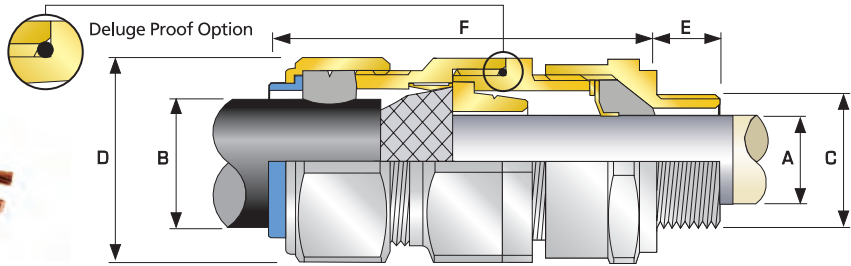
Dimensions for alternative threads may vary, please see supplementary technical data sheet

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		Min	Max	Min	Max	Min	Max	Max	Max	Size	Type		Ordering Suffix				
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT																
20S16	M20	10.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.3	1.0	24.0	26.4	72.5	20S16	E1X	1RA	PVC04	0.163		
20S	M20	10.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.3	1.0	24.0	26.4	70.0	20S	E1X	1RA	PVC04	0.150		
20	M20	10.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.4	1.0	30.5	33.6	73.0	20	E1X	1RA	PVC06	0.210		
25S	M25	10.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	0.4	1.2	37.5	41.3	89.0	25S	E1X	1RA	PVC09	0.330		
25	M25	10.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	0.4	1.2	37.5	41.3	89.0	25	E1X	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	46.0	50.6	86.0	32	E1X	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	55.0	60.5	90.0	40	E1X	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	60.0	66.0	91.0	50S	E1X	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	70.1	77.1	95.0	50	E1X	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	75.0	82.5	102.0	63S	E1X	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	80.0	88.0	104.0	63	E1X	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	90.0	99.0	115.0	75S	E1X	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	100.0	110.0	117.0	75	E1X	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	114.3	125.4	147.0	90	E1X	1RA	PVC32	4.210		
100	M100	24.0	4"	44.0	5"	76.0	90.9	86.1	101.4	0.8	1.6	123.0	135.3	140.0	100	E1X	1RA	LSF33	4.450		
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	E1X	1RA	LSF34	6.190		
130	M130	24.0	5"	46.8	6"	97.0	114.9	110.2	123.2	0.8	1.6	152.4	160.6	174.0	130	E1X	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: 32E1X1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SE1X1RA035 = Brass 1 ½" NPT, 20E1X1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



**E2X**

**E2X Double Seal Industrial Cable Gland**

**For Lead Sheathed Braided Cables**

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

If Tape Armour is to be used please contact CMP for advice.

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)
Marine Approvals	LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
GOST R Certificate	POCC GB.AF35.H00102
Ingress Protection Rating**	IP66 as standard (IP67, IP68*** available upon request)
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Aluminium
Seal Material	CMP Thermoset Rubber
Cable Type	Lead Sheathed & Wire Braid Armour, Lead Sheathed & Steel Tape Armour (LC/STA), Lead Sheathed & Pliable Wire Armour (LC/PWA), Lead Sheathed & Aluminium 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 Lead Sheath & 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"					Cable 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	Min	Max	Min	Max	Min	Max	Max	Max		Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT														
20S16	M20	10.0	½"	19.9	¾"	3.1	7.8	6.1	13.1	0.3	1.0	24.0	26.4	72.5	20S16	E2X	1RA	PVC04	0.160
20S	M20	10.0	½"	19.9	¾"	6.1	11.0	9.5	15.9	0.3	1.0	24.0	26.4	70.0	20S	E2X	1RA	PVC04	0.150
20	M20	10.0	½"	19.9	¾"	6.5	13.4	12.5	20.9	0.4	1.0	30.5	33.6	73.0	20	E2X	1RA	PVC06	0.210
25S	M25	10.0	¾"	20.2	1"	11.1	19.3	14.0	22.0	0.4	1.2	37.5	41.3	89.0	25S	E2X	1RA	PVC09	0.330
25	M25	10.0	¾"	20.2	1"	11.1	19.3	18.2	26.2	0.4	1.2	37.5	41.3	89.0	25	E2X	1RA	PVC09	0.330
32	M32	10.0	1"	25.0	1 ¼"	17.0	25.5	23.7	33.9	0.4	1.2	46.0	50.6	86.0	32	E2X	1RA	PVC11	0.430
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	E2X	1RA	PVC15	0.620
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	E2X	1RA	PVC18	0.750
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	E2X	1RA	PVC21	0.960
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	E2X	1RA	PVC23	1.350
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	E2X	1RA	PVC25	1.350
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	E2X	1RA	PVC28	2.120
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	E2X	1RA	PVC30	2.430
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	E2X	1RA	PVC32	4.230
100	M100	24.0	4"	44.0	5"	76.0	88.1	86.1	101.4	0.8	1.6	123.0	135.3	140.0	100	E2X	1RA	LSF33	4.470
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	E2X	1RA	LSF34	6.210
130	M130	24.0	5"	46.8	6"	97.0	110.1	110.2	123.2	0.8	1.6	152.4	167.6	174.0	130	E2X	1RA	LSF35	8.360

\*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: 32E2X1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SE2X1RA035 = Brass 1 ½" NPT, 20E2X1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



CMP SOLO - LOW SMOKE & FUME RANGE





## SOLO Low Smoke & Fume Cable Glands

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

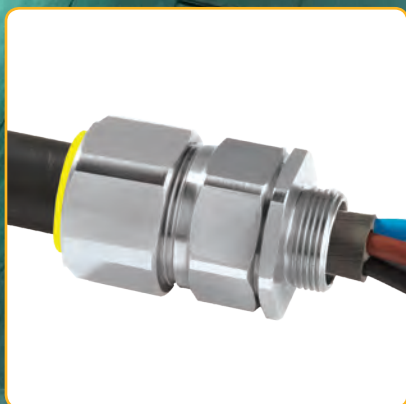
The CMP SOLO LSF range of Cable Glands and accessories meet the most stringent requirements and provide a single, simple solution for specifiers and users in meeting LSF and Halogen Free requirements.

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

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

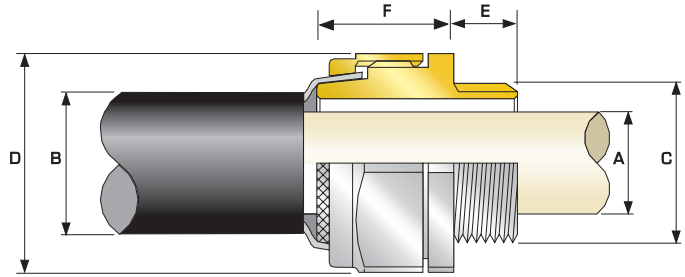
Add LSF2RA after the gland size and type e.g. 25CWLSF2RA to denote that a Gland Kit is required.

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



**SOLO**<sup>™</sup>





## BW SOLO

### BW Industrial Cable Gland SOLO LSF Kit

#### For all types of Steel & Aluminium Wire Armoured Cables

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



Ordering suffix '2RA' includes locknut, earth tag & shroud  
Other kit options available



#### TECHNICAL DATA

Type	BW SOLO-Kit
Design Specification	BS 6121 : Part 1:1989
Mechanical Classifications*	Impact = Level 8, Cable Anchorage = Class D
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
Electrical Classifications*	Category B
Marine Approvals	LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
GOST R Certificate	POCC GB.A735.H00102
Ingress Protection Rating**	IP2X
Cable Gland Material	Brass, Electroless Nickel Plated Brass
Cable Type	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
Armour Clamping	Two Part Armour Lock
Cable Gland Kits Available	Up to & including size 25 - 2 glands, 2 locknuts, 2 earth tags & 2 LSF shrouds Size 32 & above - 1 gland, 1 locknut, 1 earth tag & 1 LSF shroud

\* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444  
As IEC 62444 and EN 62444 do not cover cable glands which are supplied without cable sealing rings, the information provided here is for information only.  
\*\* When CMP installation accessories are used. Refer to page 7 or [www.cmp-products.com](http://www.cmp-products.com) for further information.

#### Cable Gland Selection Table

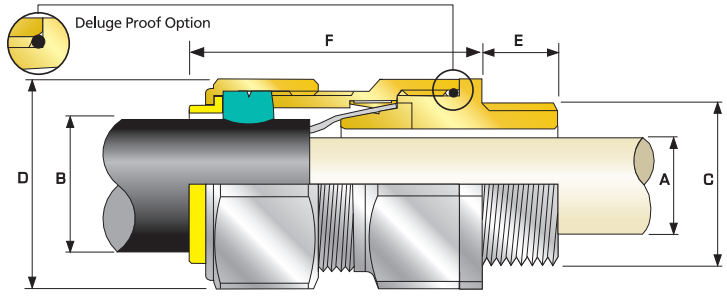
Refer to illustration at the top of the page.

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)		Cable Bedding Diameter "A"	Overall Cable Diameter "B"	Armour Range		Across Flats "D"	Across Corners "D"	Protrusion Length "F" (Without Shroud)	Combined Ordering Reference (*Brass Metric)			Cable Gland Only Weight (Kgs)
	Standard				Min	Max				Size	Type	Ordering Suffix	
	Metric	Thread Length (Metric) "E"	Max	Max									
20S	M20	10.0	11.7	15.8	0.8	1.25	22.0	24.2	18.5	20S	BWLSF	2RA	0.052
20	M20	10.0	14.0	21.1	0.8	1.25	28.0	30.8	22.5	20	BWLSF	2RA	0.088
25	M25	10.0	20.0	27.2	1.25	1.6	33.0	36.3	21.5	25	BWLSF	2RA	0.110
32	M32	10.0	26.3	34.1	1.6	2.0	41.0	45.1	22.5	32	BWLSF	2RA	0.149
40	M40	15.0	32.2	42.4	1.6	2.0	50.0	55.0	30.0	40	BWLSF	2RA	0.316
50S	M50	15.0	38.2	50.1	2.0	2.5	57.1	62.8	30.0	50S	BWLSF	2RA	0.468
50	M50	15.0	44.1	55.7	2.0	2.5	65.0	71.5	32.0	50	BWLSF	2RA	0.477
63S	M63	15.0	50.0	62.4	2.0	2.5	75.0	82.5	41.3	63S	BWLSF	2RA	0.632
63	M63	15.0	56.0	68.2	2.0	2.5	79.0	86.9	41.3	63	BWLSF	2RA	0.890
75S	M75	15.0	62.0	76.8	2.0	2.5	89.0	97.9	47.6	75S	BWLSF	2RA	1.268
75	M75	15.0	68.0	82.9	2.5	3.0	95.0	104.5	49.6	75	BWLSF	2RA	1.400

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

Examples: 32BWLSF1RA5 = Nickel Plated Brass

Dimensions are displayed in millimetres unless otherwise stated



**CW Industrial Single Seal Cable Gland SOLO LSF Kit**

**For all types of Steel & Aluminium Wire Armoured Cables**

- Metal-to-metal armour clamping
- Direct & remote installation
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60°C to +130°C
- Deluge protection option
- Superior EMC performance
- LUL (London Underground) approved



Ordering suffix '2RA' includes locknut, earth tag & shroud  
Other kit options available



Gland Kit shown as example

TECHNICAL DATA	
Type	CW SOLO-Kit
Design Specification	BS 6121 :Part 1:1989, IEC 62444, EN 62444
Mechanical Classifications*	Impact = Level 8, Cable Anchorage = Class D
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
Electrical Classifications*	Category B
Marine Approvals	LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
GOST R Certificate	POCC GB.AF35.H00102
Ingress Protection Rating**	IP66
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)
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	Up to & including size 25 - 2 glands, 2 locknuts, 2 earth tags & 2 LSF shrouds Size 32 & above - 1 gland, 1 locknut, 1 earth tag & 1 LSF shroud

\* 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**

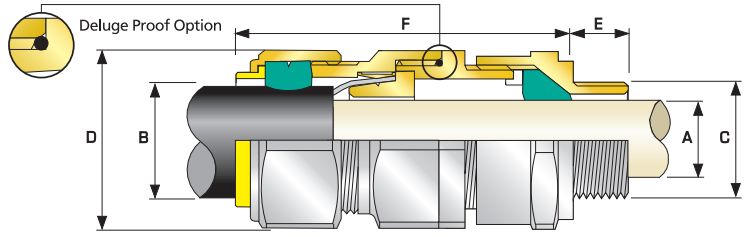
Refer to illustration at the top of the page.

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" (Without Shroud)	Combined Ordering Reference (*Brass Metric)			Cable Gland Only Weight (Kgs)
				Max	Min	Min	Max				Max	Max	Size	
20S16	M20	10.0	8.7	6.1	13.1	0.8	1.25	24.0	26.4	48.0	20S16	CWLSF	2RA	0.100
20S	M20	10.0	11.7	9.5	15.9	0.8	1.25	24.0	26.4	48.0	20S	CWLSF	2RA	0.100
20	M20	10.0	14.0	12.5	20.9	0.8	1.25	30.5	33.6	48.0	20	CWLSF	2RA	0.147
25	M25	10.0	20.0	18.2	26.2	1.25	1.6	37.5	41.3	56.0	25	CWLSF	2RA	0.224
32	M32	10.0	26.3	23.7	33.9	1.6	2.0	46.0	50.6	54.0	32	CWLSF	2RA	0.306
40	M40	15.0	32.2	27.9	40.4	1.6	2.0	55.0	60.5	58.0	40	CWLSF	2RA	0.448
50S	M50	15.0	38.2	35.2	46.7	2.0	2.5	60.0	66.0	61.0	50S	CWLSF	2RA	0.567
50	M50	15.0	44.1	40.4	53.0	2.0	2.5	70.1	77.1	60.0	50	CWLSF	2RA	0.751
63S	M63	15.0	50.0	45.6	59.4	2.0	2.5	75.0	82.5	74.0	63S	CWLSF	2RA	1.036
63	M63	15.0	56.0	54.6	65.8	2.0	2.5	80.0	88.0	71.0	63	CWLSF	2RA	1.016
75S	M75	15.0	62.0	59.0	72.0	2.0	2.5	90.0	99.0	86.0	75S	CWLSF	2RA	1.787
75	M75	15.0	64.2	66.7	78.4	2.5	3.0	100.0	110.0	82.0	75	CWLSF	2RA	2.091

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

Dimensions are displayed in millimetres unless otherwise stated



## E1W SOLO

### E1W Industrial Double Seal Cable Gland SOLO LSF Kit

#### For all types of Steel & Aluminium Wire Armoured Cables

- Metal-to-metal armour clamping
- Direct & remote installation
- Displacement type inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Deluge protection option
- -60°C to +130°C
- Superior EMC performance
- LUL (London Underground) approved



Ordering suffix '2RA' includes locknut, earth tag & shroud  
Other kit options available



#### TECHNICAL DATA

Type	E1W SOLO-Kit
Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classifications*	Impact = Level 8, Cable Anchorage = Class D
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
Electrical Classifications*	Category B
Marine Approvals	LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
Ingress Protection Rating**	IP66 as standard (IP67, IP68*** available upon request)
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
Cable Gland Kits Available	Up to & including size 25 - 2 glands, 2 locknuts, 2 earth tags & 2 LSF shrouds Size 32 & above - 1 gland, 1 locknut, 1 earth tag & 1 LSF shroud

\* 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](http://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.

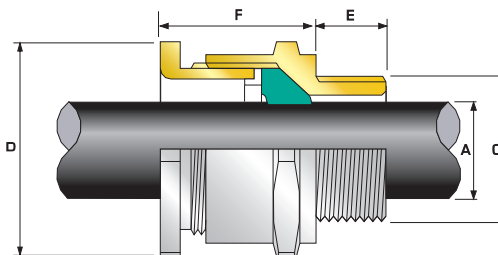
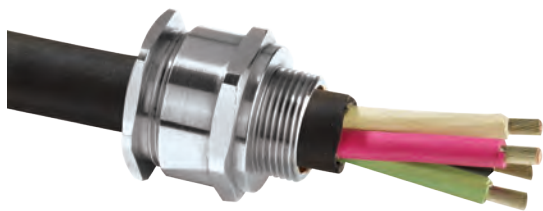
Dimensions listed below are for metric cable glands only  
Dimensions for alternative threads may vary, please see supplementary technical data sheet

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" (Without Shroud)	Combined Ordering Reference (*Brass Metric)			Cable Gland Only Weight (Kgs)
	Standard			Option											Size	Type	Ordering Suffix	
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (Metric) "E"	NPT	Min	Max	Min	Max	Min	Max	Max	Max					
20S16	M20	10.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.8	1.25	24.0	26.4	72.5	20S16	E1WLSF	2RA	0.163
20S	M20	10.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.8	1.25	24.0	26.4	70.0	20S	E1WLSF	2RA	0.150
20	M20	10.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.8	1.25	30.5	33.6	73.0	20	E1WLSF	2RA	0.210
25S	M25	10.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	1.25	1.6	37.5	41.3	89.0	25S	E1WLSF	2RA	0.330
25	M25	10.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	1.25	1.6	37.5	41.3	89.0	25	E1WLSF	2RA	0.330
32	M32	10.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	1.6	2.0	46.0	50.6	86.0	32	E1WLSF	2RA	0.430
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	E1WLSF	2RA	0.620
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	E1WLSF	2RA	0.750
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	E1WLSF	2RA	0.950
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	E1WLSF	2RA	1.340
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	E1WLSF	2RA	1.340
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	E1WLSF	2RA	2.110
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	E1WLSF	2RA	2.420
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	E1WLSF	2RA	4.210
100	M100	24.0	4"	44.0	5"	76.0	90.9	86.1	101.4	3.15	4.0	123.0	135.3	140.0	100	E1WLSF	2RA	4.450
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	E1WLSF	2RA	6.190
130	M130	24.0	5"	46.8	6"	97.0	114.9	110.2	123.2	3.15	4.0	152.4	167.6	174.0	130	E1WLSF	2RA	8.340

\*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: 32E1WLSF2RA5 = Nickel Plated Brass, 32E1WLSF2RA1 = Copper Free Aluminium, 20E1WLSF2RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



**A2 SOLO**

**A2 Industrial Single Seal Cable Gland SOLO LSF Kit**

For all types of Unarmoured & Braided Cables

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



Ordering suffix '2RA' includes locknut & shroud  
Other kit options available



Gland Kit shown as example

TECHNICAL DATA	
Type	A2 SOLO-Kit
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
Marine Approvals	LRs: 01/00171 (E1), ABS: 16-LD1472056-PDA
GOST R Certificate	POCC GB.AF35.H00102
Ingress Protection Rating**	IP66, IP67 & IP68***
Deluge Protection Compliance	DTS01 : 91
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
Cable Type	Unarmoured
Sealing Technique	CMP Unique Displacement Seal
Sealing Area(s)	Cable Outer Sheath
Cable Gland Kits Available	Up to & including size 25 - 2 glands, 2 locknuts & 2 LSF shrouds Size 32 & above - 1 gland, 1 locknut & 1 LSF shroud

\* 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" (Without Shroud)	Combined Ordering Reference (*Brass Metric)			Cable Gland Only Weight (Kgs)
	Standard			Option							Size	Type	Ordering Suffix	
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT	Min	Max	Max	Max					
20S16	M20	10.0	½"	19.9	¾"	3.2	8.7	24.0	26.4	25.1	20S16	A2LSF	2RA	0.070
20S	M20	10.0	½"	19.9	¾"	6.1	11.7	24.0	26.4	25.1	20S	A2LSF	2RA	0.060
20	M20	10.0	½"	19.9	¾"	6.5	14.0	27.0	29.7	27.2	20	A2LSF	2RA	0.070
25	M25	10.0	¾"	20.2	1"	11.1	20.0	36.0	39.6	35.5	25	A2LSF	2RA	0.130
32	M32	10.0	1"	25.0	1 ¼"	17.0	26.3	41.0	45.1	34.2	32	A2LSF	2RA	0.150
40	M40	15.0	1 ¼"	25.6	1 ½"	23.5	32.2	50.0	55.0	35.1	40	A2LSF	2RA	0.200
50S	M50	15.0	1 ½"	26.1	2"	31.0	38.2	55.0	60.5	32.0	50S	A2LSF	2RA	0.260
50	M50	15.0	2"	26.9	2 ½"	35.6	44.0	60.0	66.0	36.3	50	A2LSF	2RA	0.270
63S	M63	15.0	2"	26.9	2 ½"	41.5	49.9	70.5	77.6	33.5	63S	A2LSF	2RA	0.430
63	M63	15.0	2 ½"	39.9	3"	47.2	55.9	75.0	82.5	35.8	63	A2LSF	2RA	0.460
75S	M75	15.0	2 ½"	39.9	3"	54.0	61.9	80.0	88.0	34.2	75S	A2LSF	2RA	0.520
75	M75	15.0	3"	41.5	3 ½"	61.1	67.9	84.0	92.4	40.6	75	A2LSF	2RA	0.500
90	M90	24.0	3 ½"	42.8	4"	66.6	79.9	108.0	118.8	58.3	90	A2LSF	2RA	1.600
100	M100	24.0	4"	44.0	5"	76.0	91.0	123.0	135.3	55.2	100	A2LSF	2RA	1.780
115	M115	24.0	4"	44.0	5"	86.0	97.9	133.4	146.7	65.2	115	A2LSF	2RA	2.670
130	M130	24.0	5"	46.8	6"	97.0	114.9	152.4	167.6	73.9	130	A2LSF	2RA	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; 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: 32A2LSF2RA534 = Nickel Plated Brass 1 ¼" NPT, 50SA2LSF2RA035 = Brass 1 ½" NPT, 25A2LSF2RA432 = Stainless Steel ¾" NPT, 20A2LSF2RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated





CMP CIEL - CAST INTEGRAL EARTH LUG EQUIPPED PRODUCTS





## CIEL Cast Integral Earth Lug Cable Glands

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

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

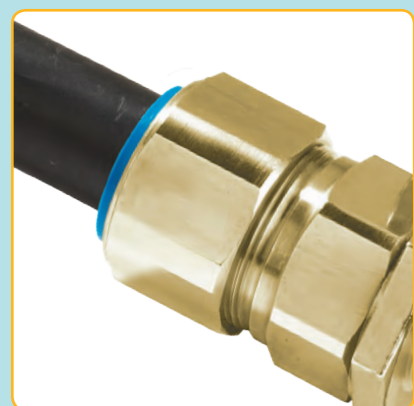
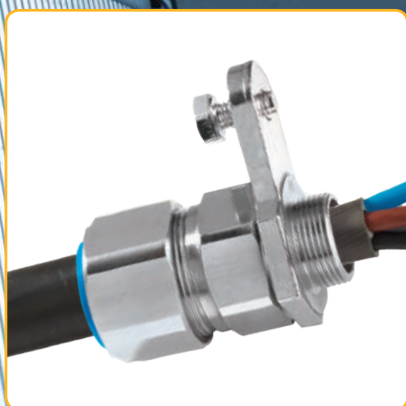
Symmetrical Fault Current (kA) for 1 second

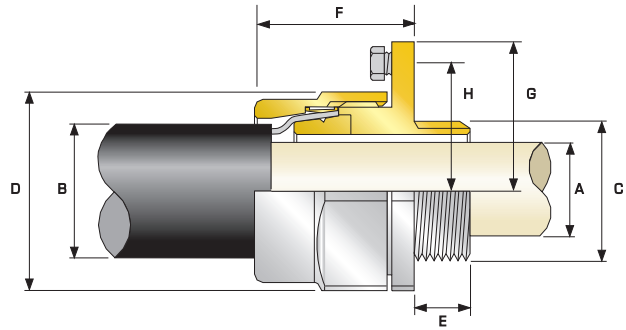
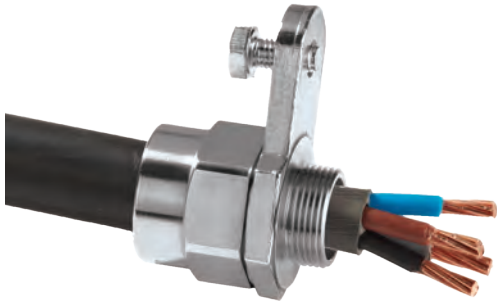
- 26.0 kA for Cable Gland sizes up to 40
- 43.0 kA for Cable Gland sizes 50S and above

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

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

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





## BWL CIEL

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

#### For all types of Steel & Aluminium Wire Armoured Cables

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



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

TECHNICAL DATA	
Design Specification	BS 6121 : Part 1: 1989
Mechanical Classifications*	Impact = Level 8, Cable Anchorage = Class B
Enclosure Protection	IK10 to IEC 62262 (20 joules)
Electrical Classifications*	Category C
Marine Approvals	LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
GOST R Certificate	POCC GB.A135.H00102
Ingress Protection Rating**	IP2X
Cable Gland Material	Brass, Electroless Nickel Plated Brass
Cable Type	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
Armour Clamping	Armour Cone & AnyWay Universal Clamping Ring

\* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444  
 As IEC 62444 and EN 62444 do not cover cable glands which are supplied without cable sealing rings, the information provided here is for information only, since this product does not fully conform to these standards.  
 \*\* When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

### Cable Gland Selection Table

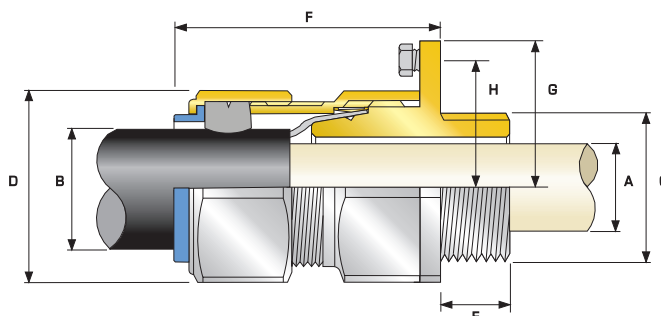
Refer to illustration at the top of the page.

Cable Gland Size	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)		Cable Bedding Diameter "A"	Overall Cable Diameter "B"	Armour Range		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Nominal Radius Dimension		CIEL Earth Bolt Size	Earth Fault Current Rating (kA)	Combined Ordering Reference (*Brass Metric)			Cable Gland Weight (Kgs)
	Standard	Thread Length (Metric) "E"			Min	Max				"H"	"G"			Size	Type	Ordering Suffix	
	Metric		Max	Max	Min	Max	Max	Max									
20S	M20	10.0	11.7	15.9	0.8	1.25	24.0	26.4	32.2	28.6	38.6	M8	26.0	20S	BWLC	1RA	0.112
20	M20	10.0	14.0	20.9	0.8	1.25	30.5	33.6	30.6	31.8	41.8	M8	26.0	20	BWLC	1RA	0.158
25	M25	10.0	20.0	26.2	1.25	1.6	37.5	41.3	36.4	38.1	50.8	M8	26.0	25	BWLC	1RA	0.224
32	M32	10.0	26.2	33.9	1.6	2.0	46.0	50.6	32.6	41.3	54.0	M8	26.0	32	BWLC	1RA	0.244
40	M40	15.0	32.2	40.4	1.6	2.0	55.0	60.5	36.9	50.8	68.3	M10	26.0	40	BWLC	1RA	0.538
50S	M50	15.0	38.2	46.7	2.0	2.5	60.0	66.0	39.6	57.2	74.6	M12	43.0	50S	BWLC	1RA	0.670
50	M50	15.0	44.1	53.1	2.0	2.5	70.1	77.1	39.1	60.3	79.4	M12	43.0	50	BWLC	1RA	0.718
63S	M63	15.0	50.0	59.4	2.0	2.5	75.0	82.5	52.0	70.0	90.5	M12	43.0	63S	BWLC	1RA	1.226
63	M63	15.0	56.0	65.9	2.0	2.5	80.0	88.0	49.8	70.0	90.5	M12	43.0	63	BWLC	1RA	1.178
75S	M75	15.0	62.0	72.1	2.0	2.5	90.0	99.0	63.7	76.2	98.5	M12	43.0	75S	BWLC	1RA	1.859
75	M75	15.0	68.0	78.5	2.5	3.0	100.0	110.0	57.3	82.6	108.0	M12	43.0	75	BWLC	1RA	2.054
90	M90	24.0	79.0	90.4	3.15	4.0	114.3	125.7	66.0	95.3	108.0	M12	43.0	90	BWLC	1RA	2.926
100	M100	24.0	90.0	101.5	3.15	4.0	123.0	135.3	80.0	101.6	139.7	M12	43.0	100	BWLC	1RA	3.032
115	M115	24.0	98.0	110.3	3.15	4.0	133.4	146.7	98.0	112.0	138.5	M12	43.0	115	BWLC	1RA	4.066
130	M130	24.0	115.0	123.3	3.15	4.0	152.4	167.6	110.0	112.0	138.5	M12	43.0	130	BWLC	1RA	5.245

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

Examples: 32BWL1RA5 = Nickel Plated Brass, 25BWL1RA4 = Stainless Steel

Dimensions are displayed in millimetres unless otherwise stated



## CW CIEL

### CW Industrial Single Seal Cast Integral Earth Lug Cable Gland

#### For all types of Steel & Aluminium Wire Armoured Cables

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



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

TECHNICAL DATA	
Design Specification	BS 6121 :Part 1:1989, EN 62444, IEC 62444
Mechanical Classifications*	Impact = Level 8, Cable Anchorage = Class D
Enclosure Protection	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
Electrical Classifications*	Category C
Marine Approvals	LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
GOST R Certificate	POCC GB.AГ35.H00102
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

\* 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

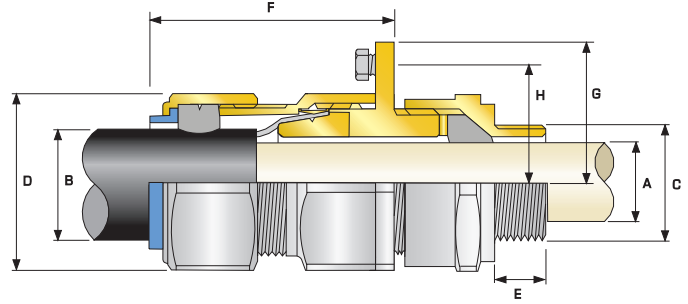
Refer to illustration at the top of the page.

Cable Gland Size	Entry Thread "C"	Thread Length "E"	Cable Bedding Diameter "A"		Overall Cable Diameter "B"		Armour Range		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Nominal Radius Dimension		CIEL Earth Bolt Size	Earth Fault Current Rating (kA)	Combined Ordering Reference (*Brass Metric)			Cable Gland Weight (Kgs)
			Max	Min	Max	Min	Max	Max				Max	"H"			"G"	Size	Type	
20S	M20	10.0	11.7	9.5	15.9	0.8	1.25	24.0	26.4	48.0	28.6	38.6	M8	26.0	20S	CWC	1RA	0.195	
20	M20	10.0	14.0	12.5	20.9	0.8	1.25	30.5	33.6	48.0	31.8	41.3	M8	26.0	20	CWC	1RA	0.276	
25S	M25	10.0	20.0	14.0	22.0	1.25	1.6	37.5	41.3	56.0	38.1	50.8	M8	26.0	25S	CWC	1RA	0.436	
25	M25	10.0	20.0	18.2	26.2	1.25	1.6	37.5	41.3	56.0	38.1	50.8	M8	26.0	25	CWC	1RA	0.435	
32	M32	10.0	26.2	23.7	33.9	1.6	2.0	46.0	50.6	54.0	41.3	54.0	M8	26.0	32	CWC	1RA	0.506	
40	M40	15.0	32.2	27.9	40.4	1.6	2.0	55.0	60.5	58.0	50.8	68.3	M10	26.0	40	CWC	1RA	0.802	
50S	M50	15.0	38.2	35.2	46.7	2.0	2.5	60.0	66.0	61.0	57.2	74.6	M12	43.0	50S	CWC	1RA	0.883	
50	M50	15.0	44.1	40.4	53.0	2.0	2.5	70.1	77.1	60.0	60.3	79.4	M12	43.0	50	CWC	1RA	1.088	
63S	M63	15.0	50.0	45.6	59.4	2.0	2.5	75.0	82.5	74.0	70.0	90.5	M12	43.0	63S	CWC	1RA	1.636	
63	M63	15.0	56.0	54.6	65.8	2.0	2.5	80.0	88.0	71.0	70.0	90.5	M12	43.0	63	CWC	1RA	1.597	
75S	M75	15.0	62.0	59.0	72.0	2.0	2.5	90.0	99.0	86.0	76.2	98.5	M12	43.0	75S	CWC	1RA	2.310	
75	M75	15.0	68.0	66.7	78.4	2.5	3.0	100.0	110.0	82.0	82.6	108.0	M12	43.0	75	CWC	1RA	2.717	
90	M90	24.0	79.0	76.2	90.3	3.15	4.0	114.3	125.7	95.0	95.3	107.1	M12	43.0	90	CWC	1RA	4.417	
100	M100	24.0	90.0	86.1	101.4	3.15	4.0	123.0	135.3	95.0	101.6	139.7	M12	43.0	100	CWC	1RA	4.820	
115	M115	24.0	98.0	101.5	110.2	3.15	4.0	133.4	146.7	107.5	112.0	138.5	M12	43.0	115	CWC	1RA	6.191	
130	M130	24.0	115.0	110.2	123.2	3.15	4.0	152.4	167.6	110.0	112.0	138.5	M12	43.0	130	CWC	1RA	8.388	

\*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: 32CWC1RA534 = Nickel Plated Brass 1 1/4" NPT, 50SCWC1RA035 = Brass 1 1/2" NPT, 25CWC1RA432 = Stainless Steel 3/4" NPT, 20CWC1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



**E1W CIEL**

**E1W Double Seal Industrial Cast Integral Earth Lug Cable Gland**

**For all types of Steel & Aluminium Wire Armoured Cables**

- External earth connection
- Third party short circuit tested
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently 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
- -60°C to +130°C
- Superior EMC performance



The Symmetrical Fault Current (kA) rating for 1 second applicable to the Cast Integral Earth Lug featured in the E1W CIEL products are as follows:  
 26.0 kA for Cable Gland sizes up to 40  
 43.0 kA for Cable Gland sizes 50S and above.

**TECHNICAL DATA**

<b>Design Specification</b>	BS 6121:Part 1:1989, IEC 62444, EN 62444
<b>Mechanical Classifications*</b>	Impact = Level 8, Cable Anchorage = Class D
<b>Enclosure Protection</b>	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
<b>Electrical Classifications*</b>	Category C
<b>Marine Approvals</b>	LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
<b>GOST R Certificate</b>	POCC GB.AF35.H00102
<b>Ingress Protection Rating**</b>	IP66 as standard (IP67, IP68*** available upon request)
<b>Cable Gland Material</b>	Brass, Electroless Nickel Plated Brass, Aluminium
<b>Seal Material</b>	CMP Thermoset Rubber
<b>Cable Type</b>	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
<b>Armour Clamping</b>	Detachable Armour Cone & AnyWay Universal Clamping Ring
<b>Sealing Technique</b>	CMP Inner Displacement Seal & Unique CMP 'LRS'™ Outer Load Retention Seal
<b>Sealing Area(s)</b>	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

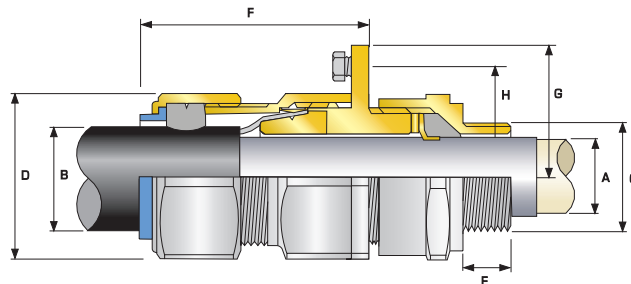
Dimensions for alternative threads may vary, please see supplementary technical data sheet

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"	Radius Dimension		CIEL Earth Bolt Size	Earth Fault Current Rating (kA)	Combined Ordering Reference (*Brass Metric)			Cable Gland Weight (Kgs)	
	Standard		Option		Min	Max	Min	Max	Min	Max	Max	Max		"H"	"G"			Size	Type	Ordering Suffix		
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"																		
20S	M20	10.0	1/2"	19.9	3/4"	6.1	11.6	9.5	15.9	0.8	1.25	24.0	26.4	70.0	28.6	38.6	M8	26.0	20S	E1WC	1RA	0.195
20	M20	10.0	1/2"	19.9	3/4"	6.5	13.9	12.5	20.9	0.8	1.25	30.5	33.6	73.0	31.8	41.8	M8	26.0	20	E1WC	1RA	0.276
25S	M25	10.0	3/4"	20.2	1"	11.1	19.9	14.0	22.0	1.25	1.6	37.5	41.3	89.0	38.1	50.8	M8	26.0	25S	E1WC	1RA	0.438
25	M25	10.0	3/4"	20.2	1"	11.1	19.9	18.2	26.2	1.25	1.6	37.5	41.3	89.0	38.1	50.8	M8	26.0	25	E1WC	1RA	0.435
32	M32	10.0	1"	25.0	1 1/4"	17.0	26.2	23.7	33.9	1.6	2.0	46.0	50.6	86.0	41.3	54.0	M10	26.0	32	E1WC	1RA	0.506
40	M40	15.0	1 1/4"	25.6	1 1/2"	22.0	32.1	27.9	40.4	1.6	2.0	55.0	60.5	90.0	50.8	68.3	M12	26.0	40	E1WC	1RA	0.802
50S	M50	15.0	1 1/2"	26.1	2"	29.5	38.1	35.2	46.7	2.0	2.5	60.0	66.0	91.0	57.2	74.6	M12	43.0	50S	E1WC	1RA	0.883
50	M50	15.0	2"	26.9	2 1/2"	35.6	44.0	40.4	53.0	2.0	2.5	70.1	77.1	95.0	60.3	79.4	M12	43.0	50	E1WC	1RA	1.038
63S	M63	15.0	2"	26.9	2 1/2"	40.1	49.9	45.6	59.4	2.0	2.5	75.0	82.5	102.0	70.0	90.5	M12	43.0	63S	E1WC	1RA	1.636
63	M63	15.0	2 1/2"	39.9	3"	47.2	55.9	54.6	65.8	2.0	2.5	80.0	88.0	104.0	70.0	90.5	M12	43.0	63	E1WC	1RA	1.597
75S	M75	15.0	2 1/2"	39.9	3"	52.8	61.9	59.0	72.0	2.0	2.5	90.0	99.0	115.0	76.2	98.5	M12	43.0	75S	E1WC	1RA	2.310
75	M75	15.0	3"	41.5	3 1/2"	59.1	67.9	66.7	78.4	2.5	3.0	100.0	110.0	117.0	82.6	108.0	M12	43.0	75	E1WC	1RA	2.717
90	M90	24.0	3 1/2"	42.8	4"	66.6	78.6	76.2	90.3	3.15	4.0	114.3	125.7	147.0	95.3	127.1	M12	43.0	90	E1WC	1RA	4.417
100	M100	24.0	4"	44.0	5"	76.0	90.9	86.1	101.4	3.15	4.0	123.0	135.3	140.0	102.0	133.8	M12	43.0	100	E1WC	1RA	4.820
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	95.3	127.1	M12	43.0	115	E1WC	1RA	6.191
130	M130	24.0	5"	46.8	6"	97.0	114.9	110.2	123.2	3.15	4.0	152.4	167.6	177.0	102.0	133.8	M12	43.0	130	E1WC	1RA	8.539

\*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: 32E1WC1RA534 = Nickel Plated Brass 1 1/4" NPT, 50SE1WC1RA035 = Brass 1 1/2" NPT, 20E1WC1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



**E2W CIEL**

**E2W Industrial Double Seal Cast Integral Earth Lug Cable Gland**

For all types of Steel & Aluminium Wire Lead Sheathed Armoured Cables

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



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

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 C
Marine Approvals	LRS: 01/00171 (E1), ABS: 16-LD1472056-PDA
GOST R Certificate	POCC GB.AГ35.H00102
Ingress Protection Rating**	IP66 as standard (IP67, IP68*** available upon request)
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Aluminium
Seal Material	CMP Thermoset Rubber
Cable Type	Lead Sheathed & Single Wire Armour (LC/SWA), Lead Sheathed Aluminium Wire Armour (LC/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)					Lead Sheath Diameter "A"		Overall Cable Diameter "B"		Armour Range		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Radius Dimension		CIE Earth Bolt Size	Earth Fault Current Rating (kA)	Combined Ordering Reference (*Brass Metric)			Cable Gland Weight (Kgs)
	Standard		Option			Min	Max	Min	Max	Min	Max	Max	Max		"H"	"G"			Size	Type	Ordering Suffix	
	Metric	Thread Length (Metric) "E"	NPT	Thread Length (NPT) "E"	NPT																	
20S	M20	10.0	½"	19.9	¾"	6.1	11.0	9.5	15.9	0.8	1.25	24.0	26.4	70.0	28.6	38.6	M8	26	20S	E2WC	1RA	0.195
20	M20	10.0	½"	19.9	¾"	6.5	13.4	12.5	20.9	0.8	1.25	30.5	33.6	73.0	31.8	41.8	M8	26	20	E2WC	1RA	0.276
25S	M25	10.0	¾"	20.2	1"	11.1	19.3	14.0	22.0	1.25	1.6	37.5	41.3	89.0	38.1	50.8	M8	26	25S	E2WC	1RA	0.438
25	M25	10.0	¾"	20.2	1"	11.1	19.3	18.2	26.2	1.25	1.6	37.5	41.3	89.0	38.1	50.8	M8	26	25	E2WC	1RA	0.435
32	M32	10.0	1"	25.0	1 ¼"	17.0	25.5	23.7	33.9	1.6	2.0	46.0	50.6	86.0	41.3	54.0	M8	26	32	E2WC	1RA	0.506
40	M40	15.0	1 ¼"	25.6	1 ½"	22.0	31.2	27.9	40.4	1.6	2.0	55.0	60.5	90.0	50.8	68.3	M10	26	40	E2WC	1RA	0.802
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	57.2	74.6	M12	43	50S	E2WC	1RA	0.883
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	60.3	79.4	M12	43	50	E2WC	1RA	1.038
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	70.0	90.5	M12	43	63S	E2WC	1RA	1.636
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	70.0	90.5	M12	43	63	E2WC	1RA	1.597
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	76.2	98.5	M12	43	75S	E2WC	1RA	2.310
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	82.6	108.0	M12	43	75	E2WC	1RA	2.717
90	M90	24.0	3"	42.8	4"	66.6	77.1	76.2	90.3	3.15	4.0	114.3	125.7	147.0	95.3	127.1	M12	43	90	E2WC	1RA	4.417
100	M100	24.0	4"	44.0	5"	76.0	88.1	86.1	101.4	3.15	4.0	123.0	135.3	140.0	102.0	133.8	M12	43	100	E2WC	1RA	4.820
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	95.3	127.1	M12	43	115	E2WC	1RA	6.191
130	M130	24.0	5"	46.8	6"	97.0	110.1	110.2	123.2	3.15	4.0	152.4	167.6	177.0	102.0	133.8	M12	43	130	E2WC	1RA	8.539

\*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: 32E2WC1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SE2WC1RA035 = Brass 1 ½" NPT, 20E2WC1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



## ZEN Insulated Cable Glands

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

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

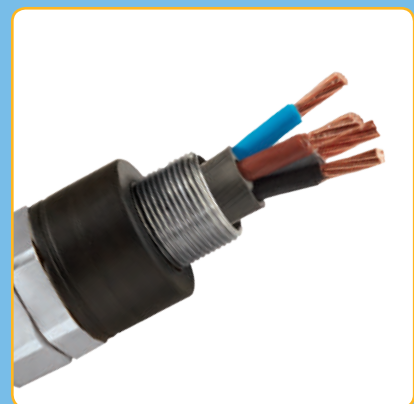
CMP ZEN range of Cable Glands are available to suit cables with steel and aluminium wire armour, aluminium strip armour and steel tape armour.

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

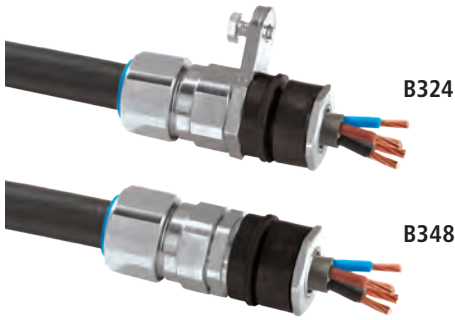
Other cable gland solutions specifically designed for terminating screened variable speed drive (VSD) and EMC cables are available with and without an insulated connection. Please contact CMP for further details if required.



# ZEN







## B324 B348 ZEN

### Insulated Industrial Cable Gland

#### For all types of Steel & Aluminium Wire Armoured Cables

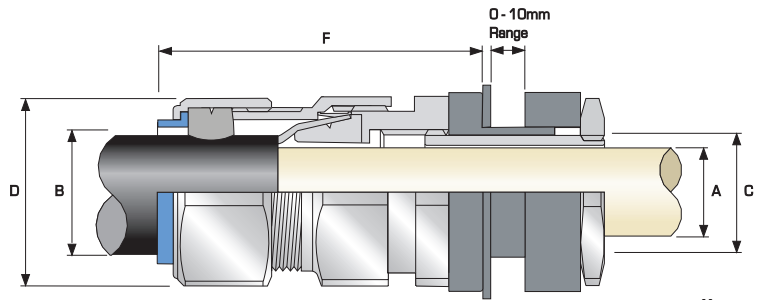
- High quality durable materials
- Robust, heavy duty insulated design
- Metal-to-metal armour clamping
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Direct & remote installation
- Enables zoning of earthed neutral systems
- Eliminates circulating currents
- High capacity external earth connection (B324)
- Third party short circuit tested
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60°C to +130°C
- Superior EMC performance



Earth Tags can only be fitted to the B348 & A348 ZEN Cable Gland types.

The Symmetrical Fault Current (kA) rating for 1 second applicable to the Cast Integral Earth Lug featured in the B324 and A324 products are as follows:  
26.0 kA for Cable Gland sizes up to 40  
43.0 kA for Cable Gland sizes 50S and above

Please refer to the CMP CW CIEL product page for dimensional details of the Cast Integral Earth Lug feature included in the B324 and A324 designs.  
Aluminium version available for AWA cables. When ordering please substitute letter B in B324 & B348 with letter A.



B348 Illustrated

#### TECHNICAL DATA

Type	B324 / B348
Design Specification	BS 6121:Part 1:1989, GDCD 190, 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 (B348) & Category C (B324)
GOST R Certificate	POCC GB.AF35.H00102
Ingress Protection Rating**	IP66
Standard Cable Gland Material	Brass
Alternative Cable Gland Material	Nickel Plated Brass, Aluminium, Stainless Steel
Seal Material	CMP Thermoset Rubber
Cable Type	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
Armour Clamping	Three Part Armour Lock With 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

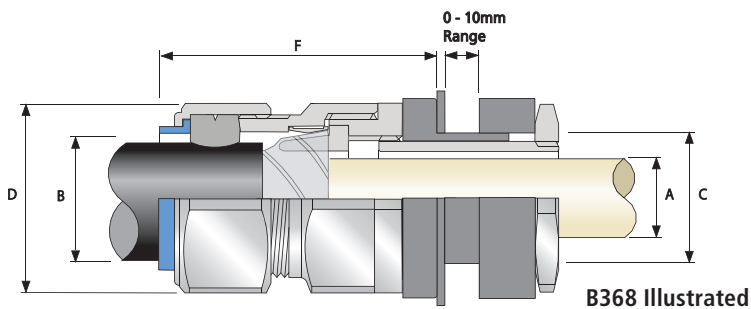
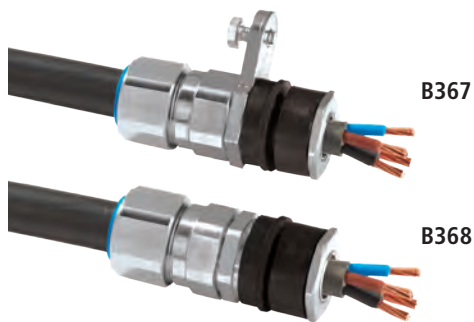
\*\* When CMP installation accessories are used. Refer to page 7 or [www.cmp-products.com](http://www.cmp-products.com) for further information.

### Cable Gland Selection Table

Refer to illustration at the top of the page.

Cable Gland Size	Clearance Hole Diameter "C"	Cable Bedding Diameter "A"	Overall Cable Diameter "B"			Armour Range		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Ordering Reference (Brass Metric)		Shroud (B348)	Cable Gland Weight (Kgs)
			Max	Min	Max	Min	Max				Max	Max		
20S	20.6	11.6	9.5	15.9	0.8	1.25	24.0	26.4	58.6	20S83241RA	20S83481RA	PVC04	0.160	
20	20.6	13.9	12.5	20.9	0.8	1.25	30.5	33.6	59.9	20B3241RA	20B3481RA	PVC06	0.220	
25S	25.6	19.9	14.0	22.0	1.25	1.6	37.5	41.3	69.1	25S83241RA	25S83481RA	PVC09	0.340	
25	25.6	19.9	18.2	26.2	1.25	1.6	37.5	41.3	69.1	25B3241RA	25B3481RA	PVC09	0.340	
32	32.6	26.2	23.7	33.9	1.6	2.0	46.0	50.6	67.6	32B3241RA	32B3481RA	PVC11	0.440	
40	40.6	32.1	27.9	40.4	1.6	2.0	55.0	60.5	73.1	40B3241RA	40B3481RA	PVC15	0.710	
50S	50.7	38.1	35.2	46.7	2.0	2.5	60.0	66.0	72.1	50S83241RA	50S83481RA	PVC18	0.820	
50	50.7	44.0	40.4	53.0	2.0	2.5	70.1	77.1	74.2	50B3241RA	50B3481RA	PVC21	1.060	
63S	63.7	49.9	45.6	59.4	2.0	2.5	75.0	82.5	86.2	63S83241RA	63S83481RA	PVC23	1.510	
63	63.7	55.9	54.6	65.8	2.0	2.5	80.0	88.0	86.1	63B3241RA	63B3481RA	PVC25	1.530	
75S	75.7	61.9	59.0	72.0	2.0	2.5	90.0	99.0	96.5	75S83241RA	75S83481RA	PVC28	2.100	
75	75.7	67.9	66.7	78.4	2.5	3.0	100.0	110.0	95.3	75B3241RA	75B3481RA	PVC30	2.620	
90	90.8	79.4	76.2	90.3	3.15	4.0	115.0	126.5	107.6	90B3241RA	90B3481RA	PVC32	3.740	

Dimensions are displayed in millimetres unless otherwise stated



**B367 B368 ZEN**

**Insulated Industrial Cable Gland**

**For all types of Braided & Tape Armoured Cables**

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

Earth Tags can only be fitted to the B368 & A368 ZEN Cable Gland types.

The Symmetrical Fault Current (kA) rating for 1 second applicable to the Cast Integral Earth Lug featured in the B367 and A367 products are as follows:  
26.0 kA for Cable Gland sizes up to 40  
43.0 kA for Cable Gland sizes 50S and above

Please refer to the CMP CW-CIEL product page for dimensional details of the Cast Integral Earth Lug feature included in the B367 and A367 designs.  
Aluminium version available for AWA cables. When ordering please substitute letter B in B324 & B348 with letter A.

**TECHNICAL DATA**

Type	B367 / B368
Design Specification	BS 6121:Part 1:1989, GDCC 190, 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 (B368) & Category C (B367)
GOST R Certificate	POCC GB.AF35.H00102
Ingress Protection Rating**	IP66
Standard Cable Gland Material	Brass
Alternative Cable Gland Material	Nickel Plated Brass, Aluminium, Stainless Steel
Seal Material	CMP Thermoset Rubber
Cable Type	Wire Braid Armour, Pliable Wire Armour (PWA), Steel Tape Armour (STA)
Armour Clamping	Three Part Armour Lock With 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

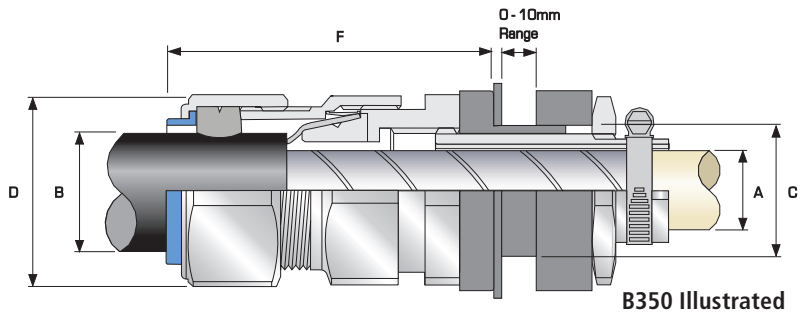
\*\* When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

**Cable Gland Selection Table**

Refer to illustration at the top of the page.

Cable Gland Size	Clearance Hole Diameter "C"	Cable Bedding Diameter "A" Max	Overall Cable Diameter "B"		Armour Range † Grooved Cone (X)		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Ordering Reference (Brass Metric)		Shroud (B368)	Cable Gland Weight (Kgs)
			Min	Max	Min	Max				With CIEL Lug (B367)	Without CIEL Lug (B368)		
20S	20.6	11.6	9.5	15.9	0.3	1.0	24.0	26.4	58.6	20SB3671RA	20SB3681RA	PVC04	0.160
20	20.6	13.9	12.5	20.9	0.4	1.0	30.5	33.6	59.9	20B3671RA	20B3681RA	PVC06	0.220
25S	25.6	19.9	14.0	22.0	0.4	1.2	37.5	41.3	69.1	25SB3671RA	25SB3681RA	PVC09	0.340
25	25.6	19.9	18.2	26.2	0.4	1.2	37.5	41.3	69.1	25B3671RA	25B3681RA	PVC09	0.340
32	32.6	26.2	23.7	33.9	0.4	1.2	46.0	50.6	67.6	32B3671RA	32B3681RA	PVC11	0.440
40	40.6	32.1	27.9	40.4	0.4	1.6	55.0	60.5	73.1	40B3671RA	40B3681RA	PVC15	0.710
50S	50.7	38.1	35.2	46.7	0.4	1.6	61.2	66.0	72.1	50SB3671RA	50SB3681RA	PVC18	0.820
50	50.7	44.0	40.4	53.0	0.6	1.6	70.1	77.1	74.2	50B3671RA	50B3681RA	PVC21	1.060
63S	63.7	49.9	45.6	59.4	0.6	1.6	75.0	82.5	86.2	63SB3671RA	63SB3681RA	PVC23	1.510
63	63.7	55.9	54.6	65.8	0.6	1.6	80.0	88.0	86.1	63B3671RA	63B3681RA	PVC25	1.530
75S	75.7	61.9	59.0	72.0	0.6	1.6	90.0	99.0	96.5	75SB3671RA	75SB3681RA	PVC28	2.100
75	75.7	67.9	66.7	78.4	0.6	1.6	100.0	110.0	95.3	75B3671RA	75B3681RA	PVC30	2.620
90	90.8	79.4	76.2	90.3	0.8	1.6	114.3	125.7	107.6	90B3671RA	90B3681RA	PVC32	3.740

Dimensions are displayed in millimetres unless otherwise stated



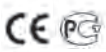
B350 Illustrated

**B327 B350 ZEN**

**Insulated Industrial Cable Gland**

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

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



Earth Tags can only be fitted to the B350 & A350 ZEN gland types.

The Symmetrical Fault Current (kA) rating for 1 second applicable to the Cast Integral Earth Lug featured in the B327 and A327 products are as follows:  
 26.0 kA for Cable Gland sizes up to 40  
 43.0 kA for Cable Gland sizes 50S and above

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

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

**TECHNICAL DATA**

Type	B327 / B350
Design Specification	BS 6121:Part 1:1989, GDCD 190, 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 (B350) & Category C (B327)
GOST R Certificate	POCC GB.AT35.H00102
Ingress Protection Rating**	IP66
Cable Gland Material	Brass
Alternative Cable Gland Material	Nickel Plated Brass, Aluminium, Stainless Steel
Seal Material	CMP Thermoset Rubber
Cable Type	Single Wire Armour (SWA), Aluminium Wire Armour (AWA) with Metallic Tape Screen
Armour Clamping	Three Part Armour Lock With 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

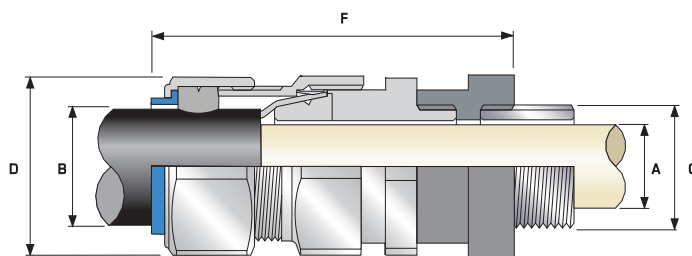
\*\* When CMP installation accessories are used. Refer to page 7 or www.cmp-products.com for further information.

**Cable Gland Selection Table**

Refer to illustration at the top of the page.

Cable Gland Size	Clearance Hole Diameter "C"	Cable Bedding Diameter "A"		Overall Cable Diameter "B"			Armour Range		Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Ordering Reference (Brass Metric)		Shroud (B350)	Cable Gland Weight (Kgs)
		Max	Min	Max	Min	Max	Min	Max				With CIEL Lug (B327)	Without CIEL Lug (B350)		
20S	20.6	11.6	9.5	15.9	0.8	1.25	24.0	26.4	58.6	20SB3271RA	20SB3501RA	PVC04	0.160		
20	20.6	13.9	12.5	20.9	0.8	1.25	30.5	33.6	59.9	20B3271RA	20B3501RA	PVC06	0.220		
25S	25.6	19.9	14.0	22.0	1.25	1.6	37.5	41.3	69.1	25SB3271RA	25SB3501RA	PVC09	0.340		
25	25.6	19.9	18.2	26.2	1.25	1.6	37.5	41.3	69.1	25B3271RA	25B3501RA	PVC09	0.340		
32	32.6	26.2	23.7	33.9	1.6	2.0	46.0	50.6	67.6	32B3271RA	32B3501RA	PVC11	0.440		
40	40.6	32.1	27.9	40.4	1.6	2.0	55.0	60.5	73.1	40B3271RA	40SB3501RA	PVC15	0.710		
50S	50.7	38.1	35.2	46.7	2.0	2.5	60.0	66.0	72.1	50SB3271RA	50SB3501RA	PVC18	0.820		
50	50.7	44.0	40.4	53.0	2.0	2.5	70.1	77.1	74.2	50B3271RA	50B3501RA	PVC21	1.060		
63S	63.7	49.9	45.6	59.4	2.0	2.5	75.0	82.5	86.2	63SB3271RA	63SB3501RA	PVC23	1.510		
63	63.7	55.9	54.6	65.8	2.0	2.5	80.0	88.0	86.1	63B3271RA	63B3501RA	PVC25	1.530		
75S	75.7	61.9	59.0	72.0	2.0	2.5	90.0	99.0	96.5	75SB3271RA	75SB3501RA	PVC28	2.100		
75	75.7	67.9	66.7	78.4	2.5	3.0	100.0	110.0	95.3	75B3271RA	75B3501RA	PVC30	2.620		
90	90.8	79.4	76.2	90.3	3.15	4.0	115.0	126.5	107.6	90B3271RA	90B3501RA	PVC32	3.740		

Dimensions are displayed in millimetres unless otherwise stated



B347 Illustrated

**B323 B347 ZEN**

**Insulated Industrial Cable Gland**

**For all types of Steel & Aluminium Wire Armoured Cables**

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

TECHNICAL DATA	
Type	B323 / B347
Design Specification	BS 6121:Part 1:1989, GDCD 190, 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 (B323) & Category C (B347)
GOST R Certificate	POCC GB.AГ35.H00102
Ingress Protection Rating**	IP66
Cable Gland Material	Brass
Alternative Cable Gland Material	Nickel Plated Brass, Aluminium, Stainless Steel
Seal Material	CMP Thermoset Rubber
Cable Type	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
Armour Clamping	Three Part Armour Lock With 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.



Earth Tags can only be fitted to the B323 & A323 ZEN gland types.

The Symmetrical Fault Current (kA) rating for 1 second applicable to the Cast Integral Earth Lug featured in the B347 and A347 products are as follows:  
 26.0 kA for Cable Gland sizes up to 40  
 43.0 kA for Cable Gland sizes 50S and above

Please refer to the CMP CW CIEL product page for dimensional details of the Cast Integral Earth Lug feature included in the B347 and A347 designs.

Aluminium version available for AWA cables. When ordering please substitute letter B in B323 & B347 with letter A.

**Cable Gland Selection Table**

Refer to illustration at the top of the page.

Cable Gland Size	Entry Thread "C"	Cable Bedding Diameter "A" Max	Overall Cable Diameter "B"		Armour Range		Across Flats "D" Max	Across Corners "D" Max	Protrusion Length "F"	Ordering Reference (Brass Metric)		Shroud (B323)	Cable Gland Weight (Kgs)
			Min	Max	Min	Max				Without CIEL Lug (B323)	With CIEL Lug (B347)		
20S	M20	11.6	9.5	15.9	0.8	1.25	24.0	26.4	73.6	20SB3231RA	20SB3471RA	PVC04	0.190
20	M20	13.9	12.5	20.9	0.8	1.25	30.5	33.6	74.9	20B3231RA	20B3471RA	PVC06	0.240
25S	M25	19.9	14.0	22.0	1.25	1.6	37.5	41.3	84.1	25SB3231RA	25SB3471RA	PVC09	0.350
25	M25	19.9	18.2	26.2	1.25	1.6	37.5	41.3	84.1	25B3231RA	25B3471RA	PVC09	0.350
32	M32	26.2	23.7	33.9	1.6	2.0	46.0	50.6	82.5	32B3231RA	32B3471RA	PVC11	0.470

Dimensions are displayed in millimetres unless otherwise stated