



Brass

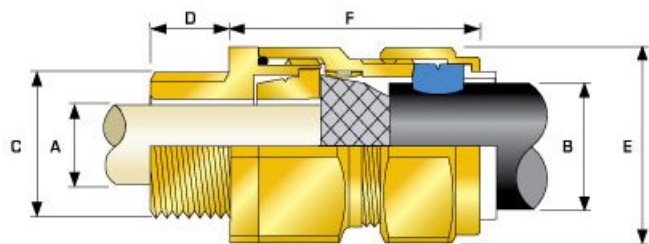
## C2K Increased Safety Ex e Cable Gland

CMP Type C2K Increased Safety (Type 'e') cable gland for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous Areas with all types of armoured cable providing an environmental seal on the cable outer sheath. The cable gland being suitable for use with armoured cables provides mechanical cable retention and electrical continuity via armour wire termination.

All CMP Cable Glands are EMC Tested.

A reversible armour cone and AnyWay universal clamping ring arrangement allows the cable to be easily disconnected from the equipment, for maintenance and change out etc. This feature also facilitates remote make off procedures when the termination is to be conducted in confined spaces or in areas of restricted access.

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



# Cable Gland Selection Table

Cable Gland Size	Available Entry Threads "C"			Min Thread Length "E"	Cable Bedding Diameter "A"	Overall Cable Diameter "B"			Armour Range +				Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Ordering Reference (Brass Metric) #	PVC Shroud Reference *	Cable Gland Weight (Kgs)		
	Standard		Option			Max	Min	Max	Grooved Cone		Stepped Cone								Max	Max
	Metric	NPT	NPT						Min	Max	Min	Max								
20S/16	M20	1/2"	3/4"	15.0	8.7	6.1	11.5	0.0	1.0	0.9	1.0	24.0	25.9	47.0	20S16C2K1RA	PVC06	0.132			
20S	M20	1/2"	3/4"	15.0	11.7	9.5	15.9	0.0	1.0	0.9	1.25	24.0	25.9	47.0	20SC2K1RA	PVC06	0.132			
20	M20	1/2"	3/4"	15.0	14.0	12.5	20.9	0.0	1.0	0.9	1.25	30.5	32.9	50.0	20C2K1RA	PVC06	0.194			
25S	M25	3/4"	1"	15.0	20.0	14.0	22.0	0.0	1.0	1.25	1.6	37.5	40.5	55.0	25SC2K1RA	PVC09	0.306			
25	M25	3/4"	1"	15.0	20.0	18.2	26.2	0.0	1.0	1.25	1.6	37.5	40.5	55.0	25C2K1RA	PVC09	0.306			
32	M32	1"	1 1/4"	15.0	26.3	23.7	33.9	0.0	1.0	1.6	2.0	46.0	49.7	58.0	32C2K1RA	PVC11	0.468			
40	M40	1 1/4"	1 1/2"	15.0	32.2	27.9	40.4	0.0	1.0	1.6	2.0	55.0	59.4	58.0	40C2K1RA	PVC15	0.678			
50S	M50	1 1/2"	2"	15.0	38.2	35.2	46.7	0.0	1.0	2.0	2.5	60.0	64.8	58.0	50SC2K1RA	PVC18	0.750			
50	M50	2"	2 1/2"	15.0	44.1	40.4	53.1	0.0	1.0	2.0	2.5	70.0	75.6	60.0	50C2K1RA	PVC21	1.044			
63S	M63	2"	2 1/2"	15.0	50.0	45.6	59.4	0.0	1.0	2.0	2.5	75.0	81.0	70.0	63SC2K1RA	PVC23	1.074			
63	M63	2 1/2"	3"	15.0	56.0	54.6	65.9	0.0	1.0	2.0	2.5	80.0	86.4	70.0	63C2K1RA	PVC25	1.280			
75S	M75	2 1/2"	3"	15.0	62.0	59.0	72.1	0.0	1.0	2.0	2.5	89.0	96.1	80.0	75SC2K1RA	PVC28	1.860			
75	M75	3"	3 1/2"	15.0	68.0	66.7	78.5	0.0	1.0	2.5	3.0	99.0	106.9	82.0	75C2K1RA	PVC30	2.550			
90	M90	3"	3 1/2"	15.0	80.0	76.2	90.4	0.0	1.6	3.0	3.5	114.0	123.1	96.0	90C2K1RA	PVC32	3.650			
100	M100	4"	-	15.0	91.0	86.1	101.5	0.0	1.6	3.15	4.0	123.0	132.8	106.0	100C2K1RA	LSF33	4.050			
115	M115	-	-	15.0	98.0	101.5	110.3	0.0	1.6	3.15	4.0	133.4	144.1	115.0	115C2K1RA	LSF34	4.80			
130	M130	-	-	15.0	115.0	114.2	123.3	0.0	1.6	3.15	4.0	146.1	157.8	125.0	130C2K1RA	LSF35	5.30			

Dimensions are displayed in Millimetres

**NOTE:** \* CMP SOLO LSF Halogen Free Shrouds also available on request. Alternative armour clamping range available for non-standard armour sizes. # Other thread forms, materials and finishes are available. IEC Ex and ATEX hazardous area certification marking included as standard. Please consult CMP for any other requirements.

Cable Gland Size	Available Entry Threads "C"			Min Thread Length "E"	Cable Bedding Diameter "A"	Overall Cable Diameter "B"			Armour Range +				Across Flats "D"	Across Corners "D"	Protrusion Length "F"	Ordering Reference (Brass Metric) #	PVC Shroud Reference *	Cable Gland Weight (Ozs)		
	Standard		Option			Max	Min	Max	Grooved Cone		Stepped Cone								Max	Max
	Metric	NPT	NPT						Min	Max	Min	Max								
20S/16	M20	1/2"	3/4"	0.591	0.343	0.240	0.453	0.000	0.039	0.035	0.039	0.945	1.020	1.850	20S16C2K1RA	PVC06	4.66			
20S	M20	1/2"	3/4"	0.591	0.461	0.374	0.626	0.000	0.039	0.035	0.049	0.945	1.020	1.850	20SC2K1RA	PVC06	4.66			
20	M20	1/2"	3/4"	0.591	0.551	0.492	0.823	0.000	0.039	0.035	0.049	1.201	1.295	1.969	20C2K1RA	PVC06	6.84			
25S	M25	3/4"	1"	0.591	0.787	0.551	0.866	0.000	0.039	0.049	0.063	1.476	1.594	2.165	25SC2K1RA	PVC09	10.79			
25	M25	3/4"	1"	0.591	0.787	0.717	1.031	0.000	0.039	0.049	0.063	1.476	1.594	2.165	25C2K1RA	PVC09	10.79			
32	M32	1"	1 1/4"	0.591	1.035	0.933	1.335	0.000	0.039	0.063	0.079	1.811	1.957	2.283	32C2K1RA	PVC11	16.51			
40	M40	1 1/4"	1 1/2"	0.591	1.268	1.098	1.591	0.000	0.039	0.063	0.079	2.165	2.339	2.283	40C2K1RA	PVC15	23.92			
50S	M50	1 1/2"	2"	0.591	1.504	1.386	1.839	0.000	0.039	0.079	0.098	2.362	2.551	2.283	50SC2K1RA	PVC18	26.46			
50	M50	2"	2 1/2"	0.591	1.736	1.591	2.091	0.000	0.039	0.079	0.098	2.756	2.976	2.362	50C2K1RA	PVC21	36.83			
63S	M63	2"	2 1/2"	0.591	1.969	1.795	2.339	0.000	0.039	0.079	0.098	2.953	3.189	2.756	63SC2K1RA	PVC23	37.88			
63	M63	2 1/2"	3"	0.591	2.205	2.150	2.594	0.000	0.039	0.079	0.098	3.150	3.402	2.756	63C2K1RA	PVC25	45.15			
75S	M75	2 1/2"	3"	0.591	2.441	2.323	2.839	0.000	0.039	0.079	0.098	3.504	3.783	3.150	75SC2K1RA	PVC28	65.61			
75	M75	3"	3 1/2"	0.591	2.677	2.626	3.091	0.000	0.039	0.098	0.118	3.898	4.209	3.228	75C2K1RA	PVC30	89.95			
90	M90	3"	3 1/2"	0.591	3.150	3.000	3.559	0.000	0.063	0.118	0.138	4.488	4.846	3.780	90C2K1RA	PVC32	128.75			
100	M100	4"	-	0.591	3.583	3.390	3.996	0.000	0.063	0.124	0.157	4.843	5.228	4.173	100C2K1RA	LSF33	142.86			
115	M115	-	-	0.591	3.858	3.996	4.343	0.000	0.063	0.124	0.157	5.252	5.673	4.528	115C2K1RA	LSF34	169.32			
130	M130	-	-	0.591	4.528	4.496	4.854	0.000	0.063	0.124	0.157	5.752	6.213	4.921	130C2K1RA	LSF35	186.95			

Dimensions are displayed in Inches

**NOTE:** \* CMP SOLO LSF Halogen Free Shrouds also available on request. Alternative armour clamping range available for non-standard armour sizes. # Other thread forms, materials and finishes are available. IEC Ex and ATEX hazardous area certification marking included as standard. Please consult CMP for any other requirements.



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# TECHNICAL DATA

GOST R Certificate Number	<a href="#">POCC GB.HO06.B00207</a>
GOST R Code of Protection Category	Ex d IIC / Ex e II / DIP A21
GOST R Compliance Standards	ГОСТ P 52350.0-2005, ГОСТ P 52350.1-2005, ГОСТ P 52350.7-2005, ГОСТ МЭК 61241-1-1-99
GOST GGTN Permit	<a href="#">PPC 00-40706</a>
GOST K Certificate Number	<a href="#">KZ 75000361 01 01 14761</a>
RoK Permit For Use Number	<a href="#">19-02-UL-1957</a>
Lloyds Approval No.	<a href="#">01/00171</a>
DNV Approval No.	<a href="#">E-10496</a>
ABS Approval No.	<a href="#">01-LD234401B/1-PDA</a>
INMETRO Approval Certificate No.	<a href="#">MC-AEX-7617-X</a>
INMETRO Code of Protection Category	BR - Ex e II / IP66W
INMETRO Compliance Standards	IEC 60079-0/00, IEC 60079-7/01, NBE IEC 60529/05
NEPSI Certificate Number	<a href="#">GYJ081070</a>
NEPSI Code of Protection Category	Ex d IIC, Ex e II, Ex nR II, DIP A21 TA
NEPSI Compliance Standards	GB3836.1/2/3-2000, GB3836.8-2003, GB12476.1-2000
RETIE Approval Number	<a href="#">03866</a>
Type	C2K
Design Specification	<a href="#">BS 6121:Part 1:1989</a> , <a href="#">EN 50262:1999</a>
ATEX Certification Detail	<a href="#">SIRA06ATEX1097 X</a> , <a href="#">SIRA07ATEX4326 X</a>
ATEX Code of Protection Category	ATEX II 2 GD, Ex d IIC, Ex e II, Ex tD A21 IP66, ATEX II 3 G Ex nR II
ATEX Compliance Standards	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, IEC 61241-0, EN 61241-1
IEC Ex Certification Detail	<a href="#">IECEx SIR 06.0042 X</a>
IEC Ex Code of Protection Category	Ex e II, Ex tD A21 IP66
IEC Ex Compliance Standards	IEC 60079-0, IEC 60079-7, IEC 61241-0, IEC 61241-1
Continuous Operating Temperature	-60°C to +130°C
Ingress Protection Rating	IP66, IP67, IP68
Ingress Protection Document	<a href="#">5046 C549H</a>
Deluge Protection Compliance	<a href="#">DTS01 : 91</a>
Deluge Protection Document	<a href="#">5046 C549H-D</a>
Cable Gland Material	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
Seal Material	CMP SOLO LSF Thermoplastic Elastomer
Cable Type	Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Wire Braid Armour (e.g. SWB), Aluminium Strip Armour (ASA), Screened Flexible Wire Braid (e.g. CY / SY), Armored & Jacketed
Armour Clamping	Reversible Armour Cone & AnyWay Universal Clamping Ring
Sealing Technique	Unique CMP "LRS" TM Outer Seal (Load Retention Seal)
Sealing Area(s)	Cable Outer Sheath
Accessories	<a href="#">Adaptor/Reducer</a> , <a href="#">Earth Tag</a> , <a href="#">Locknut</a> , <a href="#">Serrated Washer</a> , <a href="#">Entry Thread Seal</a> , <a href="#">Shroud</a>

