

TECHNICAL DATA CABLE GLAND TYPE INGRESS PROTECTION PROCESS CONTROL SYSTEM

(SS2K/TA is not Fx db IIC Gb)

CSA CERTIFICATION No.

CSA CERTIFICATION CODE

: SS2K, SS2K/PB & SS2K/TA : IP66, IP67 IP68, NEMA 4X

: ISO/IEC 80079-34:2011

EXPLOSIVE ATMOSPHERES CLASSIFICATION

ATEX CERTIFICATION No. : CML 18ATEX1322X, CML 18ATEX4314X ATEX CERTIFICATION CODE

: (Ex) I 2G, II 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da (II 3G Ex nR IIC Gc, (IM2 Ex db I Mb, Ex eb I Mb

(SS2K/TA is not Fx db IIC Gb)

UKEX CERTIFICATION No : CML 21UKEX1256X, CML 21UKEX4257X UKEX CERTIFICATION CODE : (Ex) I 2G. II 1D. Fx db IIC Gb. Fx eb IIC Gb. Fx ta IIIC Da

: I M2 Ex db I Mb / Ex eb I Mb (not SS2K/TA) (a) II 3G Ex nR IIC Gc, (b) IM2 Ex db I Mb, Ex eb I Mb

: I M2 Ex db I Mb / Ex eb I Mb (not SS2K/TA)

: IFCFx CMI 18.0178X IECEX CERTIFICATION No. IECEX CERTIFICATION CODE

: Ex db IICC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb, Ex eb I Mb

(Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da only for SS2K/TA)

:1211841 (SS2K only)

: Ex d IIC, Ex e II, Ex nR II, Enclosure Type 4x, Class I, Div. 1 and Div. 2, Groups B, C & D

INSTALLATION INSTRUCTIONS

Installation should only be performed by a competent person using the correct tools. Spanners should be used for tightening. Read all instructions before beginning installation.

- The interface between a cable entry device and its associated enclosure / cable entry will require additional sealing to achieve ingress protection (IP) ratings higher than IP54. The minimum protection level is IP54 for explosive gas atmospheres and IP6X for explosive dust atmospheres. Parallel threads (and tapered threads when using a non-threaded entry) require a CMP sealing washer or integral O-ring face seal (where available) to maintain IP66, 67 and 68 (when applicable). It is the installer's responsibility to ensure the IP rating is maintained at the interface Note: When fitted to a threaded entry, all tapered threads will automatically provide an ingress protection rating of IP66.
- A CMP earth tag should be used when it is necessary to provide an earth bond connection. CMP earth tags have been independently tested to comply with Category B rating specified in IEC 62444 (there are no ratings stated in IEC 60079-0). Ratings are shown in the associated table. CMP earth tags slip over the cable gland or accessory entry thread from inside/outside the enclosure and must be secured with a locknut (if fitted internally).
- Metric entry threads comply with ISO 965-1 and ISO 965-3 with a 6g tolerance as required by IEC 60079-1:2014. The CMP standard metric thread pitch is 1.5mm for threads up to M75, and 2.0mm from M90 and above. Special thread pitches between 0.7 - 2.0mm are available on all products on request. See certificate for details of other thread types. NPT threads are in accordance with ASME B1.20.1-2013 gauging to CI 3.2 for external threads. For details of other thread types refer to IECEx certificate.
- Enclosures must be strong enough to support the cable and cable gland assembly. The enclosure surface finish must be smooth and flat to facilitate sealing with an O-ring or Entry Thread Sealing Washer for the required IP rating.
- Enclosure walls must be sufficiently strong enough to support the cable and cable gland assembly. Enclosure entries shall be perpendicular. Any draft angles from the casting/moulding process should have a perpendicular flat spot machined to facilitate sealing with an O-ring or Entry Thread Sealing Washer.
- CMP Products recommends that when using the cable gland with a through-hole, the hole must be circular, free of burrs and the diameter no larger than 0.7mm above the thread major diameter. A suitable CMP Products locknut shall be used to secure the product. See CMP Products catalogue for locknut options
- Cable glands do not have any serviceable parts and are therefore not intended to be repaired.

CMP Earth Tag Size	Short Circuit Ratings Symmetrical Fault Current (kA) for 1 second						
20	3.06						
25	4.06						
32	5.40						
40	7.20						
50	10.40						
63	10.40						
75	10.40						

SPECIAL CONDITIONS FOR SAFE USE

According to the CEC C22.1-98, Section 18-106 Part 3, Tapered Threads shall have five fully engaged threads and where non-tapered threads are used in Group IIC there must be eight fully engaged

The following accessories are available from CMP Products, as optional extras, to assist with fixing, sealing and earthing : Locknut, Earth Tag, Serrated Washer, Entry Thread (I.P.) Sealing Washer, Shroud

CMP Products Limited on its sole responsibility declares that the equipment referred to herein conforms to the requirements of the ATEX Directive 2014/34/EU and UK statutory requirements SI 2016 No. 1107 (as amended). This is shown in the following harmonised/designated standards;

d. Hicken

Jonathan Hichens - Lead Certification Engineer - (Authorised Person)

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EU Economic Operator: CMP Products Germany GmbH. Address: Lukasstraße 25a, 52070 Aachen 17th March 2020

Notified Body: CML B.V., Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands

EN IEC 60079-0:2018, EN 60079-1:2014, EN IEC 60079-7:2015 + A1:2018, EN IEC 60079-15:2019, EN 60079-31:2014, BS6121:1989, EN 62444:2013

Approved Body: Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ



INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPES SS2K, SS2K/PB & SS2K/TA

CABLE GLAND FOR USE IN EXPLOSIVE ATMOSPHERES WITH UNARMOURED AND BRAID ARMOURED CABLE (WITH LEAD SHEATH ON "PB" VERSIONS & TAPE ARMOUR WITH "TA" VERSIONS).

INCORPORATING EU DECLARATION OF CONFORMITY TO DIRECTIVE 2014/34/EU AND UK STATUTORY REQUIREMENTS SI 2016 No. 1107 (AS AMENDED)



- For use with unarmoured and braid armoured cable

SS2K/PB - For use with unarmoured and braid armoured cables with lead sheaths

SS2K/TA - For use with tape armour

Cable Gland Size	Available Entry Threads (Alternate Metric Thread Lengths Available)						Cable Bedding		Overall Cable Diameter		Across		Combined Ordering Reference (*Brass Metric)				Cable
	Standard Option				Diameter		Diameter		"D"	Corners	Protrusion	(Diass Metric)			Shroud	Gland	
	Metric	Thread Length (Metric)	NPT	Thread Length (NPT)	NPT	Min	Max	Min	Max	Max	Max	Length	Size	Туре	Ordering Suffix	2 544	Weight (Kgs)
20s16	M20	15.0	1/2"	19.9	3/4"	3.2	8.6	3.2	8.6	24.0	26.4	49.0	20516	SS2K	1RA	PVC04	0.140
205	M20	15.0	1/2"	19.9	3/4"	6.1	11.7	6.1	11.7	24.0	26.4	49.0	205	SS2K	1RA	PVC04	0.130
20	M20	15.0	1/2"	19.9	3/4"	6.5	14.0	6.5	14.0	27.0	29.7	54.0	20	SS2K	1RA	PVC05	0.160
25	M25	15.0	3/4"	20.2	1"	11.1	20.0	11.1	20.0	36.0	39.6	66.0	25	SS2K	1RA	PVC09	0.300
32	M32	15.0	1"	25.0	1 1/4"	17.0	26.3	17.0	26.3	41.0	45.1	67.0	32	SS2K	1RA	PVC10	0.350
40	M40	15.0	1 1/4"	25.6	1 1/2"	23.5	32.1	23.5	32.1	50.0	55.0	70.0	40	SS2K	1RA	PVC13	0.500
50S	M50	15.0	1 1/2"	26.1	2"	31.0	38.2	31.0	38.2	55.0	60.5	65.0	50S	SS2K	1RA	PVC15	0.560
50	M50	15.0	2"	26.9	2 1/2"	35.6	44.0	35.6	44.0	60.0	66.0	70.0	50	SS2K	1RA	PVC18	0.590
635	M63	15.0	2"	26.9	2 1/2"	41.5	49.9	41.5	49.9	70.5	77.6	70.0	635	SS2K	1RA	PVC21	0.890
63	M63	15.0	2 1/2"	39.9	3"	47.2	55.9	47.2	55.9	75.0	82.5	71.0	63	SS2K	1RA	PVC23	0.850
755	M75	15.0	2 1/2"	39.9	3"	54.0	61.9	54.0	61.9	80.0	88.0	70.0	755	SS2K	1RA	PVC25	1.020
75	M75	15.0	3"	41.5	3 1/2"	61.1	67.9	61.1	67.9	84.0	92.4	75.0	75	SS2K	1RA	PVC26	0.990
90	M90	24.0	3 1/2"	42.8	4"	66.6	79.4	66.6	79.4	108.0	118.8	113.0	90	SS2K	1RA	PVC31	2.990
100	M100	24.0	4"	44.0	5"	76.0	90.9	76.0	90.9	123.0	134.2	106.0	100	SS2K	1RA	LSF33	3.390
115	M115	24.0	4"	44.0	5"	86.0	97.9	86.0	97.9	133.4	146.7	128.0	115	SS2K	1RA	LSF34	5.320
130	M130	24.0	5″	46.8	6"	97.0	114.9	97.0	114.9	152.4	167.6	129.0	130	SS2K	1RA	LSF35	6.350

^{*} Codes shown are for SS2K glands, for SS2K/PB add "PB" e.g. 20SS2KPB1RA, for SS2K/TA add "TA" e.g. 20SS2KTA1RA

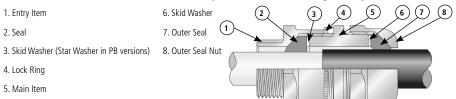


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FI430								
Certification	Revision	Revision						
UKEX	0	04/21						
IFS	12	10/21						
ATEX / IECEx	8	04/19						
CSA / CSAus	7	-						

INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPES SS2K, SS2K/PB & SS2K/TA

CABLE GLAND COMPONENTS - It is not necessary to dismantle the cable gland any further than illustrated below

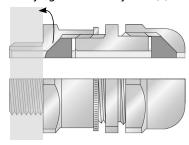


PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION

The SS2K and SS2K/PB cable gland can be used with all types of unarmoured cable and braid armoured cable where the braid is terminated inside the enclosure. The inner seal is used to provide a flameproof seal and cable anchor and the outer seal provides further anchoring and an additional environmental seal. An electrical earth connection is automatically made to the cable lead sheath through the star washer when "PB" versions are used, or to the tape when "TA" versions are used.

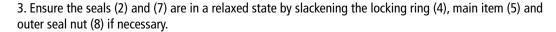
NOTE: There is no need to dismantle the cable gland prior to installation

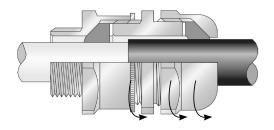
1. Fit the gland into the equipment and fully tighten the entry item (1).



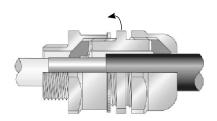
If installed in a clearance hole, fit a locknut and tighten.

2. Determine the conductor length required to suit the geometry of the equipment and prepare the cable accordingly. Remove the outer sheath where required to reveal the insulated conductors, lead sheath, or tape where applicable.





4. Pass the cable through the gland to the desired position. Tighten the main item (5) into the entry item (1) until the seal is felt to make contact with the cable and then tighten one further turn using a spanner. An electrical earth will automatically be made against lead sheath, or tape armour cable through the star washer (3).



Note: "PB" version shown

5. Tighten the outer seal nut (8) until the outer seal (7) contacts the cable and then tighten one full turn further using a spanner. Tighten the lock ring (4) against the entry item. This completes the installation.

