

TECHNICAL DATA

CABLE GLAND TYPE :TMC2  
INGRESS PROTECTION :IP66, NEMA 4X  
PROCESS CONTROL SYSTEM :ISO 9001  
: ISO/IEC 80079-34:2011

EXPLOSIVE ATMOSPHERES CLASSIFICATION

ATEX CERTIFICATION No : CML 18ATEX1335X  
ATEX CERTIFICATION CODE : Ⓔ II 2G 1D, Ex eb IIC Gb, Ex ta IIIC Da  
UKEX CERTIFICATION No : CML 21UKEX1262X  
UKEX CERTIFICATION CODE : Ⓔ II 2G 1D, Ex eb IIC Gb, Ex ta IIIC Da  
IECEX CERTIFICATION IECEX : IECEX CML 18.0192X  
IECEX CERTIFICATION CODE : Ex eb IIC Gb, Ex ta IIIC Da  
cSAus CERTIFICATION No : 2194053  
CSAus CERTIFICATION No : Class II, Groups E,F and G; Class III; Enclosure type 4X;  
Class I, Zone 1, AEx e II, AEx ta IIC ; Ex e II  
cCSA CERTIFICATION No : Class I, Div 2, Groups A, B, C and D; Class II, Groups E,F and G; Class III Enclosure type 4X; Ex e II;  
Class I, Zone 1 Ex e II , Ex ta IIC

INSTALLATION INSTRUCTIONS

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

INSTALLATION GUIDANCE NOTES

1. In accordance with NEC requirements, glands with NPT and Metric entry threads are suitable for both Divisions and Zones.
2. In accordance with CEC requirements, glands with NPT threads are suitable for both Divisions and Zones. Glands with Metric threads are only suitable for Zones fitted with an approved Metric to NPT thread conversion adaptor.
3. 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 on TMC2 product will automatically provide an ingress protection rating of IP66.
4. 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).
5. 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.
6. 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.
7. 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.
8. 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
9. 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

1. The glands shall only be fitted to enclosures where the temperature, at the point of mounting, is below 110°C (230°F).
2. The cable shall be effectively clamped as close as possible to the gland.
3. When used for increased safety (Ex e) or dust protection by enclosure (Ex t) applications, the user shall provide a suitable interface seal between the gland and associated enclosure to maintain the appropriate level of ingress protection of IP54 for increased safety and IP6X for dust protection by enclosure.
4. Connectors with metric entry threads are only suitable for Areas Classified in ZONES unless fitted with an approved Metric to NPT thread conversion adaptor.

ACCESSORIES

The following accessories are available from the manufacturer, as optional extras, to assist with fixing, sealing and earthing: Locknut | Earth Tag | Serrated Washer

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;  
EN 60079-0:2018, EN 60079-7:2015 + A1:2018, EN 60079-31:2014, BS 6121:1989, EN 62444-2013

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17th March 2020

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SCAN FOR INSTALLATION VIDEOS



INSTALLATION INSTRUCTIONS FOR CMP  
CABLE GLAND TYPE TMC2

CMP TYPE TMC2 CABLE GLAND FOR USE WITH INTERLOCKED AND CORRUGATED CONTINUOUSLY WELDED METAL CLAD (TYPE MC OR MC-HL) OR TECK ARMORED AND ARMORED AND JACKETED CABLES IN ORDINARY, WET AND HAZARDOUS LOCATIONS.

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

Order Reference (NPT suffix required)			Entry Thread		Minimum Thread Length	Cable Armor Diameter				Cable Jacket Diameter		Thru Bore	Across Flats	Across Corners	Nominal Assembly Length	Shroud	Approx Weight Aluminum (oz)
Aluminum	Nickel Plated Brass	Stainless Steel	NPT Standard	NPT Option		Armor Stop In		Armor Stop Out		Min	Max						
						Min	Max	Min	Max								
TMC2-050A075	TMC2-050NB075	TMC2-050SS075	½"	-	0.78	0.42	0.55	0.55	0.63	0.50	0.75	0.51	1.20	1.32	2.44	PVC06	2.29
TMC2-075A075	TMC2-075NB075	TMC2-075SS075	-	¾"	0.80	0.42	0.55	0.55	0.63			0.51					
TMC2-050A099	TMC2-050NB099	TMC2-050SS099	½"	-	0.78	0.60	0.65	0.65	0.89	0.69	0.99	0.61	1.48	1.63	2.96	PVC09	3.00
TMC2-075A099	TMC2-075NB099	TMC2-075SS099	-	¾"	0.80	0.60	0.78	0.78	0.89			0.75					
TMC2-075A118	TMC2-075NB118	TMC2-075SS118	¾"	-	0.80	0.79	0.86	0.86	1.10	0.87	1.18	0.82	1.81	1.99	3.15	PVC11	5.11
TMC2-100A118	TMC2-100NB118	TMC2-100SS118	-	1"	0.98	0.79	0.98	0.98	1.10	0.95		0.95					
TMC2-100A137	TMC2-100NB137	TMC2-100SS137	1"	-	0.98	0.94	1.08	1.08	1.28	1.04	2.05	2.26	3.55	PVC15	6.70		
TMC2-125A137	TMC2-125NB137	TMC2-125SS137	-	1 ¼"	1.01	0.94	1.18	1.18	1.28	1.14		1.14					
TMC2-125A162	TMC2-125NB162	TMC2-125SS162	1 ¼"	-	1.01	1.22	1.35	1.35	1.50	1.31		1.31					
TMC2-150A162	TMC2-150NB162	TMC2-150SS162	-	1 ½"	1.03	1.22	1.42	1.42	1.50	1.30	1.62	1.38	2.36	2.60	3.59	PVC18	8.82
TMC2-125A190	TMC2-125NB190	TMC2-125SS190	1 ¼"	-	1.01	-	-	1.51	1.72	1.37		1.37					
TMC2-150A190	TMC2-150NB190	TMC2-150SS190	-	1 ½"	1.03	-	-	1.51	1.72	1.57	1.90	1.54	2.56	2.82	3.59	PVC37	9.45
TMC2-150A200	TMC2-150NB200	TMC2-150SS200	1 ½"	-	1.03	1.57	1.70	1.70	1.88	1.65	2.00	1.61	2.75	3.03	3.76	PVC21	11.06
TMC2-200A200	TMC2-200NB200	TMC2-200SS200	-	2"	1.06	1.57	1.70	1.70	1.88	1.65		1.65					
TMC2-150A233	TMC2-150NB233	TMC2-150SS233	-	1 ½"	1.03	-	-	1.81	2.21	1.61		1.61					
TMC2-200A233	TMC2-200NB233	TMC2-200SS233	2"	-	1.06	-	-	1.81	2.21	1.90	2.33	2.03	2.95	3.25	3.97	PVC23	12.77
TMC2-250A233	TMC2-250NB233	TMC2-250SS233	-	2 ½"	1.57	-	-	1.81	2.21	2.03		2.03					
TMC2-200A272	TMC2-200NB272	TMC2-200SS272	-	2"	1.06	2.14	2.46	2.17	2.61	2.07		2.07					
TMC2-250A272	TMC2-250NB272	TMC2-250SS272	2 ½"	-	1.57	2.14	2.46	2.46	2.61	2.27	2.72	2.40	3.54	3.89	4.10	PVC28	24.69
TMC2-300A272	TMC2-300NB272	TMC2-300SS272	-	3"	1.63	2.14	2.46	2.46	2.61	2.40		2.40					
TMC2-300A325	TMC2-300NB325	TMC2-300SS325	3"	-	1.63	2.49	2.78	2.78	2.97	2.62	3.25	2.72	4.33	4.76	4.67	PVC32	42.68
TMC2-350A325	TMC2-350NB325	TMC2-350SS325	-	3 ½"	1.69	2.49	2.78	2.78	2.97	2.72		2.72					
TMC2-350A376	TMC2-350NB376	TMC2-350SS376	3 ½"	-	1.69	2.95	3.45	3.45	3.54	3.16	3.76	3.38	4.84	5.32	4.95	LSF33	53.44
TMC2-400A376	TMC2-400NB376	TMC2-400SS376	-	4"	1.73	2.95	3.45	3.45	3.54	3.38		3.38					
TMC2-400A425	TMC2-400NB425	TMC2-400SS425	4"	-	1.73	-	-	3.56	3.94	3.70	4.25	3.59	5.23	5.75	5.16	LSF34	59.19
Dimensions are displayed in inches unless otherwise stated																	
			Metric	Metric													kg
TMC2-M20A075	TMC2-M20NB075	TMC2-M20SS075	M20	-	15.0	10.67	13.97	13.97	16.00	12.70	19.05	13.00	30.48	33.53	61.98	PVC06	0.065
TMC2-M25A075	TMC2-M25NB075	TMC2-M25SS075	-	M25	15.0	10.67	13.97	13.97	16.00			13.00					
TMC2-M20A099	TMC2-M20NB099	TMC2-M20SS099	M20	-	15.0	15.24	16.51	16.51	22.61	17.53	25.15	15.49	37.59	41.35	75.11	PVC09	0.085
TMC2-M25A099	TMC2-M25NB099	TMC2-M25SS099	-	M25	15.0	15.24	19.81	19.81	22.61			19.00					
TMC2-M25A118	TMC2-M25NB118	TMC2-M25SS118	M25	-	15.0	20.07	21.84	21.84	27.94	22.10	29.97	20.80	45.97	50.57	80.11	PVC11	0.145
TMC2-M32A118	TMC2-M32NB118	TMC2-M32SS118	-	M32	15.0	20.07	24.89	24.89	27.94	24.00		24.00					
TMC2-M32A137	TMC2-M32NB137	TMC2-M32SS137	M32	-	15.0	23.88	27.43	27.43	32.51	25.91	34.80	26.44	52.07	57.28	90.09	PVC15	0.190
TMC2-M40A137	TMC2-M40NB137	TMC2-M40SS137	-	M40	15.0	23.88	29.97	29.97	32.51	28.88		28.88					
TMC2-M40A162	TMC2-M40NB162	TMC2-M40SS162	M40	-	15.0	30.99	34.29	34.29	38.10	33.02	41.15	33.20	59.94	65.94	91.21	PVC18	0.250
TMC2-M50A162	TMC2-M50NB162	TMC2-M50SS162	-	M50	15.0	30.99	36.07	36.07	38.10	34.98		34.98					
TMC2-M40A190	TMC2-M40NB190	TMC2-M40SS190	M40	-	15.0	-	-	38.35	43.69	39.88	48.26	34.80	65.02	71.53	91.11	PVC37	0.268
TMC2-M50A190	TMC2-M50NB190	TMC2-M50SS190	-	M50	15.0	-	-	38.35	43.69	38.99		38.99					
TMC2-M50A200	TMC2-M50NB200	TMC2-M50SS200	M50	-	15.0	39.88	43.18	43.18	47.75	41.91	50.80	41.00	69.85	76.83	95.40	PVC21	0.314
TMC2-M63A200	TMC2-M63NB200	TMC2-M63SS200	-	M63	15.0	39.88	43.18	43.18	47.75	41.99		41.99					
TMC2-M50A233	TMC2-M50NB233	TMC2-M50SS233	-	M50	15.0	-	-	45.97	56.13	41.00		41.00					
TMC2-M63A233	TMC2-M63NB233	TMC2-M63SS233	M63	-	15.0	-	-	45.97	56.13	48.51	59.18	51.49	74.93	82.42	100.89	PVC23	0.362
TMC2-M75A233	TMC2-M75NB233	TMC2-M75SS233	-	M75	15.0	-	-	45.97	56.13	51.49		51.49					
TMC2-M63A272	TMC2-M63NB272	TMC2-M63SS272	-	M63	15.0	54.36	62.48	62.48	66.29	52.53		52.53					
TMC2-M75A272	TMC2-M75NB272	TMC2-M75SS272	M75	-	15.0	54.36	62.48	62.48	66.29	57.66	69.09	60.99	89.92	98.91	104.09	PVC28	0.700
TMC2-M90A272	TMC2-M90NB272	TMC2-M90SS272	-	M90	24.0	54.36	62.48	62.48	66.29	60.99		60.99					
TMC2-M90A325	TMC2-M90NB325	TMC2-M90SS325	M90	-	24.0	63.25	70.61	70.61	75.44	66.55	82.55	68.96	109.98	120.98	118.49	PVC32	1.210
TMC2-M100A325	TMC2-M100NB325	TMC2-M100SS325	-	M100	24.0	63.25	70.61	70.61	75.44	68.96		68.96					
TMC2-M100A376	TMC2-M100NB376	TMC2-M100SS376	M100	-	24.0	74.93	87.63	87.63	89.92	80.26	95.50	85.95	122.94	135.23	125.81	LSF33	1.515
TMC2-M115A376	TMC2-M115NB376	TMC2-M115SS376	-	M115	24.0	74.93	87.63	87.63	89.92	85.95		85.95					
TMC2-M115A425	TMC2-M115NB425	TMC2-M115SS425	M115	-	24.0	-	-	90.42	100.08	93.98	107.95	91.26	132.84	146.13	131.09	LSF34	1.678
METRIC Dimensions above are displayed in millimetres unless otherwise stated																	



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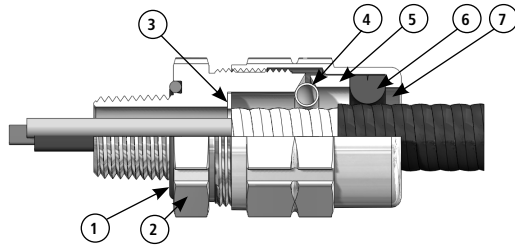
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F1410		
Certificate	Revision	Date

## INSTALLATION INSTRUCTIONS FOR CMP TMC2

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

1. Face Seal
2. Entry Component
3. End Stop
4. Grounding Spring
5. Angled Spacer
6. Jacket Seal
7. Outer Nut

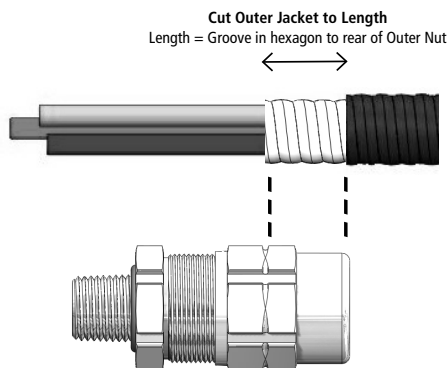


**PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION**

1. Cable preparation. Strip back the jacket and armor to suit the equipment geometry.

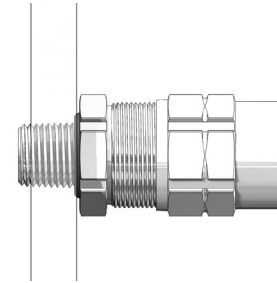


2. Using the armor measure guide, expose the armor further by stripping back the cable jacket.

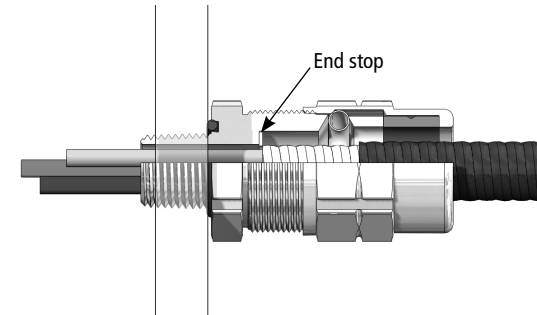


**NOTE:** When the outer jacket is at its maximum, cut distance may have to be increased by up to 10%.

3. Screw the gland into the equipment, or if it is fitted into a clearance hole, secure with a locknut. Loosen the outer nut to ensure that the Grounding Spring (4) and the Jacket Seal (6) are in a relaxed state. IT IS NOT NECESSARY TO SEPARATE THE GLAND COMPONENTS.



4. Pass the cable through the gland until the armor makes contact with the end stop. If it is not possible for the conductors to pass through the end stop then it should be removed so that the armor can make contact with the integral end stop within the entry component.



5. Finally, tighten the Outer Nut (7) to compress the Grounding Spring (4) to secure the armor, and also to compress the Jacket Seal (6) onto the cable jacket. Do not over-tighten. The Entry Component (2) and the Outer Nut (7) do not have to close face to face.

**THIS COMPLETES THE TERMINATION**

