TECHNICAL DATA

CABLE GLAND TYPE : TMC2X
INGRESS PROTECTION : IP66, NEMA 4X
PROCESS CONTROL SYSTEM : BS EN ISO 9001
: ISO/IEC 80079-34:2011

HAZARDOUS AREA CLASSIFICATION

ATEX CERTIFICATION No : SIRA 09ATEX1165X
ATEX CERTIFICATION CODE : II 2 GD Exd IIC Gb / Ex e IIC Gb / Ex ta IIIC Da
IEC Ex CERTIFICATION No : IEC Ex SIR.09.0069X
IEC Ex CERTIFICATION CODE : Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da
CSA-us CERTIFICATION No : CSA.09.2194053X
CSA-us CERTIFICATION CODE : Class I Div 1, 2 Gp A, B, C, D; Class II, Div 1, 2 Gp E, F, G; Class 1 Zone 1, 2, AEx d IIC, AEx e II; Ex d IIC, Ex e II; SL

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, connectors with NPT and Metric entry threads are suitable for both Divisions and Zones.
2. In accordance with CEC requirements, connectors with NPT threads are suitable for both Divisions and Zones. Connectors with Metric threads are only suitable for Zones unless fitted with an approved Metric to NPT thread conversion adaptor.
3. For IEC and/or ATEX installations:
   - All tapes/shields/foils must be removed and any twisted pairs/triples unwound to form individual conductors.
   - Drain Wires: Pass sleeving/heat shrink tube over the drain, making sure it is positioned within the resin Tube/Resin Dam area.
   If required, shrink the tube by applying heat, then treat the drain wire as a conductor.
4. For NEC Class 1 Div 1 and Zone 1 see article 501.15 of the NEC.

SPECIAL CONDITIONS FOR SAFE USE

- The glands shall only be fitted to enclosures where temperatures, at the point of mounting, is below 85°C.
- The cable shall be effectively clamped as close as possible to the gland.
- When used for Ex e or Ex ta applications, the user shall provide a suitable interface seal between the gland and associated enclosure to maintain the level of ingress protection of the enclosure they are fitted to.

Ordering Reference (Std Thread)			Entry Thread NPT		Diameter Over Cores	Min Thread Length	Cable Armor Diameter		Cable Jacket Diameter		Across Flats Range	Across Corners	Assembled Length	Approx Weight Aluminium (ozs)	Gland Size
Aluminium	NP Brass	S. Steel	Standard	Option			Min	Max	Min	Max					
TMC2X-050A075	TMC2X-050NB075	TMC2X-050SS075	1/2"	-	0.51	0.78	0.42	0.63	0.50	0.75	1.20	1.30	1.65	2.29	20S
TMC2X-075A075	TMC2X-075NB075	TMC2X-075SS075	-	3/4"	0.51	0.80									
TMC2X-075A099	TMC2X-075NB099	TMC2X-075SS099	3/4"	-	0.71	0.80	0.60	0.89	0.69	0.99	1.48	1.60	1.97	3.00	20
TMC2X-050A099	TMC2X-050NB099	TMC2X-050SS099	-	1/2"	0.51	0.78									
TMC2X-100A118	TMC2X-100NB118	TMC2X-100SS118	1"	-	0.94	0.98	0.79	1.10	0.87	1.18	1.81	1.95	2.13	5.11	25
TMC2X-075A118	TMC2X-075NB118	TMC2X-075SS118	-	3/4"	0.71	0.80									
TMC2X-125A137	TMC2X-125NB137	TMC2X-125SS137	1-1/4"	-	1.20	1.00	0.94	1.28	1.02	1.37	2.05	2.21	2.34	6.70	32
TMC2X-100A137	TMC2X-100NB137	TMC2X-100SS137	-	1"	0.94	0.98									
TMC2X-150A162	TMC2X-150NB162	TMC2X-150SS162	1-1/2"	-	1.46	1.03	1.22	1.50	1.30	1.62	2.36	2.55	2.44	8.82	40S
TMC2X-125A162	TMC2X-125NB162	TMC2X-125SS162	-	1-1/4"	1.20	1.00									
TMC2X-150A190	TMC2X-150NB190	TMC2X-150SS190	1-1/2"	-	1.46	1.03	1.49	1.72	1.57	1.90	2.56	2.76	2.44	9.45	40
TMC2X-125A190	TMC2X-125NB190	TMC2X-125SS190		1-1/4"	1.20	1.00									
TMC2X-200A200	TMC2X-200NB200	TMC2X-200SS200	2"	-	1.63	1.06	1.57	1.88	1.65	2.00	2.75	2.97	2.60	11.06	50S
TMC2X-150A200	TMC2X-150NB200	TMC2X-150SS200	-	1-1/2"	1.46	1.03									
TMC2X-250A233	TMC2X-250NB233	TMC2X-250SS233	2-1/2"	-	2.13	1.57	1.79	2.21	1.91	2.33	2.95	3.19	2.64	12.77	63S
TMC2X-200A233	TMC2X-200NB233	TMC2X-200SS233	-	2"	1.90	1.06									
TMC2X-300A272	TMC2X-300NB272	TMC2X-300SS272	3"	-	2.55	1.63	2.14	2.61	2.27	2.72	3.54	3.82	2.76	24.69	75
TMC2X-250A272	TMC2X-250NB272	TMC2X-250SS272	-	2-1/2"	2.37	1.57									
TMC2X-350A325	TMC2X-350NB325	TMC2X-350SS325	3-1/2"	-	2.98	1.68	2.49	2.97	2.62	3.25	4.33	4.68	3.46	42.68	90
TMC2X-300A325	TMC2X-300NB325	TMC2X-300SS325	-	3"	2.98	1.63									
TMC2X-400A376	TMC2X-400NB376	TMC2X-400SS376	4"	-	3.49	1.73	2.95	3.54	3.16	3.76	4.84	5.23	3.68	53.44	100
TMC2X-350A376	TMC2X-350NB376	TMC2X-350SS376	-	3-1/2"	3.49	1.68									
TMC2X-400A425	TMC2X-400NB425	TMC2X-400SS425	4"	-	3.49	1.73	3.52	3.94	3.70	4.25	5.23	5.65	3.89	59.19	115
All dimensions in inches															

Cable Connector Selection Table

I, the undersigned, hereby declare that the equipment referred to herein conforms to the requirements of the ATEX Directive 94/9/EC and the following standards:-

EN60079-0:2009, EN60079-1:2007, EN60079-7:2007, BS 6121:1989, EN50262:1998 (Amd 2001), EN61241-0:2006, EN61241-1:2004

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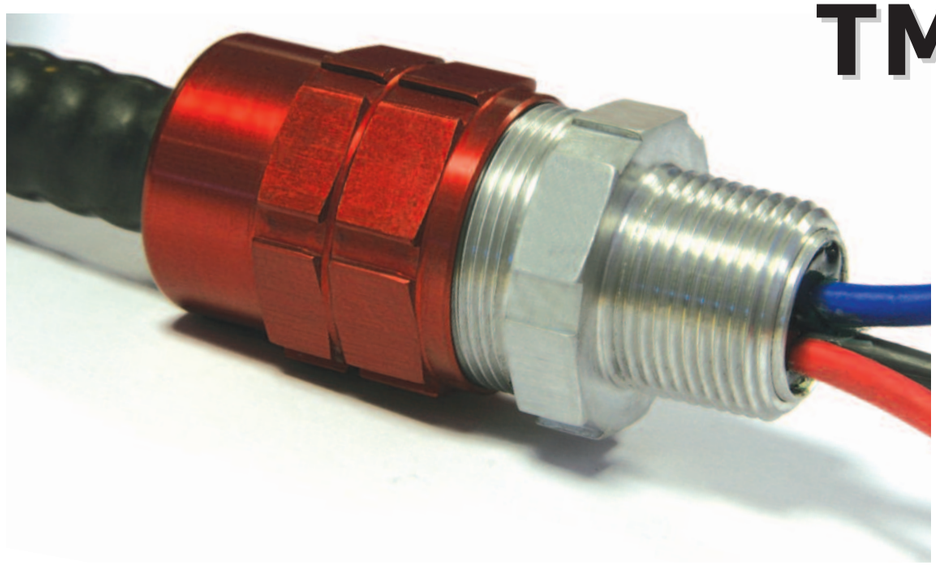
INSTALLATION INSTRUCTIONS FOR CMP CABLE CONNECTOR TYPE TMC2X

CMP TYPE TMC2X CABLE CONNECTOR FOR USE WITH INTERLOCKED & CORRUGATED CONTINUOUSLY WELDED METAL CLAD (TYPE MC OR MC-HL) OR TECK ARMORED AND ARMORED & JACKETED CABLES IN ORDINARY, WET & HAZARDOUS LOCATIONS.

INCORPORATING EC DECLARATION OF CONFORMITY TO DIRECTIVE 94/9/EC

CABLE CONNECTOR TYPE TMC2X



CMP

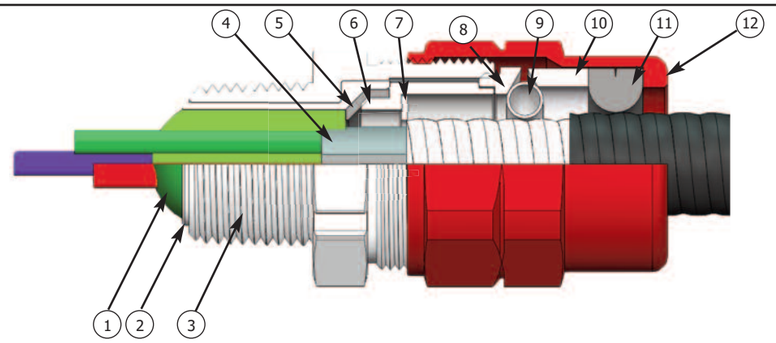
CMP Document No. FI466 Issue 2 02/13

Logo's shown for illustration purposes only. Please check certification for details

INSTALLATION INSTRUCTIONS FOR TMC2X CABLE CONNECTOR

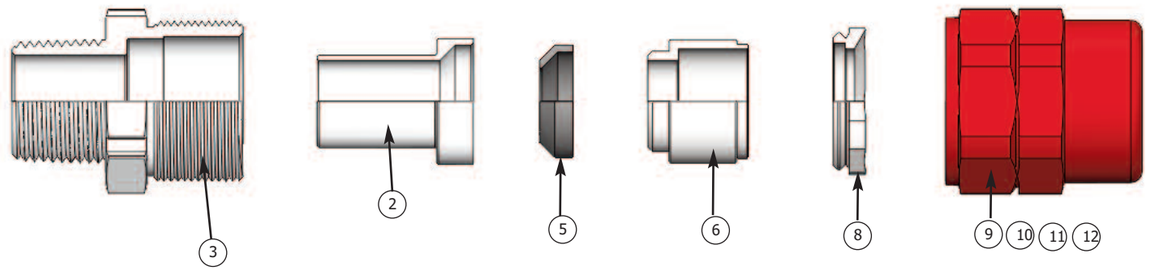
CABLE CONNECTOR COMPONENTS

1. Compound
2. Compound Tube
3. Entry Item
4. Sealant Tape or Inner Jacket
5. Resin Dam (Optional)
6. Tube Spacer
7. End Stop
8. Spacer Nut
9. Grounding Spring
10. Angled Spacer
11. Jacket Seal
12. Outer Nut



PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION

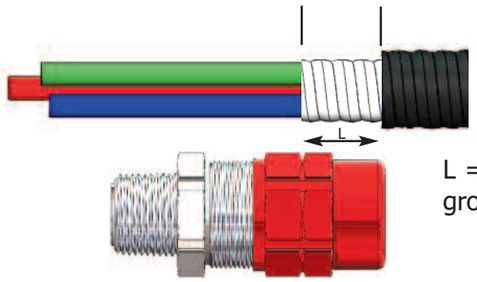
1. Disasemble the connector by unscrewing the entry item (3) from the rest of the connector and then unscrewing the spacer nut (8) from the entry component.



Remove and discard the resin dam (5). (This part is only needed when the connector is used with the RapidEx resin system.)

2. Strip back the jacket and armour to suit the equipment. Using the armor measure guide, expose the armor further by stripping the cable jacket to distance "L".

<u>NOTE:</u> When the outer jacket is at its maximum, distance "L" may have to be increased by up to 10%.



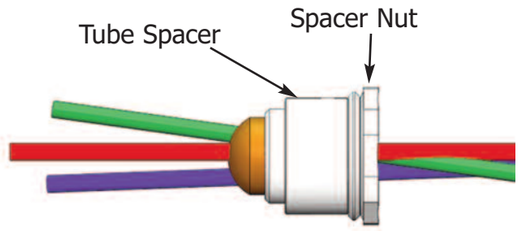
L = Distance from groove to rear of nut.

3. Slide the outer nut assembly (9,10,11,12) down the cable. Pass the space nut (8) and tube spacer (6) with nylon end stop (7) over the conductors until the end stop engages the end of the cable armour. (If the nylon end stop will not pass over the conductors, then it should be discarded as it is not needed.)

At this stage it should be possible to acces the tube spacer nut (8). If this is not possible, trim the outer jacket up to the "L" +10% until access is possible.

4. Wearing the protective gloves supplied, thoroughly mix the two-part compound until the colour is uniform. (The compound should not be mixed or applied at temperatures below 50°F/10°C.)

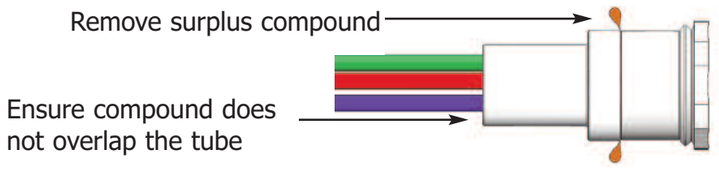
Seperate the cores of the conductor and pack the compound between and around the conductors as shown below:



5. Bring the cores together again and pack more compound around them to a length and diameter sufficient to fill the compound tube, ending in a taper.

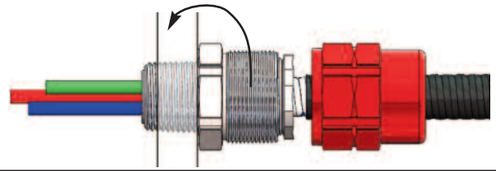
Note: For instrumentation cable utilising shielded cable or industrial / overall drain wires see installation guidance notes on the back page.

6. Pass the compound tube (2) over the conductors until the stepped end is fully located with the tube spacer (6). Pack more compound into place until the compound tube is fully filled.



7. Reinstall the cable assembly into the Entry Item (3) and tighten the Spacer Nut (8), finger-tight. Leave for the compound to cure.

8. Once the compound has cured, loosen the Tube Spacer Nut from the Entry Component. Screw the Entry Component into the enclosure. Retighten the Tube Spacer Nut when the entry component is fully tightened into the enclosure.



9. Finally, holding the cable central in the gland, tighten the Outer Nut to compress the Grounding Spring to secure the armor and the seal to engage the cable jacket. Do not over tighten the Outer Nut. The Entry Component and Outer Nut do not have to close face to face.