



Certificate of Compliance

Certificate: 2194053

Master Contract: 184585

Project: 80107198

Date Issued: 2023-06-08

Issued To: CMP Products Ltd
Glasshouse St.
St. Peters
Newcastle Upon Tyne, Tyne and Wear, NE6 1BS
United Kingdom

Attention: Jonathan Hichens

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: *Thong Tong*
Thong Tong

PRODUCTS

CLASS – 4418 05 - CABLE Hardware - For Hazardous Locations

CLASS – 4418 85 - CABLE-Hardware For Hazardous Locations-Certified to U.S. Standards

CLASS 4418 05 - CABLE - Hardware - For Hazardous Locations

Class I, Division 2, Groups A, B, C and D; Class II, Division 1 and 2, Groups E, F, and G;

Class III, Division 1 and 2; Encl. Type 4X.

Ex e IIC; Ex ta IIIC; IP66

Cable gland connectors, “Series TMC2”, for jacketed TECK type cables or corrugated metal-clad with aluminum, copper or galvanized interlocked steel armour, Series Cat No TMC2 -050S, -050, -075, -100, -125S, -125, -150S, -150, -200S, -200, -250, 300, -350 and -400 followed by the material suffix A



Certificate: 2194053
Project: 80107198

Master Contract: 184585
Date Issued: 2023-06-08

(aluminum) NB (Nickel Plated brass) SS (Stainless steel), zinc plated MS (Mild Steel) trade sizes ½ in NPT through 4 in NPT and M20 through M115. Ambient temperature: $-60^{\circ}\text{C} \leq T_a \leq 110^{\circ}\text{C}$.

**Class I, Division 1 and 2, Groups A, B, C and D; Class II, Division 1 and 2, Groups E, F, and G;
Class III, Division 1 and 2; Encl. Type 4X.
Ex d IIC; Ex e IIC; Ex ta IIIC; IP66**

Cable gland connectors, “Series TMC2X”, integrally sealed (SL) for jacketed interlocked TECK type cables or corrugated HL-MC (metal-clad) with aluminum, copper or galvanized steel armour, Series Cat No TMCX -050S, -050, -075, -100, -125S, -125, -150S, -150, -200S, -200, -250, -300, -350 and -400 followed by the material suffix A (aluminum) NB (Nickel Plated brass) SS (Stainless steel), zinc plated MS (Mild Steel) trade sizes ½ in NPT through 4 in NPT and M20 through M115, for use with manufacturer’s Type EP2122 or RapidEx sealing compound. Ambient temperature: $-60^{\circ}\text{C} \leq T_a \leq 85^{\circ}\text{C}$.

Notes:

1. Cable gland connector material may be of brass, aluminum, zinc plated mild steel or stainless steel.
2. Cable glands are to be installed as per the wiring methods in Canadian Electrical Code, Part I.

CLASS 4418 85 - CABLE - Hardware - For Hazardous Locations – US Requirements

**Class II, Division 1 and 2, Groups E, F, and G; Class III, Division 1 and 2; Encl. Type 4X
Class I, Zone 1, AEx e IIC AEx ta IIIC; IP66**

Cable gland connectors, “Series TMC2”, for jacketed TECK type cables or corrugated metal-clad with aluminum, copper or galvanized interlocked steel armour, Series Cat No TMC2 -050S, -050, -075, -100, -125S, -125, -150S, -150, -200S, -200, -250, -300, -350 and -400 followed by the material suffix A (aluminum) NB (Nickel Plated brass) SS (Stainless steel), zinc plated MS (Mild Steel) trade sizes ½ in NPT through 4 in NPT and M20 through M115. Ambient temperature: $-60^{\circ}\text{C} \leq T_a \leq 110^{\circ}\text{C}$.

**Class I, Division 1 and 2, Groups A, B, C and D; Class II, Division 1 and 2, Groups E, F, and G; Class III, Division 1 and 2; Encl. Type 4X.
Class I, Zone 1, AEx d IIC; AEx e II; AEx ta IIIC; IP66**

Cable gland connectors, “Series TMC2X”, integrally sealed (SL) for jacketed interlocked TECK type cables or corrugated HL-MC (metal-clad) with aluminum, copper or galvanized steel armour, Series Cat No TMCX -050S, -050, -075, -100, -125S, -125, -150S, -150, -200S, -200, -250, 300, -350 and -400 followed by the material suffix A (aluminum) NB (Nickel Plated brass) SS (Stainless steel), zinc plated MS (Mild Steel) trade sizes ½ in NPT through 4 in NPT and M20 through M115, for use with manufacturer’s Type EP2122 or RapidEx sealing compound. Ambient temperature: $-60^{\circ}\text{C} \leq T_a \leq 85^{\circ}\text{C}$.

Notes:

1. Cable gland connector material may be of brass, aluminum, zinc plated mild steel or stainless steel.



Certificate: 2194053
Project: 80107198

Master Contract: 184585
Date Issued: 2023-06-08

2. US (NEC - National Electrical Code) wiring method only allows HL-MC type of cable for use in CLASS I, II, III, Division 1 Classified Areas.
3. US (NEC - National Electrical Code) wiring method only allows HL-MC type of cable for use in Class I, Zone 1, Ex d/e Classified Areas and according to 60079-14 installation wiring method restrictions.

Conditions of Acceptability:

1. The glands shall only be fitted to enclosures where the temperature, at the point of mounting is below:
 - TMC2 Glands: 110°C
 - TMC2X glands: 85°C
2. The cable shall be effectively clamped as close as possible to the gland.
3. 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.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 18.3-12(R2022)	Conduit, Tubing, and cable fittings
C22.2 No. 25-17	Enclosures for Use in Class II, Groups E, F and G Hazardous Locations
C22.2 No 30-M1986	Explosion Proof Enclosure for use in Class I Hazardous Locations
C22.2 No.174-18	Cables and Cable Glands for Use in Hazardous Locations
CSA C22.2 No. 94.2:20, 3 rd Ed.	Enclosures For Electrical Equipment, Environmental Considerations
ANSI/UL 2225 Edition 4	Cables and Cable Fittings for Use in Hazardous (Classified) Locations.
ANSI/UL 50E-2020 Third Edition	Enclosures For Electrical Equipment, Environmental Considerations
ANSI/UL 514B Edition 6	Conduit, Tubing, and Cable Fittings
CAN/CSA-C22.2 No.60079-0:07	Electrical Apparatus for Explosive Gas Atmospheres – Part 0 - General Requirements
CAN/CSA-C22.2 No.60079-1:07	Electrical Apparatus for Explosive Gas Atmospheres – Part 1 – Flameproof Enclosures “d”
CAN/CSA-C22.2 No.60079-7:07	Electrical Apparatus for Explosive Gas Atmospheres – Part 7 - Increase Safety “e”
CAN/CSA-C22.2 No. 60079-31:15 (R2020)	Explosive Atmospheres – Part 31 – Equipment Dust Ignition Protection By Enclosure “t”
UL 60079-0: 2005 4 th Edition	Electrical Apparatus for Explosive Gas Atmospheres – Part 0 - General Requirements
UL 60079-1:2004 5 th Edition	Electrical Apparatus for Explosive Gas Atmospheres – Part 1 – Flameproof Enclosures “d”
UL 60079-7:2007 2 nd Edition	Electrical Apparatus for Explosive Gas Atmospheres – Part 7 - Increase Safety “e”
UL 60079-31:2015 2 nd Edition	Explosive Atmospheres – Part 31 – Equipment Dust Ignition Protection by Enclosure “t”



Certificate: 2194053
Project: 80107198

Master Contract: 184585
Date Issued: 2023-06-08

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Permanently Die Stamped on each Body of the Gland:

- Manufacturer name or trademark
- Catalogue number designation
- Hazardous Location designation
- Trade size
- Type
- The letters "SL" (for integrally sealed gland)
- Enclosure Type 4X
- Certificate Number: CSA 09.2194053 (Applicable for Ex d and Ex e Marking).
- CSA Monogram with c us indicators

Note: Installation instruction sheet provided in each packaged unit.

Note:

Products certified under Class 4418 05 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





Supplement to Certificate of Compliance

Certificate: 2194053

Master Contract: 184585

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
80107198	2023-06-08	Update of cCSAus report 2194053 for addition of zinc plated Mild Steel as alternate construction material for both TMC2 and TMC2X series of cable glands and addition of metal-clad armour of copper material cables. This project includes update to latest edition of C22.2 No. 174, C22.2 No. 25, replacement of withdrawn standards CSA C22.2 No. 94-M91 with CSA C22.2 No. 94.2-20. and CSA E61241-1-1 has been withdrawn and superseded by CAN/CSA-C22.2 No. 60079-31:15.
70134581	2017-08-03	Update Drawing Report 2194053 TMC2 and TMC2X Series cable gland connectors.
2418387	2011-07-28	Update of report 2194053 to include Type EP2122 and RapidEx sealing compound.
2194053	2010-02-02	CSAc-us Certification of Cable Glands Series Cat. No. TMC2, TMC2X for use in Cl.I, II, III, Div.1/2; AEx d/Exd IIC; based on SIRA Reciprocal agreement.