Certificate of Compliance

Certificate: 2220601 **Master Contract:** 184585 (101909_0_000)

Project: 70158230 **Date Issued:** 2017-11-07

Issued to: **CMP Products Ltd**
Glasshouse St.
St. Peters
Newcastle Upon Tyne, NE6 1BS
UNITED KINGDOM
Attention: Dave Willcock

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: Siros Ghanbar-zadeh
Siros Ghanbarzadeh

PRODUCTS

CLASS - C441805 - CABLE-Hardware - For Hazardous Locations
CLASS - C441885 - 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 2, Groups E, F, and G; Class III, Division 2; Enclosure. Type 4X.

Ex e; Class I, Zone 1, AEx e:

- Cable gland connectors, Series TC and TCCG, for use with Tray Cables or flexible cord cables, Series Cat No TC or TCCG followed by -050 (size 20S and 20); -075 (size 25); -100 (size 32); -125 (size 40); -150 (size 50S); -200 (size 50); -250 (size 63S); -200 (size 63); -250 (size 75S); -300 (size 75); -350 (size 90); -400 (size 100), followed by the material suffix A (aluminum), NB (Nickel Plated brass), SS (Stainless steel), followed by the max jacket size; trade sizes 1/2 in NPT through 4 in NPT and M20S through M100 (ISO Metric threads).

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

Class II, Division 2, Groups E, F, and G; Class III, Division 2; Enclosure. Type 4X.
Ex e; Class I, Zone 1, AEx e:

Cable gland connectors, Series TC and TCCG, for use with Tray Cables or flexible cord cables, Series Cat No TC or TCCG followed by -050 (size 20S and 20); -075 (size 25); -100 (size 32); -125 (size 40); -150 (size 50S); -200 (size 50); -250 (size 63S); -200 (size 63); -250 (size 75S); -300 (size 75); -350 (size 90); -400 (size 100), followed by the material suffix A (aluminum), NB (Nickel Plated brass), SS (Stainless steel), followed by the max jacket size; trade sizes 1/2 in NPT through 4 in NPT and M20S through M100 (ISO Metric threads).

Notes:

1. Cable Glands material may be of brass, aluminum or stainless steel.

2. Under CEC Code Cable Glands with metric entry threads are only suitable for Areas Classified in ZONES unless fitted with an approved Metric to NPT thread conversion adaptor**.** Under NEC Code, cable glands with metric threads can be used in divisions with the following restrictions: Glands must have a minimum of 8 full metric threads for use in Groups A, B, C and D or five full threads for use in Groups E, F and G

3. TC Cable Glands will be restricted to Hazardous Location Areas stated under the NEC/CEC Part I, Installation Code under WIRING METHOD.

4. Gland Size 20S are for use with UL approved tray cable only.

5. “Tray Cable” in the report could be read as TC , TC-ER, TC-ER-HL (tray cable)

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No 0-M91	General Requirements
CAN/CSA-C22.2 No 18.3-04	Outlet Boxes, Conduit Boxes, and Fittings
CAN/CSA-C22.2 No.174-M1984	Cables and Cable Glands for Use in Hazardous Locations
CAN/CSA-C22.2 No.94-M91	Special Purpose Enclosures
CAN/CSA-E60079-0:2007	Electrical Apparatus for explosive gas atmospheres Part 0 – General Requirements
CAN/CSA-E60079-7:2007	Electrical Apparatus for explosive gas atmospheres Part 7 – Increase Safety
CAN/CSA-E61241-1-1	Electrical Apparatus for use in the presence of combustible dust- Part 1-1
ANSI/UL 514B Edition 5	Conduit, Tubing and Cable Fittings
ANSI/UL 50 Edition 11	Enclosures for Electrical Equipment
ANSI/UL 60079-0: 2007	Electrical Apparatus for explosive gas atmospheres Part 0 – General Requirements
ANSI/UL 60079-7: 2007	Electrical Apparatus for explosive gas atmospheres Part 7 – Increase Safety

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.

Permanently Die Stamped, etched or rolled stamped on each Body of the Gland:

- Manufacturer name or trade mark
- Catalogue number designation
- Hazardous Location designation (may be optionally marked with the addition of Class I, Zone 2, Groups IIC, IIB, IIA.
- Type
- Trade size
- Enclosure Type 4X
- CSA Monogram
-CSA09.2220601X (Cable Glands marked with Ex e/AEx e)

Note: Installation instructions sheet provided in each packaged unit (Refer to Fig 1 for details).

Supplement to Certificate of Compliance

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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
70158230	2017-11-08	Update Report 2220601, As per Certification Notice No. 27; Class I, Division. 2, Groups A, B, C and D; were removed for CLASS 4418 85 - CABLE - Hardware - For Hazardous Locations – US Requirements.
2708743	2014-05-14	Update to change general description of tray cable to TC (tray cable) and TC-ER and TC-ER-HL cables.
2380434	2010-12-24	Update of Report 2220601 to include an alternate cable gland body, designated as Series TCCG.
2325513	2010-11-23	Update to report 2220601 to include flexible cord cables.
2220601	2010-02-04	cCSAus Certification of TC Series Cable Glands Per Assessment Test Report No. R51L17464A and R51L176461A submitted by SIRA.