



# Certificate of Compliance

**Certificate:** 2536624 (011716\_C\_000)

**Master Contract:** 151933

**Project:** 70159218

**Date Issued:** 2017-10-12

**Issued to:** Killark Electric Manufacturing Co.  
3940 Dr. Martin Luther King Dr.  
St. Louis, Missouri 63113  
USA

**Attention:** Thomas Michalski

*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:** *Domenic  
Somma*  
Domenic Somma

## PRODUCTS

### **CLASS - C441805 - CABLE-Hardware - For Hazardous Locations**

**Class I, Division 1, Groups A, B, C, and D; Class II, Division 1, Groups E, F and G; Class III, IP66 CSA Types 3, 4 and 4X**

Integrally Sealed Straight, 45° and 90° Cable Glands MCX1B, MCX1C, MCX14C, MCX19C, MCX2, MCX24, MCX29, MCX3, MCX4. Trade Sizes 1/2" through 1-1/4" for use with certified cables, jacketed with corrugated or interlock metal armor types TECK 90/HL, RA-90/HL, AC-90/HL or ACWU-90/HL cables.

Note: The glands are also for use with certified cables, jacketed with corrugated or interlock metal armor types TECK 90, RA-90, AC-90 or ACWU-90 cables when these cables are allowed per the CEC wiring method.

Integrally Sealed Straight, 45° and 90° Cable Glands TCX1B, TCX1C, TCX14C, TCX19C, TCX2, TCX24, TCX29, TCX3 & TCX4. Trade Sizes 1/2" through 1-1/4" for use with certified cables TC-ER-HL.

Note: The glands are also for use with certified cables, TC, TC-ER, PLTC, PLTC-ER, ITC, ITC-ER, MV and Marine Shipboard Cable.



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**Class I, Division 1, Groups A, B, C, and D; Class II, Division 1, Groups E, F and G; Class III, IP66, IPX8 6ft. 1hr CSA Types 3, 4, 4X and 6.**

Integrally Sealed Straight Cable Glands MCX5, MCX6, MCX7, MCX8, MCX9 and MCX0. Trade Sizes 1/2" through 4" for use with certified cables, jacketed with corrugated or interlock metal armor types TECK 90/HL, RA-90/HL, AC-90/HL or ACWU-90/HL cables.

Note: The glands are also for use with certified cables, jacketed with corrugated or interlock metal armor types TECK 90, RA-90, AC-90 or ACWU-90 cables when these cables are allowed per the CEC wiring method.

**Class I, II, III; Class II, Division 1, Groups E, F and G, IP66, CSA Types 3, 4 and 4X**

Cable Glands Straight, 45° and 90° Series Types MC1B, MC1C, MC14C, MC19C, MC2, MC24, MC29, MC3, MC4. Trade Sizes 1/2" through 4" for use with certified cables, jacketed with corrugated or interlock metal armor types TECK 90/HL, RA-90/HL, AC-90/HL or ACWU-90/HL cables.

Note: The glands are also for use with certified cables, jacketed with corrugated or interlock metal armor types TECK 90, RA-90, AC-90 or ACWU-90 cables when these cables are allowed per the CEC wiring method.

**Class I, II, III; Class II, Division 1, Groups E, F and G, IP66, IPX8 6ft 1hr, CSA Types 3, 4, 4X and 6**

Cable Glands Straight Series Types MC5, MC6, MC7, MC8, MC9 and MC0. Trade Sizes 1-1/2" through 4" for use with certified cables, jacketed with corrugated or interlock metal armor types TECK 90/HL, RA-90/HL, AC-90/HL or ACWU-90/HL cables.

Note: The glands are also for use with certified cables, jacketed with corrugated or interlock metal armor types TECK 90, RA-90, AC-90 or ACWU-90 cables when these cables are allowed per the CEC wiring method.

**CLASS - C441885 - CABLE-Hardware-For Hazardous Locations-Certified to U.S. Standards**

**Class I, Division 1, Groups A, B, C, and D; Class II, Division 1, Groups E, F and G; Class III, CL I Zone 1 GR. IIC Zone 20 Types 3, 4 and 4X**

Integrally Sealed Straight, 45° and 90° Cable Glands MCX1B, MCX1C, MCX14C, MCX19C, MCX2, MCX24, MCX29, MCX3, MCX4 Trade Sizes 1/2" through 4" for use with certified cables, jacketed with corrugated or interlock metal armor types MC-HL or ITC-HL cables.

Note: The glands are also for use with certified cables, jacketed with corrugated or interlock metal armor types MCI, MCI-A, MCC, ACG, or MC cables when these cables are allowed per the NEC wiring method.

Integrally Sealed Straight, 45° and 90° Cable Glands TCX1B, TCX1C, TCX14C, TCX19C, TCX2, TCX24, TCX29, TCX3 & TCX4. Trade Sizes 1/2" through 1-1/4" for use with certified cables TC-ER-HL.

Note: The glands are also for use with certified cables, TC, TC-ER, PLTC, PLTC-ER, ITC, ITC-ER, MV and Marine Shipboard Cable.



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**Class I, Division 1, Groups A, B, C, and D; Class II, Division 1, Groups E, F and G; Class III, CL. I Zone 1 GR. IIC, Zone 20, IP66, IPX8 6ft. 1hr, CSA Types 3, 4, 4X and 6**

Integrally Sealed Straight Cable Glands MCX5, MCX6, MCX7, MCX8, MCX9 and MCX0. Trade Sizes 1-1/2" through 4" for use with certified cables, jacketed with corrugated or interlock metal armor types MC-HL or ITC-HL cables.

Note: The glands are also for use with certified cables, jacketed with corrugated or interlock metal armor types MCI, MCI-A, MCC, ACG, or MC cables when these cables are allowed per the NEC wiring method.

Note: The glands are also for use with certified cables, TC, TC-ER, PLTC, PLTC-ER, ITC, ITC-ER, MV and Marine Shipboard Cable.

**Class II, Division 1, Groups E, F and G; Class III, Zone 20, IP66, CSA Types 3, 4 and 4X**

Cable Glands Straight, 45° and 90° Series Types MC1B, MC1C, MC14C, MC19C, MC2, MC24, MC29, MC3, MC4, Trade Sizes 1/2" through 1-1/4" for use with certified cables, jacketed with corrugated or interlock metal armor types ITC-HL, MC-HL cables.

Note: The glands are also for use with certified cables, jacketed with corrugated or interlock metal armor types MCI, MCI-A, MCC, ACG, or MC cables when these cables are allowed per the NEC wiring method.

**Class II, Division 1, Groups E, F and G; Class III, Zone 20, IP66, IPX8 6ft 1hr, CSA Types 3, 4, 4X and 6**

Cable Glands Straight, MC5, MC6, MC7, MC8, MC9 and MC0. Trade Sizes 1-1/2" through 4" for use with certified cables, jacketed with corrugated or interlock metal armor types ITC-HL, MC-HL cables.

Note: The glands are also for use with certified cables, jacketed with corrugated or interlock metal armor types MCI, MCI-A, MCC, ACG, or MC cables when these cables are allowed per the NEC wiring method.

**APPLICABLE REQUIREMENTS**

- |   |   |
|---|---|
| CAN/CSA-C22.2 No 0-10<br>(Reaffirmed 2015)      | - General Requirements - Canadian Electrical Code, Part II              |
| CAN/CSA-C22.2 No 18.3-12                        | - Conduit, Tubing and Cable Fittings                                    |
| CAN/CSA-C22.2 No 25-1966<br>(Reaffirmed 2014)   | - Enclosures for Use in Class II, Groups E, F and G Hazardous Locations |
| CAN/CSA-C22.2 No 30-M1986<br>(Reaffirmed 2012)  | - Explosion-Proof Enclosures for Use in Class I Hazardous               |
| CAN/CSA-C22.2 No 174-M1984<br>(Reaffirmed 2012) | - Cables and Cable Glands for Use in Hazardous Locations                |
| CAN/CSA-C22.2 No. 94.2-07                       | - Enclosures for Electrical Equipment, Environmental Considerations     |
| ANSI/UL Standard 514 B-2014                     | - Fittings For Conduit and Outlet Boxes                                 |
| ANSI/UL Standard 2225-2013                      | - Cables and Cable-Fittings for Use In Hazardous (Classified) Locations |
| ANSI/UL Standard 50E – 2012                     | - Enclosures for Electrical Equipment, Environmental Considerations     |



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## **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.

### **Nameplate adhesive label material approval information:**

Markings shall be one of the following types. Embossed, cast, etched, molded, die stamped, paint stenciled, indelibly stamped on a pressure sensitive label secured by adhesive and complying with CSA C22.2 No. 0.15 or UL 969, or a metal nameplate that is permanently attached to the fitting by means of drive screws or pins.

The following markings must appear on the product:

- Company name, company logo, company trademark, or CSA file number.
- Catalogue number or equivalent designation.
- Thread Size
- Hazardous locations designation.

For the MCX series trade sizes; 1/2" through 4"

- Class I, Div. 1 Gr. A,B,C,D, Class II, Div. 1 Gr. E,F,G, Class III, may be optionally marked with Class I, Zone 1, Group IIC, (Zone 20 – US Only) SL

For the MC series:

- Class II, Div. 1 Gr. E,F,G, Class III, (may optionally marked with Zone 20 – US Only)

The following markings must appear on the product unless there is not enough room to legibly apply the markings to the product. Then the following markings may be applied to the smallest unit of package in lieu of applying the markings to the product.

- CSA Mark with the c us indicator;  
IP66, Type 3, 4 and 4X for trade sizes 1/2" through 4" and IP66, IPX8 6ft 1hr for trade sizes 1-1/2" through 4" for the smallest and largest cable diameter for which the fitting is intended to be used.

### **The following markings are applied only to the carton label.**

- Wet Locations



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- The type of cable and range of cable diameters for which the fitting is intended to be used. The cable type markings are as follows:

"Metal-Clad Interlocking Armor Cable Type" or "MCI"  
"Metal-Clad Interlocking Armor Ground Cable Type" or "MCI-A"  
"Metal-Clad Continuous Corrugated Sheath Armor Cable Type" or "MCC"  
"ACG" for cable Types ACG90 and ACGWU90

Optional markings may include the following:

Approved cables:

- MC-HL
- RA90
- RA90-HL
- AC90
- AC90-HL
- ACWU90
- ACWU90-HL
- TECK90
- TECK90-HL

Ambient temperatures: -50 +60°C

From UL 2225 37.15 each fitting or each package of sealing compound shall be provided with instructions containing the following information:

- a) Preparation of dams, if required.
- b) The installation instructions shall specify the maximum diameter over conductors of the cable that the entry is intended to accept and the maximum numbers of conductors that can pass through the compound.
- c) Filling or assembly instructions.
- d) A statement including the following:
  - 1) Specific temperature below which the seal should not be formed.
  - 2) Period of time the fitting must be at, or above, the given temperature in order that the seal will set properly.



## *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**

<b>Project</b>	<b>Date</b>	<b>Description</b>
70159218	2017-10-12	Update to Certificate Report 2536624 to add Type 4X to Series MC/MCX cable glands.
70133614	2017-08-28	Update to Certificate 2536624 to expand Cable Gland Series MCX/MC trade size 1/2 up to 4 inches, for use in Class I, Groups A, B, C and D; Class II, Groups E, F and G; Class III; Types 3 and 4.
70029520	2015-07-23	New Addition of Cable Glands-Report 2536624
2536624	2013-01-31	Certification of MC Series Non Barrier gland for CI I, II, III Div. 1 & 2 Grps. ABCDEFG Type 4 and MCX Series Barrier Gland for CI I II III, Div. 1 Grps. ABCDEFG Type 4