





**Certificate:** 70010389

**Master Contract:** 182407

**Project:** 80267836

**Date Issued:** 2025-10-02

Type HSK-K-Flaka-Ex-Active 1.582.****.***, and Type HSK-K-Flaka-Ex-Active 1.582.****.**	-20 to +85	IP 68 (At 10 bar)
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Notes:

1. Cable glands sizes M12, M16 and NPT 3/8" to be protected by the enclosure against mechanical impact energy levels higher than 4 Joule.
2. The cable glands are with O-ring sealing made of NBR, additionally they can be used with FKM or VMQ sealing.
3. The classification of the temperatures to the Temperature Code of the bushing is to be determined in the type test of the respective electrical equipment.
4. Suitability of end use installation to be determined by certification body or Local Authority having Jurisdiction

**Polyamide Cable Glands**

Model(s)	Operating Temp. Range (°C)	Ingress Protection Code
Models HSK-K-Ex-ACTIVE	-20 to +85	IP 68 (At 10 bar)

Notes:

1. Cable glands sizes M12, M16 and NPT 3/8" to be protected by the enclosure against mechanical impact energy levels higher than 4 Joule.
2. The classification of the temperatures to the Temperature Code of the bushing is to be determined in the type test of the respective electrical equipment.
3. Suitability of end use installation to be determined by certification body or Local Authority having Jurisdiction

**APPLICABLE REQUIREMENTS**

CSA C22.2 No. 25-1966(R2004) - Enclosures for Use in Class II Groups E, F, and G Hazardous Locations - General Instruction No 1

CSA C22.2 No. 174-M1984 - Second Edition - Cables and Cable Glands for Use in Hazardous Locations - General Instruction No. 1: June 1984; General Instruction No. 2: February 1985; General Instruction No. 3: December 1987; General Instruction No. 4: February 1988; General Instruction No. 5: September 1989

CAN/CSA C22.2 No. 60079-0:11 - Second Edition - Explosive atmospheres — Part 0: Equipment — General requirements

CAN/CSA-C22.2 No. 60079-7:12 - First Edition - Explosive atmospheres - Part 7: Equipment protection by increased safety 'e'

CSA C22.2 No. 60079-31:15 - Second Edition - Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

CSA C22.2 NO. 18.3:12 - Conduit, tubing, and cable fittings - Second Edition; Incorporating Update No. 1: November 2014; Update No. 2: May 2020; Update No. 3: March 2024

C22.2 NO. 18-92 - Outlet Boxes, Conduit Boxes, and Fittings



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UL 2225:2005 - Second Edition - UL Standard for Safety Cables and Cable-Fittings For Use In Hazardous (Classified) Locations

ANSI/UL 514B (Fifth Edition) - UL Standard for Safety Conduit, Tubing, and Cable Fittings

UL 60079-31:2015 - Second Edition - Standard for Safety Explosive Atmospheres – Part 31: Equipment Dust Ignition Protection by Enclosure “t”

### **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.

he 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.

In addition to the markings for the ordinary locations:

- submittor's identification;
  - model designation or equivalent;
  - applicable hazardous locations ratings.
  - cautions, warnings and additional markings as may be required by the applicable Standards;
  - CSA Monogram with C/US Indicator, provided on the packaging.
  - Reference to certification number (CSA 15. 70010389X), provided on the packaging.
  - Class I, Zone 1, Ex/AEx e IIC, provided on the packaging.
  - Class II, Zone 1, Ex/AEx ta IIIC Da
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- Cable glands do not have to be marked with the serial number and the temperature class. The complete address is only stated on the packaging and in the instructions.
  - The complete address is only stated on the packaging and in the instructions.
  - The IP marking is only stated on the packaging and in the instructions.
  - The instructions refer to the special requirements of the installation instructions
  - Special conditions are mentioned in the installation sheet.
  - Installation sheet and assembly instruction are attached in every packaging unit.

### **Conditions Of Acceptability**

1. The cable glands are intended for use external connections for enclosures installed in Zone 1/Div 2 hazardous locations.



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2. Cable glands require additional evaluation and testing in the end product to verify compliance to CSA Certification requirements.
3. Conductors shall not be subjected to a pull force of more than 71bf (31N).
4. The ambient temperature range of electrical equipment is usually limited. The maximum ambient temperature permitted for these cable glands may in use be utilized up to permitted service temperature.
5. The test of the clamping connection (tensile tests) was done applying 25% of the values required by A3 of IEC/CSA/UL 60079-0. The user shall ensure adequate clamping of the cable. Therefore, a X-marking is provided and special conditions are called.
6. The cable glands sizes M12, M16 and NPT 3/8" are tested for low risk of mechanical danger (drop height 0.4 m with 1 kg mass) and shall be protected against higher impact energy levels.



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Notes:

Products certified under Class(es) C441805, C441885 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). [www.scc.ca](http://www.scc.ca)

