

## **EPR/CTS/PVC Power, Type MV-105, 8kV 133%**

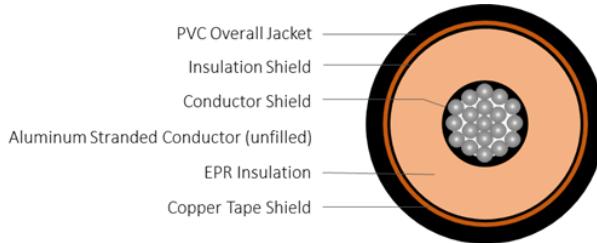
### **Single Conductor Un-Filled Aluminum - Silicone Free**

#### **DESCRIPTION**

The Medium Voltage, EPR/Cu Tape Shield/PVC, Type MV-105 Cables that consist of an aluminum un-filled conductor, covered with ethylene propylene rubber (EPR), copper taped shield (CTS) and a polyvinyl chloride (PVC) jacket. These cables are used in industrial power circuits.

#### **APPLICATIONS**

- Primary installations include cable tray, outdoor locations, in conduit, duct, free air, and raceways.
- Direct buried if installed in a system with a ground conductors that is in close proximity and conforms with NEC 250.4 (A)(5).
- In wet or dry locations. Rated 105°C wet or dry.
- Approved for Class I, Div. 2 industrial hazardous locations per NEC.
- Excellent sunlight resistance.
- For CT use for 1/0AWG and larger, per UL 1072.
- Designed to operate continuously at a conductor temperature not exceeding
  - » 105°C for normal operations
  - » 140°C for emergency overload
  - » 250°C for short circuit



**SERIES G8KBEP**

#### **CONSTRUCTION**

|                          |   |
|--------------------------|---|
| <b>CONDUCTOR</b>         | Aluminum 8000 (unfilled)<br>Class B compressed strand   |
| <b>STRAND SHIELD</b>     | Extruded thermoset semi-conducting polymer over the conductor   |
| <b>INSULATION</b>        | Ethylene propylene rubber (EPR)   |
| <b>INSULATION SHIELD</b> | Extruded thermoset semi-conducting polymer over the insulation  |
| <b>SHIELD</b>            | 5 mil annealed copper tape helically applied with approximately 25% overlap   |
| <b>JACKET</b>            | Black Polyvinyl Chloride (PVC)  |
| <b>JACKET MARKING</b>    | 00000 FT LS CABLE XXXCMIL (or AWG) AL 1/C 8KV 133%<br>INSUL LEVEL 140 MILS EPR/PVC JKT<br>MV-105 FOR CT USE (UL) SUN RES<br>MADE IN USA MM/DD/YYYY<br>(LIGHTNING BOLT SYMBOL) |
| <b>PACKING</b>           | Non-returnable wood reels   |

#### **STANDARDS (Compliance)**

|                    |   |
|--------------------|---|
| <b>CONDUCTOR</b>   | AEIC CS8<br>ASTM B800<br>ASTM B801                          |
| <b>PERFORMANCE</b> | ICEA S-93-639/ NEMA WC74<br>ICEA S-97-682<br>UL 1072<br>NEC |
| <b>OTHER</b>       | EPA 40 CFR, Part 261<br>OSHA                                |

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| Part Number           | Conductor Size (AWG/kcmil) | Conductor Diameter (in) | Insulation Diameter (in) | Jacket Thickness (in) | Approx. O.D (in) | Approx. Weight (lbs/kft) |
|-----------------------|----------------------------|-------------------------|--------------------------|-----------------------|------------------|--------------------------|
| G8KBEP-50EB-1CZ-T5Z-Z | 500                        | 0.789                   | 1.15                     | 0.075                 | 1.39             | 1,070                    |

The dimensions and weights shown are approximate and subject to industry standards. Other designs available upon request.