

## EPR/CTS/PVC Power, Type MV-105, 35kV 133%

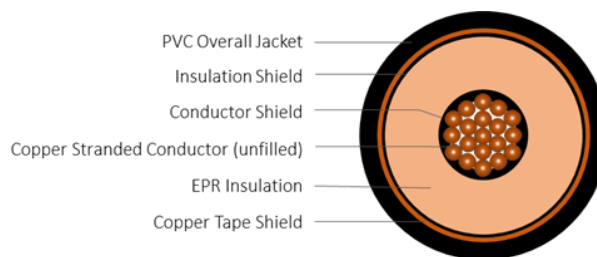
### Single Conductor Un-Filled Copper - Silicone Free

#### DESCRIPTION

The Medium Voltage, EPR/Cu Tape Shield/PVC, Type MV-105 Cables that consist of a copper 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 G35BEP**

#### CONSTRUCTION

|                          |                                                                                                                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CONDUCTOR</b>         | Fully annealed bare Copper (unfilled)<br>Class B Compact 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 XXXXCMIL (or<br>AWG) CMPCT CU 1/C 35KV 133%<br>INSUL LEVEL 420 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>PERFORMANCE</b> | AEIC CS8<br>ASTM B3<br>ASTM B496<br>ICEA S-93-639<br>ICEA S-97-682<br>UL 1072<br>NEC |
| <b>OTHER</b>       | EPA 40 CFR, Part 261<br>OSHA                                                         |

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| SPECIFICATIONS        |                            |                         |                          |                       |                  |                          |
|-----------------------|----------------------------|-------------------------|--------------------------|-----------------------|------------------|--------------------------|
| Part Number           | Conductor Size (AWG/kcmil) | Conductor Diameter (in) | Insulation Diameter (in) | Jacket Thickness (in) | Approx. O.D (in) | Approx. Weight (lbs/kft) |
| G35BEP-75CT-1CZ-T5Z-Z | 750kcmil                   | 0.908                   | 1.85                     | 0.105                 | 2.15             | 3,885                    |

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