

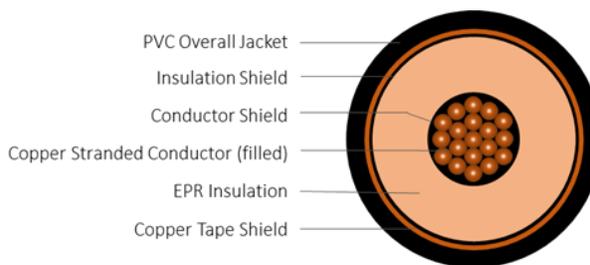
## EPR/CTS/PVC Power, Type MV-105, 35kV 133% Single Conductor Filled Copper - Silicone Free

### DESCRIPTION

The Medium Voltage, EPR/Cu Tape Shield/PVC, Type MV-105 Cables that consist of a copper 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 (filled) 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 AWG) FS CMPCT CU 1/C 35KV 133% INSUL LEVEL 420 MILS EPR/PVC JKT MV-105 FOR CT USE (UL) SUN RES MADE IN USA MM/DD/YYYY (LIGHTNING BOLT SYMBOL)
<b>PACKING</b>	Non-returnable wood reels

### STANDARDS (Compliance)

<b>PERFORMANCE</b>	AEIC CS8 ASTM B3 ASTM B496 ICEA S-93-639 ICEA S-97-682 ICEA T-31-610 UL 1072 NEC
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<b>OTHER</b>	EPA 40 CFR, Part 261 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-A1DT-1CZ-T5Z-Z	1000 <sup>1</sup>	1.060	2.00	0.105	2.31	4,885

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

<sup>1</sup>The number of strand wires meets the minimum requirement of ASTM B496.