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

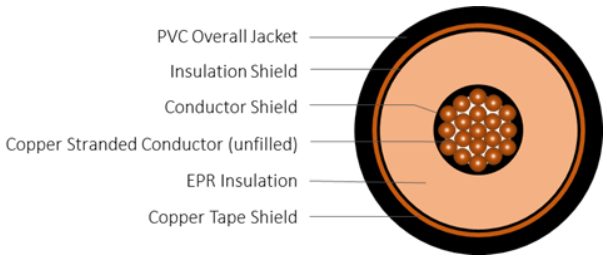
Single Conductor Un-Filled Copper - Silicone Free

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

CONDUCTOR	Fully annealed bare Copper (unfilled) Class B Compact Strand
STRAND SHIELD	Extruded thermoset semi-conducting polymer over the conductor
INSULATION	Ethylene propylene rubber (EPR)
INSULATION SHIELD	Extruded thermoset semi-conducting polymer over the insulation
SHIELD	5 mil annealed copper tape helically applied with approximately 25% overlap
JACKET	Black Polyvinyl Chloride (PVC)
JACKET MARKING	00000 FT LS CABLE XXXKCMIL (or AWG) 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)
PACKING	Non-returnable wood reels

STANDARDS (Compliance)

PERFORMANCE	AEIC CS8 ASTM B3 ASTM B496 ICEA S-93-639/NEMA WC74 ICEA S-97-682 UL 1072 NEC
OTHER	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-35CT-1CZ-T5Z-Z	350kcmil*	0.616	1.54	0.105	1.85	2,390
G35BEP-50CT-1CZ-T5Z-Z	500kcmil*	0.736	1.66	0.105	1.97	2,975
G35BEP-75CT-1CZ-T5Z-Z	750kcmil*	0.908	1.85	0.105	2.15	3,940

The dimensions and weights shown are approximate and subject to industry standards. Other designs available upon request.
*The number of strand wires meets the minimum requirement of ASTM B496.