# TR-XLPE/CTS/PVC Power, Type MV-105

## Series E8MUE Series (see specific dimensions below)

## 35KV; 345-mils; 100% Insulation

### DESCRIPTION

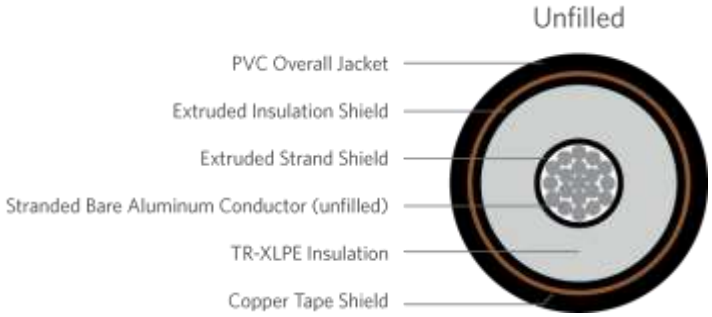
The Medium Voltage, TR-XLPE/Cu Tape Shield/PVC, Type MV-105 Cable consists of Aluminum stranded unfilled conductors, covered with cross-linked polyethylene (TR-XLPE), copper tape shield, and black PVC jacket. These cables are used in industrial power circuits.

### PRODUCT NAME

TR-XLPE/CTS/PVC Power, Type MV-105

### APPLICATION

- In conduit, duct, free air, raceways and direct burial, primary installations include cable trays, and outdoor locations.
- In direct burial if installed in a system with a ground that is in close proximity, and conforms with NEC 250.4 (A)(5)
- In wet or dry locations




### SPECIFICATIONS

| | |
|---|---|
| **Conductor** | Aluminum 1350 compressed lay stranded Class B- (unfilled) |
| **Insulation** | Cross-linked polyethylene (TR-XLPE); 345mils; 100% I.L. |
| **Shield** | 5mil - copper tape shield with 25% Overlap |
| **Jacket** | PVC |

| | |
|---|---|
| **Packaging** | Non-returnable reels |
| **Performance** | ASTM B-230 and B-231<br><br>UL 1072<br>ICEA S-93-639<br>ICEA S-97-682<br>AEIC CS8<br>IEEE 1202<br>NEC |
| **Other Compliances** | EPA 40 CFR, Part 261<br>OSHA |

### PART NUMBER AND PHYSICAL CHARACTERISTICS

| Part Number | Conductor Size Gauge (AWG/kcmil) | Cond Diameter (in.) | Insulation Diameter (in.) | Jacket Thickness (in.) | Overall Diameter (in.) | Net Weight lbs./MFT | Ampacity | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | In Air[4] | Duct[5] |
| E8MUE-1A3F01CA00 | 1/0 | .355 | 1.08 | .060 | 1.31 | 755 | 170 | 165 |
| E8MUE-4A3F01CA00 | 4/0 | .502 | 1.23 | .080 | 1.46 | 960 | 260 | 245 |
| E8MUE-A33F01CA00 | 350 | .648 | 1.38 | .080 | 1.61 | 1,205 | 350 | 330 |
| E8MUE-A63F01CA00 | 500 | .773 | 1.51 | .110 | 1.90 | 1,527 | 430 | 400 |
| E8MUE-B23F01CA00 | 750 | .949 | 1.69 | .110 | 1.98 | 1,919 | 540 | 490 |
| E8MUE-B53F01CA00 | 1000 | 1.10 | 1.84 | .110 | 2.13 | 2,266 | 640 | 565 |
| E8MUE-B83F01CA00 | 1250 | 1.22 | 1.98 | .110 | 2.27 | 2,614 | xx | xx |

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

[4]Ampacities are in accordance with NEC table 310.60(C)(74), for MV-105, 5001-35,000 Volts, for conduit in air.

[5]Ampacities are in accordance with NEC table 310.60(C)(78), for MV-105, 5001-35,000 Volts, for underground electrical duct, one circuit.

"xx"—NEC does not provide ampacities ratings for 1250 Aluminum