

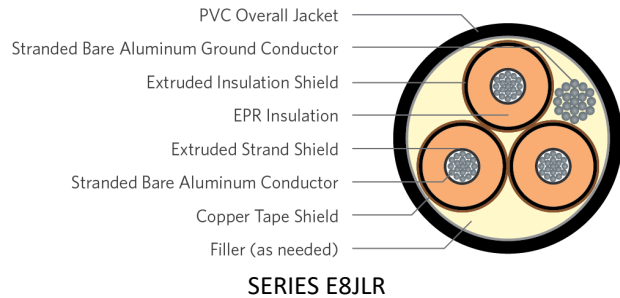
## EPR/CTS/PVC Power, Type MV-105, 15kV 133% 220-mils E8JLR-A33F03CB00

### DESCRIPTION

The three conductor MV-105 power cables consist of aluminum unfilled Class B stranded conductors, covered with ethylene propylene rubber (EPR), copper tape shield, an uninsulated bare ground, and black PVC jacket. These cables are used in industrial power circuits.

### APPLICATIONS

- Primary installations include cable trays, and outdoor locations : sunlight resistant and direct burial. In conduit, duct, free air, raceways.
- In wet or dry locations. Rated 105°C wet or dry.
- Approved for Class I, Div. 2 industrial hazardous locations per NEC
- For CT use for 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



### CONSTRUCTION

|                          |  |
|--------------------------|--|
| <b>CONDUCTOR</b>         | Bare 1350 Aluminum, Class B Strand (unfilled)            |
| <b>STRAND SHIELD</b>     | Thermoset semi-conducting polymer                        |
| <b>INSULATION</b>        | EPR  |
| <b>INSULATION SHIELD</b> | Thermoset semi-conducting polymer                        |
| <b>SHIELD</b>            | 5 mil annealed aluminum tape with 25% overlap            |
| <b>PHASE ID</b>          | Color ribbons in each phase (standard: black, red, blue) |

### CONSTRUCTION cont'd

|                         |                           |
|-------------------------|---------------------------|
| <b>GROUND CONDUCTOR</b> | Uninsulated Bare Aluminum |
| <b>JACKET</b>           | Black PVC                 |
| <b>PACKAGING</b>        | Non-returnable reels      |

### STANDARDS (Compliance)

|                    |  |
|--------------------|--|
| <b>PERFORMANCE</b> | AEIC CS8<br>ASTM B231<br>ICEA S-93-639<br>ICEA S-97-682<br>NEC<br>UL 1072<br>UL 1685 |
|--------------------|--|

|              |                              |
|--------------|------------------------------|
| <b>OTHER</b> | EPA 40 CFR, PART 261<br>OSHA |
|--------------|------------------------------|

## SPECIFICATIONS

| Part Number      | Conductor Size<br>AWG or kcmil | Conductor Diameter<br>(in) | Insulation Diameter<br>(in) | Jacket Thickness<br>(in) | Ground Wire<br>(AWG) | O.D.<br>(in) | Net Weight<br>(lbs / Mft) |
|------------------|--------------------------------|----------------------------|-----------------------------|--------------------------|----------------------|--------------|---------------------------|
| E8JLR-023F03CB00 | 2                              | 0.280                      | 0.793                       | 0.110                    | 4                    | 2.172        | 1,915                     |

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

## EPR/CTS/PVC Power, Type MV-105, 15kV 133% 220-mils Three Conductor, Aluminum

| SPECIFICATIONS cont'd |                                |                               |                                |                             |                         |              |                           |
|-----------------------|--------------------------------|-------------------------------|--------------------------------|-----------------------------|-------------------------|--------------|---------------------------|
| Part Number           | Conductor Size<br>AWG or kcmil | Conductor<br>Diameter<br>(in) | Insulation<br>Diameter<br>(in) | Jacket<br>Thickness<br>(in) | Ground<br>Wire<br>(AWG) | O.D.<br>(in) | Net Weight<br>(lbs / Mft) |
| E8JLR-013F03CB00      | 1                              | 0.319                         | 0.832                          | 0.110                       | 4                       | 2.256        | 2,039                     |
| E8JLR-1A3F03CB00      | 1/0                            | 0.355                         | 0.872                          | 0.110                       | 4                       | 2.342        | 2,300                     |
| E8JLR-A33F03CB00      | 350                            | 0.648                         | 1.132                          | 0.140                       | 1                       | 2.881        | 3,582                     |

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