

## 25kV - EPR Insulation, MV-105-133% Insulation Level

EPR Insulation - PVC Jacket  
MV-105 - 25kV at 133% Insulation  
Shielded - Single Conductor



\*Product images are for illustrative purposes only and may differ from the actual product.

### Category Conductor Description:

- Annealed bare copper Compact, Class B stranding

### Category Insulation Description:

- Ethylene Propylene Rubber (EPR), colored to contrast with the black conducting shield layers

### Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%

### Applications:

- Suitable for use in wet and dry locations when installed in accordance with NEC
- For aerial, direct burial, conduit, open tray, and underground duct installations
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5)

### Extruded Strand Shield:

- Extruded thermoset semi-conducting stress control layer over conductor

### Extruded Insulation Shield:

- Thermoset semi-conducting polymeric layer free stripping from insulation

### Category Jacket Description:

- Low friction, lead-free, flame-retardant, moisture, and sunlight resistant Polyvinyl Chloride (PVC)

### Standards:

- National Electric Code (NEC)
- UL 1072
- UL listed as Type MV-105 for use in accordance with NEC
- UL 1685
- IEEE 1202
- OSHA Acceptable

**Part Number Table**

| <b>Part#</b> | <b>Gauge</b> | <b>Stranding</b> | <b>Insulation Thickness</b> | <b>Jacket Thickness</b> | <b>Nominal OD over Insulation</b> | <b>Outside Diameter Inches</b> | <b>Material Weight (Lbs./M')</b> |
|--------------|--------------|------------------|-----------------------------|-------------------------|-----------------------------------|--------------------------------|----------------------------------|
| MVE41/001    | 1/0          | 19               | 0.345                       | 0.08                    | 1.08                              | 1.31                           | 1086.4                           |
| MVE42/001    | 2/0          | 19               | 0.345                       | 0.08                    | 1.12                              | 1.41                           | 1304                             |
| MVE43/001    | 3/0          | 19               | 0.345                       | 0.08                    | 1.17                              | 1.46                           | 1461                             |
| MVE44/001    | 4/0          | 19               | 0.345                       | 0.08                    | 1.22                              | 1.45                           | 1531.3                           |
| MVE425001    | 250          | 37               | 0.345                       | 0.08                    | 1.28                              | 1.57                           | 1826                             |
| MVE435001    | 350          | 37               | 0.345                       | 0.08                    | 1.37                              | 1.67                           | 2235                             |
| MVE450001    | 500          | 37               | 0.345                       | 0.11                    | 1.5                               | 1.85                           | 2934                             |
| MVE475001    | 750          | 61               | 0.345                       | 0.11                    | 1.68                              | 2.06                           | 3962                             |
| MVE4100001   | 1000         | 61               | 0.345                       | 0.11                    | 1.84                              | 2.22                           | 4917                             |

Note: The data shown is approximate and subject to standard industry and manufacturer tolerances

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