

## 35kV - EPR Insulation, MV-105-133% Insulation Level

EPR Insulation - PVC Jacket  
MV-105 - 35kV 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 mils 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>Houston Wire &amp; Cable</b> | <b>Gauge</b> | <b>Stranding</b> | <b>Insulation Thickness</b> | <b>Jacket Thickness</b> | <b>Outside Diameter Inches</b> | <b>Material Weight (Lbs./M')</b> |
|--------------|---------------------------------|--------------|------------------|-----------------------------|-------------------------|--------------------------------|----------------------------------|
| MVE51/001    | 1/0-0135KVEPUC                  | 1/0          | 19               | 0.42                        | 0.08                    | 1.47                           | 1328                             |
| MVE52/001    |                                 | 2/0          | 19               | 0.42                        | 0.08                    | 1.49                           | 1378                             |
| MVE53/001    |                                 | 3/0          | 19               | 0.42                        | 0.08                    | 1.53                           | 1532                             |
| MVE54/001    | 4/0-0135KVEPUC                  | 4/0          | 19               | 0.42                        | 0.08                    | 1.59                           | 1804                             |
| MVE525001    |                                 | 250          | 37               | 0.42                        | 0.08                    | 1.64                           | 1959                             |
| MVE535001    |                                 | 350          | 37               | 0.42                        | 0.08                    | 1.79                           | 2396                             |
| MVE550001    | HW21150001                      | 500          | 37               | 0.42                        | 0.11                    | 1.91                           | 3120                             |
| MVE575001    |                                 | 750          | 61               | 0.42                        | 0.11                    | 2.09                           | 4109                             |
| MVE5100001   |                                 | 1000         | 61               | 0.42                        | 0.11                    | 2.25                           | 4885                             |

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

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