

## 25 kV & 35kV - EPR Insulation, PVC Jacket

Single Conductor - EPR Insulation - PVC Jacket  
25kV/35 kV, EPR/Copper Tape Shield  
Type MV-105  
133% or 100% Insulation Levels



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

### Category Conductor Description:

- 1/0 AWG thru 1000 kcmil annealed bare copper compact Class B strand

### Category Insulation Description:

- Lead-free Ethylene Propylene Rubber (EPR) insulation, contrasting in color to the black semi-conducting shield layers

### Metallic Shield:

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

### Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications
- For use in wet or dry locations when installed in accordance with NEC
- For use in aerial, 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 Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA WC74
- ICEA S-97-682
- AEIC CS8
- Type MV-105 for use in accordance with NEC
- IEEE 1202 (70,000 BTU/hr)/CSA FT4
- EPA 40 CFR, Part 261 for leachable lead content per TCLP method
- OSHA Acceptable
- RoHS Compliant

**Part Number Table**

<b>Part#</b>	<b>Gauge</b>	<b>Conductor Diameter</b>	<b>Insulation Diameter Min</b>	<b>Insulation Diameter Max</b>	<b>Jacket Thickness</b>	<b>Outside Diameter Inches</b>	<b>Material Weight (Lbs./M')</b>
MVA41/001	1/0	.340"	1.02"	1.12"	0.08	1.049	863
MVA42/001	2/0	.380"	1.06"	1.16"	0.08	1.35	925
MVA43/001	3/0	.430"	1.105"	1.205"	0.08	1.4	863
MVA44/001	4/0	.480"	1.16"	1.26"	0.08	1.45	1093
MVA425001	250	.530"	1.21"	1.315"	0.08	1.51	1174
MVA435001	350	.620"	1.31"	1.41"	0.08	1.6	1356
MVA450001	500	.740"	1.43"	1.53"	0.08	1.72	1707
MVA475001	750	.910"	1.61"	1.71"	0.11	1.96	2120
MVA4100001	1000	1.06"	1.76"	1.865"	0.11	2.1	2500

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

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