

## 35kV - EPR Insulation, PVC Jacket

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

**Medium Voltage**



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

### Category Conductor Description:

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

### Extruded Strand Shield:

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- Extruded thermoset semi-conducting stress-control layer over conductor

### Category Insulation Description:

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

### Extruded Insulation Shield:

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- Thermoset semi-conducting polymeric layer free stripping from insulation

### Metallic Shield:

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

### Category Jacket Description:

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

## 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)

## Standards:

- National Electrical Code (NEC)
- UL 1072
- ICEA S-93-639/NEMA
- WC74
- ICEA S-97-682
- AEIC CS8
- UL listed as Type MV-105 for use in accordance with NEC, UL File # E90501
- 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							
Part#	Gauge	Conductor Diameter	Insulation Diameter Min	Insulation Diameter Max	Jacket Thickness	Outside Diameter Inches	Material Weight (Lbs./M')
MVE51/001	1/0	.340"	1.060"	1.265"	0.08	1.47	1328.9
MVE52/001	2/0	.380"	1.200"	1.305"	0.08	1.49	1378
MVE53/001	3/0	.430"	1.245"	1.355"	0.08	1.53	1532
MVE54/001	4/0	.480"	1.300"	1.405"	0.08	1.59	1804
MVE525001	250	.530"	1.350"	1.460"	0.08	1.64	1959
MVE535001	350	.620"	1.450"	1.555"	0.11	1.79	2396
MVE550001	500	.740"	1.570"	1.675"	0.11	1.91	3120
MVE575001	750	.910"	1.750"	1.860"	0.11	2.09	4109
MVE5100001	1000	1.06"	1.900"	2.010"	0.11	2.25	4885

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