



# POWER KABEL INC.

## MV-105 COPPER 8KV EPR @ 133% COPPER TAPE SHIELD PVC JACKET

### APPLICATIONS & FEATURES

Primary power and distribution circuits in industrial and commercial installations, power circuits in generating plants where line to ground fault current are within shield capabilities. May be used in wet or dry locations, installed in raceways, duct, and open air, aerially or directly buried as permitted by NEC. UL Listed as MV-90. Rated as Sunlight Resistance. Oil Resistance I jacket.

### INDUSTRY COMPLIANCES

UL 1072 (Medium Voltage Power Cable.)

ICEA S-93-639/WC 74 (Shielded Power Cable for Use in the Transmission and Distribution of Electric Energy Rated 5 kV - 46 kV.)

ICEA S-97-682 (Utility Shielded Power Cables rated 5 kV - 46 kV.)

AEIC CS8 (Extruded Dielectric, Shielded Power Cables rated 5 kV - 46 kV.)

ASTM B496 (Compact Round Concentric-Lay-Stranded Copper Conductors.)

ASTM B801 (Magnesium-Alloy Sand Castings)

### CONSTRUCTION

**CONDUCTORS:** Soft annealed uncoated copper compacted Class B per ASTM B496  
**CONDUCTOR SHIELD:** Semi conducting cross-linked polyethylene (XLPE).  
**INSULATION:** Thermoset ethylene propylene rubber (EPR).  
**INSULATION SHIELD:** Semi conducting cross-linked polyethylene (XLPE).  
**METALLIC SHIELD:** Soft annealed uncoated copper tape, 5 mil thick, 25% minimum overlap  
**JACKET:** Black sunlight resistance and flame retardant polyvinyl chloride (PVC) compound.

AWG	STRANDS	INSULATION THICKNESS (MILS)	CONDUCTOR OD (INCHES)	INSULATION DIAMETER (INCHES)	JACKET THICKNESS (MILS)	OUTSIDE DIAMETER (INCHES)	POUNDS PER 1000 FT
6	7	140	0.17	0.49	60	0.71	324
4	7	140	0.21	0.53	60	0.75	395
2	7	140	0.27	0.59	60	0.80	502
1	19	140	0.30	0.62	80	0.88	605
1/0	19	140	0.34	0.66	80	0.91	694
2/0	19	140	0.38	0.70	80	0.95	803
3/0	19	140	0.42	0.74	80	1.00	938
4/0	19	140	0.48	0.80	80	1.05	1104
250	37	140	0.52	0.85	80	1.11	1255
300	37	140	0.57	0.90	80	1.16	1439
350	37	140	0.62	0.95	80	1.20	1621
400	37	140	0.66	0.99	80	1.25	1801
500	37	140	0.74	1.07	80	1.35	2182
600	61	140	0.81	1.15	80	1.43	2544
750	61	140	0.91	1.25	80	1.53	3065
1000	61	140	1.06	1.40	110	1.74	4033

All values are nominal and subject to correction.