



POWER KABEL INC.

MV-105 COPPER 8KV EPR @ 100% 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).
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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	115	0.17	0.44	60	0.65	291
4	7	115	0.21	0.48	60	0.70	361
2	7	115	0.27	0.54	60	0.75	465
1	19	115	0.30	0.57	60	0.78	532
1/0	19	115	0.34	0.61	60	0.82	618
2/0	19	115	0.38	0.65	80	0.90	760
3/0	19	115	0.42	0.69	80	0.95	893
4/0	19	115	0.48	0.74	80	1.00	1057
250	37	115	0.52	0.80	80	1.06	1205
300	37	115	0.57	0.85	80	1.11	1386
350	37	115	0.62	0.90	80	1.15	1567
400	37	115	0.66	0.94	80	1.20	1744
500	37	115	0.74	1.02	80	1.30	2122
600	61	115	0.81	1.10	80	1.38	2480
750	61	115	0.91	1.20	80	1.48	2997
1000	61	115	1.06	1.35	80	1.63	3855

All values are nominal and subject to correction.