



POWER KABEL INC.

MV-105 ALUMINUM 5KV EPR @ 100% COPPER NEUTRAL 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 B400 (Compact Round Concentric-Lay-Stranded Aluminum 1350 Conductors.)

CONSTRUCTION

CONDUCTORS:	Hard Drawn Aluminum 1350 compacted, per ASTM B400
CONDUCTOR SHIELD:	Semi conducting cross-linked polyethylene (XLPE).
INSULATION:	Thermoset ethylene propylene rubber (EPR)
INSULATION SHIELD:	Semi conducting cross-linked polyethylene (XLPE).
METALLIC SHIELD:	Solid soft annealed uncoated copper wires per ASTM B3, helically applied and uniformly spaced
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	90	0.17	0.39	60	0.65	188
4	7	90	0.21	0.43	60	0.69	219
2	7	90	0.27	0.49	60	0.76	280
1	19	90	0.30	0.52	60	0.79	307
1/0	19	90	0.34	0.55	60	0.83	342
2/0	19	90	0.38	0.59	80	0.91	419
3/0	19	90	0.42	0.64	80	0.96	472
4/0	19	90	0.48	0.69	80	1.01	535
250	37	90	0.52	0.75	80	1.06	602
350	37	90	0.62	0.85	80	1.16	737
500	37	90	0.74	0.97	80	1.28	930
750	61	90	0.91	1.16	80	1.50	1292
1000	61	90	1.06	1.32	80	1.65	1599

All values are nominal and subject to correction.