



POWER KABEL INC.

MV-105 ALUMINUM 5KV 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.)

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

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

ASTM B400 (Compact Round Concentric-Lay-Stranded Aluminum 1350 Conductors.)

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

ASTM B801 (Magnesium-Alloy Sand Castings)

CONSTRUCTION

CONDUCTORS:	Hard drawn Aluminum-1350 compacted Class B per ASTM B400 or annealed AA-8000 Aluminum compacted Class B per ASTM B801.
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	90	0.17	0.39	60	0.60	204
4	7	90	0.21	0.43	60	0.65	238
2	7	90	0.27	0.49	60	0.70	287
1	19	90	0.30	0.52	60	0.73	316
1/0	19	90	0.34	0.55	60	0.77	354
2/0	19	90	0.38	0.59	60	0.81	398
3/0	19	90	0.42	0.64	80	0.90	488
4/0	19	90	0.48	0.69	80	0.95	556
250	37	90	0.52	0.75	80	1.01	619
350	37	90	0.62	0.85	80	1.10	761
500	37	90	0.74	0.97	80	1.22	964
750	61	90	0.91	1.15	80	1.43	1318
1000	61	90	1.06	1.30	80	1.58	1633

All values are nominal and subject to correction.