



# POWER KABEL INC.

## MV-90 ALUMINUM 8KV XLP @ 133% 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.)

AEIC CS8 (Extruded Dielectric, Shielded Power Cables)

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.)

### CONSTRUCTION

<b>CONDUCTORS:</b>	Hard drawn Aluminum-1350 compacted Class B per ASTM B400.
<b>CONDUCTOR SHIELD:</b>	Semi conducting cross-linked polyethylene (XLPE).
<b>INSULATION:</b>	Thermoset crosslinked polyethylene (XLPE). On request: TR-XLPE.
<b>INSULATION SHIELD:</b>	Semi conducting cross-linked polyethylene (XLPE).
<b>CONCENTRIC NEUTRAL:</b>	Soft annealed solid copper wires per ASTM B3, helically applied and uniformly spaced. Full or 1/3 Neutral.
<b>BINDER TAPE:</b>	A suitable polyester tape, as required
<b>JACKET:</b>	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	0.48	60	0.73	224
4	7	140	0.21	0.53	60	0.78	256
2	7	140	0.27	0.58	80	0.87	339
1	19	140	0.30	0.61	80	0.90	368
1/0	19	140	0.34	0.65	80	0.94	405
2/0	19	140	0.38	0.69	80	0.98	448
3/0	19	140	0.42	0.74	80	1.03	502
4/0	19	140	0.48	0.79	80	1.08	566
250	37	140	0.52	0.85	80	1.13	635
300	37	140	0.57	0.90	80	1.18	704
350	37	140	0.62	0.94	80	1.23	771
400	37	140	0.66	0.98	80	1.27	838
500	37	140	0.74	1.06	80	1.37	990
600	61	140	0.81	1.15	80	1.46	1132
750	61	140	0.91	1.24	80	1.55	1317
1000	61	140	1.06	1.40	110	1.77	1726

All values are nominal and subject to correction.