



# POWER KABEL INC.

## MV-90 ALUMINUM 8KV XLP @ 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)

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>METALLIC SHIELD:</b>	Soft annealed uncoated copper tape, 5 mil thick, 25% minimum overlap
<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	115	0.17	0.43	60	0.65	214
4	7	115	0.21	0.48	60	0.69	248
2	7	115	0.27	0.53	60	0.75	296
1	19	115	0.30	0.56	60	0.78	325
1/0	19	115	0.34	0.60	60	0.81	362
2/0	19	115	0.38	0.64	80	0.89	440
3/0	19	115	0.42	0.69	80	0.94	496
4/0	19	115	0.48	0.74	80	0.99	563
250	37	115	0.52	0.80	80	1.05	625
300	37	115	0.57	0.85	80	1.10	697
350	37	115	0.62	0.89	80	1.14	766
400	37	115	0.66	0.93	80	1.19	834
500	37	115	0.74	1.01	80	1.29	991
600	61	115	0.81	1.10	80	1.37	1129
750	61	115	0.91	1.19	80	1.47	1318
1000	61	115	1.06	1.35	80	1.62	1630

All values are nominal and subject to correction.