

# **POWER KABEL INC.**

## MV-105 ALUMINUM 25KV EPR @ 133% 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 B400 (Compact Round Concentric-Lay-Stranded Aluminum 1350 Conductors.) ASTM B801 (Magnesium-Alloy Sand Castings)

#### CONSTRUCTION

CONDUCTORS: CONDUCTOR SHIELD: INSULATION: INSULATION SHIELD: METALLIC SHIELD: JACKET:

Hard drawn Aluminum-1350 compacted Class B per ASTM B400 or annealed AA-8000 Aluminum compacted Class B per ASTM B801. IIELD: Semi conducting cross-linked polyethylene (XLPE). Thermoset ethylene propylene rubber (EPR) IELD: Semi conducting cross-linked polyethylene (XLPE). D: Soft annealed uncoated copper tape, 5 mil thick, 25% minimum overlap 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
1	19	320	0.30	0.97	80	1.23	713
1/0	19	320	0.34	1.02	80	1.30	859
2/0	19	320	0.38	1.06	80	1.34	922
3/0	19	320	0.42	1.11	80	1.39	997
4/0	19	320	0.48	1.16	80	1.44	1086
250	37	320	0.52	1.22	80	1.50	1172
300	37	320	0.57	1.27	80	1.55	1264
350	37	320	0.62	1.31	80	1.59	1353
400	37	320	0.66	1.36	80	1.64	1440
500	37	320	0.74	1.43	110	1.78	1710
600	61	320	0.81	1.52	110	1.90	1939
750	61	320	0.91	1.62	110	1.99	2174
1000	61	320	1.06	1.77	110	2.14	2561
All values are nominal and subject to correction.							