



POWER KABEL INC.

MV-105 COPPER 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 B496 (Compact Round Concentric-Lay-Stranded Copper Conductors.)

CONSTRUCTION

CONDUCTORS:	Soft annealed uncoated copper compacted Class B per ASTM B496
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.
BINDER TAPE:	A suitable tape, as required
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	244
4	7	90	0.21	0.43	60	0.69	309
2	7	90	0.27	0.49	60	0.76	423
1	19	90	0.30	0.52	60	0.79	487
1/0	19	90	0.34	0.55	60	0.83	568
2/0	19	90	0.38	0.59	80	0.91	705
3/0	19	90	0.42	0.64	80	0.96	832
4/0	19	90	0.48	0.69	80	1.01	990
250	37	90	0.52	0.75	80	1.06	1140
350	37	90	0.62	0.85	80	1.16	1490
500	37	90	0.74	0.97	80	1.28	2005
750	61	90	0.91	1.16	80	1.50	2905
1000	61	90	1.06	1.32	80	1.65	3749