



POWER KABEL INC.

MV-105 COPPER 25KV 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.)

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

ASTM B496 (Compact Round Concentric-Lay-Stranded Copper Conductors.)

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

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
1	19	260	0.30	0.86	80	1.18	804
1/0	19	260	0.34	0.90	80	1.22	898
2/0	19	260	0.38	0.94	80	1.26	1012
3/0	19	260	0.42	0.99	80	1.30	1153
4/0	19	260	0.48	1.04	80	1.38	1349
250	37	260	0.52	1.10	80	1.43	1521
300	37	260	0.57	1.15	80	1.48	1711
350	37	260	0.62	1.19	80	1.53	1900
400	37	260	0.66	1.24	80	1.57	2086
500	37	260	0.74	1.31	80	1.65	2452
600	61	260	0.81	1.40	110	1.82	2940
750	61	260	0.91	1.51	110	1.93	3488
1000	61	260	1.06	1.66	110	2.11	4436

All values are nominal and subject to correction.