POWER KABEL INC.

MV-105 COPPER 8KV EPR @ 133% 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	140	0.17	0.49	60	0.75	300
4	7	140	0.21	0.53	60	0.79	368
2	7	140	0.27	0.59	80	0.90	523
1	19	140	0.30	0.62	80	0.94	591
1/0	19	140	0.34	0.66	80	0.97	677
2/0	19	140	0.38	0.70	80	1.01	782
3/0	19	140	0.42	0.74	80	1.06	914
4/0	19	140	0.48	0.80	80	1.11	1076
250	37	140	0.52	0.85	80	1.17	1231
300	37	140	0.57	0.90	80	1.22	1410
350	37	140	0.62	0.95	80	1.26	1589
400	37	140	0.66	0.99	80	1.31	1765
500	37	140	0.74	1.07	80	1.41	2139
600	61	140	0.81	1.15	80	1.49	2513
750	61	140	0.91	1.27	80	1.60	3032
1000	61	140	1.06	1.42	110	1.82	3997

All values are nominal and subject to correction.