POWER KABEL INC.

MV-105 COPPER 25KV EPR @ 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.)
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.)
ASTM B801 (Magnesium-Alloy Sand Castings)

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:	Soft annealed uncoated copper tape, 5 mil thick, 25% minimum overlap
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	1.12	829
1/0	19	260	0.34	0.90	80	1.16	926
2/0	19	260	0.38	0.94	80	1.20	1043
3/0	19	260	0.42	0.99	80	1.25	1187
4/0	19	260	0.48	1.04	80	1.32	1390
250	37	260	0.52	1.10	80	1.38	1553
300	37	260	0.57	1.15	80	1.43	1748
350	37	260	0.62	1.19	80	1.47	1940
400	37	260	0.66	1.24	80	1.52	2129
500	37	260	0.74	1.31	80	1.59	2501
600	61	260	0.81	1.40	80	1.68	2881
750	61	260	0.91	1.49	110	1.84	3531
1000	61	260	1.06	1.65	110	2.02	4488

All values are nominal and subject to correction.