POWER KABEL INC.

MV-90 ALUMINUM 25KV XLP @ 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)
ASTM B400 (Compact Round Concentric-Lay-Stranded Aluminum 1350 Conductors.)

CONSTRUCTION

CONDUCTORS:	Hard drawn Aluminum-1350 compacted Class B per ASTM B400.
CONDUCTOR SHIELD:	Semi conducting cross-linked polyethylene (XLPE).
INSULATION:	Thermoset crosslinked polyethylene (XLPE). On request: TR-XLPE.
INSULATION SHIELD:	Semi conducting cross-linked polyethylene (XLPE).
METALLIC SHIELD:	Soft annealed uncoated copper tape, 5 mil thick, 25% minimum overlap
BINDER TAPE:	A suitable polyester 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	320	0.30	0.97	80	1.23	675
1/0	19	320	0.34	1.01	80	1.29	747
2/0	19	320	0.38	1.05	80	1.33	804
3/0	19	320	0.42	1.10	80	1.37	872
4/0	19	320	0.48	1.15	80	1.43	953
250	37	320	0.52	1.21	80	1.48	1031
300	37	320	0.57	1.26	80	1.53	1116
350	37	320	0.62	1.30	80	1.58	1198
400	37	320	0.66	1.34	80	1.62	1278
500	37	320	0.74	1.42	110	1.76	1534
600	61	320	0.81	1.51	110	1.88	1748
750	61	320	0.91	1.60	110	1.97	1969
1000	61	320	1.06	1.76	110	2.12	2333

All values are nominal and subject to correction.