



POWER KABEL INC.

MV-105 TYPE MC-HL ALUMINUM CONDUCTORS 15KV
 3C ALUMINUM 220 Mils EPR 133% Insulation Level Tape Shield 3 GROUNDS AIA PVC Jacket

APPLICATIONS & FEATURES

Suited for use in wet and dry areas, conduits, ducts, troughs, trays, direct burial, and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 105°C for normal operation, 140°C for emergency overload, and 250°C for short circuit conditions. Rated at -35°C for cold bend. For uses in Class I and II, Division 2 hazardous locations per NEC Article 501 and 502. Rated for 1000 lbs./FT maximum sidewall pressure. The ground is sized to equal 50% of the equivalent copper phase conductor ampacity.

INDUSTRY COMPLIANCES

- ASTM B800 8000 Series Aluminum Alloy Wire
- ASTM B836 Compact Rounded Stranded Aluminum Conductors
- UL 1072 - Medium Voltage Power Cables
- ICEA S-93-639 (NEMA WC 74) 5-46 KV Shielded Power Cable & ICEA S-97-682 5-46 KV Utility
- UL 1685/FT4 Vertical-Tray Fire Propagation and Smoke Release Test
- IEEE 1202 -Flame Test (70,000) BTU/hr Vertical Tray Test
- AEIC CS-8 Specification for extruded dielectric shielded power cables rated for 5 through 46KV

CONSTRUCTION

CONDUCTORS:	Class B compact stranded 8000 Series aluminum per ASTM B800 and ASTM B836
CONDUCTOR SHIELD:	Semi-conducting cross-linked copolymer; A conductor separator is used for cable size larger than or equal to 500 Kcmil
INSULATION:	220 Mils EPR 133% Insulation Level
INSULATION SHIELD:	Stripable semi-conducting cross-linked copolymer
CU TAPE SHIELD:	Helically wrapped 5 mil copper tape with 25% overlap
GROUND:	Three separate ground wires with a combined circular mil of 50% of the equivalent copper phase conductor ampacity. Class B compressed stranded bare copper per ASTM B3 and ASTM B8
FILLER:	Wax paper filler
BINDER:	Polypropylene tape
ARMOR:	Aluminum Interlocked Armor (AIA)
JACKET:	Polyvinyl Chloride (PVC)

AWG/No OF CONDUCTORS	DIAMETER OF CONDUCTOR (INCHES)	DIAMETER OF INSULATION (INCHES)	DIAMETER OF INSUL SHLD (INCHES)	GROUND (AWG)	DIAMETER OF ARMOR (INCHES)	JACKET THICKNESS (MILS)	OVERALL DIAMETER (INCHES)	APPROX WEIGHT (LBS/1000 FT)
1/0-3	0.336	0.813	0.873	3 x 8	2.251	75	2.401	2361
2/0-3	0.376	0.853	0.913	3 x 6	2.337	75	2.487	2639
3/0-3	0.423	0.9	0.96	3 x 6	2.439	75	2.589	2868
4/0-3	0.475	0.952	1.012	3 x 5	2.551	75	2.701	3200
250/3	0.52	1.006	1.066	3 x 5	2.668	75	2.818	3472
350/3	0.616	1.102	1.162	3 x 4	2.875	75	3.025	4113
500/3	0.736	1.222	1.282	3 x 2	3.134	85	3.304	5187
750/3	0.908	1.425	1.485	3 x 1	3.573	85	3.743	6727

All values are nominal and subject to correction.