

# **POWER KABEL INC.**

### **MV-105 TYPE MC-HL ALUMINUM CONDUCTORS 5KV** 3C ALUMINUM 115 Mils EPR 133% Insulation Level Tape Shield, 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.

## **INDUSTRY COMPLIANCES**

CONSTRUCTION

ASTM B3 Soft or annealed copper 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

#### CONDUCTO

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:	115 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:	Class B compressed stranded bare copper per ASTM B3 and ASTM B8
FILLER:	Wax paper filler
BINDER:	Polypropylene tape

BINDER: 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)
2/3	0.268	0.535	0.595	1 x 6	1.55	60	1.67	1237
1/3	0.299	0.566	0.626	1 x 6	1.617	60	1.737	1346
1/0-3	0.336	0.603	0.663	1 x 6	1.697	60	1.817	1480
2/0-3	0.376	0.643	0.703	1 x 4	1.784	60	1.904	1684
3/0-3	0.423	0.69	0.75	1 x 4	1.985	60	2.105	1970
4/0-3	0.475	0.742	0.802	1 x 4	2.098	60	2.218	2203
250/3	0.52	0.796	0.856	1 x 4	2.214	60	2.334	2438
350/3	0.616	0.892	0.952	1 x 3	2.422	75	2.572	3038
500/3	0.736	1.012	1.072	1 x 2	2.681	75	2.831	3789
750/3	0.908	1.215	1.275	1 x 1	3.119	85	3.289	5149
All values are nominal an	d subject to correction.							