POWER KABEL INC.

MV-105 TYPE MC-HL COPPER CONDUCTORS 15KV

3C Copper 175 Mils EPR 100% 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

ASTM B3 Soft or annealed copper
ASTM B8 Concentric-lay-standard copper
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 compressed stranded bare copper per ASTM B3 and ASTM B8
CONDUCTOR SHIELD:	Semi-conducting cross-linked copolymer
INSULATION:	175 Mils EPR 100% Insulation Level
INSULATION SHIELD:	Stripable semi-conducting cross-linked copolymer
CU TAPE SHIELD:	Helically wrapped 5 mil copper tape with 25% overlap
GROUND:	1 Class B compressed stranded bare copper ground 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)
2/3	0.283	0.67	0.73	1 x 6	1.842	60	1.962	2045
1/3	0.322	0.709	0.769	1 x 4	2.026	60	2.146	2430
1/0-3	0.362	0.749	0.809	1 x 4	2.113	60	2.233	2732
2/0-3	0.405	0.792	0.852	1 x 4	2.206	60	2.326	3094
3/0-3	0.456	0.843	0.903	1 x 3	2.316	75	2.466	3650
4/0-3	0.512	0.899	0.959	1 x 3	2.437	75	2.587	4205
250/3	0.558	0.954	1.014	1 x 3	2.555	75	2.705	4706
350/3	0.661	1.057	1.117	1 x 2	2.778	75	2.928	5961
500/3	0.789	1.185	1.245	1 x 1	3.054	85	3.224	7827
750/3	0.968	1.373	1.433	1 x 0	3.46	85	3.63	10773

All values are nominal and subject to correction.