



POWER KABEL INC.

MV-105 TYPE MC-HL COPPER CONDUCTORS 2.4KV 3C Copper 115 Mils EPR, 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, 130°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-96-659 (NEMA WC 7) 2001-5000 V Nonshielded Cables
UL 1685/FT4 Vertical-Tray Fire Propagation and Smoke Release Test
IEEE 1202 -Flame Test (70,000) BTU/hr Vertical Tray Test

CONSTRUCTION

CONDUCTORS: Class B compressed stranded bare copper per ASTM B3 and ASTM B8
CONDUCTOR SHIELD: Semi-conducting cross-linked copolymer
INSULATION: 115 Mils Ethylene Propylene Rubber (EPR)
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: Thermoplastic Chlorinated Polyethylene (CPE) yellowjacket

AWG & No OF CONDUCTORS	DIAMETER OF CONDUCTOR (INCHES)	DIAMETER OF INSULATION (INCHES)	GROUND (AWG)	DIAMETER OF ARMOR (INCHES)	JACKET THICKNESS (MILS)	OVERALL DIAMETER (INCHES)	NET WEIGHT (LBS/1000 FT)
2/3	0.283	0.543	1 x 6	1.395	50	1.495	1386
1/3	0.322	0.582	1 x 4	1.479	60	1.599	1675
1/0-3	0.362	0.622	1 x 4	1.566	60	1.686	1943
2/0-3	0.405	0.665	1 x 4	1.658	60	1.778	2269
3/0-3	0.456	0.716	1 x 3	1.769	60	1.889	2713
4/0-3	0.512	0.772	1 x 3	1.99	60	2.11	3310
250/3	0.558	0.828	1 x 3	2.11	60	2.23	3768
350/3	0.661	0.931	1 x 2	2.333	75	2.483	5007
500/3	0.789	1.059	1 x 1	2.609	75	2.759	6714
750/3	0.968	1.238	1 x 1/0	2.996	85	3.166	9529
1000/3	1.117	1.387	1 X 1/0	3.318	85	3.488	12189

All dimensions are nominal and subject to normal manufacturing tolerances