



POWER KABEL INC.

MV-105 COPPER 15KV EPR @ 133% COPPER NEUTRAL 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 rated 5 kV - 46 kV.)

ASTM B496 (Compact Round Concentric-Lay-Stranded Copper Conductors.)

CONSTRUCTION

| | |
|---------------------------|--|
| CONDUCTORS: | Soft annealed uncoated copper compacted Class B per ASTM B496 |
| CONDUCTOR SHIELD: | Semi conducting cross-linked polyethylene (XLPE). |
| INSULATION: | Thermoset ethylene propylene rubber (EPR). |
| INSULATION SHIELD: | Semi conducting cross-linked polyethylene (XLPE). |
| METALLIC SHIELD: | Solid soft annealed uncoated copper wires per ASTM B3, helically applied and uniformly spaced. |
| BINDER TAPE: | A suitable 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 |
|------|---------|-----------------------------|-----------------------|------------------------------|-------------------------|---------------------------|--------------------|
| 2 | 7 | 220 | 0.27 | 0.75 | 80 | 1.07 | 654 |
| 1 | 19 | 220 | 0.30 | 0.78 | 80 | 1.10 | 726 |
| 1/0 | 19 | 220 | 0.34 | 0.82 | 80 | 1.14 | 817 |
| 2/0 | 19 | 220 | 0.38 | 0.86 | 80 | 1.18 | 928 |
| 3/0 | 19 | 220 | 0.42 | 0.91 | 80 | 1.22 | 1066 |
| 4/0 | 19 | 220 | 0.48 | 0.96 | 80 | 1.27 | 1235 |
| 250 | 37 | 220 | 0.52 | 1.01 | 80 | 1.35 | 1421 |
| 300 | 37 | 220 | 0.57 | 1.06 | 80 | 1.40 | 1608 |
| 350 | 37 | 220 | 0.62 | 1.11 | 80 | 1.45 | 1794 |
| 400 | 37 | 220 | 0.66 | 1.15 | 80 | 1.49 | 1977 |
| 500 | 37 | 220 | 0.74 | 1.23 | 80 | 1.57 | 2338 |
| 600 | 61 | 220 | 0.81 | 1.32 | 80 | 1.67 | 2715 |
| 750 | 61 | 220 | 0.91 | 1.43 | 110 | 1.85 | 3359 |
| 1000 | 61 | 220 | 1.06 | 1.58 | 110 | 2.03 | 4294 |

All values are nominal and subject to correction.