

15KV POWER CABLE SINGLE CONDUCTOR SHIELDED EPR/PVC JACKET TYPE MV-105 133% INSULATION LEVEL

CONSTRUCTION:

CONDUCTOR CLASS B STRANDED ANNEALED BARE COPPER.

STRAND SHIELD NONMETALLIC SEMI-CONDUCTING TAPE OR EXTRUSION APPLIED OVER CONDUCTOR.

INSULATION ETHYLENE PROPYLENE RUBBER (EPR).

INSULATION SHIELD SEMI-CONDUCTING EXTRUSION APPLIED DIRECTLY OVER INSULATION.

METALLIC TAPE SHIELD LAPPED COPPER TAPE SHIELD APPLIED DIRECTLY OVER EXTRUDED INSULATION SHIELD.

JACKET* SUNLIGHT RESISTANT, BLACK POLYVINYL CHLORIDE (PVC).*

| Charlotte Wire Part# | Size AWG | Strand No. | Insulation Thickness (in.) | Insulation Diameter (in.) | Jacket Thickness (in.) | Overall Diameter (in.) | Approx. Net Wt. (Lbs/Mft) | Ampacity in **Conduit |
|----------------------|----------|------------|----------------------------|---------------------------|------------------------|------------------------|---------------------------|-----------------------|
| CW07251 | 2 | 7 | .220" | .76" | .080" | 1.01" | 660 | 165 |
| CW07252 | 1 | 19 | .220" | .82" | .080" | 1.07" | 740 | 190 |
| CW07253 | 1/0 | 19 | .220" | .85" | .080" | 1.11" | 830 | 215 |
| CW07254 | 2/0 | 19 | .220" | .88" | .080" | 1.15" | 940 | 255 |
| CW07255 | 3/0 | 19 | .220" | .94" | .080" | 1.19" | 1080 | 290 |
| CW07256 | 4/0 | 19 | .220" | .98" | .080" | 1.22" | 1265 | 330 |
| CW07257 | 250MCM | 37 | .220" | 1.06" | .080" | 1.30" | 1430 | 365 |
| CW07258 | 350MCM | 37 | .220" | 1.14" | .080" | 1.41" | 1790 | 440 |
| CW07259 | 500MCM | 37 | .220" | 1.26" | .080" | 1.54" | 2340 | 535 |
| CW07260 | 750MCM | 61 | .220" | 1.46" | .110" | 1.75" | 3350 | 655 |
| CW07261 | 1000MCM | 61 | .220" | 1.63" | .110" | 1.90" | 4290 | 755 |

* To specify low smoke zero halogen polyolefin jacket, add suffix "LS" to Charlotte Wire part number.

**Ampacity based on 3 cables at 15kv in isolated conduit in air, 105Deg C temperature, 40Deg C ambient per NEC Table 310.60(C)(73).

APPLICATION:

Suitable as a power cable for circuits up to 15000Volts at 133% (ungrounded) insulation level in wet or dry locations at conductor temperatures not exceeding 105Deg C. Suitable installations include conduit, trough, duct, aerial, and direct burial.

STANDARDS:

UL 1072 for Medium Voltage Cables.

ICEA S-93-639/NEMA WC74 for Shielded Power Cables.

AEIC CS-8 for EPR Insulated Shielded Power Cables.

NEC Article 310 & 328 for MV-105 Cables Uses and Constructions.

NEC Article 392 for CT Use and Sunlight Resistant (1/0 and larger).