

35KV POWER CABLE SINGLE CONDUCTOR SHIELDED EPR/PVC JACKET TYPE MV-105 100% 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
CW07401	1/0	19	.345"	1.12"	.080"	1.32"	1120	215
CW07402	2/0	19	.345"	1.16"	.080"	1.36"	1230	255
CW07403	3/0	19	.345"	1.21"	.080"	1.42"	1380	290
CW07404	4/0	19	.345"	1.25"	.080"	1.46"	1580	330
CW07405	250MCM	37	.345"	1.34"	.080"	1.53"	1720	365
CW07406	350MCM	37	.345"	1.41"	.080"	1.61"	2130	440
CW07407	500MCM	37	.345"	1.53"	.080"	1.91"	2810	535
CW07408	750MCM	61	.345"	1.75"	.110"	1.99"	3770	655
CW07409	1000MCM	61	.345"	1.90"	.110"	2.15"	4700	755

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

**Ampacities are based on three conductors within overall covering in one underground duct, 105C conductor temperature per NEC Table 310.60(C)(79).

APPLICATION:

Suitable as a power cable for circuits up to 25000Volts at 133%(ungrounded) insulation level and up to 35000Volts at 100% (grounded) insulation level in wet or dry locations at conductor temperatures not exceeding 105Deg C. Suitable installations include conduit, trough, open tray, 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).