

35KV 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	Number Of Strands	Insulation Thickness (in.)	Insulation Diameter (in.)	Jacket Thickness (in.)	Overall Diameter (in.)	Approx. Net Wt. (Lbs/Mft)	Ampacity in **Conduit
CW07411	1/0	19	.420"	1.25"	.080"	1.49"	1260	215
CW07412	2/0	19	.420"	1.30"	.080"	1.53"	1410	255
CW07413	3/0	19	.420"	1.34"	.080"	1.58"	1560	290
CW07414	4/0	19	.420"	1.40"	.080"	1.63"	1730	330
CW07415	250MCM	37	.420"	1.47"	.110"	1.75"	2010	365
CW07416	350MCM	37	.420"	1.56"	.110"	1.85"	2420	440
CW07417	500MCM	37	.420"	1.70"	.110"	1.98"	3030	535
CW07418	750MCM	61	.420"	1.87"	.110"	2.17"	3990	655
CW07419	1000MCM	61	.420"	2.02"	.110"	2.31"	4910	755

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

**Ampacity based on 3 cables at 35kv 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 35000Volts at 133%(ungrounded) 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.