

5KV POWER CABLE SINGLE CONDUCTOR SHIELDED EPR/PVC JACKET TYPE MV-105 5KV 133% OR 8KV 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
CW07102	6	7	.115"	.45"	.060"	.68"	290	84
CW07103	4	7	.115"	.51"	.060"	.73"	360	110
CW07104	2	7	.115"	.57"	.060"	.78"	465	145
CW07105	1	19	.115"	.61"	.060"	.82"	560	175
CW07106	1/0	19	.115"	.65"	.080"	.90"	650	200
CW07107	2/0	19	.115"	.69"	.080"	.96"	758	225
CW07108	3/0	19	.115"	.74"	.080"	1.02"	910	270
CW07109	4/0	19	.115"	.80"	.080"	1.05"	1060	305
CW07110	250MCM	37	.115"	.85"	.080"	1.11"	1220	355
CW07111	350MCM	37	.115"	.95"	.080"	1.22"	1580	430
CW07112	500MCM	37	.115"	1.08"	.080"	1.35"	2120	530
CW07113	750MCM	61	.115"	1.28"	.080"	1.54"	3101	665
CW07114	1000MCM	61	.115"	1.41"	.080"	1.80"	3890	770

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

**Ampacity based on 3 cables at 5kv in isolated conduit in air, 105Deg temperature, 40Deg C ambient per NEC Table 310.60(C)(73).

APPLICATION:

Suitable as a power cable for circuits up to 5000Volts at 133%(ungrounded) insulation level or up to 8000Volts 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).