Charlotte™ Wire & Cable Company Inc.

"Taking Care of Business"

toll free: 800-929-9473

5KV POWER CABLE

THREE CONDUCTOR W/GND SHIELDED EPR O/A PVC JACKET TYPE MV-105 CT USE 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.

CABLE ASSEMBLY CONDUCTORS ARE CABLED TOGETHER WITH STRANDED COPPER GROUND WIRE IN ONE OF THE INTERSTICES, SUITABLE FILLERS WHERE NECESSARY, AND OVERALL CABLE BINDER TAPE.

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

Charlotte Wire Part#	Size AWG	Strand No.	Insulation Thickness (in.)	Ground Wire Size	Jacket Thickness (in.)	Overall Diameter (in.)	Approx. Net Wt. (Lbs/Mft)	Ampacity in **Duct
CW07130	6	7	.115"	6	.080"	1.33"	1030	95
CW07131	4	7	.115"	6	.080"	1.45"	1230	125
CW07132	2	7	.115"	6	.080"	1.55"	1560	160
CW07133	1	19	.115"	4	.080"	1.65"	1850	185
CW07134	1/0	19	.115"	4	.080"	1.74"	2090	210
CW07135	2/0	19	.115"	4	.080"	1.84"	2540	235
CW07136	3/0	19	.115"	3	.110"	1.95"	3050	270
CW07137	4/0	19	.115"	3	.110"	2.10"	3520	305
CW07138	250MCM	37	.115"	2	.110"	2.23"	4050	335
CW07139	350MCM	37	.115"	2	.110"	2.45"	5220	400
CW07140	500MCM	37	.115"	1	.110"	2.76"	7080	485
CW07141	750MCM	61	.115"	1/0	.110"	3.18"	9950	585
CW07142	1000MCM	61	.115"	2/0	.110"	3.60"	12910	660

* 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 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.
Passes UL and IEEE383 Vertical Flame Test.