

5KV POWER CABLE THREE CONDUCTOR WITH GROUND NONSHIELDED EP/PVC TYPE MV-105 5KV 100% OR 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).

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
CW07151	6	7	.115"	6	.080"	1.13"	770	84
CW07152	4	7	.115"	6	.080"	1.25"	970	110
CW07153	2	7	.115"	6	.080"	1.36"	1260	145
CW07154	1	19	.115"	4	.080"	1.47"	1520	165
CW07155	1/0	19	.115"	4	.080"	1.55"	1780	190
CW07156	2/0	19	.115"	4	.110"	1.65"	2100	220
CW07157	3/0	19	.115"	3	.110"	1.79"	2550	250
CW07158	4/0	19	.115"	3	.110"	1.92"	3140	285
CW07159	250MCM	37	.115"	3	.110"	2.06"	3650	315
CW07160	350MCM	37	.115"	2	.110"	2.28"	4790	380
CW07161	500MCM	37	.115"	1	.110"	2.55"	6490	460
CW07162	750MCM	61	.115"	1/0	.140"	3.08"	9510	570
CW07163	1000MCM	61	.115"	1/0	.140"	3.53"	12780	645

*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 2400Volts 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-96-659/NEMA WC71 for Nonshielded 2001-5KV Cables.

NEC Articles 310 & 328 for MV105 Cables Uses and Constructions.

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