



UL Type MV-105 Ampacities - Copper Conductors - Rated 5 kV, 8 kV or 15 kV



Conductor Size (AWG or kcmil)	Ampacity			
	Direct Buried (Touching)	Direct Buried (Spaced 7.5 in)	In Conduit Air (Touching)	In Cable Tray (Spaced One Cable Diameter)
	 (A)	 (A)	 (A)	 (A)
2	205	225	165	-
1	230	260	190	-
1/0	260	295	215	290
2/0	295	335	255	330
3/0	340	380	290	380
4/0	385	435	330	445
250	410	475	365	490
350	505	575	440	605
500	605	700	535	755
750	740	865	655	970
1000	830	1005	755	1160
2023 NEC Article	Article 315.60(F)	Article 315.60(F)	Article 315.60(E)	Article 392.80(B)(2)(2)
2023 NEC Table	Table 315.60(C)(19), One Circuit	Table 315.60(C)(15), One Circuit	Table 315.60(C)(7)	Table 315.60(C)(3)
Cable Configuration	2023 NEC Figure 315.60(D)(3), Detail 7	2023 NEC Figure 315.60(D)(3), Detail 9	Touching	Single Layer, Spaced One Cable Diameter
Installation Conditions	Earth Ambient = 20 deg C (68 F) Earth Thermal Resistivity = 0.90 deg C m / W Depth of Burial = 36 in	Earth Ambient = 20 deg C (68 F) Earth Thermal Resistivity = 0.90 deg C m / W Depth of Burial = 36 in	Ambient Air = 40 deg C (104 F)	Ambient Air = 40 deg C (104 F)