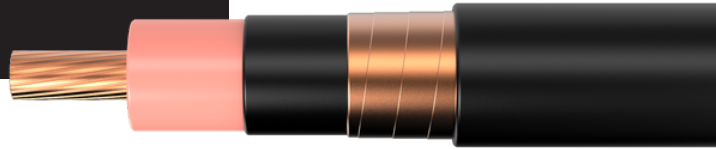




UL Type MV-105 Ampacities - Copper Conductors - Rated 5 kV to 35 kV



Conductor Size (AWG or kcmil)	Ampacity				
	Direct Buried (Touching) 5 kV to 35 kV	Direct Buried (Spaced 7.5 in) 5 kV to 35 kV	In Conduit In Air (Touching) 5 kV to 35 kV	In Cable Tray (Spaced One Cable Diameter) 5 kV to 15 kV	In Cable Tray (Spaced One Cable Diameter) 25 kV to 35 kV
	(A)	(A)	(A)	(A)	(A)
2	205	225	165	215	-
1	230	260	190	250	250
1/0	260	295	215	290	290
2/0	295	335	255	335	330
3/0	340	380	290	385	380
4/0	385	435	330	445	445
250	410	475	365	495	490
350	505	575	440	610	605
500	605	700	535	765	755
750	740	865	655	990	970
1000	830	1005	755	1185	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)	