

Table 1 – Weights & Measurements

Stock Code	Cond. Size AWG	Diameter over			Ground No. x AWG	Jacket Thickness ¹ mils	Approx. OD (9) inches	Approx. Weight lbs./MFT	Max Pull Tension lbs.	Min Bending Radius inches
		Cond. (1) inches	Insul. (3) inches	Insul. Shield inches						
643380	2	0.283	0.760	0.820	1 x 6	110	2.062	2275	1593	14.4
TBA	1	0.322	0.799	0.859	1 x 4	110	2.147	2575	2009	15.0
584041	1/0	0.362	0.839	0.899	1 x 4	110	2.233	2884	2534	15.6
TBA	2/0	0.405	0.882	0.942	1 x 4	110	2.326	3253	3194	16.3
584042	3/0	0.456	0.933	0.993	1 x 3	110	2.436	3749	4027	17.1
560251	4/0	0.512	0.989	1.049	1 x 3	110	2.557	4309	5078	17.9
TBA	250	0.558	1.044	1.104	1 x 3	110	2.676	4816	6000	18.7
563785	350	0.661	1.147	1.207	1 x 2	110	2.898	6081	8400	20.3
561232	500	0.789	1.275	1.335	1 x 1	135	3.225	8058	12000	22.6
TBA	750	0.968	1.463	1.523	1 x 0	135	3.631	11036	18000	25.4

All dimensions are nominal and subject to normal manufacturing tolerances

¹ Comply with ICEA S-93-639 Appendix C for jacket thickness determination

Table 2 – Electrical and Engineering Data

Stock Code	Cond. Size AWG	Resistance		Reactance		Positive Sequence Impedance*	Zero Sequence Impedance*	Shield Short Circuit Current 6 Cycles Amps	Allowable Ampacities 90°C/105°C	
		DC @ 25°C Ω/MFT	AC @ 90°C Ω/MFT	X _C @ 60Hz MΩ*MFT	X _L @ 60Hz Ω/MFT				In Duct † Amps	In Air ‡ Amps
643380	2	0.162	0.203	0.053	0.047	0.203 + j0.047	0.577 + j0.419	2700	150 / 160	165 / 185
TBA	1	0.129	0.161	0.049	0.045	0.162 + j0.045	0.535 + j0.401	2827	170 / 185	185 / 210
584041	1/0	0.102	0.128	0.045	0.043	0.128 + j0.043	0.499 + j0.383	2957	195 / 210	215 / 240
TBA	2/0	0.081	0.101	0.042	0.042	0.102 + j0.042	0.471 + j0.366	3097	220 / 235	245 / 275
584042	3/0	0.064	0.081	0.039	0.040	0.081 + j0.040	0.446 + j0.346	3263	250 / 270	285 / 315
560251	4/0	0.051	0.064	0.036	0.039	0.065 + j0.039	0.426 + j0.327	3445	285 / 305	325 / 360
TBA	250	0.043	0.054	0.034	0.038	0.055 + j0.038	0.411 + j0.309	3624	310 / 335	360 / 400
563785	350	0.031	0.039	0.030	0.036	0.040 + j0.036	0.386 + j0.279	3959	375 / 400	435 / 490
561232	500	0.022	0.028	0.026	0.034	0.028 + j0.034	0.362 + j0.247	4376	450 / 485	535 / 600
TBA	750	0.014	0.020	0.022	0.032	0.020 + j0.032	0.335 + j0.209	4987	545 / 585	670 / 745

* Calculations are based on 5 mil 25 % over lapping copper tape shield / Conductor temperature of 90°C / Shield temperature of 45°C / Earth resistivity of 100 ohms-meter

† Ampacities are based on TABLE 310.60(C)(79) Detail 1. of the 2014 National Electrical Code (20°C Ambient Earth Temperature, Thermal Resistance ROH of 90)

‡ Ampacities are based on TABLE 310.60(C)(71) of the 2014 National Electrical Code (40°C Ambient Air Temperature)

