

60 Hz Lighting Cable Sizing Chart

IMPORTANT - Maximum recommended cable lengths referenced are measured from Control Panel to In-water light set. To ensure proper sized cable runs AquaMaster® recommends consulting a Licensed Electrician to properly size any underground cable from the main power source to our control panel. Cable runs to the panel located away from main power source requires recalculating voltage drop to insure proper cable sizing. Please contact AquaMaster® if assistance is required.

3 Conductor				Copper Wire Gauge Size					
Watts Per Fixture	# of Fixtures	Volts	Approx Amps	#14(ft)	#12(ft)	#10(ft)	#14(m)	#12(m)	#10(m)
11	2	120	0.183	5275	8175	13650	1608	2492	4161
11	3	120	0.275	3500	5450	9075	1067	1661	2766
11	4	120	0.367	2625	4075	6800	800	1242	2073
22	2	120	0.283	3400	5275	8825	1036	1608	2690
22	3	120	0.425	2275	3525	5875	693	1074	1791
22	4	120	0.567	1700	2625	4400	518	800	1341
22	6	120	0.850	1125	1750	2925	343	533	892
22	8	120	1.133	850	1325	2200	259	404	671
22	12	120	1.700	550	875	1450	168	267	442
35	2	120	0.583	1650	2550	4275	503	777	1303
35	3	120	0.875	1100	1700	2850	335	518	869
35	4	120	1.167	825	1275	2125	251	389	648
35	6	120	1.750	550	850	1425	168	259	434
35	8	120	2.333	400	625	1050	122	191	320
35	12	120	3.500	275	425	700	84	130	213

5 Conductor				Copper Wire Gauge Size			
Watts Per Fixture	# of Fixtures	Volts	Approx Amps	#14(ft)	#10(ft)	#14(m)	#10(m)
20 RGBW	2	120	0.333	2900	7500	884	2286
20 RGBW	3	120	0.500	1925	5000	587	1524
20 RGBW	4	120	0.667	1450	3750	442	1143
40 RGBW	2	120	0.667	1450	3750	442	1143
40 RGBW	3	120	1.000	950	2500	290	762
40 RGBW	4	120	1.333	725	1875	221	572
40 RGBW	6	120	2.000	475	1250	145	381
40 RGBW	8	120	2.667	350	925	107	282
40 RGBW	12	120	4.000	225	625	69	191
Watts Per Fixture	# of Fixtures	Volts	Approx Amps	#12(ft)	#8(ft)	#12(m)	#8(m)
72 RGBW	1	120	0.500	3000	7675	914	2339
72 RGBW	2	120	1.000	1500	3825	457	1166
72 RGBW	3	120	1.500	1000	2550	305	777
72 RGBW	4	120	2.000	750	1900	229	579
72 RGBW	5	120	2.500	600	1525	183	465
72 RGBW	6	120	3.000	500	1275	152	389