

50 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	220	0.100	17725	27500	45825	5403	8382	13967
11	3	220	0.150	11825	18325	30550	3604	5585	9312
11	4	220	0.200	8850	13750	22900	2697	4191	6980
22	2	220	0.155	11425	17725	29550	3482	5403	9007
22	3	220	0.232	7625	11850	19750	2324	3612	6020
22	4	220	0.309	5725	8900	14825	1745	2713	4519
22	6	220	0.464	3825	5925	9875	1166	1806	3010
22	8	220	0.618	2850	4450	7400	869	1356	2256
22	12	220	0.927	1900	2950	4925	579	899	1501
35	2	220	0.318	5575	8625	14400	1699	2629	4389
35	3	220	0.477	3700	5750	9600	1128	1753	2926
35	4	220	0.636	2775	4325	7200	846	1318	2195
35	6	220	0.955	1850	2875	4800	564	876	1463
35	8	220	1.273	1375	2150	3600	419	655	1097
35	12	220	1.909	925	1425	2400	282	434	732

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	220	0.182	9725	25175	2964	7673
20 RGBW	3	220	0.273	6500	16775	1981	5113
20 RGBW	4	220	0.364	4875	12575	1486	3833
40 RGBW	2	220	0.364	4875	12575	1486	3833
40 RGBW	3	220	0.545	3250	8400	991	2560
40 RGBW	4	220	0.727	2425	6300	739	1920
40 RGBW	6	220	1.091	1625	4200	495	1280
40 RGBW	8	220	1.455	1200	3150	366	960
40 RGBW	12	220	2.182	800	2100	244	640