

Otterbine® MAXIMUM CABLE LENGTHS (60Hz)

Concept 3 Maximum Cable Lengths										
HP	Electrical Rating	Running Amps	12AWG / 4mm ²		10AWG / 6mm ²		8AWG / 10mm ²		6AWG / 16mm ²	
			Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
1	115V 1Ph 60Hz	14			150	45.7	250	76.2		
1	208/230V 1Ph 60Hz	8.3/7.5	300 / 375	91.4 / 114	500 / 600	152 / 183	800 / 975	244 / 297		
2	208/230V 1Ph 60Hz	13.7/12.4	175 / 225	53.3 / 68.6	300 / 375	91.4 / 114	475 / 575	145 / 175	750 / 925	229 / 282
3	208/230V 1Ph 60Hz	15.5/14			250 / 325	76.2 / 99.1	425 / 525	130 / 160	675 / 825	206 / 251
3	208/230V 3Ph 60Hz	9.7/8.6	300 / 375	91.4 / 114	500 / 625	152 / 191	800 / 975	244 / 297		
3	380V 3Ph 60Hz	4.6	1000	304.8						
3	460V 3Ph 60Hz	4.3	1000	304.8						
5	230V 1Ph 60Hz	23					300	91.44	500	152.4
5	208/230V 3Ph 60Hz	15.1/13.4	200 / 250	61 / 71.6	300 / 400	91.4 / 122	500 / 625	152 / 191		
5	380V 3Ph 60Hz	7.6	725	221	1000	304.8				
5	460V 3Ph 60Hz	7.2	925	281.9	1000	304.8				
5	575V 3Ph 60Hz	5.5	1000	304.8						

Concept 2 Maximum Cable Lengths										
HP	Electrical Rating	Running Amps	12AWG / 4mm ²		10AWG / 6mm ²		8AWG / 10mm ²		6AWG / 16mm ²	
			Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
1	115V 1Ph 60Hz	13.4			150	45.7	250	76.2		
1	208/230V 1Ph 60Hz	6.8	375 / 425	114 / 130	600 / 675	183 / 206	950 / 1000	290 / 305		
2	208/230V 1Ph 60Hz	12.3	200 / 225	61 / 68.6	325 / 375	99.1 / 114	525 / 600	160 / 183	825 / 925	251 / 282
3	208/230V 1Ph 60Hz	14.3			275 / 325	83.8 / 99.1	450 / 500	137 / 152	725 / 800	221 / 244
3	208/230V 3Ph 60Hz	8.5	350 / 375	107 / 114	550 / 625	168 / 191	900 / 1000	274 / 305		
3	380V 3Ph 60Hz	4.7	1000	304.8						
3	460V 3Ph 60Hz	4.3	1000	304.8						
5	208/230V 3Ph 60Hz	14.8	200 / 225	61 / 68.6	325 / 350	99.1 / 107	500 / 575	152 / 175		
5	380V 3Ph 60Hz	7.8	700	213.4	1000	304.8				
5	460V 3Ph 60Hz	7.4	900	274.3	1000	304.8				
5	575V 3Ph 60Hz	6	1000	304.8						

Giant Fountain Maximum Cable Lengths										
HP	Electrical Rating	Running Amps	10AWG / 6mm ²		8AWG / 10mm ²		6AWG / 16mm ²		4AWG / 25mm ²	
			Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
10	230V 1Ph 60Hz	47					250	76.2	375	114.3
10	230V 3Ph 60Hz	30			275	83.8	450	137.2	700	213.4
10	380V 3Ph 60Hz	19	450	137.2	725	221	1000	304.8		
10	460V 3Ph 60Hz	15	700	213.4	1000	304.8				
15	230V 1Ph 60Hz	67							275	83.8
15	230V 3Ph 60Hz	44					300	91.4	475	144.8
15	380V 3Ph 60Hz	28	300	91.4	500	152.4	800	243.5		
15	460V 3Ph 60Hz	22	475	144.8	775	236.2	1000	304.8		
25	230V 3Ph 60Hz	70							300	91.4
25	380V 3Ph 60Hz	45			300	91.4	500	152.4	775	236.2
25	460V 3Ph 60Hz	35			475	144.8	775	236.2	1000	304.8

Fractional Series Maximum Cable Lengths				
HP	Electrical Rating	Running Amps	12AWG / 4mm ²	
			Feet	Meters
1/2	115V 1Ph 60Hz	6	300	91.4
1/2	230V 1Ph 60Hz	3	600	182.8

IMPORTANT! Cable Lengths are based on a 5% cable voltage drop between the PCC and the motor unit. It is important to consider the total voltage drop is 5% **including** the branch circuit to the PCC.

Otterbine® MAXIMUM CABLE LENGTHS (60Hz)

LED (12VDC) Lighting Maximum Cable Lengths							
Watts	Lights per Set	Input Electrical Rating	Output Electrical Rating	16AWG / 1.5mm ²		12AWG / 4mm ²	
				Feet	Meters	Feet	Meters
6.5	2*	115V 1Ph 60Hz 0.15A	12VDC	150	46	300	91
6.5	2	115V 1Ph 60Hz 0.18A	15VDC 1.1A	650	198	1000	305
6.5	4	115V 1Ph 60Hz 0.35A	15VDC 2.2A	325	99	700	213
6.5	6	115V 1Ph 60Hz 0.53A	15VDC 3.3A	225	69	525	160
6.5	8**	115V 1Ph 60Hz 0.70A	15VDC 4.4A	325	99	700	213

High Voltage (115VAC) Lighting Maximum Cable Lengths												
Watts	Lights per Set	Input Electrical Rating	12AWG / 4mm ²		10AWG / 6mm ²		8AWG / 10mm ²		6AWG / 16mm ²		4AWG / 25mm ²	
			Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
250	2	115V 1Ph 60Hz 4.4A	325	99.1	525	160	825	251.5	1000	304.8		
250	3	115V 1Ph 60Hz 6.5A	225	68.6	350	106.7	575	175.2	900	274.3		
250	4	115V 1Ph 60Hz 8.7A	150	45.7	250	76.2	425	129.5	675	205.7		
500	3	115V 1Ph 60Hz 13.0A	100	30.5	175	53.3	275	83.8	450	137.1	700	213.4
500	4	115V 1Ph 60Hz 17.4A			125	38.1	200	61	325	99.1	525	160

!!IMPORTANT! Cable Lengths are based on a 5% cable voltage drop between the PCC and the motor unit.

It is important to consider the total voltage drop is 5% **including** the branch circuit to the PCC.

If longer cable runs are needed, contact the factory.

*Used on 1/2HP & 3/4HP units. **Requires two cable runs.

Otterbine® MAXIMUM CABLE LENGTHS (50Hz)

Concept 3 Maximum Cable Lengths										
HP	Electrical Rating	Running Amps	12AWG / 4mm ²		10AWG / 6mm ²		8AWG / 10mm ²		6AWG / 16mm ²	
			Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
1	220V 1Ph 50Hz	8.3	325	99.1	525	160	850	259.1		
2	220V 1Ph 50Hz	12.6	200	61	350	107	550	167.6		
3	220V 1Ph 50Hz	13.5			325	99.1	525	160		
3*	380/415V 3Ph 50Hz	4	1000	304.8						
5*	380/415V 3Ph 50Hz	7	775 / 850	236 / 259	1000	304.8				

Concept 2 Maximum Cable Lengths										
HP	Electrical Rating	Running Amps	12AWG / 4mm ²		10AWG / 6mm ²		8AWG / 10mm ²		6AWG / 16mm ²	
			Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
1	220-240V 1Ph 50Hz	8	350	107	550	167.6	875	266.7		
2	220-240V 1Ph 50Hz	12	225	68.6	350	107	575	175.3		
3	220-240V 1Ph 50Hz	14			300	91.4	500	152.4		
3*	380/415V 3Ph 50Hz	4.2	1000	304.8						
5*	380/415V 3Ph 50Hz	7	775 / 850	236 / 259	1000	304.8				

AFL Maximum Cable Lengths										
HP	Electrical Rating	Running Amps	10AWG / 6mm ²		8AWG / 10mm ²		6AWG / 16mm ²		4AWG / 25mm ²	
			Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
7.5*	380/415V 3Ph 50Hz	13.5	650 / 700	198 / 213	1000	304.8				
10*	380/415V 3Ph 50Hz	18.5	475 / 525	145 / 160	750 / 825	229 / 251	1000	304.8		

Giant Fountain Maximum Cable Lengths										
HP	Electrical Rating	Running Amps	10AWG / 6mm ²		8AWG / 10mm ²		6AWG / 16mm ²		4AWG / 25mm ²	
			Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
10	380/415V 3Ph 50Hz	16	550 / 600	168 / 182.8	850 / 950	259 / 290	1000	304.8		
15	380/415V 3Ph 50Hz	24	350 / 400	107 / 122	575 / 625	175 / 191	900 / 1000	274 / 304.8		
25	380/415V 3Ph 50Hz	40			350 / 375	107 / 114	550 / 600	168 / 183	850 / 950	259 / 290

Fractional Series Maximum Cable Lengths				
HP	Electrical Rating	Running Amps	12AWG / 4mm ²	
			Feet	Meters
1/2	220V 1Ph 50Hz	2.8	600	182.8

LED (12VDC) Lighting Maximum Cable Lengths							
Watts	Lights per Set	Input Electrical Rating	Output Electrical Rating	16AWG / 1.5mm ²		12AWG / 4mm ²	
				Feet	Meters	Feet	Meters
6.5	2*	220V 1Ph 50Hz 0.08A	12VDC	150	46	300	91
6.5	2	220V 1Ph 50Hz 0.09A	15VDC 1.1A	650	198	1000	305
6.5	4	220V 1Ph 50Hz 0.18A	15VDC 2.2A	325	99	700	213
6.5	6	220V 1Ph 50Hz 0.23A	15VDC 3.3A	225	69	525	160
6.5	8**	220V 1Ph 50Hz 0.35A	15VDC 4.4A	325	99	700	213

IMPORTANT! Cable Lengths are based on a 5% cable voltage drop between the PCC and the motor unit. It is important to consider the total voltage drop is 5% **including** the branch circuit to the PCC.

If longer cable runs are needed, contact the factory.
 *Used on 1/2HP & 3/4HP unit. **Requires two cable runs.