

# APPENDIX 1

## CABLE SELECTION GUIDE FOR AQUAVERN SUBMERSIBLE PUMP CABLE

Motor Rating		Metric Cable Size										Maximum Length in metres
	H.P.	kW	1.5mm <sup>2</sup>	2.5mm <sup>2</sup>	4mm <sup>2</sup>	6mm <sup>2</sup>	10mm <sup>2</sup>	16mm <sup>2</sup>	25mm <sup>2</sup>	35mm <sup>2</sup>		
220 Volts 50 Hz	0.33	0.25	170	280	450	670	1130	1750	2640	3590		
	0.50	0.37	120	200	320	480	810	1260	1900	2590		
	0.75	0.55	80	130	220	320	550	850	1290	1760		
	1.00	0.75	60	100	170	250	430	670	1010	1380		
	1.50	1.1	40	70	120	180	300	470	710	980		
	2.00	1.5	30	60	90	130	230	360	550	760		
	3.00	2.2	20	40	60	90	150	230	350	490		

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380 Volts 50 Hz	0.50	0.37	810	1350	2160	3240	5500	8530	-	-	-	
	0.75	0.55	550	920	1480	2230	3780	5860	8890	-	-	
	1.00	0.75	410	680	1090	1640	2780	4330	6570	9010	-	
	1.50	1.1	300	500	810	1210	2060	3200	4850	6640	9220	
	2.00	1.5	220	370	590	880	1500	2340	3560	4890	6830	
	3.00	2.2	150	250	400	600	1030	1600	2440	3350	4680	
	5.00	3.7	90	150	240	370	630	980	1490	2050	2870	
	7.50	5.5	60	110	170	260	440	690	1060	1450	2030	
	10.0	7.5	50	80	130	200	340	530	810	1110	1560	
	15.0	11.0	-	50	90	130	230	360	550	750	1060	
	20.0	15.0	-	-	70	100	170	270	410	570	800	
	25.0	18.5	-	-	-	80	140	210	330	450	630	
	30.0	22.0	-	-	-	70	120	180	280	380	540	
	40.0	30.0	-	-	-	-	90	130	210	280	400	
	50.0	37.0	-	-	-	-	-	110	170	230	320	

The above tables indicate the maximum length of cable that can be utilised from the power source to the electrical motor. Exceeding these lengths will void warranty.

### A Typical Submersible Pump Installation

