

## Cable selection

### 3"WPS®-CP

#### Submersible drop cable to the motor (three phase)

The table below shows the maximum length of the submersible drop cable between the controller and the motor for the different cable sizes and motor powers.

The cross-sections of the cable are calculated according to a 3% voltage drop (IEC 60364:2001).

The pump will cut out if the supply voltage falls below 185 V.

Pump Type	P <sub>2</sub> [kW]	In [A]	Maximum cable length [m]. Cable section AWG/mm <sup>2</sup>								
			14 AWG			12 AWG		10 AWG		8 AWG	
			1,5	2,1	2,5	3,3	4	5,3	6	8,4	10
3"WPS®-CP 1-40	0,44	2,7	125	175	209	276	334	443	501	701	835
3"WPS®-CP 1-50	0,58	3,1	109	153	182	240	291	385	436	611	727
3"WPS®-CP 1-65	0,73	4,1	82	115	137	181	220	291	330	462	550
3"WPS®-CP 1-75	0,87	4,6	74	103	123	162	196	260	294	412	490
3"WPS®-CP 1-90	1,02	6,1	55	78	92	122	148	196	222	310	370
3"WPS®-CP 1-100	1,16	6,3	54	75	89	118	143	190	215	301	358
3"WPS®-CP 1-110	1,31	6,5	52	73	87	114	139	184	208	291	347
3"WPS®-CP 1-125	1,45	6,9	49	69	82	108	131	173	196	274	327
3"WPS®-CP 2-25	0,37	2,5	135	189	225	298	361	478	541	757	902
3"WPS®-CP 2-40	0,56	3,1	109	153	182	240	291	385	436	611	727
3"WPS®-CP 2-50	0,74	4,2	81	113	134	177	215	284	322	451	537
3"WPS®-CP 2-65	0,90	4,7	72	101	120	158	192	254	288	403	480
3"WPS®-CP 2-75	1,11	6,0	56	79	94	124	150	199	225	316	376
3"WPS®-CP 2-90	1,29	6,9	49	69	82	108	131	173	196	274	327
3"WPS®-CP 2-100	1,48	7,3	46	65	77	102	124	164	185	259	309
3"WPS®-CP 3-30	0,58	2,8	121	169	201	266	322	427	483	676	805
3"WPS®-CP 3-45	0,87	4,1	82	115	137	181	220	291	330	462	550
3"WPS®-CP 3-65	1,16	5,5	61	86	102	135	164	217	246	344	410
3"WPS®-CP 3-80	1,45	6,6	51	72	85	113	137	181	205	287	342
3"WPS®-CP 5-20	0,45	2,8	121	169	201	266	322	427	483	676	805
3"WPS®-CP 5-35	0,90	4,7	72	101	120	158	192	254	288	403	480
3"WPS®-CP 5-55	1,35	7,4	46	64	76	101	122	161	183	256	305

In case the total length of the electrical power cable between controller and motor exceeds 100m, an extra filter to protect the motor from burning is required. See accessories.

#### Supply cable to the controller (single phase)

In case you want a longer electrical cable, you must check the cable section following the table below. Maximal cable length for specific cable sections:

Motor Size	1,5 mm <sup>2</sup>	2,5 mm <sup>2</sup>	4 mm <sup>2</sup>	6 mm <sup>2</sup>
600 W	70 m	120 m	180 m	270 m
900 W	50 m	80 m	125 m	190 m
1500 W	35 m	60 m	90 m	140 m