

Cable selection for 4"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 ₂ [kW]	In [A]	Maximum cable length [m]								
			Cable section AWG/mm ²								
			1,5	2,1	2,5	3,3	4	5,3	6	8,4	10
4" WPS®-CP 2-60	1,1	4,4	88	124	147	194	236	312	354	495	589
4" WPS®-CP 2-90	1,5	6,9	56	79	94	124	150	199	225	316	376
4" WPS®-CP 2-120	2	8,5	46	64	76	101	122	162	183	256	305
4" WPS®-CP 4-45	1,1	4,6	85	118	141	186	225	299	338	473	564
4" WPS®-CP 4-60	1,5	6,4	61	85	101	134	162	215	243	340	405
4" WPS®-CP 4-85	2	8,8	44	62	74	97	118	156	177	247	295
4" WPS®-CP 6-35	1,1	5,4	72	101	120	158	192	254	288	403	480
4" WPS®-CP 6-50	1,5	7,5	52	73	86	114	138	183	207	290	346
4" WPS®-CP 6-65	2	9,1	43	60	71	94	114	151	171	239	285

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)

Motor Size	1,5 mm ²	2,5 mm ²	4 mm ²	6 mm ²
1100 W	50 m	80 m	130 m	190 m
1500 W	35 m	60 m	90 m	140 m
2000 W	25 m	45 m	70 m	100 m

Submersible drop cable to the motor (drinking water quality)

4-core submersible cable including earth conductor (three phase motor). This blue cable is approved for drinking water applications (KTW approval). When ordering please state length [m]



Description	Cross Section of leads	Reference
Submersible cable 4G1,5	1,5 mm ²	9105
Submersible cable 4G2,5	2,5 mm ²	9106
Submersible cable 4G4	4 mm ²	9107
Submersible cable 4G6	6 mm ²	9108
Submersible cable 4G10	10 mm ²	9109
Submersible cable 4G16	16 mm ²	9110