Cable Selection Chart

Submersible Pumpset Cable Selection Chart for 230V - Single Phase - 50Hz

	Length in Metres																			
HP	**10**	**20**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**	**120**	**140**	**160**	**180**	**200**	**250**	**300**	**350**	**400**	**450**	**500**
0.50	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0
1.00	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0
1.50	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0
2.00	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0
3.00	2.5	2.5	2.5	2.5	4.0	4.0	6.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0
4.00	2.5	2.5	2.5	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0	16.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0	35.0
5.00	2.5	2.5	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0	50.0	50.0	50.0

For other Voltages the cable size is to be selected as follows :

$$\text{Calculated length} = \frac{230}{\text{actual voltage}} \times \text{actual length}$$

Submersible Pumpset Cable Selection Chart for 415V - Three Phase - 50Hz

	Length in Metres																			
HP	**10**	**20**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**	**120**	**140**	**160**	**180**	**200**	**250**	**300**	**350**	**400**	**450**	**500**
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0
2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	4.0
3.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0
4.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0
5.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0
6.0	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0
7.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0
10.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0
12.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0
15.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	16.0
17.5	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0
20.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.0	10.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0
25.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0	35.0
30.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0
40.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0	35.0	35.0	50.0	50.0
50.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	25.0	25.0	35.0	35.0	50.0	50.0	50.0	70.0
60.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	35.0	35.0	50.0	50.0	50.0	70.0	70.0
70.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	35.0	50.0	50.0	50.0	70.0	70.0	70.0
80.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	50.0	50.0	70.0	70.0	95.0	95.0

Note : (1) HP 7.5 and above are STAR/DELTA motors.
(2) For STAR DELTA Starting reduce current by $1\sqrt{3}$ for selecting suitable cable.

For other Voltages the cable size is to be selected as follows :

$$\text{Calculated length} = \frac{415}{\text{a ctual voltage}} \times \text{actual length}$$