



sabar

Trusted Around the World

SUBMERSIBLE CABLES



YEARS OF
EXCELLENCE
1975 - 2025



PVC / Rubber - 3 Core / 4 Core Flat & Round Submersible Cable :

- Multicore cables designed for compatibility with Submersible, Monoblock, Sewage pumps, and Motors.
- PVC insulation and sheathing compliant with HD 21, IEC 60227, BS 6500, DIN VDE 0281, IS 694 and Rv-K standards.
- Rubber insulation and sheathing conforming to HD 22.1, DIN VDE 0282, IEC 60245, BS 6007, BS 6899 and HO7RN-F specifications.
- Super High Conductive Uniformly Bunched Class 5 Copper as per IEC 60228, DIN VDE 0295, IS 8130 & BS 6360.

Technical Specification for PVC / Rubber Flexible Cables Voltage Grade Up to 1100V

Area	Approximate No. & Size of Wire	Thickness of Insulation	Thickness of Sheath	Current Carrying Capacity	Conductor Resistance @ 20 °C
SQ. MM	MM	MM	MM	AMPS@40 °C	Ohms/Km
1.5	22/0.3	0.60	0.90	15	12.100
2.5	36/0.3	0.70	1.00	20	7.410
4.0	56/0.3	0.80	1.00	25	4.610
6.0	84/0.3	0.80	1.10	32	3.080
10.0	141/0.3	1.00	1.40	45	1.830
16.0	226/0.3	1.00	1.40	57	1.150
25.0	354/0.3	1.20	2.00	72	0.724
35.0	495/0.3	1.20	2.00	90	0.524
50.0	703/0.3	1.40	2.20	115	0.387
70.0	999/0.3	1.40	2.20	143	0.268
95.0	1332/0.3	1.60	2.40	165	0.193

No. & Size of Wire are for reference only, Conductor Resistance has to be taken as final acceptance parameter of cable as per standards.

HP vs. Current: Full load current ratings for 3-phase, 50 Hz, 420V submersible pumps.

HP	5.0	7.5	10.0	12.5	15.5	17.5	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0
Amp	7.5	11.0	14.9	18.9	22.5	25.2	28.4	35.6	42.3	50.4	58.1	62.1	67.5	73.8	81.0	87.3	93.6	101	108

Multiply Current Carrying capacity by factors given below for various ambient temperatures.

Ambient Temperature °C	30°	35°	40°	45°	50°
Rating Factor	1.09	1.04	1.00	0.95	0.77

Safety Guidelines :

- ⚡ Always uncoil submersible cables fully before use to prevent overheating.
- ⚡ Ensure secure and proper cable connections to avoid failures or short circuits.
- ⚡ Take care when installing cables in borewells to prevent damage to the sheathing.
- ⚡ Ensure Storage of cables properly to avoid physical damage.
- ⚡ Replace cables with damaged insulation immediately to ensure safety.

