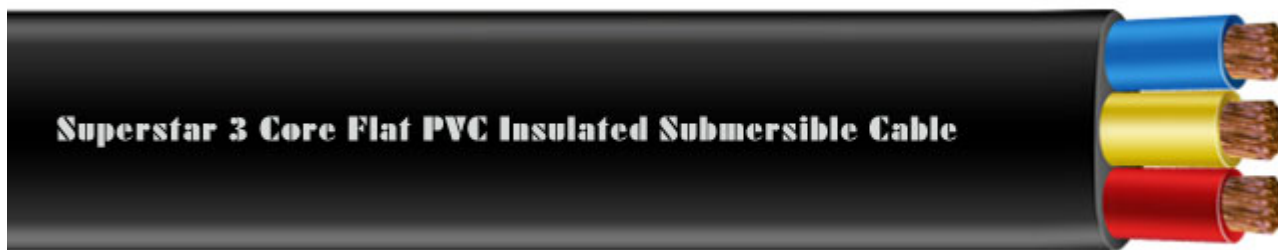


# SUPERSTAR Submersible Cable To IS 694 /1990



## Technical data

- Three Core Cable for Submersible Pumpsets with PVC Insulation as per Type A of IS 5831/1984 & Sheathing as per ST I Type of IS 5831/1984.
- **Conductor resistance**  
In accordance to IS: 8130/84.
- **Conductor resistance factor**  
at +20° C – see technical information
- **Admissible working temperature**
- At the conductor  
PVC Type A & ST 1 +70° C  
H.R. Grade ST 2 + 90° C
- **Working voltage upto 1100 V**

## Cable structure

- Plain Copper conductor extra fine stranded & bunched in accordance to IS 8130/1984 for higher flexibility.
- Each of the cores are insulated with PVC Compound for better insulation resistance against water and moisture.
- Cores are laid in flat parallel manner and sheathed for highest performance in severe & difficult conditions.
- Marking of brand name, cross-section ISI License No. & Logo on each mtr.
- Testing of cable carried out as per IS 694/90 at our In House facility.

## Application

- PVC insulated & sheathed flexible Three Core Flat cables are used to connect underwater Submersible Pumpsets with supply line.
- Agriculture, Irrigation, Domestic Installation, Outdoor application & Power Supply.
- The outer sheath of the cable being made of special grade Abrasion resistant PVC makes it impervious to water, grease, oil, etc making cables highly durable

### Plain Copper Conductor, PVC Insulated and Sheathed Three Core Flat Cable Voltage Grade Upto 1100V

Conductor		Unsheathed		Sheathed				
Area	No. & Size of Wire	Thickness of Insulation	Overall Diameter	Thickness of Sheath	Overall Parameter Nominal W x T MM x MM	Current Carrying Capacity AMPS	H.P.	Conductor Resistance @20° C Ohms/Km
SQ.MM	MM	MM	MM	MM				
1.5	22/0.3	0.60	3.10	0.90	11.5 x 5.4	15	5	12.100
2.5	36/0.3	0.70	3.70	1.00	14.0 x 6.4	20	7.5	7.410
4.0	56/0.3	0.80	4.60	1.10	16.5 x 7.2	25	15	4.610
6.0	85/0.3	0.80	5.20	1.10	18.0 x 8.0	32	20	3.080
10.0	141/0.3	1.00	6.50	1.20	22.5 x 9.6	45	30	1.830
16.0	226/0.3	1.00	8.00	1.30	26.5 x 11.0	57	40	1.150
25.0	354/0.3	1.20	10.00	1.50	32.5 x 13.5	72	50	0.724
35.0	495/0.3	1.20	11.20	1.60	36.0 x 15.0	90	65	0.524
50.0	703/0.3	1.40	12.50	1.70	41.5 x 17.0	115	75	0.387
70.0	999/0.3	1.60	15.20	1.90	50.5 x 19.8	143	95	0.272
95.0	1302/0.3	1.80	18.00	2.00	59.0 x 22.5	165	110	0.206

### HP Vs Current : The full load current for submersible pumps, 3 phase, 50 cycles, 420V

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

### Safety Requirements

1. Coiled Submersible cable must always be spread out before using to avoid overheating in use.
2. Ensure proper joining of the cable in order to avoid failure and short circuit.
3. Proper care should be taken while inserting the cable in the borewell to avoid slicing of the sheathing.
4. Kindly ensure proper storage of the cables in order to avoid physical damage.
4. Cables with damaged insulation must be replaced immediately.

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