

SUPERSTAR Submersible Cable PVC-NBR Insulated



Technical data

- Three Core Cable for Submersible Pumpsets with PVC - NBR Insulation and Sheathing for higher abrasion & temperature resistance with H.O.F.R.
- **Conductor resistance**
In accordance to IS: 8130/84.
- **Conductor resistance factor**
at +20° C – see technical information
- **Admissible working temperature**
- At the conductor
PVC - NBR +110° C
H.O.F.R. Grade + 110° 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 - NBR Compound for higher abrasion against heat, oil & fire.
- Cores are laid in flat parallel manner and sheathed for highest performance in severe & difficult conditions.
- Marking of brand name, cross-section & Logo on each mtr.
- Testing of cable carried out as per IS 694/90 at our In House facility.

Application

- PVC - NBR insulated & sheathed flexible Three Core Flat/Round are used to connect underwater Submersible Pumpsets to the supply line.
- Agriculture, Irrigation, Domestic Installation, Outdoor application & Power Supply.
- The outer sheath of the cable being made of special grade Heat Oil Fire Retardant PVC - NBR Compound making the cables highly durable.

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

Conductor		Unsheathed		Sheathed			
Area	No. & Size of Wire	Thickness of Insulation	Overall Diameter	Thickness of Sheath	Current Carrying Capacity	H.P.	Conductor Resistance @20° C
SQ.MM	MM	MM	MM	MM	AMPS		Ohms/Km
1.5	22/0.3	0.60	3.10	1.20	17	6	12.100
2.5	36/0.3	0.70	3.70	1.30	23	7	7.410
4.0	56/0.3	0.80	4.60	1.50	28	16	4.610
6.0	85/0.3	0.80	5.20	1.50	36	22	3.080
10.0	141/0.3	1.00	6.50	1.60	48	32	1.830
16.0	226/0.3	1.00	8.00	1.60	62	43	1.150
25.0	354/0.3	1.20	10.00	1.70	77	55	0.724
35.0	495/0.3	1.20	11.20	1.80	98	67	0.524
50.0	703/0.3	1.40	12.50	1.90	127	78	0.387
70.0	999/0.3	1.60	15.20	2.00	155	99	0.272
95.0	1302/0.3	1.80	18.00	2.00	177	120	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 PVC-NBR 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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