SHANTI CABLES

wire manufacturing

Submersible Cables

ABOUT US

SHANTI CABLES located at Hyderabad began its journey in 2010 with a definite purpose – to offer safe and customer-friendly submersiblewires that would give complete peace of mind to the customers. Over the years, many more things have evolved
the most notable among them has been the emergence of our brand surely a force to be reckoned with in contemporary submersible cables.

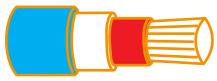
Today, SHANTI CABLES is one of India's largest and fastest growing cable companies. Encouraged by the market response for quality products, our group has been constantly upgrading its production facility by undertaking expansion-cum-modernizing plans from time to time.

SHANTI CABLES is one of the fastest-growing groups with a clear vision to "Bring the Best" by not losing focus on the challenges the new economics order the world over poses for growing companies.

SUBMERSIBLE CABLES

Features

Double Layer Insulation for better safety



99.97% pure copper

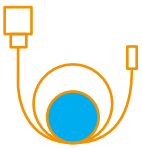
High conductivity of copper (102% IACS)

100% Bunched conductor

High discoloration resistance capacity of copper conductors

Smooth surface and hence increased easiness to be pulled easily in pipes during installation

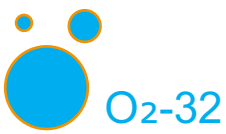
High ageing property of PVC insulation



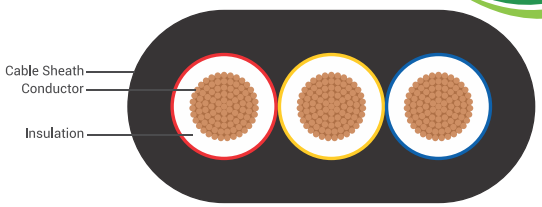
Better flexibility for easy wiring

High Temperature Resistance

High oxygen index value



PVC/PVC SUBMERSIBLE FLAT CABLE



Tough & Flexible submersible pump cables specially designed to supply power to submersible borehole pumps in a deep borewell.

Loaded with exclusive features of Safety, Power Savings and Long-term Reliability, they are the best performing submersible pump cables on the market today. Tested for toughness and performance, the insulation & jacket will stand up to even the most aggressive wet conditions. Our finely stranded copper conductor has better flexibility and

Variants Available

Product Type	Specifications
PVC 70°C	IS 694, IS 8130 Class 2(1.5 & 2.5 Sq. mm), for others class 5, IS 5831 Type A insulation & ST-1 sheath.
HR 85°C	IS 694, IS 8130 Class 2(1.5 & 2.5 Sq. mm), for others class 5, IS 5831 Type C insulation & ST-2 sheath.

Cable Design Parameters:

Kindly complete the part numbers for these cables by adding the suffix (in place of 'y') for the cable type
1 – PVC 70°C, 3 - PVC HR 85°C.

Nominal Cross Sectional Area (Sq. mm)	No of Strands / Max. strand dia. (mm)	Nom. Insulation Thickness (mm)	Nominal Sheath Thickness (mm)	Maximum Overall Dimension (W x H) (mm x mm)
0.5	16/0.2	0.6	0.9	9.6 X 4.9
0.75	24/0.2	0.6	0.9	10.5 X 5.2
1	32/0.2	0.6	0.9	11.0 X 5.4
1.5*	22/0.3	0.6	0.9	12.0 X 5.6
2.5*	36/0.3	0.7	1.0	13.0 X 6.2
4	56/0.30	0.8	1.0	15.3 X 7.1
6	84/0.30	0.8	1.1	19.2 X 8.4

Nominal Cross Sectional Area (Sq. mm)	No of Strands / Max. strand dia. (mm)	Nom. Insulation Thickness (mm)	Nominal Sheath Thickness (mm)	Maximum Overall Dimension (W x H) (mm x mm)
10	140/0.30	1.0	1.4	24.2 X 10.4
16	126/0.40	1.0	1.4	29.0 X 12.4
25	196/0.40	1.2	2.0	36.5 X 15.7
35	276/0.40	1.2	2.0	40.5 X 17.2
50	396/0.40	1.4	2.2	46.5 X 19.3
70	360/0.50	1.4	2.2	52.0 X 21.0
95	480/0.50	1.6	2.4	61.0 X 24.5

*Conductor configuration offered for 1.5 Sq. mm - 22 / 0.3 mm, 2.5 Sq. mm - 36 / 0.3 mm (max.), class 2 as per IS 8130.

Current rating & voltage drop for PVC/PVC sheathed multicore cables as per IS 694.

Nominal Cross-Section Area of Conductor (mm^2)	2 Core & 3 Core Cable for Single Phase AC/DC		3 Core & 4 Core Cable for Three Phase AC	
	Max. Current Capacity (A)	Voltage Drop (mV/A/m)	Max. Current Capacity (A)	Voltage Drop (mV/A/m)
0.5	5	83	4	72
0.75	8	56	7	48
1	13	40	12	35
1.5*	17	27	16	23
2.5*	24	16	22	14
4	30	10	28	8.8
6	38	6.8	36	5.9
10	52	4	48	3.5
16	70	2.6	64	2.2
25	88	1.6	80	1.4
35	112	1.2	100	1.0
50	146	0.97	130	0.84
70	216	0.7	192	0.62
95	262	0.59	230	0.48

Note:
* Conductor class 2 as per IS 8130

Current rating conversion factor for deviating ambient temperature (IS 694).

Multiply the current carrying capacity of the cable by the factors given below for various ambient temperature.

Ambient Temperature (°C)	Derating Factor
30	1.09
40	1.00
45	0.78
50	0.70
55	0.60
60	0.48

Note: For DC resistance, refer technical information table.

Application

IRRIGATION

INDUSTRIES

WATER SUPPLY

CONSTRUCTION

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