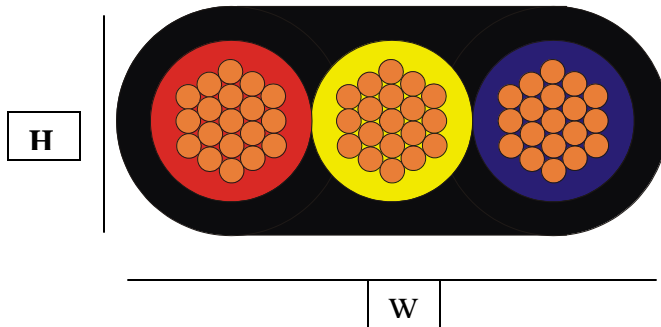


FLAT CABLES FOR SUBMERSIBLE PUMPS

XXXXXX's 3 core flat cables have been designed and manufactured to take care of conditions in which they are required to render long and trouble free service. The individual conductors are made from electrolytic copper drawn, bright annealed and **bunched in geometrical formation** to ensure flexibility and uniform insulation. Conductors are insulated with specially formulated PVC and three such insulated conductors in Red, Yellow and Blue colors are laid parallel and sheathed with special grade of PVC. These cables are supplied with sequential meter marking along with other related details.



3 Core Flat Cables as per IS 694: 1990 with ISI mark								
Conductor		Insulation	Sheath	Overall Dimensions		Conductor Resistance @ 20° C (max) Ohms/km.	Current Carrying Capacity @ 40° C Amps	Note: The strand diameter is nominal. However, construction of conductor is designed to satisfy the requirements of conductor resistance as per IS 8130: 1984 <ul style="list-style-type: none"> • *As per Conductor Class 2 of IS 8130: 1984 • ** As per Conductor Class 5 of IS 8130: 1984
Area Sq. mm.	No./Dia. of strands mm	Thickness (Nom) Mm	Thickness (Nom) mm	Width (Approx) 'W' mm	Height (Approx) 'H' mm			
1.5	19/ .31*	0.6	0.9	10.6	4.95	12.10	14	
2.5	37/ .284*	0.7	1.0	12.7	5.9	7.41	18	
4.0	61/ .274**	0.8	1.0	14.9	6.6	4.95	26	

3 Core Flat Cables generally conforming to IS 694: 1990								
Conductor		Insulation	Sheath	Overall Dimensions		Conductor Resistance @ 20° C (max) Ohms/km.	Current Carrying Capacity @ 40° C Amps	Note: The strand diameter is nominal. However, construction of conductor is designed to satisfy the requirements of conductor resistance as per IS 8130: 1984 Class 5 Conductor
Area Sq. mm.	No./Dia. of strands mm	Thickness (Nom) mm	Thickness (Nom) mm	Width (Approx) 'W' mm	Height (Approx) 'H' mm			
6.0	91 / .274	1.0	1.15	18.3	7.7	3.3	31	
10.0	91 / .36	1.0	1.4	23.2	9.7	1.91	42	
16.0	144 / .36	1.0	1.4	27.4	11.2	1.21	57	
25.0	259 / .335	1.2	1.5	33.3	13.4	.780	72	
35.0	427 / .31	1.2	1.6	37.6	15.0	.554	90	
50.0	370 / .4	1.4	1.7	44.9	17.6	.386	115	

HP Vs Current: Full load current for 3 phase, 50 Hz, 415V 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
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	100.8