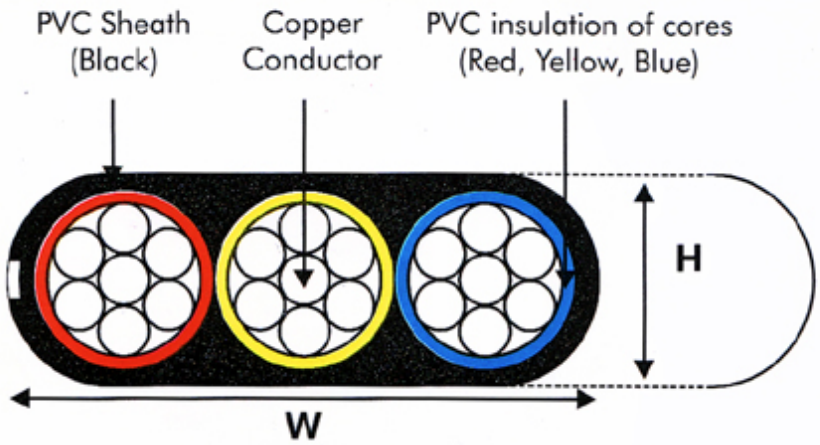
Technical Data



Note :

The strand diameter is nominal however, construction of conductor is design to satisfy the requirements of conductor resistance as per IS:8130:1984.

* As per conductor class 2 of IS:8130:1984

** As per conductor class 5 of IS:8130:1984

3 Core Flat Cables as per IS:694:1990 with ISI mark

Conductor		Insulation		Sheath Overall Dimensions			Conductor Resistance @20C (max.) ohms / km.	Current Carrying Capacity @ 40°C (Amp.)
Area (Nom.) Sq. mm.	No. /size of Wires mm	Thickness (Nom) mm.	Core Dia. (Nom) mm.	Thickness (Nom) mm.	Width 'W' mm	Thickness 'T' mm		
1.5	22/0.3	0.8	3.25	1.15	12.5	5.8	12.10	14
2.5	36/0.3	0.9	3.90	1.15	14.4	6.3	7.41	18
4.0	56/0.3	1.0	4.65	1.15	17.2	7.4	4.95	26

3 Core Flat Cables generally conforming to IS:694:1990

Conductor		Insulation		Sheath Overall Dimensions			Conductor Resistance @20C (max.) ohms / km.	Current Carrying Capacity @ 40°C (Amp.)
Area (Nom.) Sq. mm.	No. /size of Wires mm	Thickness (Nom) mm.	Core Dia. (Nom) mm.	Thickness (Nom) mm.	Width 'W' mm	Thickness 'T' mm		
6.0	84/0.3	1.0	5.20	1.15	18.7	7.9	3.30	31
10.0	140/0.3	1.0	6.60	1.40	23.7	9.9	1.91	42
16.0	226/0.3	1.0	8.20	1.40	28.0	11.4	1.21	57

Selection Guide For 3 Core Flat Cables

1} HP Vs Current

The full load current for submersible pump motors, 3 phase, 50 cycles, 415 ~ 425 V.

Hp	5.0	7.5	10.0	12.5	15.0	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	100.80	108.0

2} Derating Factors

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

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