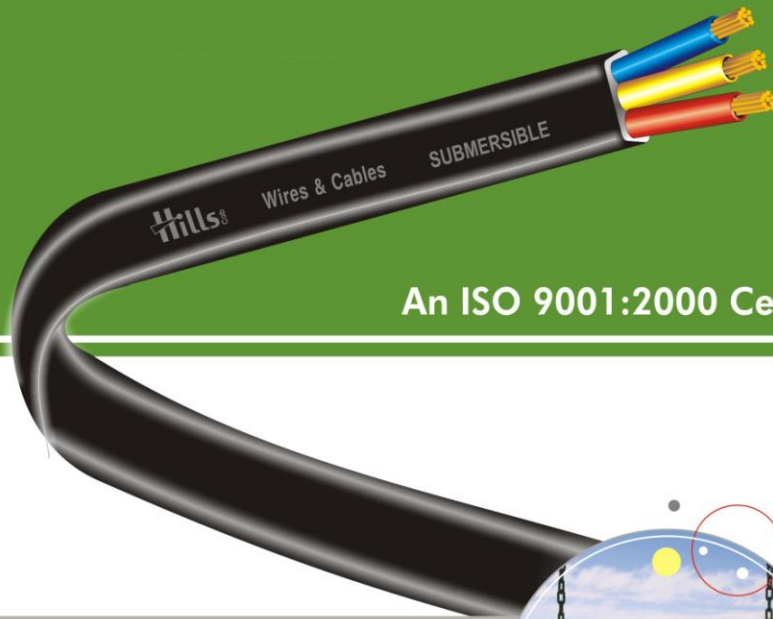


3-CORE FLAT CABLES



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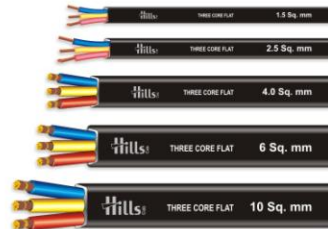


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Meets additional requirements of international standards



# 3-CORE FLAT CABLES

## Description & Features of Submersible Wire:

General-purpose, flat submersible pump cable. Copper stranding covered with a tough PVC insulation applied directly over the conductors. A thin, integral web between conductors assures easy separation to facilitate installation, yet provide flexibility and mechanical protection.

- UL listed as Type THW Submersible Pump cable
- Oil and grease resistant
- Abrasion resistant
- Sequential footage marks

## Applications for Submersible Pump Wire:

- For use within the well casing to supply power to the submersible pump wire through submersible flat cable
- Designed for use where flexibility during installation and operation are required

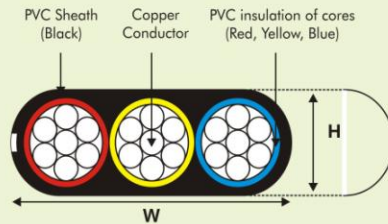
## Construction:

Conductors: Stranded soft annealed copper Insulation/Assembly: Copper conductors, including the grounding conductor, are configured flat and parallel. Yellow thermoplastic polyvinyl chloride (PVC) is applied directly over the conductors with a thin integral web between adjacent conductors. Conductors are phase identified.

Temperature: 75°C Voltage: 600 Volts



### 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 @20°C (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	16.0	7.0	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 (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

All information given herein is in good faith. Hills Cab shall not be liable for any damages arising out of incorrect uses or interpretation. The company reserves the right to change any of the above specification without any prior notice.

website : [www.hillscabworld.com](http://www.hillscabworld.com)  
email : [coustomercare@hillscab.com](mailto:coustomercare@hillscab.com)