



# हर कदम, हर डगर किसानों का हमसफर

## EMINENT™

### PVC / XLPE Insulated Submersible Flat Cables

#### Application

- Flexible Three core flat cables are used to connect underwater submersible pumpsets with supply line.
- Agriculture, Irrigation, Domestic installation, Outdoor application & Power supply.
- The outer sheath of cable being made of special grade Abrasion resistant PVC makes it impervious to water, grease, oil etc making cables highly durable.

#### 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/XLPE Compound for better insulation resistance against water and moisture.
- Cores are laid in flat parallel manner and sheathed for highest performance in sever & difficult conditions.
- Marking of brand name, cross-section IS License No. & Logo oneach mtr.
- Testing of cable carried out as per IS 694/10 at our In House facility



EMINENT™ Classic



EMINENT™ Power



EMINENT™ Ultra Flex



EMINENT™ Aqua



"Tailor made cable solutions"

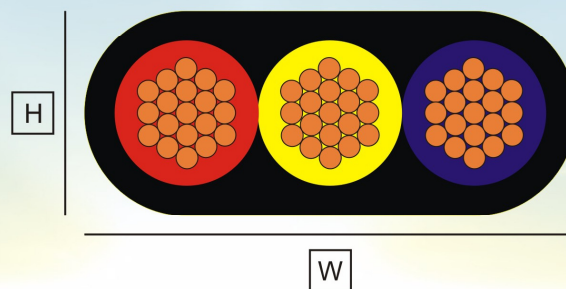
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## FLAT CABLES FOR SUBMERSIBLE PUMPS

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: 2010 with ISI mark |                        |                    |                    |                       |                        |   |  | <b>Note:</b><br>The strand diameter is nominal. However, construction of conductor is designed to satisfy the requirements of conductor resistance as per IS 8130: 1984<br><br>□ As per Conductor Class 5 of IS 8130: 1984 |
|--|------------------------|--------------------|--------------------|-----------------------|------------------------|---|--|--|
| Conductor  |                        | Insulation         | Sheath             | Overall Dimensions    |                        | Conductor Resistance @ 20° C (max) Ohms/km. | Current Carrying Capacity @ 40° C Amps |  |
| Area Sq. mm.   | No./Dia. of strands mm | Thickness (Nom) mm | Thickness (Nom) mm | Width (Approx) 'W' mm | Height (Approx) 'H' mm |   |  |  |
| 1.0  | 32 / 0.20              | 0.6                | 0.9                | 9.85                  | 4.55                   | 19.5  | 12                                     |  |
| 1.5  | 28 / 0.26              | 0.6                | 0.9                | 10.6                  | 4.95                   | 12.10                                       | 14                                     |  |
| 2.5  | 47 / 0.26              | 0.7                | 1.0                | 12.7                  | 5.9                    | 7.41  | 18                                     |  |
| 4.0  | 61 / 0.288             | 0.8                | 1.0                | 14.9                  | 6.6                    | 4.95  | 26                                     |  |
| 6.0  | 91 / 0.288             | 1.0                | 1.15               | 18.3                  | 7.7                    | 3.3   | 31                                     |  |
| 10.0   | 91 / 0.376             | 1.0                | 1.4                | 23.2                  | 9.7                    | 1.91  | 42                                     |  |
| 16.0   | 144 / 0.376            | 1.0                | 1.4                | 27.4                  | 11.2                   | 1.21  | 57                                     |  |
| 25.0   | 196 / 0.4              | 1.2                | 1.5                | 33.3                  | 13.4                   | .780  | 72                                     |  |
| 35.0   | 276 / 0.4              | 1.2                | 1.6                | 37.6                  | 15.0                   | .554  | 90                                     |  |
| 50.0   | 396 / 0.4              | 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 |