VIMAL

PVC Insulated Winding Wires

An IS/ISO 9001 Company

ISO 9001 REGISTERED
DNV
DNV Certification B.V., The Netherlands
MGMT SYS
RVA C 024

PVC INSULATED WINDING WIRES

Manufactured at the modern, well-equipped plant, Vimal winding wires are insulated with a very superior grade of HR PVC compound formulated and manufactured in house. to give it the necessary electrical strength and resistance to abrasion.

The copper conductor of required purity and conductivity is dawn and in line annealed in world-class wire drawing machine. The automatic on-line controls in our extrusion process consistently give high quality to Vimal winding wires.

Table 1 :- HR PVC Insulated winding wires as per IS : 8783 (Part 4/ sec 1): 1995 (Solid Copper Conductor)

Nom. Conductor Diameter (mm.)	Nom. Cross-Sectional Area (sq. mm.)	Min. Insulation Thickness (mm.)	Approx. Overall Diameter (mm.)	Max.Conductor Resistance at 20°C (Ohms/km)
0.80	0.502	0.30	1.47	35.00
0.90	0.638	0.30	1.57	27.60
1.00	0.785	0.30	1.67	22.40
1.10	0.850	0.30	1.77	18.50
1.20	1.13	0.30	1.87	15.50
1.30	1.33	0.30	1.97	13.20
1.40	1.54	0.35	2.17	11.40
1.50	1.77	0.35	2.27	9.95
1.60	2.01	0.35	2.37	8.75
1.70	2.27	0.35	2.47	7.75
1.80	2.54	0.35	2.62	6.91
1.90	2.84	0.35	2.72	6.20
2.00	3.14	0.45	3.02	5.60
2.10	3.46	0.45	3.12	5.08
2.20	3.80	0.45	3.22	4.63
2.30	4.15	0.45	3.32	4.23
2.40	4.52	0.50	3.52	3.89
2.50	4.91	0.50	3.62	3.58
2.60	5.31	0.50	3.72	3.31
2.70	5.73	0.50	3.82	3.07
2.80	6.19	0.55	4.02	2.86
3.00	7.07	0.55	4.22	2.49

PHYSICAL PROPERTIES

The limiting values of solid copper conductor diameter, Elongation at Break and other technical details are as given in IS 8783 (Part 1) : 1995.

The properties of PVC compound are as given in IS 8783 (Part 2) : 1995.

The Winding Wires are tested as per IS 8783 (Part 3) : 1995.

IS : 8783
(Part 4/ sec 1)

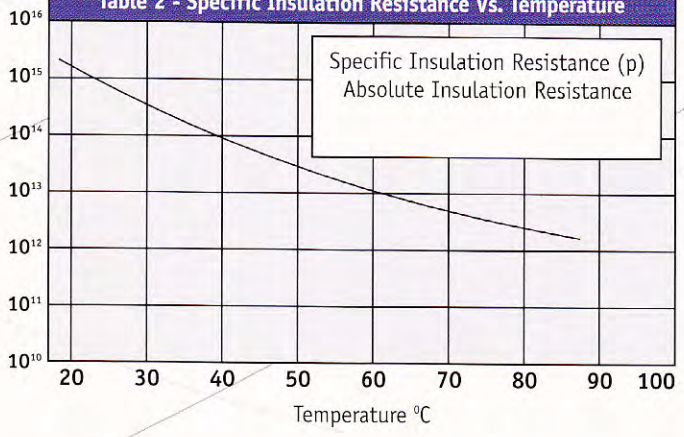
CM/L-7071159

design@iinfi design solutions 079-26631955

INSTRUCTION FOR USE

- As this product is being delicate & it's application being critical, A due care should be taken in handling of winding wire from manufacturing of coils to packing of pump.
- These wire are strictly passes through 'High voltage test' with latest computerised equipment in Vimal factory to avoid any critical problem while using. So customer does not required to carry out any test (except Meager Test) in all respects.
- Do not stack more than 4 coils otherwise, bottom coil is likely to get damaged due to upper coil weight.
- Always keep away winding wire from those things having sharp edges to avoid unintentional damage. Also avoid welding spark falling on winding wire while welding.
- It is sure that if a care has been taken during the use of winding wire, store time & inserting into stator slot it will be definately ensure your Submersible pump's performance & Trouble free shooting for long long time.
- To ensure proper jointing with three core flat cable with motor to avoided failure.

Table 2 - Specific Insulation Resistance Vs. Temperature



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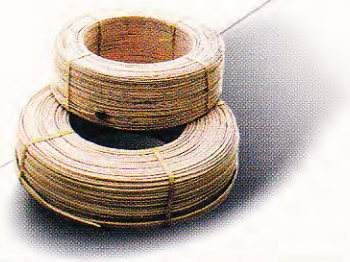

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Sample card available on request.

Note
In view of continuous improvements in our design and process, specifications given herein are subject to change without notice
All information is given in good faith. VIMAL shall not be liable for any damages arising out of incorrect use or interpretation