



submersible winding wires



Heart of
submersible motor

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ABOUT US

We have great pleasure to introduce ourselves as one of the fastest growing quality manufacturer of submersible winding wire under the brand name **CEFLEX**, having manufacturing set up in Ahmedabad (Gujarat) India since year 2004. We have 10+ years of experience in manufacturing submersible winding wire.

The Chetak Enterprise is run by Professionally Qualified Mechanical Engineer from Nirma University Ahmedabad. Qualified technical Staff and experienced work force enrich our satisfied customer base across the country & globe.

We have best plant and machinery (Latest Online Plant) and inhouse testing and inspection facility required for manufacturing submersible winding wire.

Distinguishing Features



- **CEFLEX** Poly winding wires are made from bright annealed round solid bare copper conductor from CC Rod (BIRLA / STERLITE) to ensure best conductivity to meet required standards.
- **CEFLEX** Poly Winding wires are insulated with polyster & poly propylene to withstand high temperature and Mechanical abrasion.
- We are committed to serve our customers by providing them superior quality of tape wrapped insulated winding wire for submersible motor as per IS 8783 (Part 4 sec 3) AND as per customers specification like Lesser OD / higher OD.

QUALITY CONTROL

- We are quality conscious from the core of our existence. The products offered by us are truly unmatched in terms of techno commercial combinations which has helped us to gain edge in today 's competitive market.
- Quality is monitored from the very first stage of production till the despatch of material.
- Copper Rod/Bare wire is being purchased from Sterlite and Birla . Bopp Tapes/Polyster Films are purchased from Cosmo Films / Max India / Garware. Well equipped lab , well trained and qualified engineers for testing raw material, in line process and finished winding wire.
- Sourcing water from the earth requires efficient and better submersible pumps & motors submersible motors are made to function underwater / other fluids. Winding wire used in them accordingly require high quality insulation which is impervious to liquid. **CEFLEX** Winding wires are specially designed to meet the requirement of this application.



Available Sizes

WINDING WIRE TECHNICAL SPECIFICATION

Size	Less O.D.	Regular O.D.	Cond. Resistance at 20°C (max)	Elongation at Brake (min)
mm	mm	mm	ohms/km	%
0.40	0.70	0.80	140	24
0.50	0.80	0.90	89.6	25
0.55	0.85	0.95	74.7	25
0.60	0.90	1.00	62.2	26
0.65	0.95	1.05	53.5	26
0.70	1.00	1.10	45.7	28
0.75	1.05	1.15	40.2	28
0.80	1.10	1.20	35	28
0.90	1.20	1.30	27.6	29
1.00	1.30	1.40	22.4	30
1.10	1.50	1.55	18.5	30
1.20	1.60	1.65	15.5	31
1.30	1.70	1.75	13.2	32
1.40	1.80	1.85	11.4	32
1.50	1.90	2.00	9.95	32
1.60	2.00	2.10	8.75	32
1.70	2.10	2.20	7.75	32
1.80	2.20	2.30	6.91	32
1.90	2.30	2.40	6.2	32
2.00	2.40	2.50	5.6	33
2.10		2.80	5.08	33
2.20		2.90	4.63	33
2.30		3.05	4.23	33
2.40		3.15	3.89	33
2.50		3.25	3.58	33
2.60		3.35	3.31	34
2.70		3.50	3.07	34
2.80		3.60	2.86	34
2.90		3.70	2.66	34
3.00		3.80	2.49	34

- Variation in conductor diameter should be +/- 1% of above values.
- The copper wire sample taken from finished insulated winding wire should exhibit 95% value of the elongation given above.
- This is as per our standard, however we can provide as per customer specifications.

Other Qualities

- Tear Resistant-** Propagation of tear is difficult as insulation is oriented bi-axially.
- Electric Strength** The multiple layer construction ensures high dielectric quality of insulation and places the insulation concentrically around the conductor
- Higher Mechanical Strength-** POLYWRAP insulation is remarkably resistant to cut through and scrap abrasion. Thin cross sections will ensure greater cut through stress and general abuse.
- Least Current Leakage-** It has constant & many times higher insulation resistance even at boiling point of water and the current leakage is minimal
- Easy Winding-** Since the overall dia is less than the conventional PVC Winding Wire, the winding resistance is less and the motor is easy to wind.
- High Tensile Strength-** The insulation adds significantly to the tensile strength as it supports the wire at each point where excessive stretching occurs.
- Withstands 130°C Temperature-For short period +130° C. Continuous 60°C to 105°C**
- Longer Life-** The insulating material is produced by biaxially oriented synthetic film and has very long life.

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