

# Copper Wires



The Submersible Copper Winding Wires manufactured, exported, and supplied by the company are known for imparting reliable performance in diverse applications. The Submersible Copper Winding Wires is used in submersible pump set to procure the water through a bore from hundreds of feet below the earth. These pump works in submerge condition in water so the insulation of the Submersible Motor Winding Wires must be maintain in all respect. Our Copper Wire is famous in the market due to its exceptional elongation flexibility and uniform resistance. In addition, our high quality Copper Wires are offered at reasonable prices.

**Range 0.40 mm to 3.50 mm**

## **Testing Performed for Submersible Copper Wires**

- Overall (O.D.)
- Conductor Diameter test (B.D.)
- Electrical Resistance test of Conductor at 20oC
- Elongation test of Conductor
- Elongation of Insulation
  - o Before ageing
  - o After ageing
- High voltage test (water emersion test)
- Meager test
- Tensile strength of insulation
  - o Before ageing
  - o After ageing
- Film shrinkage test
- Heat shock test
- Volume resistivity test
- Hot deformation test
- Water absorption

### **Known for**

- High conductivity
- Good quality
- High strength
- Longer working life

**Technical Specifications - IS 8783 (Part4/Sec.3) : 1995**

Conductor Diameter (B.D.) Nominal mm	Conductor Tolerance $\hat{A}\pm$ mm	Overall Diameter Minimum MM	Overall Diameter Maximum MM	Elongation (Insulated Wire) Minimum %	Conductor Resistance at 20 $\hat{A}$ c. (Max.) ohms/meter
0.400	0.005	0.70	0.90	25	140.00
0.500	0.006	0.80	1.00	26	89.60
0.600	0.006	0.90	1.10	26	62.20
0.700	0.008	1.00	1.20	27	45.70
0.800	0.009	1.10	1.30	28	35.00
0.900	0.010	1.20	1.40	29	27.60
1.000	0.010	1.30	1.50	30	22.40
1.100	0.010	1.40	1.60	31	18.50
1.200	0.010	1.50	1.70	31	15.50
1.300	0.010	1.60	1.80	32	13.20
1.400	0.010	1.80	2.00	32	11.40
1.500	0.010	1.90	2.10	32	9.95
1.600	0.010	2.00	2.20	33	8.75
1.700	0.010	2.10	2.30	33	7.75
1.800	0.010	2.20	2.40	33	6.91
1.900	0.010	2.30	2.50	33	6.20
2.000	0.010	2.40	2.60	33	5.60
2.100	0.015	2.50	2.70	33	5.08
2.200	0.015	2.60	2.80	33	4.63
2.300	0.015	2.90	3.10	33	4.23
2.400	0.015	3.00	3.20	33	3.89
2.500	0.015	3.10	3.30	33	3.58
2.600	0.015	3.20	3.40	34	3.31
2.700	0.015	3.30	3.50	34	3.07
2.800	0.015	3.40	3.60	34	2.86
2.900	0.015	3.50	3.70	34	2.66