

**CUT THROUGH TEST FOR ENAMELLED ROUND COPPER & ALUMINIUM WINDING WIRES
(BASIS: IS 13730-.. & 13778 – 6)**

Nominal Diameter				Load		Specimen Loading	Time for insertion until loading	Temperature °C (2 min. withstand) Requirement according to IS 13730-..							
mm		SWG		(g)	(N)			Part 34 Polyester Copper Wires	Part 3 Polyester Copper Wire	Part 8 Polyester-Imide copper Wires	Part 13 PE (PEI) + PAI Copper Wires	Part 20 Polyurethane Solderable Copper Wires	Part 9 Polyester Aluminium Wires	Part 15 Polyester Imide Aluminium wires	
Over	Up to & Incl.	From	Up to & Incl.				(s)	Class 130L	Class 155	Class 180	Class 200	Class 155	Class 130	Class 180	
0.02	0.032	-	49	25	0.25	✗	1	240	240	300	320	200	240	300	
0.032	0.05	-	48	41	0.4										
0.05	0.08	47	45	71	0.7										
0.08	0.125	44	40	128	1.25										
0.125	0.2	39	36	224	2.2										
0.2	0.315	35	30	224	2.2	✗	1	240	240	300	320	200	240	300	
0.315	0.5	29	26	459	4.5										
0.5	0.8	25	22	918	9										
0.8	1	21	20	1836	18										
1	1.25	19	18	1836	18										
1.25	2	17	15	3672	36										
2	5	14	-	7140	71		2								
							3								

Note: [*] Loads for aluminium wires are under consideration