

## BUREAU OF INDIAN STANDARDS

### Program of Work

#### ETD 33 : Winding Wire

Scope: To prepare standards for wires for electrical winding irrespective of conductor material, shape or type of covering taking into account the needs in the fields of electrotechnology

Liaison: **IEC TC-55 (P): Winding wires**

### Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 11174 : 1984 <i>Reviewed In : 2021</i>	Specification for aromatic polyimide paper covered rectangular and square copper wires with temperature index 200	March, 2021	-	Indigenous
2	IS 11184 : 1984 <i>Reviewed In : 2021</i>	Specification for enamelled and varnish bonded glass fibre covered round copper wires	March, 2021	1	Indigenous
3	IS 11395 : 1985 <i>Reviewed In : 2020</i>	Specification for tape wrapped round copper wires with temperature index 220	March, 2020	-	Indigenous
4	IS 11597 : 1986 <i>Reviewed In : 2021</i>	Specification for polyeste - R tape wrapped, varnish bonded glass - Fibre covered rectangular copper conductors	March, 2021	-	Indigenous
5	IS 13343 : 1992 <i>Reviewed In : 2018</i>	Guide for thermal endurance of enamelled and varnish bonded glass covered rectangular copper conductor	August, 2018	-	Indigenous
6	IS 13730 (Part 0/Sec 1) : 2018 IEC 60317-0-1 : 2013 <i>Reviewed In : 2024</i> IEC 60317-0-1: 2013	Specifications for particular types of winding wires: Part 0 general requirements: Sec 1 enamelled round copper wire (Second Revision)	September, 2024	1	Identical under dual numbering
7	IS 13730 (Part 0/Sec 2) : 2024 IEC 60317-0-2:2020 IEC 60317-0-2:2020	Particular Types of Winding Wires " Specifications Part 0 General Requirements Section 2 Enamelled Rectangular Copper Wire (Third Revision)		-	Identical under dual numbering
8	IS 13730 (Part 0/Sec 2) : 2018 IEC 60317-0-2 : 2013 <i>Reviewed In : 2024</i> IEC 60317-0-2:2020	Specifications for particular types of winding wires: Part 0 general requirements: Sec 2 enamelled rectangular copper wire (Second Revision)	September, 2024	-	Identical under dual numbering
9	IS 13730 (Part 0/Sec 3) : 2012	Specifications for particular types of winding wires: Part 0 general	September, 2024	-	Identical under dual numbering

	Reviewed In : 2024 IEC 60317-0-3	requirements: Sec 3 enamelled round aluminium wire (First Revision)			
10	IS 13730 (Part 0/Sec 4) : 2018  Reviewed In : 2024 IEC 60317-0-4: 2015	Specification for particular types of winding wires: Part 0 general requirements: Sec 4 glass - Fibre wound resin or varnish impregnated, bare or enamelled rectangular copper wire (Second Revision)	September, 2024	-	Identical under dual numbering
11	IS 13730 (Part 0/Sec 5) : 2012 EC 60317-0-5 Reviewed In : 2024 IEC 60317-0-5	Specifications for particular types of winding wires: Part 0 general requirements: Sec 5 glass - Fibre braided, resin or varnish impregnated, bare or enamelled rectangular copper wire (First Revision)	September, 2024	-	Identical under dual numbering
12	IS 13730 (Part 0/Sec 6) : 2012 EC 60317-0-6 Reviewed In : 2024 EC 60317-0-6	Specifications for particular types of winding wires: Part 0 general requirements: Sec 6 glass - Fibre wound resin or varnish impregnated, bare or enamelled round copper wire	September, 2024	-	Identical under dual numbering
13	IS 13730 (Part 1) : 1993 Reviewed In : 2024 IEC 60317-1:1988	Particular types of winding wires: Part 1 Polyvinyl acetal enamelled round copper wire, class 105 (superseeding by IS 4800(Part 4):1968	September, 2024	-	Identical under dual numbering
14	IS 13730 (Part 2) : 2018 EC 60317-2 : 2012 Reviewed In : 2024 IEC 60317-2: 2012	Specification for particular types of winding wires: Part 2 solderable polyurethane enamelled round copper wire, class 130, with a bonding layer (Second Revision)	September, 2024	-	Identical under dual numbering
15	IS 13730 (Part 3) : 2012 IEC 60317-3 Reviewed In : 2024 IEC 60317-3	Specifications for particular types of winding wires: Part 3 polyester enamelled round copper wire, class 155 (First Revision)	September, 2024	-	Identical under dual numbering
16	IS 13730 (Part 4) : 2018 IEC 60317-4 : 2015 Reviewed In : 2024 IEC 60317-4	Specification for particular types of winding wires: Part 4 solderable polyurethane enamelled round copper wire, class 130, (Second Revision)	September, 2024	-	Identical under dual numbering
17	IS 13730 (Part 5) : 2018  Reviewed In : 2024 IEC 60317-5	Specification for Particular Types of Winding Wires Part 5 Polyester Enamelled Round Aluminium Wire, Class 155	September, 2024	-	Modified/Technically Equivalent
18	IS 13730 (Part 6) : 1994 Reviewed In : 2021 Reaffirmed but not taken up for revision IEC 60317-6	Specification for particular types of winding wires: Part 6 oleo - Resinous enamelled round aluminium wire, class 105	March, 2021	-	Modified/Technically Equivalent
19	IS 13730 (Part 8) : 2014 IEC 60317-8 : 2010 Reviewed In : 2024 IEC 60317-8:2010	Specification for particular types of winding wires: Part 8 polyesterimide enamelled round copper wire, class 180 (First Revision)	September, 2024	-	Identical under dual numbering

20	IS 13730 (Part 9) : 1994 Reviewed In : 2021 Reaffirmed but not taken up for revision IEC 60317-9	Specification for particular types of winding wires: Part 9 polyester enamelled round aluminium wire, class 138	March, 2021	-	Modified/Technically Equivalent
21	IS 13730 (Part 12) : 2012 IEC 60317-12 : 2010 Reviewed In : 2024 IEC 60317-12 : 2010	Specifications for particular types of winding wires: Part 12 polyvinyl acetal enamelled round copper wire, class 120	September, 2024	-	Identical under dual numbering
22	IS 13730 (Part 13) : 2014 IEC 60317-13 : 2010 Reviewed In : 2024 IEC 60317-13 : 2010	Specifications for particular types of winding wires: Part 13 polyester or polyesterimide overcoated with polyamide - Imide enamelled round copper wire, class 200 (First Revision)	September, 2024	-	Identical under dual numbering
23	IS 13730 (Part 15) : 1994 IEC 60317-15 Reviewed In : 2021 Reaffirmed but not taken up for revision IEC 60317-15 : 2010	Particular types of winding wires: Part 15 polyesterimide enamelled round aluminium wire, class 180	March, 2021	-	Modified/Technically Equivalent
24	IS 13730 (Part 16) : 1996 IEC 60317-16 Reviewed In : 2024 Reaffirmed but not taken up for revision IEC 60317-16	Specifications for particular types of winding wires: Part 16 polyester enamelled rectangular copper wire class 155	September, 2024	1	Identical under dual numbering
25	IS 13730 (Part 17) : 2014 IEC 60317-17 : 2010 Reviewed In : 2024 IEC 60317-17 : 2010	Specifications for particular types of winding wires: Part 17 polyvinyl acetal enamelled rectangular copper wire, class 105 (First Revision)	September, 2024	-	Identical under dual numbering
26	IS 13730 (Part 20) : 2018 IEC 60317-20 : 2013 Reviewed In : 2024 IEC 60317-20	Specifications for particular types of winding wires: Part 20 solderable polyurethane enamelled round copper wire, class 155 (Second Revision)	September, 2024	-	Identical under dual numbering
27	IS 13730 (Part 21) : 2017 IEC 60317-21 : 2013 Reviewed In : 2024 IEC 60317-21:2013	Specifications for particular types of winding wires: Part 21 solderable polyurethane enamelled round copper wire overcoated with polyamide, class 155	September, 2024	-	Identical under dual numbering
28	IS 13730 (Part 23) : 2017 IEC 60317-23 : 2013 Reviewed In : 2024 IEC 60317-23:2013	Specifications for particular types of winding wires: Part 23 solderable polyesterimide enamelled round copper wire, class 180	September, 2024	-	Identical under dual numbering
29	IS 13730 (Part 25) : 2015 IEC 60317-25 Reviewed In : 2021 IEC 60317-25	Specifications for particular types of winding wires: Part 25 polyester or polyesterimide overcoated with polyamide - Imide enamelled round aluminium wire, class 200	March, 2021	-	Identical under dual numbering
30	IS 13730 (Part 26) : 1996 IEC 60317-26	Specifications for particular types of winding wires: Part 26 polyamide - Imide enamelled	June, 2018	1	Identical under dual numbering

	Reviewed In : 2018 Reaffirmed but not taken up for revision IEC 60317-26	round copper wire, class 200			
31	IS 13730 (Part 27) : 2018 IEC 60317-27 : 2013 Reviewed In : 2024 IEC 60317-27	Specifications for Particular Types of Winding Wires Part 27 Paper Tape Covered Rectangular Copper Wire ( First Revision )	September, 2024	-	Identical under dual numbering
32	IS 13730 (Part 28) : 2018 IEC 60317-28 : 2013 Reviewed In : 2024 IEC 60317-28	Specifications for particular types of winding wires: Part 28 polyesterimide enamelled rectangular copper wire, class 180 (First Revision)	September, 2024	-	Identical under dual numbering
33	IS 13730 (Part 29) : 1996 IEC 60317-29 Reviewed In : 2024 IEC 60317-29	Specifications for particular types of winding wires: Part 29 polyester or polyesterimide overcoated with polyamide - Imide enamelled rectangular copper wire, class 200	September, 2024	1	Identical under dual numbering
34	IS 13730 (Part 31) : 2018 IEC 60317-31 : 2015 Reviewed In : 2024 IEC 60317-31	Specifications for particular types of winding wires: Part 31 glass fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 180 (First Revision)	September, 2024	-	Identical under dual numbering
35	IS 13730 (Part 32) : 2018 IEC 60317-32 : 2015 Reviewed In : 2024 IEC 60317-32	Specifications for particular types of winding wires: Part 32 glass fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 155 (First Revision)	September, 2024	-	Identical under dual numbering
36	IS 13730 (Part 33) : 2018 IEC 60317-33 : 2015 Reviewed In : 2024 IEC 60317-33	Specifications for particular types of winding wires: Part 33 glass fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 200 (First Revision)	September, 2024	-	Identical under dual numbering
37	IS 13730 (Part 34) : 2000 IEC 60317-34 Reviewed In : 2021 IEC 60317-34	Specifications for particular types of winding wires: Part 34 polyester enamelled round copper wire, class 130 L (First Revision)	March, 2021	-	Identical under dual numbering
38	IS 13730 (Part 35) : 2017 IEC 60317-35 : 2013 Reviewed In : 2024 IEC 60317-35:2013	Specifications for particular types of winding wires: Part 35 solderable polyurethane enamelled round copper wire, class 155, with a bonding layer	January, 2024	-	Identical under dual numbering
39	IS 13730 (Part 36) : 2017 IEC 60317-36 : 2013 Reviewed In : 2024 IEC 60317-36:2013	Specifications for particular types of winding wires: Part 36 solderable polyesterimide enamelled round copper wire, class 180, with a bonding layer	September, 2024	-	Identical under dual numbering
40	IS 13730 (Part 37) : 2017 IEC 60317-37 : 2013 Reviewed In : 2024	Specifications for particular types of winding wires: Part 37 polyesterimide enamelled round copper wire, class 180, with a	September, 2024	-	Identical under dual numbering

	IEC 60317-37:2013	bonding layer			
41	IS 13730 (Part 38) : 2018 IEC 60317-38 : 2013 Reviewed In : 2024 IEC 60317-38	Specifications for particular types of winding wires: Part 38 polyester or polyesterimide overcoated with polyamide - Imide, enamelled round copper wire, class 200, with a bonding layer	September, 2024	-	Identical under dual numbering
42	IS 13730 (Part 39) : 2018 IEC 60317-39 : 2015 Reviewed In : 2024 IEC 60317-39	Specifications for particular types of winding wires: Part 39 glass - Fibre braided resin or varnish - Impregnated, bare or enamelled rectangular copper wire, temperature index 180 (First Revision)	September, 2024	-	Identical under dual numbering
43	IS 13730 (Part 43) : 2013 IEC 60317-43 Reviewed In : 2024 IEC 60317-43	Specification for particular types of winding wires: Part 43 aromatic polyimide tape wrapped round copper wire, class 240 (First Revision)	September, 2024	-	Identical under dual numbering
44	IS 13730 (Part 44) : 2013 IEC 60317-44 Reviewed In : 2024 IEC 60317-44	Specification for particular types of winding wires: Part 44 aromatic polyimide tape wrapped rectangular copper wire, class 240 (First Revision)	September, 2024	-	Identical under dual numbering
45	IS 13730 (Part 45) : 1999 IEC 60317-45 Reviewed In : 2024 Reaffirmed but not taken up for revision IEC 60317-45	Specifications for particular types of winding wires: Part 45 polyester enamelled round copper wire, class 130	June, 2024	-	Identical under dual numbering
46	IS 13730 (Part 46) : 2017 IEC 60317-46 : 2013 Reviewed In : 2024 IEC 60317-46:2013	Specifications for particular types of winding wires: Part 46 aromatic polyimide enamelled round copper wire, class 240	September, 2024	-	Identical under dual numbering
47	IS 13730 (Part 47) : 2017 IEC 60317-47 : 2013 Reviewed In : 2024 IEC 60317-47:2013	Specifications for particular types of winding wires: Part 47 aromatic polyimide enamelled rectangular copper wire, class 240	September, 2024	-	Identical under dual numbering
48	IS 13730 (Part 48) : 2018 IEC 60217-48 : 2012 Reviewed In : 2024 IEC 60317-48	Specifications for particular types of winding wires: Part 48 glass - Fibre wound resin or varnish impregnated, bare or enamelled round copper wire, temperature index 155 (First Revision)	September, 2024	-	Identical under dual numbering
49	IS 13730 (Part 49) : 2018 IEC 60317-49 : 2012 Reviewed In : 2024 IEC 60317-49	Specifications for particular types of winding wires: Part 49 glass - Fibre wound, high temperature resin or varnish - Impregnated, bare or enamelled round copper wire, class 180 (First Revision)	September, 2024	-	Identical under dual numbering
50	IS 13730 (Part 50) : 2018 IEC 60317-50 : 2012 Reviewed In : 2024 IEC 60317-50	Specifications for particular types of winding wires: Part 50 glass - Fibre wound, silicone resin or varnish impregnated, bare or enamelled round copper wire, class 200 (First Revision)	September, 2024	-	Identical under dual numbering

51	IS 13730 (Part 53) : 2018 IEC60317-53 : 2014 Reviewed In : 2024 IEC60317-53	Specifications for particular types of winding wires: Part 53 aromatic polyimide (Aramid) tape wrapped rectangular copper wire, temperature index 220 (First Revision)	September, 2024	-	Identical under dual numbering
52	IS 13778 (Part 1) : 2011 IEC 60851-1 : 1996 Reviewed In : 2021 IEC 60851-1 : 1996	Winding wires - Test methods: Part 1 general (First Revision)	March, 2021	-	Identical under dual numbering
53	IS 13778 (Part 2) : 2013 IEC 60851-2 Reviewed In : 2024 IEC 60851-2	Winding wires - Test methods: Part 2 determination of dimensions (First Revision)	September, 2024	-	Identical under dual numbering
54	IS 13778 (Part 3) : 2012 IEC 60851-3 Reviewed In : 2024 IEC 60851-3	Winding wires - Test methods: Part 3 mechanical properties (First Revision)	September, 2024	-	Identical under dual numbering
55	IS 13778 (Part 4) : 2018 IEC 60851-4 : 2016 Reviewed In : 2024 IEC 60851-4	Winding wires - Test methods: Part 4 chemical properties (Second Revision)	September, 2024	-	Identical under dual numbering
56	IS 13778 (Part 5) : 2012 IEC 60851-5 Reviewed In : 2024 IEC 60851-5	Winding wires - Test methods: Part 5 electrical properties (First Revision)	September, 2024	-	Identical under dual numbering
57	IS 13778 (Part 6) : 2018 IEC60851-6 : 2012 Reviewed In : 2024 IEC60851-6	Winding wires - Test methods: Part 6 thermal properties (Second Revision)	September, 2024	-	Identical under dual numbering
58	IS 14841 (Part 2/Sec 1) : 2000 IEC 60264-2-1 Reviewed In : 2021 IEC 60264-2-1	Packaging of winding wires: Part 2 cylindrical barrelled delivery spools: Sec 1 basic dimensions	March, 2021	1	Identical under dual numbering
59	IS 14841 (Part 2/Sec 2) : 2000 IEC 60264-2-2 Reviewed In : 2021 IEC 60264-2-2	Packaging of winding wires: Part 2 cylindrical barrelled delivery spools: Sec 2 specification for returnable spools made from Thermoplastic materials	March, 2021	1	Identical under dual numbering
60	IS 14841 (Part 3/Sec 1) : 2000 IEC 60264-3-1 Reviewed In : 2021 IEC 60264-3-1	Packaging of winding wires: Part 3 taper barrelled delivery spools: Sec 1 basic dimensions	March, 2021	-	Identical under dual numbering
61	IS 14841 (Part 3/Sec 2) : 2000 IEC 60264-3-2 Reviewed In : 2021 IEC 60264-3-2	Packaging of winding wires: Part 3 taper barrelled delivery spools: Sec 2 specification for returnable spools made from Thermoplastic materials	March, 2021	-	Identical under dual numbering
62	IS 14841 (Part 3/Sec 3) : 2000 Reviewed In : 2021	Packaging of winding wires: Part 3 taper barrelled delivery spools: Sec 3 specification for non -	March, 2021	1	Identical under dual numbering

	IEC 60264-3-3	Returnable spools made from thermoplastic material			
63	IS 14841 (Part 3/Sec 4) : 2000 Reviewed In : 2024 IEC 60264-3-4	Packaging of winding wires: Part 3 taper barrelled delivery spools: Sec 4 basic dimensions of containers for taper barrelled delivery spools	September, 2024	-	Identical under dual numbering
64	IS 14841 (Part 4/Sec 1) : 2013 Reviewed In : 2024 IEC 60264-2-1	Packaging of winding wires: Part 4 methods of test: Sec 1 delivery spools made from thermoplastic materials (First Revision)	September, 2024	-	Identical under dual numbering
65	IS 2069 : 1991 Reviewed In : 2021	Drums for covered winding wires and strips for electrical purposes - Specification (Second Revision)	March, 2021	-	Indigenous
66	IS 5825 : 2024 IEC 60172:2020 IEC 60172:2020	Test Procedure for the Determination of the Temperature Index of Enamelled and Tape Wrapped Winding Wires (Third Revision)		-	Identical under dual numbering
67	IS 5825 : 2018 IEC 60172 : 2015 Reviewed In : 2024 IEC 60172:2020	Test procedure for the determination of the temperature index of enamelled and tape wrapped winding wires (Second Revision)	January, 2024	-	Identical under dual numbering
68	IS 6162 (Part 1) : 1971 Reviewed In : 2018 IEC Publication 111 (1959), BS 2627 : 1961	Specification for paper - Covered aluminium conductors: Part 1 round conductors	June, 2018	4	Modified/Technically Equivalent
69	IS 6162 (Part 2) : 1971 Reviewed In : 2018 B.S. 2776 : Part 2: 1956	Specification for paper covered aluminium conductors: Part 2 rectangular conductors	June, 2018	5	Modified/Technically Equivalent
70	IS 6181 : 1971 Reviewed In : 2018 Document 70/3817 Draft British Standard Specification	Specification for varnish bonded glass - Fibre braided rectangular copper conductors	June, 2018	1	Modified/Technically Equivalent
71	IS 7391 (Part 1) : 1974 Reviewed In : 2018 IEC Pub 182-1(1964)	Specification For cotton Covered Copper Conductors : Part 1 round conductors	June, 2018	2	Modified/Technically Equivalent
72	IS 7391 (Part 2) : 1974 Reviewed In : 2018	Specification for cotton covered copper conductors: Part 2 rectangular conductors	June, 2018	-	Indigenous
73	IS 7404 (Part 1) : 1991 Reviewed In : 2021	Paper covered copper conductors - Specification: Part 1 round conductors (First Revision)	March, 2021	-	Indigenous
74	IS 7576 : 1974 Reviewed In : 2018 BS : 4770 : 197 1	Specification for bunched enamelled copper wires with silk covering	June, 2018	-	Modified/Technically Equivalent
75	IS 8572 : 1993 Reviewed In : 2018	Paper - Covered flexible/stranded copper conductors for transformer leads - Specification (First Revision)	June, 2018	-	Indigenous
76	IS 8783 (Part 1) :	Winding wires for submersible	March, 2021	2	Indigenous

	1995 <a href="#">Reviewed In : 2021</a>	motors - Specification: Part 1 conductor data (First Revision)			
77	IS 8783 (Part 2) : 1995 <a href="#">Reviewed In : 2021</a>	Winding wires for submersible motors - Specification: Part 2 materials for dielectric and jacket (First Revision)	March, 2021	2	Indigenous
78	IS 8783 (Part 3) : 1995 <a href="#">Reviewed In : 2021</a>	Winding wires for submersible motors - Specification: Part 3 methods of tests	March, 2021	2	Indigenous
79	IS 8783 (Part 4/Sec 1) : 1995 <a href="#">Reviewed In : 2021</a>	Winding wires for submersible motors - Specification: Part 4 specification for indmdual wires: Sec 1 HR PVC insulated wires (First Revision)	March, 2021	1	Indigenous
80	IS 8783 (Part 4/Sec 2) : 1995 <a href="#">Reviewed In : 2021</a>	Winding wires for submersible motors - specification: Part 4 specification for individual wires: Sec 2 crosslinked polyethylene insulated and polyamide jacketed wires (First Revision)	March, 2021	-	Indigenous
81	IS 8783 (Part 4/Sec 3) : 1995 <a href="#">Reviewed In : 2021</a>	Winding wires for submersible motors - Specification: Part 4 specification for individual wires: Sec 3 polyester and polypropylene insulated winding wires (First Revision)	March, 2021	1	Indigenous
82	IS 9778 : 1981 <a href="#">Reviewed In : 2021</a>	Guide for evaluation of thermal endurance of varnish bonded glass fibre covered rectangular copper conductors	March, 2021	1	Indigenous

### Standards under Development

#### Projects Approved

SI. No.	Doc No.	Title
<i>No Records Found</i>		

#### Preliminary Draft Standards

SI. No.	Doc No.	Title
1	ETD 33 (26788) <a href="#">Revision of: IS 13730:2012</a>	Specifications for particular types of winding wires Part 0 General requirements Section 3 Enamelled round aluminium wire Second Revision
2	ETD 33 (26796) <a href="#">Revision of: IS 7391:1974</a>	Specification for cottoncovered copper conductors Part 1 round conductors
3	ETD 33 (26799) <a href="#">Revision of: IS 7391:1974</a>	Specification for cotton covered copper conductors Part 2 rectangular conductors
4	ETD 33 (26814) <a href="#">Revision of: IS 8572:1993</a>	Paper - Covered flexiblestranded copper conductors for transformer leads - Specification Second Revision

#### Drafts Standards in WC Stage

SI. No.	Doc No.	Title
1	ETD 33 (26620) <a href="#">Revision of: IS 2069:1991</a>	Drums for covered winding wires and strips for electrical purposes - Specification
2	ETD 33 (26903) <a href="#">Revision of: IS 13730:1996</a>	Specifications for particular types of winding wires - Part 57 Polyamide-imide enameled round copper wire class 220
3	ETD 33 (26934)	Specifications for particular types of winding wires - Part 27-1 Paper tape covered round copper



		wire
4	ETD 33 (26935)	Specifications for particular types of winding wires Part 27-2 Paper tape covered round aluminium wire
5	ETD 33 (26936)	Specifications for particular types of winding wires Part 27-3 Paper tape covered rectangular copper wire
6	ETD 33 (26938)	Specifications for particular types of winding wires - Part 27-4 Paper tape covered rectangular aluminium wire

### Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
<i>No Records Found</i>		

### Finalized Draft Indian Standard

SI. No.	Doc No.	Title
<i>No Records Found</i>		

### Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	ETD 33 (25286) <b>Revision of: IS 13730:2018</b>	Specification for particular types of winding wires Part 0 General requirements Sec 4 glass - Fibre wound resin or varnish impregnated bare or enamelled rectangular copper wire Third Revision
2	ETD 33 (25289) <b>Revision of: IS 13730:2012</b>	Specifications for particular types of winding wires - Part 0-6 General requirements - Glass-fibre wound resin or varnish impregnated bare or enamelled round copper wire
3	ETD 33 (25293) <b>Revision of: IS 13730:1993</b>	Specification for particular types of winding wires Part 1 Polyvinyl acetal enamelled round copper wire class 105
4	ETD 33 (25296) <b>Revision of: IS 13730:2018</b>	Specifications for particular types of winding wires Part 2 Solderable polyurethane enamelled round copper wire class 130 with a bonding layer
5	ETD 33 (25297) <b>Revision of: IS 13730:2012</b>	Particular types of winding wires Specification Part 12 Polyvinyl acetal enamelled round copper wire class 120 First Revision
6	ETD 33 (25298) <b>Revision of: IS 13730:2014</b>	Specification for particular types of winding wires Part 17 Polyvinyl acetal enamelled rectangular copper wire class 105
7	ETD 33 (25300)	Specifications for particular types of winding wires Part 20 solderable polyurethane enamelled round copper wire class 155 Second Revision Amendment - 1
8	ETD 33 (25301)	Specifications for particular types of winding wires Part 21 solderable polyurethane enamelled round copper wire overcoated with polyamide class 155 Amendment - 1
9	ETD 33 (25302)	Specifications for particular types of winding wires Part 23 solderable polyesterimide enamelled round copper wire class 180 Amendment - 1
10	ETD 33 (25303) <b>Revision of: IS 13730:2015</b>	Specifications for particular types of winding wires Part 25 Polyester or polyesterimide overcoated with polyamide-imide enamelled round aluminium wire class 200
11	ETD 33 (25304)	Specifications for particular types of winding wires Part 35 solderable polyurethane enamelled round copper wire class 155 with a bonding layer Amendment - 1
12	ETD 33 (25305)	Specifications for particular types of winding wires Part 36 solderable polyesterimide enamelled round copper wire class 180 with a bonding layer Amendment - 1
13	ETD 33 (25306) <b>Revision of: IS 13778:2011</b>	Winding wires - Test methods Part 1 General Second Revision
14	ETD 33 (25308)	Winding wires - Test methods Part 2 determination of dimensions First Revision Amendment - 1
15	ETD 33 (25309) <b>Revision of: IS 13778:2012</b>	Winding wires - Test methods Part 3 Mechanical properties
16	ETD 33 (25310)	Winding wires - Test methods Part 5 electrical properties First Revision Amendment - 1
17	ETD 33 (25311)	Continuously Transposed Conductor CTC Copper Winding Wires

**Total Published Standards:80 Total Standards Under development:27**

### Aspect Wise Report

Product : 64

Code of Practices : 2  
Methods of Test : 8  
Terminology : 0  
Dimensions : 4  
System Standard : 0  
Safety Standard : 0  
Others : 2  
Service Specification : 0  
Process Specification : 0  
Unclassified : 0

### Annexure-I :List of Indian Standards Withdrawn/Superseded

Sl. No.	IS No. & Year	Title
1	IS 10031 : 1981 Reviewed In : 2015	Taper Barrelled Delivery Spools For Covered Round Electrical Winding Wires
2	IS 10114 : 1982	Enamelled and varnish bonded glass covered rectangular copper wires
3	IS 10452 (Part 1) : 1983	Methods of tests for covered conductors for electrical equipment Part 1 Paper covered and cotton covered conductors
4	IS 10452 (Part 2) : 1983	Methods of tests for covered conductors for electrical equipment Part 2 Fibrous covered conductors
5	IS 13730 (Part 7) : 1993 Reviewed In : 2013	Articular Types Of Winding Wires Part 7 Polyimide Enamelled Round Copper Wireclass 220 superseeds Is 4800 part 11 1981
6	IS 1594 : 1960	Metric sizes of copper wires and conductors for electrical purposes
7	IS 1595 : 1967	Enamelled round copper wire with high mechanical properties
8	IS 1666 : 1961	Paper-covered rectangular copper conductors for transformer windings
9	IS 2068 : 1962	Cotton Covered Rectangular Copper Conductors
10	IS 2659 : 1964	Enamelled round copper wire for elevated temperatures
11	IS 3454 : 1966	Paper-covered Round Copper Conductors
12	IS 3855 (Part 1) : 1978	Rectangular and square enamelled copper conductors Part 1 Thickness of enamel coating
13	IS 3855 (Part 2) : 1979	Rectangular and square enamelled copper conductors Part 2 Methods of tests
14	IS 3855 (Part 3) : 1978	Rectangular and square enamelled copper conductors Part 3 Wires with high mechanical properties
15	IS 3855 (Part 4) : 1981	Rectangular and square enamelled copper conductors Part 4 Wires with temperature indes 155
16	IS 3855 (Part 5) : 1984	Rectangular and square enamelled copper conductors Part 5 Wire with temperature indes 180
17	IS 396 : 1953	Bare annealed high-conductivity copper wire for electrical machinery and apparatus tentative
18	IS 449 : 1962	Enamelled high-conductivity annealed round copper wire oleoresinous enamel Revised
19	IS 450 : 1964	Cotton Covered Round Copper Conductors
20	IS 4685 (Part 1) : 1968 Reviewed In : 2015	Varnish bonded glass-fibre covered copper conductors Part 1 Round wires
21	IS 4685 (Part 2) : 1984	Varnish bonded glass-fibre covered copper conductors Part 2 Rectangular conductors
22	IS 4718 : 1968	Multiple paper-covered round copper conductors
23	IS 4800 (Part 1) : 1968	Enamelled round winding wires Part 1 Conductors data

24	IS 4800 (Part 2) : 1968	Enamelled round winding wires Part 2 Maximum overall diameters
25	IS 4800 (Part 3) : 1968	Enamelled round winding wires Part 3 Methods of tests
26	IS 4800 (Part 4) : 1968	Enamelled round winding wires Part 4 Wires with high mechanical properties
27	IS 4800 (Part 5) : 1968	Enamelled round winding wires Part 5 Wires for elevated temperatures
28	IS 4800 (Part 6) : 1968	Enamelled round winding wires Part 6 Wires with self-fluxing properties
29	IS 4800 (Part 7) : 1970	Enamelled round winding wires Part 7 Wires with good dielectric properties under humid conditions
30	IS 4800 (Part 8) : 1970	Enamelled round winding wires Part 8 Wires for use in refrigeration systems
31	IS 4800 (Part 9) : 1971	Enamelled round winding wires Part 9 Wires with temperature index 180
32	IS 4800 (Part 10) : 1977	Enamelled round winding wires Part 10 Self bonding wires
33	IS 4800 (Part 11) : 1981	Enamelled round winding wires Part 11 Wires with temperature index 220
34	IS 4800 (Part 12) : 1986	Enamelled round winding wires Part 12 Self bonding wires heat or solvent bonding enamelled round copper wires with temperature index 155
35	IS 4800 (Part 13) : 1989	Enamelled round winding wires Part 13 Dual coated wires with temperature index 200
36	IS 4800 (Part 14) : 1991	Enamelled round winding wires Part 14 Wires with self fluxing properties and temperature index 155
37	IS 482 : 1981 Reviewed In : 2015	Reels for Covered Round Electrical Winding Wires
38	IS 6160 : 1971	Rectangular conductors for electrical machines
39	IS 7404 (Part 2) : 1991	Paper covered copper conductors Part 2 Rectangular conductors
40	IS 9148 : 1979 Reviewed In : 2015	Tape wrapped rectangular and square copper wires with a temperature index of 220

### Annexure-II :List of Indian Product Standards

Sl. No.	IS No. & Year	Title
1	IS 11174 : 1984 Reviewed In : 2021	Specification for aromatic polyimide paper covered rectangular and square copper wires with temperature index 200
2	IS 11184 : 1984 Reviewed In : 2021	Specification for enamelled and varnish bonded glass fibre covered round copper wires
3	IS 11395 : 1985 Reviewed In : 2020	Specification for tape wrapped round copper wires with temperature index 220
4	IS 11597 : 1986 Reviewed In : 2021	Specification for polyeste - R tape wrapped varnish bonded glass - Fibre covered rectangular copper conductors
5	IS 13730 (Part 0/Sec 1) : 2018 EC 60317-0-1 : 2013 Reviewed In : 2024 IEC 60317-0-1: 2013	Specifications for particular types of winding wires Part 0 general requirements Sec 1 enamelled round copper wire Second Revision
6	IS 13730 (Part 0/Sec 2) : 2024 IEC 60317-0-2:2020	Particular Types of Winding Wires Specifications Part 0 General Requirements Section 2 Enamelled Rectangular Copper Wire Third Revision
7	IS 13730 (Part 0/Sec 3) : 2012 Reviewed In : 2024 IEC	Specifications for particular types of winding wires Part 0 general requirements Sec 3 enamelled round aluminium wire First Revision

	60317-0-3	
8	IS 13730 (Part 0/Sec 4) : 2018  Reviewed In : 2024 IEC 60317-0-4: 2015	Specification for particular types of winding wires Part 0 general requirements Sec 4 glass - Fibre wound resin or varnish impregnated bare or enamelled rectangular copper wire Second Revision
9	IS 13730 (Part 0/Sec 5) : 2012 EC 60317-0-5 Reviewed In : 2024 IEC 60317-0-5	Specifications for particular types of winding wires Part 0 general requirements Sec 5 glass - Fibre braided resin or varnish impregnated bare or enamelled rectangular copper wire First Revision
10	IS 13730 (Part 0/Sec 6) : 2012 EC 60317-0-6 Reviewed In : 2024 EC 60317-0-6	Specifications for particular types of winding wires Part 0 general requirements Sec 6 glass - Fibre wound resin or varnish impregnated bare or enamelled round copper wire
11	IS 13730 (Part 1) : 1993 Reviewed In : 2024 IEC 60317-1:1988	Particular types of winding wires Part 1 Polyvinyl acetal enamelled round copper wire class 105 superseding by IS 4800 Part 4 1968
12	IS 13730 (Part 2) : 2018 EC 60317-2 : 2012 Reviewed In : 2024 IEC 60317-2: 2012	Specification for particular types of winding wires Part 2 solderable polyurethane enamelled round copper wire class 130 with a bonding layer Second Revision
13	IS 13730 (Part 3) : 2012 IEC 60317-3 Reviewed In : 2024 IEC 60317-3	Specifications for particular types of winding wires Part 3 polyester enamelled round copper wire class 155 First Revision
14	IS 13730 (Part 4) : 2018 IEC 60317-4 : 2015 Reviewed In : 2024 IEC 60317-4	Specification for particular types of winding wires Part 4 solderable polyurethane enamelled round copper wire class 130 Second Revision
15	IS 13730 (Part 5) : 2018  Reviewed In : 2024 IEC 60317-5	Specification for Particular Types of Winding Wires Part 5 Polyester Enamelled Round Aluminium Wire Class 155
16	IS 13730 (Part 6) : 1994 Reviewed In : 2021 Reaffirmed but not taken up for revision IEC 60317-6	Specification for particular types of winding wires Part 6 oleo - Resinous enamelled round aluminium wire class 105
17	IS 13730 (Part 8) : 2014 IEC 60317-8 : 2010 Reviewed In : 2024 IEC 60317-8:2010	Specification for particular types of winding wires Part 8 polyesterimide enamelled round copper wire class 180 First Revision
18	IS 13730 (Part 9) : 1994 Reviewed In : 2021 Reaffirmed but not taken up for revision IEC 60317-9	Specification for particular types of winding wires Part 9 polyester enamelled round aluminium wire class 138
19	IS 13730 (Part 12) : 2012 IEC 60317-12 : 2010 Reviewed In : 2024 IEC 60317-12 : 2010	Specifications for particular types of winding wires Part 12 polyvinyl acetal enamelled round copper wire class 120
20	IS 13730 (Part 13) : 2014 IEC 60317-13 : 2010 Reviewed In : 2024 IEC 60317-13 : 2010	Specifications for particular types of winding wires Part 13 polyester or polyesterimide overcoated with polyamide - Imide enamelled round copper wire class 200 First Revision
21	IS 13730 (Part 15) : 1994 IEC 60317-15 Reviewed In : 2021 Reaffirmed but not taken up	Particular types of winding wires Part 15 polyesterimide enamelled round aluminium wire class 180

	for revision IEC 60317-15 : 2010	
22	IS 13730 (Part 16) : 1996 IEC 60317-16 Reviewed In : 2024 Reaffirmed but not taken up for revision IEC 60317-16	Specifications for particular types of winding wires Part 16 polyester enamelled rectangular copper wire class 155
23	IS 13730 (Part 17) : 2014 IEC 60317-17 : 2010 Reviewed In : 2024 IEC 60317-17 : 2010	Specifications for particular types of winding wires Part 17 polyvinyl acetal enamelled rectangular copper wire class 105 First Revision
24	IS 13730 (Part 20) : 2018 IEC 60317-20 : 2013 Reviewed In : 2024 IEC 60317-20	Specifications for particular types of winding wires Part 20 solderable polyurethane enamelled round copper wire class 155 Second Revision
25	IS 13730 (Part 21) : 2017 IEC 60317-21 : 2013 Reviewed In : 2024 IEC 60317-21:2013	Specifications for particular types of winding wires Part 21 solderable polyurethane enamelled round copper wire overcoated with polyamide class 155
26	IS 13730 (Part 23) : 2017 IEC 60317-23 : 2013 Reviewed In : 2024 IEC 60317-23:2013	Specifications for particular types of winding wires Part 23 solderable polyesterimide enamelled round copper wire class 180
27	IS 13730 (Part 25) : 2015 IEC 60317-25 Reviewed In : 2021 IEC 60317-25	Specifications for particular types of winding wires Part 25 polyester or polyesterimide overcoated with polyamide - Imide enamelled round aluminium wire class 200
28	IS 13730 (Part 26) : 1996 IEC 60317-26 Reviewed In : 2018 Reaffirmed but not taken up for revision IEC 60317-26	Specifications for particular types of winding wires Part 26 polyamide - Imide enamelled round copper wire class 200
29	IS 13730 (Part 27) : 2018 IEC 60317-27 : 2013 Reviewed In : 2024 IEC 60317-27	Specifications for Particular Types of Winding Wires Part 27 Paper Tape Covered Rectangular Copper Wire First Revision
30	IS 13730 (Part 28) : 2018 IEC 60317-28 : 2013 Reviewed In : 2024 IEC 60317-28	Specifications for particular types of winding wires Part 28 polyesterimide enamelled rectangular copper wire class 180 First Revision
31	IS 13730 (Part 29) : 1996 IEC 60317-29 Reviewed In : 2024 IEC 60317-29	Specifications for particular types of winding wires Part 29 polyester or polyesterimide overcoated with polyamide - Imide enamelled rectangular copper wire class 200
32	IS 13730 (Part 31) : 2018 IEC 60317-31 : 2015 Reviewed In : 2024 IEC 60317-31	Specifications for particular types of winding wires Part 31 glass fibre wound resin or varnish impregnated bare or enamelled rectangular copper wire temperature index 180 First Revision
33	IS 13730 (Part 32) : 2018 IEC 60317-32 : 2015 Reviewed In : 2024 IEC 60317-32	Specifications for particular types of winding wires Part 32 glass fibre wound resin or varnish impregnated bare or enamelled rectangular copper wire temperature index 155 First Revision
34	IS 13730 (Part 33) : 2018 IEC 60317-33 : 2015 Reviewed In : 2024 IEC 60317-33	Specifications for particular types of winding wires Part 33 glass fibre wound resin or varnish impregnated bare or enamelled rectangular copper wire temperature index 200 First Revision
35	IS 13730 (Part 34) : 2000 IEC 60317-34 Reviewed In : 2021 IEC	Specifications for particular types of winding wires Part 34 polyester enamelled round copper wire class 130 L First Revision

	60317-34	
36	IS 13730 (Part 35) : 2017 IEC 60317-35 : 2013 Reviewed In : 2024 IEC 60317-35:2013	Specifications for particular types of winding wires Part 35 solderable polyurethane enamelled round copper wire class 155 with a bonding layer
37	IS 13730 (Part 36) : 2017 IEC 60317-36 : 2013 Reviewed In : 2024 IEC 60317-36:2013	Specifications for particular types of winding wires Part 36 solderable polyesterimide enamelled round copper wire class 180 with a bonding layer
38	IS 13730 (Part 37) : 2017 IEC 60317-37 : 2013 Reviewed In : 2024 IEC 60317-37:2013	Specifications for particular types of winding wires Part 37 polyesterimide enamelled round copper wire class 180 with a bonding layer
39	IS 13730 (Part 38) : 2018 IEC 60317-38 : 2013 Reviewed In : 2024 IEC 60317-38	Specifications for particular types of winding wires Part 38 polyester or polyesterimide overcoated with polyamide - Imide enamelled round copper wire class 200 with a bonding layer
40	IS 13730 (Part 39) : 2018 IEC 60317-39 : 2015 Reviewed In : 2024 IEC 60317-39	Specifications for particular types of winding wires Part 39 glass - Fibre braided resin or varnish - Impregnated bare or enamelled rectangular copper wire temperature index 180 First Revision
41	IS 13730 (Part 43) : 2013 IEC 60317-43 Reviewed In : 2024 IEC 60317-43	Specification for particular types of winding wires Part 43 aromatic polyimide tape wrapped round copper wire class 240 First Revision
42	IS 13730 (Part 44) : 2013 IEC 60317-44 Reviewed In : 2024 IEC 60317-44	Specification for particular types of winding wires Part 44 aromatic polyimide tape wrapped rectangular copper wire class 240 First Revision
43	IS 13730 (Part 45) : 1999 IEC 60317-45 Reviewed In : 2024 Reaffirmed but not taken up for revision IEC 60317-45	Specifications for particular types of winding wires Part 45 polyester enamelled round copper wire class 130
44	IS 13730 (Part 46) : 2017 IEC 60317-46 : 2013 Reviewed In : 2024 IEC 60317-46:2013	Specifications for particular types of winding wires Part 46 aromatic polyimide enamelled round copper wire class 240
45	IS 13730 (Part 47) : 2017 IEC 60317-47 : 2013 Reviewed In : 2024 IEC 60317-47:2013	Specifications for particular types of winding wires Part 47 aromatic polyimide enamelled rectangular copper wire class 240
46	IS 13730 (Part 48) : 2018 IEC 60217-48 : 2012 Reviewed In : 2024 IEC 60317-48	Specifications for particular types of winding wires Part 48 glass - Fibre wound resin or varnish impregnated bare or enamelled round copper wire temperature index 155 First Revision
47	IS 13730 (Part 49) : 2018 IEC 60317-49 : 2012 Reviewed In : 2024 IEC 60317-49	Specifications for particular types of winding wires Part 49 glass - Fibre wound high temperature resin or varnish - Impregnated bare or enamelled round copper wire class 180 First Revision
48	IS 13730 (Part 50) : 2018 IEC 60317-50 : 2012 Reviewed In : 2024 IEC 60317-50	Specifications for particular types of winding wires Part 50 glass - Fibre wound silicone resin or varnish impregnated bare or enamelled round copper wire class 200 First Revision
49	IS 13730 (Part 53) : 2018 IEC60317-53 : 2014 Reviewed In : 2024 IEC60317-53	Specifications for particular types of winding wires Part 53 aromatic polyimide Aramid tape wrapped rectangular copper wire temperature index 220 First Revision
50	IS 14841 (Part 2/Sec 2) :	Packaging of winding wires Part 2 cylindrical barrelled delivery spools Sec 2 specification for

	2000 IEC 60264-2-2 Reviewed In : 2021 IEC 60264-2-2	returnable spools made fromThermoplastic materials
51	IS 14841 (Part 3/Sec 2) : 2000 IEC 60264-3-2 Reviewed In : 2021 IEC 60264-3-2	Packaging of winding wires Part 3 taper barrelled delivery spools Sec 2 specification for returnable spools made fromThermoplastic materials
52	IS 14841 (Part 3/Sec 3) : 2000 Reviewed In : 2021 IEC 60264-3-3	Packaging of winding wires Part 3 taper barrelled dellVery spools Sec 3 specification for non - Returnable spools made from thermoplastic material
53	IS 2069 : 1991 Reviewed In : 2021	Drums for covered winding wires and strips for electrical purposes - Specification Second Revision
54	IS 6162 (Part 1) : 1971 Reviewed In : 2018 IEC Publication 111 (1959), BS 2627 : 1961	Specification for paper - Covered aluminium conductors Part 1 round conductors
55	IS 6162 (Part 2) : 1971 Reviewed In : 2018 B.S. 2776 : Part 2: 1956	Specification for paper covered aluminium conductors Part 2 rectangular conductors
56	IS 6181 : 1971 Reviewed In : 2018 Document 70/3817 Draft British Standard Specification	Specification for varnish bonded glass - Fibre braided rectangular copper conductors
57	IS 7391 (Part 1) : 1974 Reviewed In : 2018 IEC Pub 182-1(1964)	Specification For cotton Covered Copper Conductors Part 1 round conductors
58	IS 7391 (Part 2) : 1974 Reviewed In : 2018	Specification for cotton covered copper conductors Part 2 rectangular conductors
59	IS 7404 (Part 1) : 1991 Reviewed In : 2021	Paper covered copper conductors - Specification Part 1 round conductors First Revision
60	IS 7576 : 1974 Reviewed In : 2018 BS : 4770 : 197 1	Specification for bunched enamelled copper wires with silk covering
61	IS 8572 : 1993 Reviewed In : 2018	Paper - Covered flexible stranded copper conductors for transformer leads - Specification First Revision
62	IS 8783 (Part 4/Sec 1) : 1995 Reviewed In : 2021	Winding wires for submersible motors - Specification Part 4 specification for indmdual wires Sec 1 HR PVC insulated wires First Revision
63	IS 8783 (Part 4/Sec 2) : 1995 Reviewed In : 2021	Winding wires for submersible motors - specification Part 4 specification for individual wires Sec 2 crosslinked polyethylene insulated and polyamide jacketed wires First Revision
64	IS 8783 (Part 4/Sec 3) : 1995 Reviewed In : 2021	Winding wires for submersible motors - Specification Part 4 specification for individual wires Sec 3 polyester and polypropylene insulated winding wires First Revision