National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TESTING LABORATORY OF DURGA INDUSTRIES, E-861, DSIIDC INDUSTRIAL AREA, NARELA, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11532 **Page No** 1 of 11

Validity 04/04/2023 to 03/04/2025 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working Voltages up to and including 1100 Volts.	Ageing Test in Air Oven of Insulation and sheath	IS 14255 + AMD 1 (Clause No. 10.1.c(ii), 10.2.g & 10.1.c(i)), IS 5831, IS 10810 (Part 11)
2	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working Voltages up to and including 1100 Volts.	Bending Test	IS 14255 + AMD 1 (Clause No. 10.4 & 11.4), IS 10810 (Part 50)
3	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working Voltages up to and including 1100 Volts.	Breaking load for main & messenger Conductor	IS 14255 + AMD 1 (Clause No. 10.1.a.i, 10.2.a, Table 3), IS 10810 (Part 2)
4	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working Voltages up to and including 1100 Volts.	Conductor Resistance Test	IS 14255 + AMD 1 (Clause No. 10.3.a, 10.2.e, 10.1.a.iii & 10.1.b.iii), IS 8130, IS 10810 (Part 5)
5	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working Voltages up to and including 1100 Volts.	Copper purity test	IS 191 (Table 4)
6	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working Voltages up to and including 1100 Volts.	Elongation at break	IS 14255 + AMD 1 (Clause No. 10.1.c.i, 10.2.g, 10.1.c.ii & Table 1), IS 5831, IS 10810 (Part 7)
7	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working Voltages up to and including 1100 Volts.	Elongation test	IS 14255 + AMD 1 (Clause No. 10.1.b.ii, 10.2.d, 11.3), IS 10810 (Part 2)
8	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working Voltages up to and including 1100 Volts.	High Voltage Test	IS 14255 + AMD 1 (Clause No. 10.1.g, 10.2.k, 10.3.b, 11.2, 15.1.g), IS 10810 (Part 45)
9	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working Voltages up to and including 1100 Volts.	Hot set test	IS 14255 + AMD 1 (Clause No. 10.1.c.iii & 10.2.h), IS 10810 (Part 30)
10	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working Voltages up to and including 1100 Volts.	Insulation Resistance (Volume Resistivity) Insulation resistance at ambient & maximum temperature (90 °C)	IS 14255 + AMD 1 (Clause No. 10.2.j & 10.1.f), IS 5831, IS 10810 (Part 43)
11	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working Voltages up to and including 1100 Volts.	Shrinkage Test	IS 14255 + AMD 1 (Clause No. 10.1.c.iv), IS 5831, IS 10810 (Part 12)
12	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working Voltages up to and including 1100 Volts.	Tensile strength & elongation of PE outer sheath before & after ageing	IS 14255 + AMD 1 (Clause No. 10.1.d.i, Table 2), IS 10810 (Part 7)
13	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working Voltages up to and including 1100 Volts.	Tensile test	IS 14255 + AMD 1 (Clause No. 10.1.a.i, 10.2.a & Table 3), IS 8130, IS 10810 (Part 2

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14	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working Voltages up to and including 1100 Volts.	Test for thickness insulation	IS 14255 + AMD 1 (Clause No. 10.2.f, 10.1.e & Table 4), IS 10810 (Part 8)
15	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working Voltages up to and including 1100 Volts.	Test for thickness insulation	IS 14255 + AMD 1 (Clause No. 10.2.f, 10.1.e & Table 4), IS 10810 (Part 8
16	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working Voltages up to and including 1100 Volts.	Water absorption (gravimetric)	IS 14255 + AMD 1 (Clause No. 10.1.c.iv), IS 5831, IS 10810 (Part 12), IS 5831 + AMD 2 (Table 1 Sr. No. xv), IS 10810 (Part 33) + AMD 2
17	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working Voltages up to and including 1100 Volts.	Wrapping Test	IS 14255 + AMD 1 (Clause No. 10.1.a.ii & 10.2.b), IS 8130, IS 10810 (Part 3)
18	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Annealing test for wires used in conductors	IS 7098 (Part 1) + AMD 5 (Clause No. 15.1.a.i, 15.2.a), IS 8130 + AMD 1 (Clause No. 7.1.2), IS 10810 (Part 1)
19	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Cold Bend	IS 7098 (Part 1) + AMD 5 (Clause No. 15.4.a), IS 5831 + A1 & A2 (Table 1(ix) & 2(vii)), IS 10810 (Part 20)
20	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Cold Impact	IS 7098 (Part 1) + AMD 5 (Clause No. 15.4.b), IS 5831 + A1 & A2 (Table 2(viii)), IS 10810 (Part 21)
21	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Conductor Resistance	IS 7098 (Part 1) + AMD 5 (Clause No.15.3.a, 15.2.d & 15.1.a.iv), IS 8130 + AMD 1 (Clause No. 7.3), IS 10810 (Part 5)
22	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Copper purity test	IS 191 (Table 4)
23	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Dimensions of armour Wire / Strip	IS 7098 (Part 1) + AMD 5 (Clause No. 13.3 & 15.1.b), IS 3975 (Clause No. 7.2, Table 3 & Clause No. 7.3, Table 4), IS 10810 (Part 36)
24	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Elongation at break of Insulation and Sheath	IS 7098 (Part 1) + AMD 5 (Table 1, Sr. No. i), IS 5831 + A1 & A2 (Table 1(iii.b)), IS 10810 (Part 7)

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25	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Elongation on Insulaton and Sheath (After Ageing)	IS 7098 (Part 1) + AMD 5 (Table 1, Sr. No. iii.c), IS 5831 + A1 & A2 (Table 1(iv.c.1)), IS 10810 (Part 7 & 11)
26	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Flame retardant on bunched cables	IS 7098 (Part 1) + AMD 5 (Clause No. 16.11, 15.1.1), IS 10810 (Part 62)
27	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Flame retardant on single cable	IS 7098 (Part 1) + AMD 5 (Clause No. 16.10), IS 10810 (Part 61)
28	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Flammability	IS 7098 (Part 1) + AMD 5 (Clause No. 16.3 & 15.1.h), IS 10810 (Part 53)
29	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	HCL acid gas emission	IS 7098 (Part 1) + AMD 5 (Clause No. 16.13 & 15.1.1), IS 10810 (Part 59)
30	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Heat Shock on PVC sheaths (resistance of PVC sheaths to cracking)	IS 7098 (Part 1) + AMD 5 (Clause No. 15.1.e.vi), IS 5831 + A1 & A2 (Table 2(v)), IS 10810 (Part 14)
31	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Heat Shock Test on Sheath	IS 7098 (Part 1, Clause No. 15.1(e).vi), IS 5831 + A1 & A2 (Table 2(v)), IS 10810 (Part 14)
32	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	High Voltage	IS 7098 (Part 1) + AMD 5 (Clause No. 16.2, 15.3.b, 15.2.h & 15.1.g), IS 10810 (Part 45)
33	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Hot Deformation Test	IS 7098 (Part 1) + AMD 5 (Clause No. 15.1.e.v), IS 5831 + A1 & A2 (Table 2(iv)), IS 10810 (Part 15)
34	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Hot Set	IS 7098 (Part 1) + AMD 5 (Table 1, 15.1.d.iii, 15.2.f) ,IS 10810 (Part 30)
35	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Insulation Resistance (Volume Resistivity) Insulation resistance at ambient & maximum temperature (90 °C)	IS 7098 (Part 1) + AMD 5 (Table 1, Clause No. 15.1.f & 15.2.i), IS 10810 (Part 43)
36	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Loss of mass on PVC outer sheath of type ST2	IS 7098 (Part 1) + AMD 5 (Clause No. 15.1.e.iii), IS 5831 + A1 & A2 (Table 1(v)), IS 10810 (Part 10)

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37	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Mass of zinc coating of Armour	IS 7098 (Part 1) + AMD 5 (Clause No. 13.6.f & 15.1.b), IS 10810 (Part 41)
38	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Oxygen Index Test	IS 7098 (Part 1) + AMD 5 (Clause No. 16.9 & 15.1.1), ASTM D2863, IS 10810 (Part 58)
39	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Resistivity of Amour wires/strips	IS 7098 (Part 1) + AMD 5 (Clause No. 13.6 g, 15.1.b & 15.3.c), IS 3975 (Clause No. 8.4), IS 10810 (Part 42)
40	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Shrinkage test on Insulation	IS 7098 (Part 1) + AMD 5 (Clause No. 15.1.e.iv), IS 10810 (Part 12)
41	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Shrinkage test on Sheath	IS 7098 (Part 1) + AMD 5 (Clause No. 15.1.e.iv), IS 5831 + A1 & A2 (Table 1(viii) & 2 (vi)), IS 10810 (Part 12)
42	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Smoke Density Test	IS 7098 (Part 1) + AMD 5 (Clause 15.1.1), ASTM D2843, IS 13360 (Part 6, Section 9)
43	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Temperature Index Test	IS 7098 (Part 1) + AMD 5 (Clause No. 16.14, 15.1.1), ASTM D2863, IS 10810 (Part 64)
44	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Tensile & elongation at break of armour	IS 7098 (Part 1) + AMD 5 (Clause No. 13.6.a & b & 15.1.b), IS 3975 (Clause No. 8, Table 5), IS 10810 (Part 37)
45	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Tensile on Aluminium	IS 7098 (Part 1) + AMD 5 (Clause No. 15.2.b & 15.1.a.ii), IS 8130 + AMD 1 (Clause No.7.2.1), IS 10810 (Part 2)
46	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Tensile test on Insulation and Sheath	IS 7098 (Part 1) + AMD 5 (Table 1, Sr. No. i), IS 5831 + A1 & A2 (Table 1(iii.a)), IS 10810 (Part 7)
47	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Tensile test on Insulation and Sheath (After Ageing)	IS 7098 (Part 1) + AMD 5 (Table 1, Sr. No. iii.b), IS 5831 + A1 & A2 (Table 1(iv.b.1)), IS 10810 (Part 7 & 11)

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48	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Thermal stability of PVC	IS 7098 (Part 1) + AMD 5 (Clause No.15.1.e.vii), IS 5831 + A1 & A2 (Table 2(xi)), IS 10810 (Part 60)
49	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Thickness of Insulation , Over sheath (Outer sheath) & Inner Sheath	IS 7098 (Part 1) + AMD 5 (Clause No. 9, 12, 14, 15.1.c, 15.2.e), IS 10810 (Part 6)
50	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Torsion Test for Round Wires	IS 7098 (Part 1) + AMD 5 (Clause No. 13.6 c, 15.1.b), IS 3975 (Clause No. 8.2, Table No. 6), IS 10810 (Part 38)
51	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Uniformity of Zinc coating	IS 7098 (Part 1)+ AMD 5 (Clause No. 13.6 e, 15.1.b), IS 3975 (Clause No. 9.2.a & b), IS 10810 (Part 40)
52	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Water Absorption on Insulation (Gravimetric)	IS 7098 (Part 1) + AMD 5 (Table 1, 15.1.d.v), IS 10810 (Part 33)
53	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Winding on Galvanized strip for armouring	IS 7098 (Part 1) + AMD 5 (Clause No.13.6 d, 15.1.b), IS 3975 (Clause No. 9.4), IS 10810 (Part 39)
54	ELECTRICAL- CABLES & WIRES	Crosslinked Polyethylene Insulated PVC Sheathed Cables for Working Voltages up to and including 1100 Volts.	Wrapping on Aluminium	IS 7098 (Part 1) + AMD 5 (Clause No. 15.2 c, 15.1.a.iii), IS 8130 + AMD 1 (Clause No. 7.2.2), IS 10810 (Part 3)
55	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Ageing in Air Oven	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.d.2), IS 5831 + A1 & A2 (Table 1(iv) & 2(ii)), IS 10810 (Part 11)
56	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Annealing test for wires used in conductors	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.a.1 & 15.2.a), IS 8130 + AMD 1 (Clause No. 7.1.2), IS 10810 (Part 1)
57	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Elongation of Insulation and Sheath	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.d.1), IS 5831 + A1 & A2 (Table 1(iii) & 2(i)), IS 10810 (Part 7)
58	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Elongation of Insulation and Sheath (after Ageing)	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.d.1), IS 5831 + A1 & A2 (Table 1(iii) & 2(i)), IS 10810 (Part 7), IS 10810 (Part 11)

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59	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Flame retardant on single cable	IS 1554 (Part 1) + AMD 5 (Clause No. 16.6 & 15.1.1), IS 10810 (Part 61)
60	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Flammability	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.h & 16.4), IS 10810 (Part 53)
61	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Loss of Mass Test	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.d.5), IS 5831 + A1 & A2 (Table 1(v) & 2 (iii)), IS 10810 (Part 10)
62	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Mass of zinc coating of Armour	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.b), IS 3975 (Clause No. 9.1), IS 4826 (Table 2), IS 10810 (Part 41)
63	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Oxygen Index Test	IS 1554 (Part 1) + AMD 5 (Clause No. 16.5 & 15.1.1), ASTM D2863, IS 10810 (Part 58)
64	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Shrinkage test on Insulation and Sheath	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.d.3), IS 5831 + A1 & A2 (Table 1(viii) & 2(vi)), IS 10810 (Part 12)
65	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Smoke Density Test	IS 1554 (Part 1) + AMD 5 (Clause No. 16.5 & 15.1.1), ASTM D2843, IS 13360 (Part 6, Section 9)
66	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Tensile of Insulation and Sheath	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.d.1), IS 5831 + A1 & A2 (Table 1(iii) & 2(i)), IS 10810 (Part 7)
67	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Tensile of Insulation and Sheath (after Ageing)	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.d.1), IS 5831 + A1 & A2 (Table 1(iii) & 2(i)), IS 10810 (Part 7 & 11)
68	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Tensile on Aluminium	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.a.2 & 15.2 b), IS 8130 + AMD 1 (Clause No. 7.2.1), IS 10810 (Part 2)
69	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Tensile strength & elongation at break of armouring materials	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.b), IS 3975 (Clause No. 8, Table 5), IS 10810 (Part 37)

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70	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Thermal Stability of PVC Insulation and Sheath	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.d.7), IS 5831 + A1 & A2 (Table 1(xiii)), Table 2(xi)), IS 10810 (Part 60)
71	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Thickness of Insulation , Over sheath (Outer sheath) & Inner Sheath	IS 1554 (Part 1) + AMD 5 (Clause No. 9, 12, 14, 15.1.c & 15.2.e), IS 10810 (Part 6)
72	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Torsion Test for Round Wires	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.b), IS 3975 (Clause No. 8.2, Table No. 6), IS 10810 (Part 38)
73	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts	Cold Impact	IS 1554 (Part 1) + AMD 5 (Clause No. 15.4.b), IS 5831 + A1 & A2 (Table 1(x) & 2(viii)), IS 10810 (Part 21)
74	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts	Dimensions of armour Wire / Strip	IS 1554 (Part 1) + AMD 5 (Clause No. 13.3, 15.1.b & Table 5), IS 3975 (Clause No. 7.2, Table No. 3 & Clause No. 7.3, Table No. 4), IS 10810 (Part 36)
75	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts	Flame retardant on bunched cables	IS 1554 (Part 1) + AMD 5 (Clause No. 16.7, 15.1.1), IS 10810 (Part 62)
76	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts	Insulation Resistance (Volume Resistivity) Insulation resistance at ambient & maximum temperature (90 °C)	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.e, 15.2 g), IS 5831 + A1 & A2 (Table 1(i)), IS 10810 (Part 43)
77	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Cold Bend	IS 1554 (Part 1) + AMD 5 (Clause No. 15.4.a), IS 5831 + A1 & A2 (Table 1(ix) & 2 (vii)), IS 10810 (Part 20)
78	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Conductor Resistance	IS 1554 (Part 1) + AMD 5 (Clause no. 15.1.a.4, 15.2.d, 15.3.a), IS 8130 + AMD 1 (Clause No. 7.3), IS 10810 (Part 5)
79	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Copper purity test	IS 191 (Table 4)
80	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	HCL acid gas emission	IS 1554 (Part 1) + AMD 5 (Clause No. 16.9, 15.1.1), IS 10810 (Part 59)

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81	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Heat Shock on PVC sheaths (resistance of PVC sheaths to cracking)	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.d.6), IS 5831 + A1 & A2 (Table 1(vii) & 2(v)), IS 10810 (Part 14)
82	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	High Voltage (Water Immersion) AC	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.f, 16.3), IS 10810 (Part 45)
83	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	High Voltage (Water Immersion) DC	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.f, 16.3), IS 10810 (Part 45)
84	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	High Voltage	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.g, 15.2.h, 15.3.b, 16.2), IS 10810 (Part 45)
85	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Hot Deformation Test	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.d.4), IS 5831 + A1 & A2 (Table 1(vi) & 2(iv)), IS 10810 (Part 15)
86	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Resistivity of Amour wires/strips	IS 1554 (Part 1) + AMD 5 (Clause No. 13.5, 15.1.b, 15.3.c, 15.4.c, Table 6), IS 3975 (Clause No. 8.4), IS 10810 (Part 42)
87	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Temperature Index Test	IS 1554 (Part 1) + AMD 5 (Clause No. 16.10, 15.1.1), ASTM D2863, IS 10810 (Part 64)
88	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Uniformity of Zinc coating	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.b), IS 3975 (Clause No. 9.2.a & b), IS 10810 (Part 40)
89	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Winding on Galvanized strip for armouring	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.b), IS 3975 (Clause No. 9.4), IS 10810 (Part 39)
90	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 Volts.	Wrapping on Aluminium	IS 1554 (Part 1) + AMD 5 (Clause No. 15.1.a.3, 15.2.c), IS 8130 + AMD 1 (Clause No. 7.2.2), IS 10810 (Part 3)
91	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Annealing test for wires used in conductors	IS 694 (Table 1(iii), a(i)), IS 8130 + AMD 1 Clause No. 7.1.2, IS 10810 (Part 1)

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92	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Thickness of Insulation, Over sheath (Outer sheath) & Inner Sheath	IS 694 (Table 3 to 10), IS 10810 (Part 6)
93	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Wrapping Test (for aluminum)	IS 694 (Table 1(iii), a(iii)), IS 8130 + AMD 1 (Clause No. 7.2.2), IS 10810 (Part 3)
94	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Thermal Stability of PVC Insulation and Sheath	IS 694 (Table 1 (iii), c (vii)), IS 5831 + A1 & A2 (Table 1(xiii), Table 2(xi)), IS 10810 (Part 60)
95	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Cold Bend Test	IS 694 (Table 1(iii), c(viii)), IS 5831 + A1 & A2 (Table 1(ix), Table 2(vii)), IS 10810 (Part 20)
96	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Cold Impact Test	IS 694 (Table 1(iii), c(viii)), IS 5831 + A1 & A2 (Table 1(ix), Table 2(vii)), IS 10810 (Part 20)
97	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Conductor Resistance	IS 694 (Clause No. 4.2), IS 8130 + AMD 1 (Clause No. 7.3), IS 10810 (Part 5)
98	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Copper purity test	IS 191 (Table 4)
99	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Elongation at break of Insulation and Sheath	IS 694 (Table 1(iii), c(i) & d(i)), IS 5831 + A1 & A2 (Table 1(iii) & Table 2(i)), IS 10810 (Part 7)
100	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Elongation at break of Insulation and Sheath (after Ageing)	IS 694 (Table 1(iii), c(i) & d(i)), IS 5831 + A1 & A2 (Table 1(iv) & 2(ii)), IS 10810 (Part 7), IS 10810 (Part 11)
101	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Flammability Test	IS 694 (Clause No. 10.4), IS 10810 (Part 53)
102	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	HCL acid gas emission	IS 694 (Clause No. 10.6), IS 10810 (Part 59)
103	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Heat Shock Test	IS 694 (Table 1(iii), c(v)), IS 5831 + A1 & A2 (Table 1(vii)) & 2(v)), IS 10810 (Part 14)
104	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	High Voltage (Water Immersion) Test (AC)	IS 694 (Clause No. 10.1), IS 10810 (Part 45)

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105	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	High Voltage (Water Immersion) Test (DC)	IS 694 (Clause No. 10.1), IS 10810 (Part 45)
106	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	High Voltage Test	IS 694 (Clause No. 10.2), IS 10810 (Part 45)
107	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Hot Deformation Test	IS 694 (Table 1(iii), c(vi)), IS 5831 + A1 & A2 (Table 1(vi) & 2 (iv)), IS 10810 (Part 15)
108	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Insulation Resistance (Volume Resistivity) Insulation resistance at ambient & maximum temperature (85 °C)	IS 694 (Table 1(e)3), IS 5831 + A1 & A2 (Table 1(i)), IS 10810 (Part 43)
109	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Loss of Mass Test	IS 694 (Clause No. 15.1, Table 1(iii), c(ii)), IS 5831 + A1 & A2 (Table 1(v) & 2(iii)), IS 10810 (Part 10)
110	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Overall Diameter	IS 694 (Table 3 to 10), IS 10810 (Part 6)
111	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Oxygen Index Test	IS 694 (Clause No. 10.5), ASTM D2863, IS 10810 (Part 58)
112	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Persulphate test on Tinned copper	IS 694 (Table 1(ii)q), IS 8130 + AMD 1 (Clause No. 7.1.1), IS 10810 (Part 4)
113	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Shrinkage test on Insulation and Sheath	IS 694 (Table 1(iii), c(4)), IS 5831 + A1 & A2 (Table 1(viii) & 2(vi)), IS 10810 (Part 12)
114	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Smoke Density Test	IS 694 (Clause No. 10.8), ASTM D2843, IS 13360 (Part 6, Section 9)
115	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Temperature Index Test	IS 694 (Clause No. 10.7), ASTM D2863, IS 10810 (Part 64)
116	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Tensile of Insulation and Sheath	IS 694 (Table 1(iii), c(i) & d(i)), IS 5831 + A1 & A2 (Table 1(iii) & 2(i)), IS 10810 (Part 7)
117	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Tensile on Aluminium	IS 694 (Table 1(iii) & a(ii)), IS 8130 + AMD 1 (Clause No. 7.2.1), IS 10810 (Part 2)

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118	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 Volts.	Tensile strength of Insulation and Sheath (after Ageing)	IS 694 (Table 1(iii), c(i) & d(i)), IS 5831 + A1 & A2 (Table 1(iii) 2(i)), IS 10810 (Part 7 & 11)

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