



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : BONTON CABLES (INDIA) PRIVATE LIMITED, A-115, PHASE-1, RIICO INDUSTRIAL AREA, BHIWADI, ALWAR, RAJASTHAN, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-9898

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Validity 24/09/2025 to 23/09/2029

Last Amended on 22/10/2025

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 Testing				
1	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Adhesion Test	IS 3975
2	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Annealing Test for Wires used in Conductors	IS 7098 (Part 1, Clause 15.1(a)-i), IS 10810 (Part 1)
3	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Cold Bend Test (Dia 6 mm,8 mm,9.9 mm,10mm, 12 mm,13mm,14 mm,15mm, 16 mm,18mm,19 mm,20mm, 22 mm, 25.40 mm,26 mm, 32 mm,38 mm,63 mm,76 mm,120 mm)	IS 7098 (Part 1, Clause 15.4(a)), IS 10810 (Part 20)
4	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Cold Impact Test	IS 7098 (Part 1, Clause 15.4(b)), IS 10810 (Part 21)
5	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Conductor Resistance Test	IS 7098 (Part 1, Clause 15.1(a)-iv), IS 10810 (Part 5)
6	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Dimensions of Armouring Material	IS 7098 (Part 1, Clause 15.1(b)), IS 10810 (Part 36)
7	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Elongation % Break (after Ageing)	IS 7098 (Part 1, Clause 15.1(d)i, 15.1(e)ii), IS 10810 (Part 11)
8	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Elongation % Break of Insulation and Sheath	IS 7098 (Part 1, Clause 15.1(d)i, 15.1(e)ii), IS 10810 (Part 7 & 11)
9	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Flame Retardant Test for Bunched Cables	IS 7098 (Part 1, Clause 16.11), IS 10810 (Part 62)
10	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Flame Retardant Test for Single Cables	IS 7098 (Part 1, Clause 16.11), IS 10810 (Part 62)
11	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Flammability Test	IS 7098 (Part 1, Clause 16.3), IS 10810 (Part 53)
12	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	HCl Acid Gas Generation Test	IS 7098 (Part 1, Clause 16.13), IS 10810 (Part 59)
13	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Heat Shock Test	IS 7098 (Part 1, Clause 15.1(e)-vi), IS 10810 (Part 14)



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14	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	High Voltage	IS 7098 (Part 1, Clause 16.2), IS 10810 (Part 45)
15	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Hot Deformation Test	IS 7098 (Part 1, Clause 15.1(e)v), IS 10810 (Part 15)
16	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Hot Set Test	IS 7098 (Part 1, Clause 4.1, Table-1), IS 10810 (Part 30)
17	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Insulation Resistance (Volume Resistivity)	IS 7098 (Part 1, Clause 4.1, Table-1), IS 10810 (Part 43)
18	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Loss of Mass Test	IS 7098 (Part 1, Clause 15.1(e)iii), IS 10810 (Part 10)
19	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Mass of Zinc Coating	IS 7098 (Part 1, Clause 15.1(b)), IS 10810 (Part 41)
20	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Oxygen Index Test	IS 7098 (Part 1, Clause 16.9), IS 10810 (Part 58)
21	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Shrinkage Test	IS 7098 (Part 1, Clause 15.1(d)iv, 15.1(e)iv), IS 10810 (Part 12)
22	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Smoke Density Test	IS 7098 (Part 1, Clause 16.15), IS 10810 (Part 63)
23	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Temperature Index Test	IS 7098 (Part 1, Clause 16.14), IS 10810 (Part 64)
24	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Tensile Strength (after Ageing)	IS 7098 (Part 1, Clause 15.1(d)i, 15.1(e)ii), IS 10810 (Part 11)
25	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Tensile Strength of Insulation and Sheath	IS 7098 (Part 1, Clause 15.1(d)i, 15.1(e)i), IS 10810 (Part 7 & 11)
26	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Tensile Strength Test for Aluminium Wire	IS 7098 (Part 1, Clause 15.1(a)ii), IS 10810 (Part 2)
27	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Tensile Strength Test for Armour Wire	IS 7098 (Part 1, Clause 15.1(b)), IS 10810 (Part 37)



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28	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Thermal Stability of PVC Insulation and Sheath	IS 7098 (Part 1, Clause 15.1(e) vii), IS 10810 (Part 60)
29	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Thickness of Insulation & Sheath/ Overall Dimensions	IS 7098 (Part 1, Clause 9.2, 9.3, 14.3.1 & 14.3.2), IS 10810 (Part 6)
30	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Uniformity of Zinc Coating	IS 7098 (Part 1, Clause 15.1(b)), IS 10810 (Part 40)
31	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Water Absorption Test (Gravimetric)	IS 7098 (Part 1, Clause 4.1, Table-1), IS 10810 (Part 33)
32	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Winding Test on Galvanized Steel Strip for Armouring	IS 7098 (Part 1, Clause 15.1(b)), IS 10810 (Part 39)
33	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene Insulated Thermoplastic Sheathed Cables for working voltages up to and including 1100 V	Wrapping Test (for aluminum)	IS 7098 (Part 1, Clause 15.1(a) iii), IS 10810 (Part 3)
34	ELECTRICAL- CABLES & WIRES	Electric Cables- Thermosetting Insulated and Thermoplastic Sheathed Cables for Voltages up to and including 450/750 V for Electric Power and Lighting and having Low Emission of Smoke and Corrosive Gases when affected by fire	Conductor Resistance Test	BS EN 60228
35	ELECTRICAL- CABLES & WIRES	Electric Cables- Thermosetting Insulated and Thermoplastic Sheathed Cables for Voltages up to and including 450/750 V for Electric Power and Lighting and having Low Emission of Smoke and Corrosive Gases when affected by fire	Flame Propagation on a Single Cable	BS EN 60332-1-2
36	ELECTRICAL- CABLES & WIRES	Electric Cables- Thermosetting Insulated and Thermoplastic Sheathed Cables for Voltages up to and including 450/750 V for Electric Power and Lighting and having Low Emission of Smoke and Corrosive Gases when affected by fire	HCl Acid Gas Generation Test	EN 50267-2-1
37	ELECTRICAL- CABLES & WIRES	Electric Cables- Thermosetting Insulated and Thermoplastic Sheathed Cables for Voltages up to and including 450/750 V for Electric Power and Lighting and having Low Emission of Smoke and Corrosive Gases when affected by fire	Insulation Material	BS EN 50363-5
38	ELECTRICAL- CABLES & WIRES	Electric Cables- Thermosetting Insulated and Thermoplastic Sheathed Cables for Voltages up to and including 450/750 V for Electric Power and Lighting and having Low Emission of Smoke and Corrosive Gases when affected by fire	Insulation Resistance	BS EN 50395
39	ELECTRICAL- CABLES & WIRES	Electric Cables- Thermosetting Insulated and Thermoplastic Sheathed Cables for Voltages up to and including 450/750 V for Electric Power and Lighting and having Low Emission of Smoke and Corrosive Gases when affected by fire	Vertical Flame Spread of Bunched Wires and Cables	BS EN 60332-3-24
40	ELECTRICAL- CABLES & WIRES	Electric Cables- Thermosetting Insulated and Thermoplastic Sheathed Cables for Voltages up to and including 450/750 V for Electric Power and Lighting and having Low Emission of Smoke and Corrosive Gases when affected by fire	Voltage Test on Completed Cable	BS EN 50395



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41	ELECTRICAL- CABLES & WIRES	Electric Cables- Thermosetting Insulated, Armoured Cables of Rated Voltages of 600/1000 V and 1900/3300 V for Fixed Installations, having Low Emission of Smoke and Corrosive Gases when affected by Fire	Class of Conductor	BS 6724
42	ELECTRICAL- CABLES & WIRES	Electric Cables- Thermosetting Insulated, Armoured Cables of Rated Voltages of 600/1000 V and 1900/3300 V for Fixed Installations, having Low Emission of Smoke and Corrosive Gases when affected by Fire	Conductor Resistance Test	BS EN 60228
43	ELECTRICAL- CABLES & WIRES	Electric Cables- Thermosetting Insulated, Armoured Cables of Rated Voltages of 600/1000 V and 1900/3300 V for Fixed Installations, having Low Emission of Smoke and Corrosive Gases when affected by Fire	Flame Propagation on a Single Cable	BS EN 60332-1-2
44	ELECTRICAL- CABLES & WIRES	Electric Cables- Thermosetting Insulated, Armoured Cables of Rated Voltages of 600/1000 V and 1900/3300 V for Fixed Installations, having Low Emission of Smoke and Corrosive Gases when affected by Fire	Flame Propagation on Multiple Cables	BS EN 60332-3-24
45	ELECTRICAL- CABLES & WIRES	Electric Cables- Thermosetting Insulated, Armoured Cables of Rated Voltages of 600/1000 V and 1900/3300 V for Fixed Installations, having Low Emission of Smoke and Corrosive Gases when affected by Fire	Insulation Material	BS 7655-1.3
46	ELECTRICAL- CABLES & WIRES	Electric Cables- Thermosetting Insulated, Armoured Cables of Rated Voltages of 600/1000 V and 1900/3300 V for Fixed Installations, having Low Emission of Smoke and Corrosive Gases when affected by Fire	Insulation Resistance Constant	BS 6469-99.2
47	ELECTRICAL- CABLES & WIRES	Electric Cables- Thermosetting Insulated, Armoured Cables of Rated Voltages of 600/1000 V and 1900/3300 V for Fixed Installations, having Low Emission of Smoke and Corrosive Gases when affected by Fire	Insulation Resistance Constant Test on Oversheath	BS 6724 (Clause 18.7)
48	ELECTRICAL- CABLES & WIRES	Electric Cables- Thermosetting Insulated, Armoured Cables of Rated Voltages of 600/1000 V and 1900/3300 V for Fixed Installations, having Low Emission of Smoke and Corrosive Gases when affected by Fire	Mass of Zinc Coating of Galvanised Steel Wire	BS 6724 (Table 1)
49	ELECTRICAL- CABLES & WIRES	Electric Cables- Thermosetting Insulated, Armoured Cables of Rated Voltages of 600/1000 V and 1900/3300 V for Fixed Installations, having Low Emission of Smoke and Corrosive Gases when affected by Fire	Measurement of Diameter of Round Wire Armour	BS 6724 (Clause 10.3)
50	ELECTRICAL- CABLES & WIRES	Electric Cables- Thermosetting Insulated, Armoured Cables of Rated Voltages of 600/1000 V and 1900/3300 V for Fixed Installations, having Low Emission of Smoke and Corrosive Gases when affected by Fire	Ovality Test	BS 6724
51	ELECTRICAL- CABLES & WIRES	Electric Cables- Thermosetting Insulated, Armoured Cables of Rated Voltages of 600/1000 V and 1900/3300 V for Fixed Installations, having Low Emission of Smoke and Corrosive Gases when affected by Fire	Resistance of Armour	BS 6724



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52	ELECTRICAL- CABLES & WIRES	Electric Cables- Thermosetting Insulated, Armoured Cables of Rated Voltages of 600/1000 V and 1900/3300 V for Fixed Installations, having Low Emission of Smoke and Corrosive Gases when affected by Fire	Voltage Test on Completed Cable	BS EN 50395 (Clause 6)
53	ELECTRICAL- CABLES & WIRES	Electric Cables- Thermosetting Insulated, Armoured Cables of Rated Voltages of 600/1000 V and 1900/3300 V for Fixed Installations, having Low Emission of Smoke and Corrosive Gases when affected by Fire	Wrapping Test for Galvanised Steel Wire	BS 6724 (Clause G.3, Annex-G)
54	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Conductor Resistance Test	BS EN 60228 (Annex-A)
55	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Elongation % Break (after Ageing)	BS 7655-1.3
56	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Fire Resistance Test	BS 7846
57	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Fire Resistance Test	BS 8434-2
58	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Fire Resistance Test	BS 8491
59	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Fire Resistance Test	BS EN 50200
60	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Fire Resistance Test	IEC 60331-21, IEC 60331-25
61	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Fire Resistance Test	IEC 60502-1
62	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Fire Resistance Test (C.W.Z. Type)	BS 6387



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63	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Flame Propagation on a Single Cable	BS EN 60332-1-2
64	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Flame Propagation on Multiple Cables	BS EN 60332-3-24
65	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	HCL Acid Gas Generation Test	EN 50267-2-1
66	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Hot Set Test	BS 7655-1.3
67	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Insulation Resistance	BS 7655-1.3
68	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Insulation Resistance Constant Test on Oversheath	BS 7846
69	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Mass of Zinc Coating of Galvanized Steel Wire	BS 7846
70	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Measurement of Diameter of Round Wire Armour	BS 7846
71	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Ovality Test	BS 7846
72	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Resistance of Armour	BS 7846
73	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Tensile Strength (after Ageing)	BS 7655-1.3



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74	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Test for Resistance to Fire, Cat-F2	BS 6387
75	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Test for Resistance to Fire, Cat-F30, F60, F120	BS 8491
76	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Vertical Flame Spread of Bunched Wires and Cables	BS EN 60332-3-24
77	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Voltage Test on Completed Cable	BS EN 50395 (Clause 6)
78	ELECTRICAL- CABLES & WIRES	Fire Survival Electric Cables- Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Wrapping Test for Galvanized Steel Wire	BS 7846
79	ELECTRICAL- CABLES & WIRES	Power Cables with Extruded Insulation for Rated voltages from 1 kV to 3 kV	Electrical Resistance of Conductor	IEC 60502-1 (Clause 15.2)
80	ELECTRICAL- CABLES & WIRES	Power Cables with Extruded Insulation for Rated voltages from 1 kV to 3 kV	Flame Spread Test on Bunched Cables	IEC 60332-3-10, IEC 60332-3-21, IEC 60332-3-22, IEC 60332-3-23, IEC 60332-3, IEC 60332-3-24, IEC 60332-3-25
81	ELECTRICAL- CABLES & WIRES	Power Cables with Extruded Insulation for Rated voltages from 1 kV to 3 kV	Flame Spread Test on Single Cables	IEC 60332-1
82	ELECTRICAL- CABLES & WIRES	Power Cables with Extruded Insulation for Rated voltages from 1 kV to 3 kV	HCl Acid Gas Emission Test	IEC 60754-1
83	ELECTRICAL- CABLES & WIRES	Power Cables with Extruded Insulation for Rated voltages from 1 kV to 3 kV	Measurement of Thickness	IEC 60502-1 (Clause 16.5)
84	ELECTRICAL- CABLES & WIRES	Power Cables with Extruded Insulation for Rated voltages from 1 kV to 3 kV	Voltage Test	IEC 60502-1 (Clause 15.3)
85	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Adhesion Test	IS 3975
86	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Annealing Test for Wires used in Conductors	IS 1554-1 (Clause 15.1(a)1), IS 10810 (Part 1)



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87	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Cold Bend Test (Dia 6 mm,8 mm,9.9 mm,10mm, 12 mm,13mm,14 mm,15mm, 16 mm,18mm,19 mm,20mm, 22 mm, 25.40 mm, 26 mm, 32 mm,38 mm, 63 mm,76 mm,120 mm)	IS 1554-1 (Clause 15.4(a)), IS 10810 (Part 20)
88	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Cold Impact Test	IS 1554-1 (Clause 15.4(b)), IS 10810 (Part 21)
89	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Conductor Resistance Test	IS 1554-1 (Clause 15.1(a)4), IS 10810 (Part 5)
90	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Dimensions of Armouring Material	IS 1554 (Part 1, Clause 15.1(b), Table 5), IS 10810 (Part 36)
91	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Elongation % Break (after Ageing)	IS 1554 (Part 1, Clause 15.1, Clause 15.1 (d)(1 & 2)), IS 10810 (Part 11)
92	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Elongation % Break of Insulation and Sheath	IS 1554 (Part 1, Clause 15.1, Clause 15.1(d)(1 & 2)), IS 10810 (Part 7)
93	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Flame Retardant Test for Bunched Cables	IS 1554 (Part 1, Clause 16.7), IS 10810 (Part 62)
94	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Flame Retardant Test for Single Cables	IS 1554 (Part 1, Clause 16.6), IS 10810 (Part 61)
95	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Flammability Test	IS 1554 (Part 1, Clause 16.4), IS 10810 (Part 53)
96	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	HCL Acid Gas Generation Test	IS 1554 (Part 1, Clause 16.9), IS 10810 (Part 59)
97	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Heat Shock Test	IS 1554 (Part 1, Clause 15.1(d)(6)), IS 10810 (Part 14)
98	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	High Voltage (Water Immersion) Test	IS 1554 (Part 1, Clause 16.3), IS 10810 (Part 45)
99	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	High Voltage Test	IS 1554 (Part 1, Clause 16.2), IS 10810 (Part 45)
100	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Hot Deformation Test	IS 1554 (Part 1, Clause 15.1(d)(4)), IS 10810 (Part 15)
101	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Insulation Resistance (Volume Resistivity)	IS 1554 (Part 1, Clause 15.1(e)), IS 10810 (Part 43)
102	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Loss of Mass Test	IS 1554 (Part 1, Clause 15.1 (d)(5)), IS 10810 (Part 10)
103	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Mass of Zinc Coating	IS 1554 (Part 1, Clause 15.1 (b)), IS 10810 (Part 41)



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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
104	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Oxygen Index Test	IS 1554 (Part 1, Clause 16.5), IS 10810 (Part 58)
105	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Resistivity & Conductance Test of Armour	IS 1554 (Part 1, Clause 15.1(b)), IS 10810 (Part 42)
106	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Shrinkage Test	IS 1554 (Part 1, Clause 15.1(d)(3)), IS 10810 (Part 12)
107	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Smoke Density Test	IS 1554 (Part 1, Clause 16.11), IS 10810 (Part 63)
108	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Temperature Index Test	IS 1554 (Part 1, Clause 16.10), IS 10810 (Part 64)
109	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Tensile Strength (after Ageing)	IS 1554 (Part 1, Clause 15.1, Clause 15.1 (d)(1 & 2)), IS 10810 (Part 11)
110	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Tensile Strength of Insulation and Sheath	IS 1554 (Part 1, Clause 15.1, Clause 15.1 (d)(1 & 2)), IS 10810 (Part 7)
111	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Tensile Strength Test for Aluminium Wire	IS 1554 (Part 1, Clause 15.1 (a)(2)), IS 10810 (Part 2)
112	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Tensile Strength Test for Armour Wire	IS 1554 (Part 1, Clause 15.1(b)), IS 10810 (Part 37)
113	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Thermal Stability of PVC Insulation and Sheath	IS 1554 (Part 1, Clause 15.1(d)(7)), IS 10810 (Part 60)
114	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Thickness of Insulation & Sheath/ Overall Dimensions	IS 1554 (Part 1, Clause 9, 12, 14 & Table 2,4 & 7), IS 10810 (Part 6)
115	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Uniformity of Zinc Coating	IS 1554 (Part 1, Clause 15.1(b)), IS 10810 (Part 40)
116	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Winding Test on Galvanized Steel Strip for Armouring	IS 1554 (Part 1, Clause 15.1(b)), IS 10810 (Part 39)
117	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric Cables for Working Voltages up to and including 1100 V	Wrapping Test (for aluminum)	IS 1554 (Part 1, Clause 15.1(a)(3)), IS 10810 (Part 3)
118	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	Annealing Test for Wires used in Conductors	IS 694 (Table -1 (iii)a(1)), IS 10810 (Part 1)
119	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	Cold Bend Test (Dia 6 mm, 8 mm, 9.9 mm, 10mm, 12 mm, 13mm, 4 mm, 15mm, 16 mm, 18mm, 19 mm, 20mm, 22 mm, 25.40 mm, 26 mm, 32 mm, 38 mm, 63 mm, 76 mm, 120 mm)	IS 694 (Table-1 (iii)c(8)), IS 10810 (Part 20)



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120	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	Cold Impact Test	IS 694 (Table-1(iii)c(a)), IS 10810 (Part 21)
121	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	Conductor Resistance Test	IS 694 (Clause 4.2), IS 10810 (Part 5)
122	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	Elongation % Break (after Ageing)	IS 694 (Table-1(iii)c(1) & d(1)), IS 10810 (Part 11)
123	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	Flammability Test	IS 694 (Clause 10.4), IS 10810 (Part 53)
124	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	HCl Acid Gas Generation Test	IS 694 (Clause 10.6), IS 10810 (Part 53)
125	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	Heat Shock Test	IS 694 (Table 1 (iii)C(5)), IS 10810 (Part 14)
126	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	High Voltage (Water Immersion) Test	IS 694 (Clause 10.1), IS 10810 (Part 45)
127	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	High Voltage Test	IS 694 (Clause 10.2), IS 10810 (Part 45)
128	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	Hot Deformation Test	IS 694 (Table 1(iii)C(6)), IS 10810 (Part 15)
129	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	Insulation Resistance (Volume Resistivity)	IS 694 (Table-1(e)3), IS 10810 (Part 43)
130	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	Loss of Mass Test	IS 694 (Clause 15.1, Table-1(iii)c(2)), IS 10810 (Part 10)
131	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	Overall Diameter	IS 694 (Table 3 to 10), IS 10810 (Part 6)
132	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	Oxygen Index Test	IS 694 (Clause 10.5), IS 10810 (Part 58)
133	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	Shrinkage Test	IS 694 (Table 1(iii)c(4)), IS 10810 (Part 12)



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134	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	Smoke Density Test	IS 694 (Clause 10.8), IS 10810 (Part 63)
135	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	Temperature Index Test	IS 694 (Clause 10.7), IS 10810 (Part 64)
136	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	Tensile Strength (after Ageing)	IS 694 (Table-1(iii)c(1) & d(1)), IS 10810 (Part 11)
137	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	Tensile Strength of Insulation and Sheath	IS 694 (Table-1 (iii) c (1) & d(1)), IS 10810 (Part 7)
138	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	Tensile Strength Test for Aluminium Wire	IS 694 (Table-1 (iii) a (2)), IS 10810 (Part 2)
139	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	Thermal Stability of PVC Insulation and Sheath	IS 694 (Table 1 (iii) c (7)), IS 10810 (Part 60)
140	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	Thickness of Insulation & Sheath	IS 694 (Table 3 to 10), IS 10810 (Part 6)
141	ELECTRICAL- CABLES & WIRES	PVC Insulated Unsheathed and Sheathed Cables/ Cords with Rigid and Flexible Conductor for Rated Voltages up to and including 1100 V	Wrapping Test (for aluminum)	IS 694 (Table 1 (iii) a (3)), IS 10810 (Part 3)