



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)i), 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)i), 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)i), 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

This is annexure to 'Certificate of Accreditation' and does not require any signature.



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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 60332-3-24, 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, 10 mm, 12 mm, 13 mm, 14 mm, 15 mm, 16 mm, 18 mm, 19 mm, 20 mm, 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)