



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ELECTRICAL TESTING CENTER, 2ND FLOOR, A8 DEVYANINAGAR, KALADARSHAN CHAR  
RASTA, WAGHODIA ROAD, VADODARA, GUJARAT, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

TC-13685

**Page No**

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**Validity**

13/05/2024 to 12/05/2026

**Last Amended on**

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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
Permanent Testing				
1	ELECTRICAL- CABLES & WIRES	Electric Cable	High voltage test	BS EN 50395
2	ELECTRICAL- CABLES & WIRES	Electric Cable	Loss of mass test	IS 10810 Part 10
3	ELECTRICAL- CABLES & WIRES	Electric Cable	Marking ( Continuity, durability, Legibility )	BS EN 50525
4	ELECTRICAL- CABLES & WIRES	Electric Cable	Oil Resistance / Chemical Resistance test	IS 10810 Part 31
5	ELECTRICAL- CABLES & WIRES	Electric Cable	Oxygen Index	IS 10810 Part 58
6	ELECTRICAL- CABLES & WIRES	Electric Cable	Pressure test at high temperature	BS EN/IEC/EN 60811 Part 508
7	ELECTRICAL- CABLES & WIRES	Electric Cable	Thermal Stability	IS 10810 Part 60
8	ELECTRICAL- CABLES & WIRES	Electric Cable	Wrapping test (for aluminium)	IS 10810 Part 3
9	ELECTRICAL- CABLES & WIRES	Cables for electric vehicles	Constructional provision ( Conductor construction, Conductor diameter, External diameter)	IEC 62893
10	ELECTRICAL- CABLES & WIRES	cables for electric vehicles	Marking ( Continuity, durability, Legibility )	BS EN 50620
11	ELECTRICAL- CABLES & WIRES	cables for electric vehicles	Tear Resistance test	IEC 62893
12	ELECTRICAL- CABLES & WIRES	cables for electric vehicles	Water Resistance test / Water immersion test	IEC 62893
13	ELECTRICAL- CABLES & WIRES	Electric Cable	Heat shock test / Resistance to cracking	IS 10810 Part 14
14	ELECTRICAL- CABLES & WIRES	Electric Cable	High voltage test	IS 10810 Part 45
15	ELECTRICAL- CABLES & WIRES	Electric Cable	Hot Deformation	IS 10810 Part 15
16	ELECTRICAL- CABLES & WIRES	Electric Cable	Insulation resistance / Volume resistivity / Insulation resistance constant test	BS EN 50395
17	ELECTRICAL- CABLES & WIRES	Electric Cable	Insulation resistance / Volume resistivity / Insulation resistance constant test	IEC 60227



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18	ELECTRICAL- CABLES & WIRES	Electric Cable	Insulation resistance / Volume resistivity / Insulation resistance constant test	IS 10810 Part 43
19	ELECTRICAL- CABLES & WIRES	Electric Cable	Long term resistance of insulation to HV DC / High voltage - Water immersion test	BS EN 50395
20	ELECTRICAL- CABLES & WIRES	Electric Cable	Long term resistance of insulation to HV DC / High voltage - Water immersion test	IEC 60245 / 60227
21	ELECTRICAL- CABLES & WIRES	Electric Cable	Marking ( Continuity, durability, Legibility )	BS 6724, BS 7846,
22	ELECTRICAL- CABLES & WIRES	Electric Cable	Persulphate test	IS 10810 Part 4
23	ELECTRICAL- CABLES & WIRES	Electric Cable	Shrinkage	BS EN/IEC/EN 60811 Part 503
24	ELECTRICAL- CABLES & WIRES	Electric Cable	Temperature Index	IS 10810 Part 64
25	ELECTRICAL- CABLES & WIRES	Electric Cable	Tensile strength & Elongation at break	IS 10810 Part 7
26	ELECTRICAL- CABLES & WIRES	Electric Cable	Tensile strength & Elongation at break	BS EN/IEC/EN 60811 Part 501
27	ELECTRICAL- CABLES & WIRES	Electric Cable	Tensile test of conductor	IS 10810 Part 2
28	ELECTRICAL- CABLES & WIRES	Electric Cable	Thermal Stability	BS EN/IEC/EN 60811 Part 405
29	ELECTRICAL- CABLES & WIRES	Electric Cable	Thickness, Ovality and Overall Dimensions	BS EN/IEC/EN 60811 Part 201
30	ELECTRICAL- CABLES & WIRES	Electric Cable	Thickness, Ovality and Overall Dimensions	IS 10810 Part 6
31	ELECTRICAL- CABLES & WIRES	Electric Cable	Water absorption test - gravimetric	BS EN/IEC/EN 60811 Part 402
32	ELECTRICAL- CABLES & WIRES	Electric Cables	Thermal Ageing in air oven	IS 10810 Part 11
33	ELECTRICAL- CABLES & WIRES	Armouring for Electric Cables	Dimensions	IS 10810 Part 36
34	ELECTRICAL- CABLES & WIRES	Armouring for Electric Cables	Mass of Zinc coating	IS 10810 Part 41
35	ELECTRICAL- CABLES & WIRES	Armouring for Electric Cables	Resistivity and Conductance test of armour	IS 10810 Part 42



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36	ELECTRICAL- CABLES & WIRES	Armouring for Electric Cables	Tensile and Elongation	IS 10810 Part 37
37	ELECTRICAL- CABLES & WIRES	Armouring for Electric Cables	Torsion test	IS 10810 Part 38
38	ELECTRICAL- CABLES & WIRES	Armouring for Electric Cables	Uniformity of Zinc coating	IS 10810 Part 40
39	ELECTRICAL- CABLES & WIRES	Armouring for Electric Cables	Winding test	IS 10810 Part 39
40	ELECTRICAL- CABLES & WIRES	Conductors of Insulated cables	Constructional provision ( Conductor construction, Conductor diameter, External diameter)	EN / IEC 60228
41	ELECTRICAL- CABLES & WIRES	Conductors of Insulated cables	Electrical Resistance /Resistivity / Conductivity test	BS EN 60228
42	ELECTRICAL- CABLES & WIRES	Cu and Al Conductors	Conductor Resistance	IS 10810 Part 5
43	ELECTRICAL- CABLES & WIRES	Electric Cable	Copper corrosion test	UL 2556 /UL 758 / UL 1581
44	ELECTRICAL- CABLES & WIRES	Electric Cable	Direction and Sequence of lay	BS 6724
45	ELECTRICAL- CABLES & WIRES	Electric Cable	Direction and Sequence of lay	BS 7846
46	ELECTRICAL- CABLES & WIRES	Electric Cable	Hot set test / Hot creep test	BS EN/IEC/EN 60811 Part 507
47	ELECTRICAL- CABLES & WIRES	Electric Cable	Hot set test / Hot creep test	IS 10810 Part 30
48	ELECTRICAL- CABLES & WIRES	Electric Cable	Insulation resistance / Volume resistivity / Insulation resistance constant test	IEC 60245
49	ELECTRICAL- CABLES & WIRES	Electric Cable	Long term resistance of insulation to HV DC / High voltage - Water immersion test	IS 10810 Part 45 / IS 17293
50	ELECTRICAL- CABLES & WIRES	Electric Cable	Loss of mass test	BS EN/IEC/EN 60811 Part 409
51	ELECTRICAL- CABLES & WIRES	Electric Cable	Marking ( Continuity, durability, Legibility )	IEC 62893
52	ELECTRICAL- CABLES & WIRES	Electric Cable	Marking ( Continuity, durability, Legibility )	UL 2556 / UL 758 / UL 1581



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53	ELECTRICAL- CABLES & WIRES	Electric Cable	pH & Conductivity test	IEC / BS EN 60754 Part 2
54	ELECTRICAL- CABLES & WIRES	Electric Cable	Shrinkage	IS 10810 Part 12
55	ELECTRICAL- CABLES & WIRES	Electric Cable	Tear Resistance test	EN 50396
56	ELECTRICAL- CABLES & WIRES	Electric Cable	Tear Resistance test	IS 10810 Part 17
57	ELECTRICAL- CABLES & WIRES	Electric Cable	Water absorption test - gravimetric	IS 10810 Part 33
58	ELECTRICAL- CABLES & WIRES	Electric Cable for PV system	Damp heat test	IEC 62930 / IEC 60068
59	ELECTRICAL- CABLES & WIRES	Electric Cables	Tensile strength & Elongation	BS EN/IEC/EN 60811 Part 501
60	ELECTRICAL- CABLES & WIRES	Electric Cables	Annealing	IS 10810 Part 1
61	ELECTRICAL- CABLES & WIRES	Electric Cables	Carbon black content	BS EN/IEC/EN 60811 Part 605
62	ELECTRICAL- CABLES & WIRES	Electric Cables	Carbon black content	IS 10810 Part 32
63	ELECTRICAL- CABLES & WIRES	Electric Cables	Cold Bend Test	IS 10810 Part 20
64	ELECTRICAL- CABLES & WIRES	Electric Cables	Cold Bend Test ( 5mm to 107 mm)	BS EN/IEC/EN 60811 Part 504
65	ELECTRICAL- CABLES & WIRES	Electric Cables	Cold Impact Test	BS EN/IEC/EN 60811 Part 506
66	ELECTRICAL- CABLES & WIRES	Electric Cables	Cold Impact Test	IS 10810 Part 21
67	ELECTRICAL- CABLES & WIRES	Electric Cables	Compatibility test	BS EN/IEC/EN 60811 Part 401
68	ELECTRICAL- CABLES & WIRES	Electric Cables	Flame retardance (using diesel)	IS 10810 Part 61
69	ELECTRICAL- CABLES & WIRES	Electric Cables	Flammability	IEC /EN 60332
70	ELECTRICAL- CABLES & WIRES	Electric Cables	Flammability	IS 10810 Part 53
71	ELECTRICAL- CABLES & WIRES	Electric Cables	Halogen acid gas generation test	IS 10810 Part 59



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72	ELECTRICAL- CABLES & WIRES	Electric Cables	Halogen acid gas generation test / Chlorine and bromine content expressed as content of HCl	IEC / BS EN 60754 Part 1
73	ELECTRICAL- CABLES & WIRES	Electric Cables	Heat shock test / Resistance to cracking	BS EN/IEC/EN 60811 Part 509
74	ELECTRICAL- CABLES & WIRES	Electric Cables	High voltage test	BS EN 50305
75	ELECTRICAL- CABLES & WIRES	Electric Cables	High voltage test	IEC 60245 / 60227
76	ELECTRICAL- CABLES & WIRES	Electric Cables	Mineral Oil immersion test	BS EN/IEC/EN 60811 Part 404
77	ELECTRICAL- CABLES & WIRES	Electric Cables for PV systems	Checking continuity of tin	2PFG 1169
78	ELECTRICAL- CABLES & WIRES	Electric Cables for PV systems	Checking continuity of tin	BS EN 50618
79	ELECTRICAL- CABLES & WIRES	Electric Cables for PV systems	Cold Elongation Test	IS 17293
80	ELECTRICAL- CABLES & WIRES	Electric Cables for PV systems	Constructional provision ( Conductor construction, Conductor diameter, External diameter)	BS EN 50618
81	ELECTRICAL- CABLES & WIRES	Electric Cables for PV systems	Constructional provision ( Conductor construction, Conductor diameter, External diameter)	IEC 62930
82	ELECTRICAL- CABLES & WIRES	Electric Cables for PV systems	Dynamic penetration test	BS EN 50618
83	ELECTRICAL- CABLES & WIRES	Electric Cables for PV systems	Marking ( Continuity, durability, Legibility )	2PFG 2642
84	ELECTRICAL- CABLES & WIRES	Electric Cables for PV systems	Marking ( Continuity, durability, Legibility )	BS EN 50618
85	ELECTRICAL- CABLES & WIRES	Electric Cables for PV systems	Notch propagation test	BS EN 50618
86	ELECTRICAL- CABLES & WIRES	Electric Cables for PV systems	Notch propagation test	IEC 62930
87	ELECTRICAL- CABLES & WIRES	Electric Cables for PV systems	Notch propagation test	IS 17293 / IS 17048
88	ELECTRICAL- CABLES & WIRES	Electric Cables for PV systems	Surface Resistance test	BS EN 50618



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89	ELECTRICAL- CABLES & WIRES	Electrical Conductor Materials	Electrical Resistance /Resistivity / Conductivity test	ASTM B 193 / ASTM B 49
90	ELECTRICAL- CABLES & WIRES	Electrical insulating material	Thermal endurance test	IEC 60216
91	ELECTRICAL- CABLES & WIRES	Plastics	Smoke Density test	IS 13360 Part 6, sec 9
92	ELECTRICAL- CABLES & WIRES	PVC Insulated Cables	Additional ageing test	IEC 60502-1
93	ELECTRICAL- CABLES & WIRES	PVC / XLPE / Elastomer / Rubber Electric Cable	Oxygen Index	ASTM D 2863
94	ELECTRICAL- CABLES & WIRES	PVC / XLPE / Elastomer / Rubber Electric Cable	Acid & Alkaline (Chemical) Resistance	IEC/EN 60811 Part 404
95	ELECTRICAL- CABLES & WIRES	PVC / XLPE / Elastomer / Rubber Electric Cable	Cold Elongation Test	BS EN/IEC/EN 60811 Part 505
96	ELECTRICAL- CABLES & WIRES	PVC / XLPE / Elastomer / Rubber Electric Cable	Compatibility test	IS 10810 Part 11
97	ELECTRICAL- CABLES & WIRES	PVC / XLPE / Elastomer / Rubber Electric Cable	Smoke Density test	ASTM D 2843
98	ELECTRICAL- CABLES & WIRES	PVC Insulated / sheathed cables	Additional ageing test	IS 694
99	ELECTRICAL- CABLES & WIRES	PVC Insulated cables	Constructional provision ( Conductor construction, Conductor diameter, External diameter)	IEC 60227
100	ELECTRICAL- CABLES & WIRES	PVC Insulated Electric Cables	Armour Coverage Percentage	IS 1554 (1 & 2)
101	ELECTRICAL- CABLES & WIRES	winding wire	Temperature Index	IEC 60317
102	ELECTRICAL- CABLES & WIRES	winding wire	Temperature Index	IS 13730 / IS 5825
103	ELECTRICAL- CABLES & WIRES	winding wires	Dimension	IEC 60317 / IEC 60851
104	ELECTRICAL- CABLES & WIRES	winding wires	Dimension	IS 13730 / IS 13778
105	ELECTRICAL- CABLES & WIRES	Winding wires	Electrical Resistance /Resistivity / Conductivity test	IEC 60317
106	ELECTRICAL- CABLES & WIRES	Winding wires	Electrical Resistance /Resistivity / Conductivity test	IS 13778 / IS 13730



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107	ELECTRICAL- CABLES & WIRES	Winding wires	Heat shock test / Resistance to cracking	IEC 60317/ IEC 60851
108	ELECTRICAL- CABLES & WIRES	Winding wires	Heat shock test / Resistance to cracking	IS 13730 / IS 13778
109	ELECTRICAL- CABLES & WIRES	Winding wires	Oil Resistance / Chemical Resistance test	IEC 60317 / IEC 60851
110	ELECTRICAL- CABLES & WIRES	Winding wires	Oil Resistance / Chemical Resistance test	IS 13730 / IS 13778
111	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC Sheathed cables	Armour Coverage Percentage	IS 7098 ( 1 & 2)