National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	LCMTL, LAPP INDIA PVT. LTD, PLOT NO. 98, J&K, JIGANI INDUSTRIAL AREA, PHASE II, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-6896
Validity	07/02/2022 to 06/02/2024

Last Amended on 27/03/2022

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	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Tensile Strength - Armour	IS 7098:1988 (Part 1), Cl 15.1 type test table - b2-i& Cl 13.6 a, , IS 10810 (Part 37)
2	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Ageing in Air oven - Insulation	IS 7098 (Part 1):1988, Clause 15.1, Type test Table- dii & Table 1, IS 10810 (Part 11)
3	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Ageing in Air Oven - Sheath	IS 7098:1988 (Part 1), Cl 15.1 Type test table - e ii & table 1& Cl 4.1, IS 10810 (Part 11)
4	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Annealing - Copper	IS 7098:1988 (Part 1), Cl 15.1 , IS 8130 :2013 , IS 10810 (Part 1)
5	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Conductor Resistance	IS 7098:1988 (Part 1), Cl 15.1 , IS 8130 :2013 , IS 10810 (Part 5)
6	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Dimension – Armour	IS 7098:1988 (Part 1), Cl 15.1 & Cl 13.3 , IS 10810 (Part 36)
7	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Elongation at Break - Armour	IS 7098:1988 (Part 1), Cl 15.1 & Cl 13.6 b , Type test Table 1 b2 ii, IS 10810 (Part 37)
8	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Flame retardant (Bunched Cable) - Completed Cable	IS 7098:1988 (Part 1), Cl 15.1.1 & Cl 16.11 , IS 10810 (Part 62)
9	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Flame retardant (Single Cable) - Completed Cable	IS 7098:1988 (Part 1), Cl 15.1.1 & Cl 16.10 , IS 10810 (Part 61)
10	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Flammability - Completed Cable	IS 7098:1988 (Part 1), Cl 15.1 & Cl 16.3 , IS 10810 (Part 53)
11	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Halogen acid gas evolution - Outer Sheath	IS 7098:1988 (Part 1), Cl 15.1.1 & Cl 16.13 , IS 10810 (Part 59)
12	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Heat Shock - Outer Sheath	IS 7098:1988 (Part 1), Cl 15.1, IS 10810 (Part 14):1984 , IS 5831
13	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	High Voltage - Completed Cable	IS 7098:1988 (Part 1), Cl 15.1 & Cl 16.2 , IS 10810 (Part 45)
14	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Hot Deformation - Outer Sheath	IS 7098:1988 (Part 1), Cl 15.1 , IS 10810 (Part 15):1984 , IS 5831
15	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Hot Set - Insulation	IS 7098:1988 (part 1) , Cl 15.1 & Cl 4.1, IS 10810 (Part 30)

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16	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Insulation Resistance - Completed Cable	IS 7098:1988 (Part 1), Cl 15.1 & Cl 4.1, IS 10810 (Part 43)
17	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Loss of Mass in air Oven - Outer Sheath	IS 7098:1988 (Part 1), Cl 15.1, IS 10810 (Part 10):1984 , IS 5831
18	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Mass of Zinc Coating - Armour	IS 7098:1988 (Part 1), Cl 15.1 & Cl 13.6 f , IS 10810 (Part 41)
19	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Oxygen Index - Outer Sheath	IS 7098:1988 (Part 1), Cl 15.1.1 & Cl 16.9 , IS 10810 (Part 58)
20	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Resistivity - Armour	IS 7098:1988 (Part 1), Cl 15.1 & Cl 13.6 g , IS 10810 (Part 42)
21	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Shrinkage - Insulation	IS 7098:1988 (Part 1), Cl 15.1 Tye test Table d iv , Table-1& Cl 4.1, IS 10810 (Part 12):1984, IS 5831:1984
22	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Shrinkage - Outer Sheath	IS 7098:1988 (Part 1), Cl 15.1, IS 10810 (Part 12):1984 , IS 5831
23	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Smoke Density - Outer Sheath	IS 7098:1988 (Part 1), Cl 15.1.1 & Cl.16.15 , IS 10810 (Part 63)
24	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Temperature Index - Completed Cable	IS 7098:1988 (Part 1), Cl 15.1.1 & Cl 16.14 , IS 10810 (Part 64)
25	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Tensile strength and Elongation at Break - Insulation	IS 7098:1988 (Part 1), Cl 15.1 type test table dI and Table 1& Cl 4.1, IS 10810 (Part 7)
26	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Tensile strength and Elongation at Break - Outer Sheath	IS 7098:1988 (Part 1), Cl 15.1 type test table ei, IS 10810 (Part 7):1984 , IS 5831
27	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Tensile Test - Aluminum	IS 7098:1988 (Part 1), Cl 15.1 type test Table - a ii , IS 8130 :2013 , IS 10810 (Part 2)
28	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Thermal stability - Outer Sheath	IS 7098:1988 (Part 1), Cl 15.1 , IS 10810 (Part 60):1988, IS 5831
29	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Torsion for round wire - Armour	IS 7098:1988 (Part 1), Cl 15.1 & 13.6 c , IS 10810 (Part 38)
30	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Uniformity of Zinc Coating - Armour	IS 7098:1988 (Part 1), Cl 15.1 & Cl 13.6 e , IS 10810 (Part 40)
31	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Water Absorption (Gravimetric) - Insulation	IS 7098:1988 (Part 1), Cl 5.1 & Cl 4.1, IS 10810 (Part 33)

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32	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Winding for formed wire - Armour	IS 7098 :1988 (Part 1), Cl 15.1 & 13.6 d , IS 10810 (Part 39)
33	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables for working voltages up to and including 1100V	Wrapping Test - Aluminum	IS 7098:1988 (Part 1), Cl 15.1, IS 8130 :2013 , IS 10810 (Part 3)
34	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Additional Ageing for OU Cables Only - Complete Cable	IS 694:2010 Table 1 Sl.No.iii e-5 10 Cl.10.9 IS 10810 (Part 53)-1984 IS 10810 (Part 45)-1984 IS 10810 (Part 20 & 21)
35	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Ageing in Air Oven - Sheath	IS 694:2010 Table 1 Sl.No.iii d 3 IS 10810 (Part 11)-1984 IS 5831
36	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Ageing in Air Oven for INsulation	IS 694:2010 Table 1 Sl.No.iii c 3 IS 5831:1984 IS 10810 (Part 11)
37	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Annealing Test (for Copper)	IS 694:2010 ,Table 1 Sl.No. iii a 1, IS 8130 :2013 , IS 10810 (Part 1)
38	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Cold Bend Test / Cold Impact Test - Sheath	IS 694:2010 Table 1 Sl.No.iii d 12 & 13 IS 10810 (Part 20 & 21) -1984 IS 5831
39	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Cold Bend Test /Cold Impact Test for Insulation	IS 694:2010 Table 1 Sl.No.iii c 8&9 IS 10810 (Part 20 & 21) IS 5831
40	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Conductor Resistance test (Up to 70 Sq mm)	IS 694:2010 Table 1 Sl.No. iii a 4 IS 8130 :2013 IS 10810 (Part 5)
41	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Flammability - Complete Cable	IS 694:2010 Table 1 Sl.No.iii e-4 10 Cl.10.4 IS 10810 (Part 53)
42	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Flammability Test - Insulation	IS 694:2010 Table 1 Sl.Noiii c 10 Cl.10.4 IS 10810 (Part 53)
43	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Halogen acid gas evolution - Insulation	IS 694:2010 Table 1 Sl.No. iii c 13- Cl-10.6 IS 10810 (Part 59)
44	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Halogen acid gas evolution - Sheath	IS 694:2010 Table 1 Sl.No.iii d 10- Cl-10.6 IS 10810 (Part 59)

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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
45	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Heat Shock - Sheath	IS 694:2010 Table 1 Sl.No.iii d 5 IS 5831:1984 IS 10810 (Part 14)
46	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Heat Shock Test for Insulation	IS 694:2010 Table 1 Sl.No.iii c 5 IS 5831:1984 IS 10810 (Part 14)
47	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	High Voltage - Complete Cable	IS 694:2010 Table 1 Sl.No.iii e-4 Cl- 10.2 IS 10810 (Part 45)
48	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	High Voltage (Water immersion) - Complete Cable	IS 694:2010 Table 1 Sl.No.iii e-1 Cl- 10.1 IS 10810 (Part 45)
49	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Hot Deformation - Sheath	IS 694:2010 Table 1 Sl.No.iii d 6 IS 10810 (Part 15)-1984 IS 5831
50	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Hot Deformation Test for Insulation	IS 694:2010 Table 1 Sl.No.iii c 6 IS 10810 (Part 15)-1984 IS 5831
51	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Insulation Resistance - Complete Cable	IS 694:2010 Table 1 Sl. No.iii e3 & IS 5831:1984 IS 10810 (Part 43)
52	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Loss of Mass - Sheath	IS 694:2010 Table 1 Sl.No.iii d 2 IS 10810 (Part 10)-1984 IS 5831
53	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Loss of Mass Test for Insulation	IS 694:2010 Table 1 Sl.No.iii c 2 IS 5831:1984 IS 10810 (Part 10)
54	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Overall dimension and thickness of insulation / sheath	IS 694:2010 Table 1 Sl.No.iii b& relevant table 3 to 10 IS 10810 (Part 6)
55	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Oxygen Index - Sheath	IS 694:2010 Table 1 Sl.No.iii d 8 - Cl-10.5 IS 10810 (Part 58)
56	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Oxygen Index test-Insulation	IS 694:2010 Table 1 Sl.No.iii c 11- Cl-10.5 IS 10810 (Part 58)
57	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Shrinkage Test - Sheath	IS 694:2010 Table 1 Sl.No.iii d 4 IS 5831:1984 IS 10810 (Part 12)
58	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Shrinkage Test for Insulation	IS 694:2010 Table 1 Sl.No.iii c 3 IS 5831:1984 IS 10810 (Part 12)

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59	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Smoke Density Rating - Sheath	IS 694:2010 Table 1 Sl.No.iii d 11 – Cl-10.8 IS 13360-6-sec.9
60	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Smoke Density Rating-Insulation	IS 694:2010 Table 1 Sl.No.iii c 14 – Cl-10.8 IS 13360-6-sec.9
61	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Temperature Index - Sheath	IS 694:2010 Table 1 Sl.No.iii d 9 – Cl-10.7 IS 10810 (Part 64)
62	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Temperature Index-Insulation	IS 694:2010 Table 1 Sl.No.iii c 12 – Cl-10.7 IS 10810 (Part 64)
63	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Tensile strength and Elongation at Break for Insulation	IS 694:2010 Table 1 Sl.No.iii c 1 IS 5831:1984 IS 10810 (Part 7)
64	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Tensile strength and Elongation at Break for Sheath	IS 694:2010 Table 1 Sl.No.iii d 1 IS 10810 (Part 7)-1984 IS 5831
65	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Tensile Test (for Aluminium)	IS 694:2010 Table 1 Sl.No.iii a 2 IS 8130 :2013 IS 10810 (Part 2)
66	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Thermal stability - Sheath	IS 694:2010 Table 1 Sl.No.iii d 7 IS 10810 (Part 60)-1988 IS 5831
67	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Thermal stability for Insulation	IS 694:2010 Table 1 Sl.No.iii c 7 IS 10810 (Part 60)-1988 IS 5831
68	ELECTRICAL- CABLES & WIRES	Poly Vinyl Chloride Insulated Unsheathed and Sheathed Cables / Cord with Rigid and Flexible conductor for rated Voltages up to and including 1100V	Wrapping Test (for Aluminum)	IS 694:2010 Table 1 Sl.No.iii a 3 IS 8130 :2013 IS 10810 (Part 3)
69	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Ageing in Air Oven - Sheath	IS 1554:1988 (Part 1), Cl 15.1 type test - d2, IS 10810 (Part 11): 1984 , IS 5831
70	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Ageing in Air oven - Insulation	IS 1554:1988 part 1, Clause 15.1 Type test -d2, IS 10810 (Part 11) - 1984, IS 5831:1984
71	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Annealing Test- For Copper	IS 1554:1988 (Part 1), Cl 15.1 , IS 8130 :2013 , IS 10810 (Part 1)
72	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Conductor Resistance - Copper	IS 1554:1988 (Part 1), Cl 15.1 , IS 8130 :2013 , IS 10810 (Part 5)

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73	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Dimensions – Armour	IS 1554:1988 (Part 1), Cl 15.1 & Cl 13.3 , IS 10810 (Part 36)
74	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Elongation at Break - Armour	IS 1554:1988 (Part 1), Cl 15.1 & Cl 13.6 b Type test b2 ii, IS 10810 (Part 37) :1984
75	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Flame retardant (Bunched Cable) - Completed Cable	IS 1554:1988 (Part 1), Cl 15.1.1 & Cl 16.7 , IS 10810 (Part 62)
76	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Flame retardant (Single Cable) - Completed Cable	IS 1554:1988 (Part 1), Cl 15.1.1 & Cl 16.6 , IS 10810 (Part 61)
77	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Flammability - Completed Cable	IS 1554:1988 (Part 1), Cl 15.1 & Cl 16.4 , IS 10810 (Part 53)
78	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Halogen acid gas evolution - Sheath	IS 1554:1988 (Part 1), Cl 15.1.1 & Cl 16.9 , IS 10810 (Part 59)
79	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Heat Shock - Insulation & Sheath	IS 1554:1988 (Part 1), Cl 15.1, IS 10810:1988 (Part-10) , IS 5831:1984 , IS 10810 (Part 14)
80	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	High Voltage - Completed Cable	IS 1554:1988 (Part 1), Cl 15.1 & Cl 16.2 , IS 10810 (Part 45)
81	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	High Voltage (Water immersion) - Insulation	IS 1554:1988 (Part 1), Cl 15.1 & Cl 16.3 , IS 10810 (Part 45)
82	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	High Voltage Test	IS 1554:1988 part 1, Clause 15.1 Type test -g cl.16.2, IS 10810 (Part 45) - 1984
83	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Hot Deformation - Insulation & Sheath	IS 1554:1988 (Part 1), Cl 15.1 , IS 10810 (Part 15):1984 , IS 5831
84	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Insulation Resistance - Completed Cable	IS 1554 :1988 (Part 1), Cl 15.1 , IS 5831:1984 , IS 10810 (Part 43)
85	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Loss of Mass - Insulation & Sheath	IS 1554:1988 (Part 1), Cl 15.1 , IS 10810 (part 10) :1984 , IS 5831
86	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Mass of Zinc Coating - Armour	IS 1554:1988 (Part 1), Cl 15.1 & 13.6 -f , IS 10810 (Part 41)
87	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Oxygen Index - Sheath	IS 1554:1988 (Part 1), Cl 15.1.1 & Cl 16.5 , IS 10810 (Part 58)
88	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Resistivity - Armour	IS 1554:1988 (Part 1), Cl 15.1 & Cl 13.6 - g , IS 8130:2013 , IS 10810 (Part 42)

SCOPE OF ACCREDITATION

Laboratory Name :	LCMTL, LAPP INDIA PVT. LTD, PLOT NO. 98, J&K, JIGANI INDUSTRIAL AREA, PHASE II, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6896	**Page No**	7 of 7
Validity	07/02/2022 to 06/02/2024	**Last Amended on**	27/03/2022

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
89	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Shrinkage Test - Insulation & Sheath	IS 1554:1988 (Part 1), Cl 15.1 , IS 10810 (Part 12):1984 , IS 5831
90	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Smoke Density - Completed Cable	IS 1554:1988 (Part 1), Cl 15.1.1 & Cl 16.11 , IS 10810 (Part 63)
91	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Temperature Index - Sheath	IS 1554:1988 (Part 1), Cl 15.1.1 & Cl 16.10 , IS 10810 (Part 64)
92	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Tensile strength & Elongation at break - Sheath	IS 1554: 1988 part 1, Clause 15.1 Type test - d1, IS 10810 (Part 7) - 1984, IS 5831:1984
93	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Tensile strength and Elongation at Break - Insulation	IS 1554:1988 (Part 1), Cl 15.1 Type test - d1, IS 10810 (Part 7):1984 , IS 5831
94	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Tensile Test - for Aluminum	IS 1554:1988 (Part 1), Cl 15.1 Type test a2, IS 8130 :2013 , IS 10810 (Part 2)
95	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Tensile Test for Armour Wires and Strips	IS 1554:1988 part 1, Cl.15.1 & 13.6 a Type test b2-i, IS 10810 (part 37) - 1984
96	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Thermal stability - Insulation & Sheath	IS 1554:1988 (Part 1), Cl 15.1 , IS 5831:1984 , IS 10810 (Part 60)
97	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Thickness - insulation and sheath	IS 1554:1988 (Part 1), Cl 15.1 c , Cl 9.2, Cl 12.3 & Cl 14.4, IS 10810 (Part 6)
98	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Torsion for round wire - Armour	IS 1554:1988 (Part 1), Cl 15.1 & Cl 13.6 c Type test b2iii, IS 10810 (Part 38)
99	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Uniformity of Zinc Coating - Armour	IS 1554:1988 (Part 1), Cl 15.1 & Cl 13.6 e , IS 10810 (Part 40)
100	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Winding for formed wire - Armour	IS 1554:1988 (Part 1), Cl 15.1 & Cl 13.6 d , IS 10810 (Part 39)
101	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100V	Wrapping - Aluminum	IS 1554:1988 (Part 1), Cl 15.1 , IS 8130:2013 , IS 10810 (Part 3)