National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : GUPTA POWER INFRASTRUCTURE LIMITED, TESTING LABORATORY, PLOT NO. 132, NAND NAGAR INDUSTRIAL ESTATE, PHASE-II, MAHUAKHERAGANJ, KASHIPUR, UDAM SINGH NAGAR, UTTARAKHAND, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 17/11/2022 to 16/11/2024 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Tensile strength (Galvanized Round steel wire/formed steel wire(strip) for armour)	IS 7098 (Part 1), IS 7098 (Part 2), IS 7098 (Part 3), IS 3975, IS 10810 (Part 37)
2	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages up to and including 1100 V	Hot set test & Permanent Set for XLPE Insulation	IS 14255, IS 10810 (Part-30)
3	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages up to and including 1100 V	A.C. High voltage test	IS 14255, IS 10810 (Part 45)
4	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages up to and including 1100 V	Ageing in air oven (insulation & sheath)	IS 14255, IS 10810 (Part-11)
5	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages up to and including 1100 V	Bending test on the Completed Cable	IS 14255, IS 10810 (Part 50)
6	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages up to and including 1100 V	Breaking load (Test on Messenger conductor)	IS 14255, IS 10810 (Part-2)
7	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages up to and including 1100 V	Carbon Black Content on XLPE Insulation and PE Sheath	IS 14255, IS 10810 (Part-32)
8	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages up to and including 1100 V	Elongation at break for insulation & sheath (Before and after ageing)	IS 14255, IS 10810 (Part-7)
9	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages up to and including 1100 V	Elongation test (Test on messenger conductor - Before Stranding)	IS 14255
10	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages up to and including 1100 V	Insulation resistance (Volume resistivity) test	IS 14255, IS 10810 (Part-43)
11	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages up to and including 1100 V	Resistance test (for conductor)	IS 14255, IS 8130, IS 10810 (Part-5)
12	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages up to and including 1100 V	Resistance test (Test on messenger conductor)	IS 14255, IS 10810 (Part-5), IS 8130
13	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages up to and including 1100 V	Shrinkage test	IS 14255, IS 10810 (Part 12)
14	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages up to and including 1100 V	Tensile strength (for aluminum conductor / strands)	IS 14255, IS 8130, IS 10810 (Part-2)
15	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages up to and including 1100 V	Tensile strength and elongation at break test for insulation and sheath (Before & after Ageing)	IS 14255, IS 10810 (Part-7)
16	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages up to and including 1100 V	Thickness of insulation and sheath / Overall Dimensions	IS 14255, IS 10810 (Part-6)

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17	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages up to and including 1100 V	Water absorption test (Gravimetric)	IS 14255, IS 10810 (Part-33)
18	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables for working voltages up to and including 1100 V	Wrapping test	IS 14255, IS 8130, IS 10810 (Part-3)
19	ELECTRICAL- CABLES & WIRES	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables	Adhesion Test	IS 7098 (Part 1), IS 7098 (Part 2), IS 3975
20	ELECTRICAL- CABLES & WIRES	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables	Dimension for armouring material	IEC 60502-1, IEC 60502-2, IS 7098 (Part 1), IS 7098 (Part 2), IS 3975, IS 10810 (Part 36)
21	ELECTRICAL- CABLES & WIRES	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables	Mass of Zinc Coating	IS 7098 (Part 1), IS 7098 (Part 2), IS 3975, IS 4826, IS 10810 (Part 41)
22	ELECTRICAL- CABLES & WIRES	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables	Resistivity & Conductance test of Armour (Wires/strips)	IS 7098 (Part 1), IS 7098 (Part 2), IS 3975, IS 10810 (Part-42)
23	ELECTRICAL- CABLES & WIRES	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables	Tensile strength & Elongation at break for armouring Material	IS 7098 (Part 1), IS 7098 (Part 2), IS 3975, IS 10810 (Part-37)
24	ELECTRICAL- CABLES & WIRES	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables	Torsion Test on Galvanized steel wire for Armouring	IS 7098 (Part 1), IS 7098 (Part 2), IS 3975, IS 10810 (Part 38)
25	ELECTRICAL- CABLES & WIRES	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables	Uniformity of Zinc coating (Dip Test)	IS 7098 (Part 1), IS 7098 (Part 2), IS 2633, IS 3975, IS 10810 (Part 40)
26	ELECTRICAL- CABLES & WIRES	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables	Winding/ Wrapping Test on Galvanized steel strip for Armouring	IS 7098 (Part 1), IS 7098 (Part 2), IS 3975, IS 10810 (Part 39)
27	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltage up to & including 1100 V	Annealing test (For copper conductor)	IS 694, IS 8130, IS 10810 (Part 1)
28	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100 V	Oxygen Index Test (on insulation and sheath)	IS 694, ASTM D 2863, IS 10810 (Part 58)
29	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100 V	Persulphate test (for tinned copper conductor cable only)	IS 694, IS 8130, IS 10810 (Part 4)
30	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100 V	Temperature Index Test (on insulation and sheath)	IS 694, IS 10810 (Part 64)
31	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride 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, IS 8130, IS 10810 (Part 3)

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32	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100 V,	Loss of Mass test (on insulation and sheath)	IS 694, IS 5831, IS 10810 (Part 10)
33	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100 V,	Test for Thickness of insulation and sheath / Overall Dimensions	IS 694, IS 10810 (Part 6)
34	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V	Cold Bend Test (on insulation)	IS 694, IS 5831, IS 10810 (Part 20)
35	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V	Cold Impact Test (on insulation)	IS 694, IS 5831, IS 10810 (Part 21)
36	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V	Conductor Resistance test	IS 694, IS 8130, IS 10810 (Part 5)
37	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V	Flammability test (on insulation and sheath)	IS 694, IS 10810 (Part 53)
38	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V	High Voltage test at room temperature	IS 694, IS 10810 (Part 45)
39	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V	High Voltage test (Water immersion)	IS 694, IS 10810 (Part 45)
40	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V	Insulation Resistance 500V to 5000V	IS 694, IS 10810 (Part 43)
41	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V	Tensile strength and elongation at break on Insulation and Sheath (Before & after ageing)	IS 694, IS 5831, IS 10810 (Part-7)
42	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V	Tensile test (for aluminum)	IS 694, IS 8130, IS 10810 (Part 2)
43	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V	Thermal stability test (on insulation and sheath)	IS 694, IS 5831, IS 10810 (Part 60)
44	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V,	Ageing in air oven	IS 694, IS 5831, IS 10810 (Part 11)

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45	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V,	Heat Shock test on Insulation & Sheath	IS 694, IS 5831, IS 10810 (Part 14)
46	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V,	Hot deformation test /Pressure Test at High Temperature (on insulation and sheath)	IS 694, IS 5831, IS 10810 (Part 15)
47	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V,	Shrinkage Test (on insulation and sheath)	IS 694, IS 5831, IS 10810 (Part 12)
48	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltage up to & including 1100 V	Halogen Acid Gas Evolution /Corrosive & halogen acid gas	IS 694, IEC 60502-1, IEC 60754-1
49	ELECTRICAL- CABLES & WIRES	Polyvinyl chloride insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltage up to & including 1100 V	Smoke Density test	IS 694, ASTM D 2843
50	ELECTRICAL- CABLES & WIRES	Power cable with extruded insulation and their accessories	Heat Cycle Test	IEC 60840:2020,IEC 60502-2:
51	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Ageing in air oven	IEC 60502-1:2021, IEC 60502-2:2014, IEC 60811-401
52	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Ageing tests on pieces of complete cable	IEC 60502-1:2021, IEC 60502-2:2014, IEC 60840
53	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Bending Test	IEC 60840:2020, IEC 60502-1:2021, IEC 60502-2
54	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Cold Bend Test	IEC 60502-1:2021, IEC 60502-2:2014, IEC 60811-Part-504
55	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Cold Impact Test	IEC 60840:2020, IEC 60502-1:2021, IEC 60502-2:2014, IEC 60811-506
56	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Heat Shock test on Insulation & Sheath	IEC 60840:2020, IEC 60502-1:2021, IEC 60502-2:2014, IEC 60811-509
57	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	High Voltage test (4 hour Test)	IEC 60502-1:2021, IEC 60502-2
58	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	High Voltage test at room temperature	IEC 60502-1:2021, IEC 60502-2:2014,IEC 60840
59	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Impulse Withstand test	IEC 60840:2020, IEC 60502-1:2021, IEC 60502-2

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60	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Loss of Mass test	IEC 60840:2020, IEC 60502-1:2021,IEC 60502-2:2014, IEC 60811-409
61	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Partial Discharge test	IEC 60502-2:2014, IEC 60840:2020, IEC 60885-3
62	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Strippability test for insulation screen	IEC 60502-2
63	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Thermal stability	IEC 60840:2020, IEC 60502-1:2021, IEC 60502-2:2014, IEC 60811-405
64	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Water Absorption Test (Gravimetric)	IEC 60502-1:2021, IEC 60502-2:2014, IEC 60811-402
65	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Water penetration test	IEC 60840:2020, IEC 60502-2
66	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Carbon Black Content Test	IEC 60840, IEC 60502-1, IEC 60502-2, IEC 60811-605
67	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Dielectric Power Factor test i). as a function of voltage ii). as a function of temperature	IEC 60840, IEC 60502-2
68	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Electrical Resistance of conductors	IEC 60840, IEC 60502-1, IEC 60502-2, IEC 60228
69	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Flame spread Test on Bunched cable	IEC 60502-1, IEC 60332-3-24
70	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Flame spread test on single cable / Test under fire conditions	IEC 60502-1, IEC 60502-2, IEC 60840, IEC 60332-1-3
71	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Halogen Acid Gas Evolution /Corrosive & halogen acid gas	IEC 60502-1, IEC 60754-1
72	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Hot deformation test /Pressure Test at High Temperature	IEC 60840, IEC 60502-1, IEC 60502-2, IEC 60811-508
73	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Hot set test	IEC 60840, IEC 60502-1, IEC 60502-2, IEC 60811 507
74	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Insulation Resistance 500V to 5000V	IEC 60502-1, IEC 60502-2, IEC 60811-302
75	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Resistivity of semiconducting screens	IEC 60840, IEC 60502-2
76	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Shrinkage Test on insulation and sheath	IEC 60840, IEC 60502-1, IEC 60502-2, IEC 60811-502, IEC 60811-503

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77	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Tensile strength and elongation at break on Insulation and Sheath	IEC 60840, IEC 60502-1, IEC 60502-2, IEC 60811-501
78	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Test for and Thickness of insulation and sheath / Overall Dimensions	IEC 60840, IEC 60502-1, IEC 60502-2, IEC 60811-201, IEC 60811-202, IEC 60811-203
79	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories	Smoke Density Test	ASTM D 2843
80	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages up to 1100 V	Annealing test (For copper conductor)	IS 1554 (Part 1 & 2), IS 8130, IS 10810 (Part 1)
81	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages up to 1100 V	Cold Bend Test	IS 1554 (Part 1), IS 10810 (Part 20)
82	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages up to 1100 V	High Voltage test (Water immersion)	IS 1554 (Part 1), IS 10810 (Part 45)
83	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	A.C. High Voltage test at room temperature	IS 1554 (Part 1 & 2), IS 10810 (Part 45)
84	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Ageing in air oven	IS 1554 (Part 1 & 2), IS 5831, IS 10810 (Part 11)
85	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Armour Coverage Percentage Test	IS 1554 (Part 1 & 2)
86	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Conductor Resistance Test	IS 1554 (Part 1 & 2), IS 8130, IS 10810 (Part 5)
87	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Dimension for armouring material	IS 1554 (Part 1 & 2), IS 3975, IS 10810 (Part 36)
88	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Flame Retardant Test on bunched cable	IS 1554 (Part 1 & 2), IS 10810 (Part 62)
89	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Flame Retardant Test on Single cable (Swedish Chimney)	IS 1554(Part 1 & 2), IS 10810 (Part 61)
90	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Heat Shock test (on Insulation & Sheath)	IS 1554 (Part 1 & 2), IS 10810 (Part 14)
91	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Hot deformation test /Pressure Test at High Temperature (on insulation and sheath)	IS 1554 (Part 1 & 2), IS 5831, IS 10810 (Part-15)
92	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Insulation Resistance at 500 to 5000 V	IS 1554 (Part 1 & 2), IS 5831, IS 10810 (Part 43)
93	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Mass of Zinc coating	IS 1554 (Part 1 & 2), IS 3975, IS 4826, IS 10810 (Part 41)
94	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Oxygen Index Test	IS 1554 (Part 1 & 2), ASTM D 2863, IS 10810 (Part 58)

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95	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Resistivity & Conductance test on Armour Wires or strips	IS 1554 (Part 1 & 2), IS 3975, IS 10810 (Part 42)
96	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Temperature Index Test	IS 1554 (Part 1 & 2), IS 10810 (Part 64)
97	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Tensile strength (for aluminum)	IS 1554 (Part 1 & 2), IS 8130, IS 10810 (Part 2)
98	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Tensile strength and elongation at break on Insulation and Sheath (Before & after ageing)	IS 1554 (Part 1 & 2), IS 3975, IS 10810 (Part 7)
99	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Test Thickness of insulation and sheath / Overall Dimensions	IS 1554 (Part 1 & 2), IS 10810 (Part 6)
100	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Thermal stability	IS 1554 (Part 1 & 2), IS 5831, IS 10810 (Part 60)
101	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Torsion Test on Galvanized steel wire for Armouring	IS 1554 (Part 1 & 2), IS 3975, IS 10810 (Part 38)
102	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Winding/ Wrapping Test on Galvanized steel strip for Armouring	IS 1554 (Part 1 & 2), IS 3975, IS 10810 (Part 39)
103	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electrical cables	Wrapping test (for aluminum)	IS 1554 (Part 1 & 2), IS 8130, IS 10810 (Part 3)
104	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty)Electric cables	Cold Impact test	IS 1554 (Part 1 & 2), IS 10810 (Part 21)
105	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty)Electric cables	Flammability test	IS 1554 (Part 1 & 2), IS 10810 (Part 53)
106	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty)Electric cables	Loss of Mass test (on insulation & sheath)	IS 1554 (Part 1 & 2), IS 5831, IS 10810 (Part 10)
107	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty)Electric cables	Shrinkage Test (on insulation sand sheath)	IS 1554 (Part 1 & 2), IS 5831, IS 10810 (Part 12)
108	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty)Electric cables	Test for armouring wires or strips - Tensile strength	IS 1554 (Part 1 & 2), IS 3975, IS 10810 (Part 37)
109	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Bending Test	IS 1554 (Part 2), IS 10810 (Part 50)
110	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Dielectric Power Factor test	IS 1554 (Part 2), IS 10810 (Part 48)
111	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Heating cycle test	IS 1554 (Part 2), IS 10810 (Part 49)

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112	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Impulse withstand test	IS 1554 (Part 2), IS 10810 (Part 47)
113	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Partial Discharge test	IS 1554 (Part 2), IS 10810 (Part 46)
114	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Test for armouring wires or strips - Elongation at break	IS 1554 (Part 1 & 2), IS 3975, IS 10810 (Part 37)
115	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Uniformity of Zinc coating (Dip Test)	IS 1554 (Part 1 & 2), IS 3975, IS 2633, IS 10810 (Part 40)
116	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables	Water Absorption (Gravimetric)	IS 1554 (Part 2), IS 5831, IS 10810 (Part 33)
117	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages up to 1100 V	Halogen Acid Gas Evolution /Corrosive & halogen acid gas	IS 1554 (Part 1 & 2), IEC 60502-1, IEC 60754-1
118	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cables for working voltages up to 1100 V	Smoke Density Test	IS 1554 (Part 1 & 2), ASTM D 2843
119	ELECTRICAL- CABLES & WIRES	Tinned Copper wires	Persulphate / Tinning Test	IS 10810 (Part 4), IS 8130
120	ELECTRICAL- CABLES & WIRES	XLPE insulated Thermoplastic sheathed cables	Annealing test (For copper conductor/wires)	IS 7098 (Part 1), IS 7098 (Part 2), IS 7098 (Part 3), IS 8130, IS 10810 (Part 1)
121	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables	Shrinkage test (for insulation & sheath)	IS 7098 (Part 1), IS 7098 (Part 2), IS 7098 (Part 3), IS 5831, IS 10810 (Part 12)
122	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Tensile strength test for insulation and sheath (Before and after ageing)	IS 7098 (Part 1), IS 7098 (Part 2), IS 7098 (Part 3), IS 5831, IS 10810 (Part 7)
123	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic Sheathed cables	Resistance Test (Conductor resistance)	IS 7098 (Part 1), IS 7098 (Part 2), IS 7098 (Part 3), IS 8130, IS 10810 (Part 5)
124	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic Sheathed cables	Test for eccentricity , Thickness of insulation and sheath / Overall Dimensions	IS 7098 (Part-1), IS 7098 (Part-2), IS 7098 (Part-3), IS 10810 (Part-6)
125	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables	Hot Set Test and Permanent set (for XLPE insulation)	IS 7098 (Part 1), IS 7098 (Part 2), IS 7098 (Part 3), IS 10810 (Part 30)
126	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Ageing in air Oven	IS 7098 (Part 1), IS 7098 (Part 2), IS 7098 (Part 3), IS 5831, IS 10810 (Part 11)
127	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	AC High Voltage Test	IS 7098 (Part 1), IS 7098 (Part 2), IS 7098 (Part 3), IS 10810 (Part 45)

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128	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Capacitance measurement	IS 7098 (Part 3), IEC 60840, IS 10810 (Part 48)
129	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Carbon Black Content (for PE sheath)	IS 7098 (Part 2), IS 7098 (Part 3), IS 10810 (Part 32)
130	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Cold Bend (for outer sheath)	IS 7098 (Part 1), IS 5831, IS 10810 (Part 20)
131	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Flame Retardant test on Bunched Cable	IS 7098 (Part 1), IS 7098 (Part 2), IEC 60332-3-24, IS 10810 (Part 62)
132	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Flame Retardant test on Single Cable	IS 7098 (Part 1), IS 7098 (Part 2), IS 10810 (Part 61)
133	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Heat Cycle Test	IS 7098 (Part 2), IS 10810 (Part 49)
134	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Heat shock Test	IS 7098 (Part 1), IS 7098 (Part 2), IS 7098 (Part 3), IS 5831, IS 10810 (Part 14)
135	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Mass of Zinc coating (Galvanized Round steel wire/formed steel wire(strip) for armour)	IS 7098 (Part 1), IS 7098 (Part 2), IS 3975, IS 4826, IS 10810 (Part 41)
136	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Oxygen Index	IS 7098 (Part 1), IS 7098 (Part 2), IS 10810 (Part 58), ASTM D 2863
137	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Tensile strength (For Aluminum)	IS 7098 (Part 1), IS 7098 (Part 2), IS 7098 (Part 3), IS 8130, IS 10810 (Part 2)
138	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Uniformity of Zinc coating (Galvanized Round steel wire/formed steel wire(strip) for armour)	IS 7098 (Part 1), IS 7098 (Part 2), IS 2633, IS 3975, IS 10810 (Part 40)
139	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables, Aerial bunched cable,	Winding test for formed wires (Galvanized steel strips for Armour)	IS 7098 (Part 1), IS 7098 (Part 2), IS 3975, IS 10810 (Part 39)
140	ELECTRICAL- CABLES & WIRES	XLPE insulated thermoplastic sheathed cables	Wrapping test (for aluminum)	IS 7098 (Part 1), IS 7098 (Part 2), IS 7098 (Part 3), IS 8130, IS 10810 (Part 3)
141	ELECTRICAL- CABLES & WIRES	XLPE insulated thermoplastic sheathed cables	Bending test	IS 7098 (Part 2), IS 7098 (Part 3), IS 10810 (Part 50)
142	ELECTRICAL- CABLES & WIRES	XLPE insulated thermoplastic sheathed cables	Flammability test (for PVC outer sheathed cables only)	IS 7098 (Part 1), IS 7098 (Part 2), IS 7098 (Part 3), IS 7098 (Part 3), IS 10810 (Part 53)

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143	ELECTRICAL- CABLES & WIRES	XLPE insulated thermoplastic sheathed cables	Test for armouring material- Tensile strength for Aluminium Wire/strip	IS 7098 (Part 1), IS 7098 (Part 2), IS 7098 (Part 3), IS 10810 (Part 37)
144	ELECTRICAL- CABLES & WIRES	XLPE insulated thermoplastic sheathed cables	Test for armouring material: Resistivity Test for Aluminium Wire/strip	IS 7098 (Part 1), IS 7098 (Part 2), IS 7098 (Part 3), IS 10810 (Part 42)
145	ELECTRICAL- CABLES & WIRES	XLPE insulated thermoplastic sheathed cables	Test for armouring material: Wrapping test for Aluminium	IS 7098 (Part 1), IS 7098 (Part 2), IS 7098 (Part 3), IS 10810 (Part 3)
146	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables	Thickness measurement of metallic sheath	IS 7098 (Part 3), IS 10810 (Part 34)
147	ELECTRICAL- CABLES & WIRES	XLPE insulated thermoplastic sheathed cables	Torsion Test (on Galvanized steel wire for Armouring)	IS 7098 (Part 1), IS 7098 (Part 2), IS 3975, IS 10810 (Part 38)
148	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Armour Dimensions	IS 7098 (Part 1), IS 7098 (Part 2), IS 7098 (Part 3), IS 3975, IS 10810 (Part 36)
149	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Cold Impact (for outer sheath)	IS 7098 (Part 1), IS 7098 (Part 2), IS 7098 (Part 3), IS 5831, IS 10810 (Part 21)
150	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Dielectric Power Factor test i). As a Function of Voltage ii). As a function of temperature	IS 7098 (Part 2), IS 7098 (Part 3), IS 10810 (Part 48)
151	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Elongation at break (for round steel wire/formed steel wire(strip) armour)	IS 7098 (Part 1), IS 7098 (Part 2), IS 3975, IS 10810 (Part 37)
152	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Elongation test for insulation and sheath (Before & after thermal ageing)	IS 7098 (Part 1), IS 7098 (Part 2), IS 7098 (Part 3), IS 5831, IS 10810 (Part 7)
153	ELECTRICAL- CABLES & WIRES	XLPE insulated thermoplastic sheathed cables,	Flame Retardant Test on Single cable (Swedish Chimney)	IS 10810 (Part 61), SS 424 1475
154	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Halogen Acid Gas Evolution /Corrosive & halogen acid gas	IS 7098 (Part 1), IS 7098 (Part 2), IEC 60502-1, IEC 60754-1
155	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Hot Deformation (for PVC and HDPE sheath)	IS 7098 (Part 1), IS 7098 (Part 2), IS 7098 (Part 3), IS 5831, IS 10810 (Part 15)
156	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Impulse Withstand Test	IS 7098 (Part 2), IS 7098 (Part 3), IS 10810 (Part 47)
157	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Insulation resistance (Volume Resistivity test) i). at ambient temperature ii). at rated temperature	IS 7098 (Part 1), IS 7098 (Part 2), IS 10810 (Part 43)

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158	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Loss of mass	IS 7098 (Part 1), IS 7098 (Part 2), IS 7098 (Part 3), IS 5831, IS 10810 (Part 10)
159	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Partial discharge test	IS 7098 (Part 2), IS 7098 (Part 3), IS 10810 (Part 46)
160	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Resistivity Test (Galvanized Round steel wire/formed steel wire(strip) for armour)	IS 7098 (Part 1), IS 7098 (Part 2), IS 3975, IS 10810 (Part 42)
161	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Smoke Density Test	IS 7098 (Part 1), IS 7098 (Part 2), ASTM D 2843
162	ELECTRICAL- CABLES & WIRES	XLPE insulated thermoplastic sheathed cables,	Temperature index	IS 7098 (Part 1), IS 7098 (Part 2), IS 10810 (Part 64)
163	ELECTRICAL- CABLES & WIRES	XLPE insulated thermoplastic sheathed cables,	Test for concentric metallic screen i) For Copper wire ii) For Copper tape	Cl. 20.3 & 20.4 of IS 7098 (Part 3)
164	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Test on extruded semi conducting screens - Resistivity	IS 7098 (Part 2)-Table 2 Annex E, Annex C of IS 7098 (Part 3)
165	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Test on Extruded semiconducting screens -Test for Strippability of Semiconducting Strippable Insulation Screen	Annex B of IS 7098 (Part 2)
166	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Thermal ageing test for for complete cable	IS 7098 (Part 2), IS 7098 (Part 3), IS 5831
167	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Thermal Stability	IS 7098 (Part 1), IS 7098 (Part 2), IS 7098 (Part 3), IS 5831, IS 10810 (Part 60)
168	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Water Absorption Test (Gravimetric)	IS 7098 (Part 1), IS 7098 (Part 2), IS 10810 (Part 33)
169	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed cables,	Water Penetration/tightness Test	IS 7098 (Part 2), IS 7098 (Part 3)
170	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductor for overhead transmission purposes - Aluminium alloy stranded conductors	Elongation test	IS 398(Part 4)
171	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductor for overhead transmission purposes - Aluminium alloy stranded conductors	Resistance test	IS 398(Part 4)

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172	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductor for overhead transmission purposes - Aluminium conductors, Galvanized steel-reinforced	Breaking load of individual wires	IS 398 (Part 2), IS 398 (Part 5)
173	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductor for overhead transmission purposes - Aluminium conductors, Galvanized steel-reinforced	Ductility Test - Elongation Test (on Galvanized steel wires)	IS 398 (Part 2), IS 398 (Part 5)
174	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductor for overhead transmission purposes - Aluminium conductors, Galvanized steel-reinforced	Ductility Test - Torsion Test (on Galvanized steel wires)	IS 398 (Part 2), IS 398 (Part 5)
175	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductor for overhead transmission purposes - Aluminium conductors, Galvanized steel-reinforced	Measurement of Diameter of individual aluminum , steel wires and conductor	IS 398 (Part 2), IS 398 (Part 5)
176	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductor for overhead transmission purposes - Aluminium conductors, Galvanized steel-reinforced	Measurement of lay ratio	IS 398 (Part 2), IS 398 (Part 5)
177	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductor for overhead transmission purposes - Aluminium conductors, Galvanized steel-reinforced	Resistance test	IS 398 (Part 2), IS 398 (Part 5)
178	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductor for overhead transmission purposes - Aluminium conductors, Galvanized steel-reinforced	Uniformity of Zinc coating	IS 398 (Part 2), IS 398 (Part 5), IS 2633
179	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductor for overhead transmission purposes - Aluminium conductors, Galvanized steel-reinforced	Visual Examination	IS 398 (Part 2), IS 398 (Part 5)
180	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductor for overhead transmission purposes - Aluminium conductors, Galvanized steel-reinforced	Weight of Zinc Coating	IS 398 (Part 2), IS 398 (Part 5), IS 4826, IS 6745
181	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductor for overhead transmission purposes - Aluminium conductors, Galvanized steel-reinforced	Wrapping Test	IS 398 (Part 2), IS 398 (Part 5)
182	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductor for overhead transmission purposes - Aluminium stranded conductors	Measurement of Diameter of individual aluminium wires and conductor	IS 398 (Part 1)

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183	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductor for overhead transmission purposes - Aluminium stranded conductors	Measurements of Lay ratio	IS 398 (Part 1)
184	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductor for overhead transmission purposes - Aluminium stranded conductors	Resistance test of aluminium wires	IS 398 (Part 1)
185	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductor for overhead transmission purposes - Aluminium stranded conductors	Wrapping Test of aluminium wires	IS 398 (Part 1)
186	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductor for overhead transmission purposes- Aluminium Stranded Conductors,	Breaking Load test of individual aluminium wires	IS 398 (Part 1)
187	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductors for overhead transmission purposes - Aluminium alloy stranded conductors,	Breaking load test	IS 398 (Part 4)
188	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductors for overhead transmission purposes - Aluminium alloy stranded conductors,	Diameter measurement of individual wires and conductor	IS 398(Part 4)
189	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductors for overhead transmission purposes - Aluminium alloy stranded conductors,	Measurement of Lay ratio	IS 398(Part 4)
190	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Hard Drawn aluminium wire for overhead line conductors	Resistivity Test	IEC 60889 (Withdrawn)
191	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Hard Drawn aluminium wire for overhead line conductors	Tensile test	IEC 60889 (Withdrawn)
192	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Hard Drawn aluminium wire for overhead line conductors	Wrapping test	IEC 60889 (Withdrawn)
193	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Hot dipped Galvanized coating on round steel wires	Adhesion of Zinc Coating	IS 4826

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194	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Zinc coated steel wires for stranded conductors	Continuity of Zinc coating	IEC 60888 (Withdrawn)
195	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Zinc coated steel wires for stranded conductors	Determination of mass of Zinc coating	IEC 60888 (Withdrawn)
196	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Zinc coated steel wires for stranded conductors	Ductility test b). Torsion Test	IEC 60888 (Withdrawn)
197	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Zinc coated steel wires for stranded conductors	Ductility Tests a). Elongation test	IEC 60888 (Withdrawn)
198	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Zinc coated steel wires for stranded conductors	Tensile test	IEC 60888 (Withdrawn)
199	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Zinc coated steel wires for stranded conductors	Test for adherence of Zinc coating	IEC 60888 (Withdrawn)
200	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Zinc coated steel wires for stranded conductors	Wrapping test	IEC 60888 (Withdrawn)