National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY ASSURANCE LABORATORY, KEI INDUSTRIES LTD, 99/2/7, MADHUBAN INDUSTRIAL ESTATE, RAKHOLI, SILVASSA, DADRA AND NAGAR HAVELI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8412 **Page No** 1 of 6

Validity 16/04/2023 to 15/04/2025 **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	Power Cables with Extruded insulation/ XLPE Insulated Cable, PVC insulated Wires, Control Cable & Power Cable	Water immersion test (High Voltage)DC	IS 1554 (Pt-1)-Clause 16.3 : 1988
2	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable Pvc insulated Wires , Control Cable & power Cable	Wrapping test on armoured wire/strip	IS 3975
3	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable Pvc insulated Wires , Control Cable & power Cable	Tensile Strength	BS EN 60811-501
4	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable	Tensile strength of Armour	IS 10810(Pt-37)
5	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable	Armour resistance test (Resistivity)	IS 10810(Pt-42)
6	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable	Conductor resistance test	IS 10810(Pt-5)
7	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable	Dimensions of Armour	IS 10810(Pt-36)
8	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable	Tensile test (Aluminium)	IS 10810(Pt-2)
9	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable	Wrapping test (Aluminium)	IS 10810(Pt-3)
10	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable	Annealing test (Copper)	IS 10810(Pt-1)
11	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable	Elongation test on Armour	IS 10810(Pt-37)
12	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable Pvc insulated Wires , Control Cable & power Cable	Elongation at break after thermal ageing in air oven	BS EN 60811-401
13	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Compatibility test (Tensile Strength)	BS 7211 ANNEX- D
14	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Conductor resistance test	BS 6360
15	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Corrosive and acid gas generation	BS 6425-1
16	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Corrosive and acid gas test	BS 6425-1
17	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	thickness of sheath	BS 6469-99.1
18	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Voltage Test on complete cable & Cores	BS 7211 Annex-B

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Certificate Number TC-8412 **Page No** 2 of 6

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19	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Compatibility Test (Elongation at Break)	BS 7211 Annex- D
20	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Dimensions of Armour	IEC 60502-1
21	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Annealing test (Copper)	IEC 60228
22	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Armour Resistance	IEC 60502-1
23	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Cold bend test	IEC 60811-504
24	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Cold bend test	IS 10810(Pt-20)
25	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Cold Impact Test	IEC 60811-506
26	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Cold impact test	IS 10810(Pt-21)
27	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Conductor examination	BS EN 60228
28	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Conductor resistance Test	BS EN 60228
29	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Conductor resistance test	IEC 60228
30	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Core identification , Colours , Clarity , Durability & cable Marking	BS 6724
31	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Elongation at break	IS 10810(Pt-7)
32	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Elongation at break after ageing in air oven	IS 10810(Pt-11)
33	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Elongation test (After Ageing)	IEC 60811-501
34	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Flame retardant test	IEC 60332/3-10
35	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Flammability Test	IEC 60332/3-21
36	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Flammability test	IEC 60332/3--22

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8412 **Page No** 3 of 6

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37	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Flammability test	IEC 60332/3-23
38	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Flammability test	IEC 60332/3-24
39	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Flammability Test	IEC 60332/3-25
40	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Flammability test	IS 10810(Pt-53)
41	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Flammability test (Ladder Test)	IEEE 383
42	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Flammability test (Flame retardence) for bunched cables.	IS 10810(Pt-62)
43	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Flammability test (Flame retardent test)	IS 10810(Pt-61)
44	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Flammablity test	IEC 60332-1
45	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	HCL acid gas generation test	IEC-60754-1
46	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	HCL acid gas generation test	IS 10810 (Pt 59)
47	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Heat shock test	IEC 60811-509
48	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	High voltage test	IEC 60502-1
49	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	High voltage test at room temp.	IS 10810(Pt-45)
50	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Hot deformation test / Pressure test	IS 10810(Pt-15)
51	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Hot set	IEC 60811-507
52	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Hot set test for XLPE	IS 10810(Pt-30)
53	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Insulation resistance (Volume Resistivity)	IEC 60502-1
54	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Loss of Mass	IEC 60811-409

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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8412 **Page No** 4 of 6

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55	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Loss of mass test	IS 10810(Pt-10)
56	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Overall Diameter	IEC 60811-203
57	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Oxygen Index test	ASTM-D-2863
58	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Oxygen Index test	IS:10810 (Pt-58)
59	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Persulphate test / Metal Coating for tin copper	IS 10810(Pt-4)
60	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Shrinkage Test	IEC 60811-503
61	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Spark test	BS EN 62230
62	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Spark testing	BS 5099
63	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Spark testing	IS 10810 (Pt-44)
64	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Swedish chimney Test (Flame retardant)	SS 4241475 CL- F3
65	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Temperature Index	IS 10810 (Pt-64)
66	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Tensile Strength (After Ageing)	IEC 60811-401
67	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Tensile strength (Before Ageing)	IEC 60811-501
68	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Tensile Strength after ageing in air oven	IS 10810(Pt-11)
69	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Tensile test (Aluminium)	IEC-60228
70	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Test for anti rodent and anti termite test	ZPPL/SP/E12 Rev 0 (Lanco)
71	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Thermal Stability Test	IEC 60811-405
72	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Thickness of insulation	IEC 60811-201
73	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Thickness of insulation , sheath & measurement of diameter	IS 10810(Pt-6)

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Certificate Number TC-8412 **Page No** 5 of 6

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74	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Water Absorption	IEC 60811-402
75	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Water absorption (immersion) test (high voltage)	IEC 60502-1
76	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Water absorption test on XLPE (Gravimetric)	IS 10810(Pt-33)
77	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Water immersion test (High voltage) A.C	IS 1554(Pt-1)- Clause 16.3
78	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable , Pvc insulated Wires , Control Cable & power Cable	Wrapping test (Aluminium)	IEC 60228
79	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable ,Pvc insulated Wires , Control Cable & power Cable	Water immersion test (High voltage) DC	IS 1554(Pt-1)- Clause 16.3
80	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable,	Shrinkage test	IS 10810(Pt-12)
81	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	Wrapping test on armour	BS EN 6724 Annex B.3
82	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	Tensile strength after additional ageing test	IS 10810(Pt-11)
83	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	Resistance to cracking	BS EN 60811-509
84	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	Bending test at low temperature	BS EN 60811-504
85	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	Impact Test at low temperature	BS EN 60811-506
86	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	Loss of Mass Test	BS EN 60811-409
87	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	Mass of Zinc Coating	BS 5467 Annex. G-2
88	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	Mass of Zinc coating	BS EN 6724 Annex. B.2
89	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	Tensile Strength (Aluminium Wire)	BS 5467 Annex.-G-4
90	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	Thermal Stability Test	BS EN 60811-405
91	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	Water Absorption(gravimetric)	BS EN 60811-402
92	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	Water Immersion Test (Tensile Strength)	BS 6469 Sec: 99.1

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Certificate Number TC-8412 **Page No** 6 of 6

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93	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	Wrapping Test	BS 5467 Annex. G-3
94	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	Insulation resistance constrant	BS 6469-99-2
95	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	Thermal stability test	IS 10810(Pt-60)
96	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	Armour wire diameter	BS EN 6724 Annexure B.1
97	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	corrosive and acid gas	BS EN 60754-1
98	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	Flame propagation on single cable	BS EN 60332-1-2
99	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	Shrinkage test on oversheath	BS EN 6724 Annex H
100	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable ,	Flame propagation on multiple cables	BS EN 60332-3-24
101	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	Mass of zinc coating	BS 7846 / BS 6724, IS 10810(Pt-41)
102	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	Tensile strength of insulation and sheath	IS 10810(Pt-7)
103	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable, Pvc insulated Wires , Control Cable & power Cable	Thickness of conductor , insulation & Sheath	BS EN 50396
104	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable,Pvc insulated Wires , Control Cable & power Cable	Winding test on strip / wire	IS 10810(Pt-39)
105	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable,Pvc insulated Wires , Control Cable & power Cable	Adhesion test on armour wire/strip	IS 3975
106	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable,Pvc insulated Wires , Control Cable & power Cable	Heat shock test	IS 10810(Pt-14)
107	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable,Pvc insulated Wires , Control Cable & power Cable	Hot set test	BS EN 60811-507
108	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable,Pvc insulated Wires , Control Cable & power Cable	Additional ageing test (for out door use) Cat-02 Type	IS 694 , Cl- 10.9
109	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable,Pvc insulated Wires , Control Cable & power Cable	Torsion test on wire	IS 10810(Pt-38)
110	ELECTRICAL- CABLES & WIRES	Power cables with Extruded insulation/XLPE insulated Cable,Pvc insulated Wires , Control Cable & power Cable	Uniformity of zinc coating	IS 10810(Pt-40)