National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 1 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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	Arial Bunched Cables - Working voltage up to and including 1100 V	Bending Test on the complete cable	IS 14255:1995 Clause 11.4 and IS 10810 (Part 50)
2	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables - Working voltage up to and including 1100 V	Carbon Black Content	IS 14255:1995, Clause 10(C)-vi, Clause 10(d)-iii and IS 10810 (Part 32)
3	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables - Working voltage up to and including 1100 V	Conductor Resistance	IS 14255:1995 Cl no. 10.3a, 10.2e, 10.1a iii, 10.1b iii, IS 8130:2013 Clause 7.3 and IS 10810 (Part 5)
4	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables - Working voltage up to and including 1100 V	Elongation at break for insulation	IS 14255:1995, Cl. 5.1 (Table -1) ,Cl. No. 10.1 c.i), d.i), (Table-2), Cl. 10.2.g and IS 10810 (Part 7)
5	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables - Working voltage up to and including 1100 V	Elongation test for messenger conductor	IS 14255 Cl No. 10.1.b.ii, 10.2.d, Cl.11.3
6	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables - Working voltage up to and including 1100 V	Elongation Variation after ageing in air oven	IS 14255:1995, Cl. 5.1 (Table -1) ,Cl. No. 10.1 c.ii), (Table-2) and IS 10810 (Part 11)
7	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables - Working voltage up to and including 1100 V	Environmental stress cracking	IS 14255:1995 Clause 10.1.d.v and IS 10810 (Part 29)
8	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables - Working voltage up to and including 1100 V	High Voltage Test	IS 14255:1995 Cl. No. 10.1g, 10.2k, 10.3b, 11.2, and IS 10810 (Part 45)
9	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables - Working voltage up to and including 1100 V	Hot Set	IS 14255:1995 Cl. No. 10.1.c.iii, 10.2.h and IS 10810 (Part 30)
10	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables - Working voltage up to and including 1100 V	Insulation Resistance (Volume Resistivity)	IS 14255:1995 Cl. No. 10.2.j, 10.1.f and IS 10810 (Part 43)
11	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables - Working voltage up to and including 1100 V	Melt flow Index	IS 14255:1995 Clause 10.1.d.ii and IS 10810 (Part 23)
12	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables - Working voltage up to and including 1100 V	Shrinkage on Insulation	IS 14255:1995 Cl No 10.1.c.iv and IS 10810 (Part 12)
13	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables - Working voltage up to and including 1100 V	Tensile Strength on insulation	IS 14255:1995, Cl. 5.1 (Table -1) ,Cl. No. 10.1 c.i), d.i), (Table-2), Cl. 10.2.g and IS 10810 (Part 7)
14	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables - Working voltage up to and including 1100 V	Tensile Strength Variation after ageing in air oven	IS 14255:1995, Cl. 5.1 (Table -1) ,Cl. No. 10.1 c.ii), (Table-2) and IS 10810 (Part 11)

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Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 2 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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15	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables - Working voltage up to and including 1100 V	Tensile Test for Aluminium Wires	IS 14255:1995,Clause 10.1(a) i, Clause 10.2.a and IS 8130:2013 Cl.7.2.1 and IS 10810 (Part 2)
16	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables - Working voltage up to and including 1100 V	Test for Thickness of Insulation	IS 14255:1995, Clause 7.2 Table-4, Clause 10.1.e & 10.2.f and IS 10810 (Part 6)
17	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables - Working voltage up to and including 1100 V	Water Absorption Test (Gravimetric)	IS 14255:1995, Clause 5.1, Table 1. Cl. 10.1 c.v) and IS 10810 (Part 33)
18	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables - Working voltage up to and including 1100 V	Wrapping test for Aluminium Wires	IS 14255:1995,Clause 10(a) ii, Clause 10.2.b, IS 8130:2013, Cl. 7.2.2 and IS 10810 (Part 3)
19	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables- Working voltage up to and including 1100 V	Breaking load on Messenger Conductor	IS 14255:1995, Clause 6.5 table 3, Clause 10.1.b.i, Clause 10.2.c and IS 10810 (Part 2)
20	ELECTRICAL- CABLES & WIRES	Copper Conductor used in wire and cables	Copper Purity	IS 191
21	ELECTRICAL- CABLES & WIRES	Cross linked Polyethylene Insulated Thermoplastic Sheathed cables (66 kV to 220 kV)	Verification of Void and Contamination (Visual Test)	HIL/TST/SOP-65 (Issue No. 01, Issue Date: 11.01.2021)
22	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Annealing test for copper conductors	IS 7098 (Part 1): 1988, Cl. 15.1(a)- i, 15.2 a, IS 8130:2013, Cl. 7.2.3 and IS 10810 (Part 1)
23	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Cold Bend	IS 7098 (Part 1): 1988,Clause 15.4 (a), IS 5831:1984, Cl. 4.1 Table-1 Test No. ix), Table-2 Test No. vii) and IS 10810 (Part 20)
24	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Cold Impact	IS 7098 (Part 1): 1988, Clause 15.4(b), IS 5831:1984, Cl. 4.1 Table-1 Test No. x), Table-2 Test No. viii) and IS 10810 (Part 21)
25	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Conductor Resistance	IS 7098 (Part 1): 1988,Cl. 15.1(a)- iv, Cl. 15.3 a), Cl. 15.2.d, IS 8130 Cl.7.3:2012 and IS 10810 (Part 5)
26	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Flammability	IS 7098 (Part 1: Cl. 16.3, Cl. 15.1h): 1988 and IS 10810 (Part 53)

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Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 3 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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27	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Dimension for armour strip	IS 7098 (Part 1): 1988,Clause 15.1(b) and IS 10810 (Part 36)
28	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Dimension for armour wire	IS 7098 (Part 1): 1988,Clause 15.1(b) and IS 10810 (Part 36)
29	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Elongation at break of Armouring Materials	IS 7098 (Part 1): 1988,Cl. 15.1(b), IS 3975:1999, Cl. 8.1 and IS 10810 (Part 37)
30	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Elongation at break of Thermoplastic and Elastomeric Insulation and Sheath (before and after ageing)	IS 7098 (Part 1): 1988,Clause 15.1(d) i,15.1(e) i, 15.2 (g),Table - 1, IS 5831:1984, Cl.4.1 (Table-1, Test No. iii) & iv), (Table-2, Test No. i) & ii) and IS 10810 (Part 7 & Part 11)
31	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Elongation Variation of Thermoplastic and Elastomeric Insulation and Sheath (After ageing)	IS 7098 (Part 1):1988,Clause 15.1(d) i) & ii),15.1(e) i) & ii), 15.2 (g),Table - 1, IS 5831:1984, Cl.4.1 (Table-1, Test No. iv. c), (Table-2, Test No. ii. c) and IS 10810 (Part 7 & 11)
32	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Heat Shock	IS 7098 (Part 1): 1988,Clause 15.1(e)-vi, IS 5831:1984 Cl.4.1 Table-1, Test No. vii), Table-2 Test No. v) and IS 10810 (Part 14)
33	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	High Voltage	IS 7098 (Part 1): 1988,Clause 16.2, Cl. 15.1 g, 15.2 h, Cl. 15.3 b and IS 10810 (Part 45)
34	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Hot Deformation	IS 7098 (Part 1): 1988,Clause 15.1(e) v, IS 5831:1984, Cl.4.1 Table-1, Test No. vi), Table-2 Test No. iv) and IS 10810 (Part 15)
35	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Hot Set	IS 7098 (Part 1):1988,Clause 4.1, Table-1, Cl. 15.1 d iii), Cl. 15.2 f) and IS 10810 (Part 30)
36	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Insulation Resistance (Volume Resistivity)	IS 7098 (Part 1):1988,Cl. 4.1, Table-1, Cl. 15.1 (f), Cl. 15.2 (i) and IS 10810 (Part 43)
37	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Loss of Mass	IS 7098 (Part 1): 1988,Clause 15.1(e) iii, IS 5831:1984 Cl.4.1 Table-1 Test No. v), Table-2 Test No. iii) and IS 10810 (Part 10)

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Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 4 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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38	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Mass of Zinc Coating on steel Armour	IS 7098 (Part 1): 1988,Cl. 15.1(b), IS 3975:1999 Cl. 9.1 and IS 10810 (Part 41)
39	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Resistivity of Armour Wires & Strips	IS 7098 (Part 1): 1988,Cl. 15.1(b), IS 3975:1999 Cl. 8.4 and IS 10810 (Part 42)
40	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Shrinkage	IS 7098 (Part 1):1988 Clause 15.1(d) iv, 15.1(e) iv, IS 5831:1984 Cl.4.1 (Table-1, Test No. viii), Table-2, Test No. vi) and IS 10810 (Part 12)
41	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Tensile Strength of Armouring Materials	IS 7098 (Part 1): 1988,Cl. 15.1(b), IS 3975:1999, Cl. 8.1 and IS 10810 (Part 37)
42	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Tensile Strength of Thermoplastic and Elastomeric Insulation and Sheath (before and after ageing)	IS 7098 (Part 1): 1988,Clause 15.1(d) i,15.1(e) i, 15.2 (g),Table - 1, IS 5831:1984, Cl.4.1 (Table-1, Test No. iii) & iv), (Table-2, Test No. i) & ii) and IS 10810 (Part 7 & Part 11)
43	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Tensile Strength Variation of Thermoplastic and Elastomeric Insulation and Sheath (After ageing)	IS 7098 (Part 1):1988,Clause 15.1(d) i) & ii),15.1(e) i) & ii), 15.2 (g),Table - 1, IS 5831:1984, Cl.4.1 (Table-1, Test No. iv. b), (Table-2, Test No. ii. b) and IS 10810 (Part 11)
44	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Tensile Test for Aluminium Wires	IS 7098 (Part 1): 1988,Clause 15.1(a) ii, 15.2 (b), IS 8130:2013, Cl. 7.2.1 and IS 10810 (Part 2)
45	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Test for Thickness of Insulation	IS 7098 (Part 1): 1988,Clause 9.2, 9.3, Clause 15.1 (c), 15.2(e), Table 3 and IS 10810 (Part 6)
46	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Test for thickness of sheath	IS 7098 (Part 1): 1988,Clause 12.3,Table-5, Clause 15.1 (c), 15.2(e), Table 8 and IS 10810 (Part 6)
47	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Thermal Stability of PVC Insulation and Sheath	IS 7098 (Part 1): 1988,Clause 15.1(e) vii, IS 5831:1984 (Table-1, Test No. xiii), (Table-2, Test No. xi) and IS 10810 (Part 60)

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Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 5 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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48	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Torsion on Galvanized steel wire for Armouring	IS 7098 (Part 1): 1988,Cl. 15.1(b), IS 3975:1999 Cl.8.2, Table-6 and IS 10810 (Part 38)
49	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Uniformity of Zinc coating (Dip Test) on steel armour	IS 7098 (Part 1): 1988, Cl. 15.1(b), IS 3975:1999 Cl.9.2 and IS 10810 (Part 40)
50	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Water Absorption (Gravimetric)	IS 7098 (Part 1): 1988,Cl. 4.1, Table-1, Cl. 15.1.d.v and IS 10810 (Part 33)
51	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Winding test for formed wires	IS 7098 (Part 1): 1988,Cl. 15.1(b), Cl. 13.6 (d) and IS 10810 (Part 39)
52	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated PVC Sheathed Cables - Working voltage up to & including 1100 V	Wrapping test for Aluminium Wires	IS 7098 (Part 1): 1988,Cl. 15.1(a) iii, Cl. 15.2 (c), IS 8130 Cl. 7.2.2:2013 and IS 10810 (Part 3)
53	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Dielectric Power Factor at elevated temperature	IS 7098:1993 (Part 3),Clause 20.13 and IS 10810 (Part 48)
54	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Annealing test for copper conductors	IS 7098 (Part 3):1993,Clause 19.1(a) i , 19.2.1 (b), IS 8130:2013, Cl. 7.2.3 and IS 10810 (Part 1)
55	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Bending test followed by PD test	IS 7098 (Part 3):1993,Cl. 19.1(m), Cl. 20.11, Cl. 20.10 and IS 10810 (Part 46 & 50)
56	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Carbon Black Content of PE sheath	IS 7098 (Part 3):1993,Clause 19.1(g)-3(i) and IS 10810 (Part 32)
57	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Cold Impact	IS 7098 (Part 3):1993,Clause 19.4, IS 5831:1984, Cl. 4.1 Table-1 Test No. x), Table-2 Test No. viii) and IS 10810 (Part 21)
58	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Conductor Resistance	IS 7098 (Part 3):1993,Cl. 4.1, Cl. 19.1.(a) ii , 19.2.1 (a), 19.3.1 (a) and IS 10810 (Part 5)
59	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Dielectric Power Factor and Capacitance measurement at ambient temperature	IS 7098 (Part 3):1993,Cl. 20.12, 2018, Cl. 19.1 (n), 19.2.1 (k) and IS 10810 (Part 48)

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Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 6 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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60	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Dimensions of Armouring Material	IS 7098 (Part 3):1993,Clause 19.1(f) i and IS 10810 (Part 36)
61	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Elongation at break of Armouring Materials	IS 7098 (Part 3):1993,Clause 19.1(f) ii, IS 3975:1999, Cl. 8.1 and IS 10810 (Part 37)
62	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Elongation at break of Thermoplastic and Elastomeric Insulation and Sheath (before and after ageing)	IS 7098 (Part 3):1993,Clause 19.1(b) ii , iii, Clause 19.1(g)-2i, ii, Clause 19.1(g)-3ii, IS 5831:1984, Cl.4.1 (Table-1, Test No. iii) & iv), (Table-2, Test No. i) & ii) and IS 10810 (Part 7 & 11)
63	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Elongation Variation of Thermoplastic and Elastomeric Insulation and Sheath (After ageing)	IS 7098 (Part 3):1993,Clause 19.1(b) ii , iii, Clause 19.1(g)-2i, ii, Clause 19.1(g)-3ii, IS 5831:1984, Cl.4.1 (Table-1, Test No. iv. c), (Table-2, Test No. ii. c) and IS 10810 (Part 7 & 11)
64	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Flammability	IS 7098 (Part 3) (Cl. 20.7), (Cl. 19.1.h):1993 and IS 10810 (Part 53)
65	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Heat Shock	IS 7098 (Part 3):1993,Clause 19.1(g) iv, IS 5831:1984 Cl.4.1 Table-1, Test No. vii), Table-2 Test No. v) and IS 10810 (Part 14)
66	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	High Voltage	IS 7098 (Part 3) ,Clause 19.2.1 (j), 19.3.1 (c), 20.17
67	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Hot Deformation	IS 7098 (Part 3):1993,Clause 19.1(g) v, Clause 19.1(g)3 iii, IS 5831:1984, Cl.4.1 Table-1, Test No. vi), Table-2 Test No. iv) and IS 10810 (Part 15)
68	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Hot Set test	IS 7098 (Part 3):1993,clause 19.1(b) iv, 19.2.1 (d), Table-2 and IS 10810 (Part 30)
69	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Impulse withstand test followed by HV test	IS 7098 (Part 3):1993,Clause 20.15 and IS 10810 (Part 47)

SCOPE OF ACCREDITATION

Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 7 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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70	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Load Cycle test followed by PD Measurement	IS 7098 (Part 3) Clause 20.10, 20.11 & 20.14
71	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Longitudinal water tightness	IS 7098 (Part 3):1993,Cl. 20.8.1, Cl. 19.1.j, Annex.-D and IEC 60502-2, Clause 19.24, Annex. F
72	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Loss of Mass	IS 7098 (Part 3):1993,Clause 19.1(g)-2 iii, IS 5831:1984 Cl.4.1 Table-1 Test No. v), Table-2 Test No. iii) and IS 10810 (Part 10)
73	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Partial Discharge	IS 7098 (Part 3):1993,Clause 20.10, 20.11.1,20.14.1,19.1 (m) & (q) , 19.2.1 (h) , 19.3.1 (b) and IS 10810 (Part 46)
74	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Resistivity of Armour wire and strips	IS 7098 (Part 3):1993,Clause 19.1(f) iv, IS 3975:1999, Cl. 8.4 and IS 10810 (Part 42)
75	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Shrinkage	IS 7098 (Part 3):1993,Clause 19.1(b)-v, Clause 19.1(g)-2 vi, IS 5831:1984 Cl.4.1 (Table-1, Test No. viii), Table-2, Test No. vi) and IS 10810 (Part 12)
76	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Tensile Strength at Break of Armouring Materials	IS 7098 (Part 3):1993,Clause 19.1(f) ii, IS 3975:1999, Cl. 8.1 and IS 10810 (Part 37)
77	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Tensile Strength at Break of Thermoplastic and Elastomeric Insulation and Sheath (Before & after ageing)	IS 7098 (Part 3):1993,Clause 19.1(b) ii , iii, Clause 19.1(g)-2i, ii, Clause 19.1(g)-3ii, IS 5831:1984, Cl.4.1 (Table-1, Test No. iii) & iv), (Table-2, Test No. i) & ii) and IS 10810 (Part 7 & 11)
78	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Tensile Strength for Aluminium Wires	IS 7098 (Part 3):1993,Clause 4.1, IS 8130:2013 Cl.7.2.1 and IS 10810 (Part 2)
79	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Tensile Strength Variation of Thermoplastic and Elastomeric Insulation and Sheath (After ageing)	IS 7098 (Part 3):1993,Clause 19.1(b) ii , iii, Clause 19.1(g)-2i, ii, Clause 19.1(g)-3ii, IS 5831:1984, Cl.4.1 (Table-1, Test No. iii) & iv), (Table-2, Test No. i) & ii) and IS 10810 (Part 7 & 11)

SCOPE OF ACCREDITATION

Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 8 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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
80	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Test for concentric metallic screen	IS 7098 (Part 3) Cl. 20.3, Cl. 20.4, Cl. 19.1 (d) i & Cl. 19.1 (d) ii
81	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Test for Eccentricity	IS 7098 (Part 3):1993,Clause 20.16.2 and IS 10810 (Part 6)
82	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Test for Ovality	IS 7098 (Part 3):1993,Clause 201.16.3 and IS 10810 (Part 6)
83	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Test for Thickness of Insulation	IS 7098 (Part 3):1993,Clause 19.1 (b) i & 19.1 (g) 1, 19.2.1 (c),13, 20.16,Table No. 5 and IS 10810 (Part 6)
84	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Test for thickness of sheath	IS 7098 (Part 3):1993,Clause 19.1 (g) i, 19.2.1 (g),13, 16, 18.3, Table No. 7& 9 and IS 10810 (Part 6)
85	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Test on extruded semiconducting screens - volume resistivity	IS 7098 (Part 3),Cl. 19.1(c), Annex. C, Cl. 20.2
86	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Thermal Ageing test for complete cable	IS 7098 (Part 3),Clause 20.9:1993, Table 2, IS 5831:1984, IS 10810 (Part 7)
87	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Thermal Stability of PVC Insulation and Sheath	IS 7098 (Part 3):1993,Clause 19.1(g)-2 (vii), IS 5831:1984 (Table-1, Test No. xiii), (Table-2, Test No. xi) and IS 10810 (Part 60)
88	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Thickness of metallic sheath	IS 7098 (Part 3):1993,Clause 19.1 (e), 19.2.1 (f), 20.5 ,Table-6 and IS 10810 (Part 34)
89	ELECTRICAL- CABLES & WIRES	Cross-linked Polyethylene Insulated Thermoplastic Sheathed cable - Working voltage from 66 kV to and including 220 kV	Wrapping test for Aluminium Wires	IS 7098 (Part 3):1993,Cl. 4.1, IS 8130:2013 Cl. 7.2.2 and IS 10810 (Part 3)
90	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Annealing test for copper conductors	IS 7098 (Part 2):2011,Clause 19.1(i) a, Clause 19.2(a), IS 8130:2013, Cl. 7.2.3 and IS 10810 (Part 1)
91	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Bending	IS 7098 (Part 2):2011,Clause 20.3 and IS 10810 (Part 50)

SCOPE OF ACCREDITATION

Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 9 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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
92	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Carbon Black Content of PE Sheath	IS 7098 (Part 2): 2011,Clause 19.1(vi) h Table-3 and IS 10810 (Part 32)
93	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Cold Impact	IS 7098 (Part 2):2011,Clause 19.4, IS 5831:1984, Cl. 4.1 Table-1 Test No. x), Table-2 Test No. viii) and IS 10810 (Part 21)
94	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Conductor Resistance	IS 7098 (Part 2):2011,Clause 19.1(i) d, Clause 19.2.d, Clause 19.3.a, IS 8130:2013 and IS 10810 (Part 5)
95	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Dielectric Power Factor Test as a function of temperature	IS 7098 (Part 2):2011,Clause 20.4.2 and IS 10810 (Part 48)
96	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Dielectric Power Factor Test as a function of voltage	IS 7098 (Part 2):2011,Clause 20.4.1 and IS 10810 (Part 48)
97	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Dimension for armouring wires/formed wires	IS 7098 (Part 2):2011, Clause 8 table 6, IS 3975:1999 and IS 10810 (Part 36)
98	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Eccentricity test	IS 7098 (Part 2): 2011, Clause 12.4, Annex A and IS 10810 (Part 6)
99	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Elongation at break of Armouring Materials	IS 7098 (Part 2):2011 Clause 19.1(ii), Clause 8, IS 3975:1999, Cl. 8.1 and IS 10810 (Part 37)
100	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Elongation at break of Thermoplastic and Elastomeric Insulation and Sheath (before and after ageing)	IS 7098 (Part 2:):2011 Clause 19.1(iii) a & b Table-1 & Clause 19.1(vi) a & b, 19.2 (g), IS 5831:1984, Cl.4.1 (Table-1, Test No. iii) & iv), (Table-2, Test No. i) & ii) and IS 10810 (Part 7 & 11)
101	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Elongation Variation of Thermoplastic and Elastomeric Insulation and Sheath (After ageing)	IS 7098 (Part 2:):2011 Clause 19.1(iii) a & b Table-1 & Clause 19.1(vi) a & b, 19.2 (g), IS 5831:1984, Cl.4.1 (Table-1, Test No. iii) & iv), (Table-2, Test No. i) & ii) and IS 10810 (Part 7 & 11)

SCOPE OF ACCREDITATION

Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 10 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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
102	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Flammability test for PVC sheathed cables	IS 7098 (Part 2):2011,Cl. 20.8, Cl.19.1.xv and IS 10810 (Part 53)
103	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Heat Cycle	IS 7098 (Part 2):2011,Cl. 20.5, Cl. 19.1.xii and IS 10810 (Part 49)
104	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Heat Shock	IS 7098 (Part 2):2011,Clause 19.1(6) f, IS 5831:1984 Cl.4.1 Table-1, Test No. vii), Table-2 Test No. v) and IS 10810 (Part 14)
105	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	High Voltage	IS 7098 (Part 2):2011,Clause 20.7, Clause 19.1 (xiv) , 19.2 (j) and IS 10810 (Part 45)
106	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Hot Deformation	IS 7098 (Part 2):2011,Clause 19.1(6) d, IS 5831:1984, Cl.4.1 Table-1, Test No. vi), Table-2 Test No. iv) and IS 10810 (Part 15)
107	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Hot Set test	IS 7098 (Part 2):2011,Clause 19.1(iii) d, 19.2 (f), Table 1 and IS 10810 (Part 30)
108	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Impulse withstand test	IS 7098 (Part 2):2011,Clause 20.6, Clause 19.1.xiii and IS 10810 (Part 47)
109	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Insulation Resistance (Volume Resistivity)	IS 7098 (Part 2):2011,Clause 19.1(xi), Clause 19.2.k, Table-1 and IS 10810 (Part 43)
110	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Loss of Mass	IS 7098 (Part 2):2011,Clause 19.1(6) e, IS 5831:1984 Cl.4.1 Table-1 Test No. v), Table-2 Test No. iii) and IS 10810 (Part 10)
111	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Mass of Zinc Coating on steel Armour	IS 7098 (Part 2):2011,Clause 19.1(ii) Table-6, Clause 8, IS 3975:1999 Cl. 9.1 and IS 10810 (Part 41)
112	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Partial Discharge	IS 7098 (Part 2):2011,Clause 20.2, Clause 19.1.viii, Clause 19.2.h, Clause 19.3.b, IEC 60502 (Part 2) and IS 10810 (Part 46)

SCOPE OF ACCREDITATION

Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 11 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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
113	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Resistivity of Armour Wires & Strips	IS 7098 (Part 2):2011,Clause 19.1(ii), Clause 8, IS 3975:1999, Cl.8.4 and IS 10810(Part 42)
114	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Shrinkage	IS 7098 (Part 2):2011,Clause 19.1(iii) e ,Clause 19.1(vi) c, IS 5831:1984 Cl.4.1 (Table-1, Test No. viii), Table-2, Test No. vi) and IS 10810 (Part 12)
115	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Tensile Strength at Break of Armouring Materials	IS 7098 (Part 2):2011 Clause 19.1(ii), Clause 8, IS 3975:1999, Cl. 8.1 and IS 10810 (Part 37)
116	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Tensile Strength of Thermoplastic and Elastomeric Insulation and Sheath (before and after ageing)	IS 7098 (Part 2:):2011 Clause 19.1(iii) a & b Table-1 & Clause 19.1(vi) a & b, 19.2 (g), IS 5831:1984, Cl.4.1 (Table-1, Test No. iii) & iv), (Table-2, Test No. i) & ii) and IS 10810 (Part 7 & 11)
117	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Tensile Strength Variation of Thermoplastic and Elastomeric Insulation and Sheath (After ageing)	IS 7098 (Part 2:):2011 Clause 19.1(iii) a & b Table-1 & Clause 19.1(vi) a & b, 19.2 (g), IS 5831:1984, Cl.4.1 (Table-1, Test No. iii) & iv), (Table-2, Test No. i) & ii) and IS 10810 (Part 7 & 11)
118	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Tensile Test for Aluminium Wires	IS 7098 (Part 2):2011,Clause 19.1(i) b, Clause 19.2.b, IS 8130:2013, Cl. 7.2.1 and IS 10810 (Part 2)
119	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Test for Thickness of Insulation	IS 7098 (Part 2): 2011 clause 19.1(iv), 19.2 (e), Clause 12.1, 12.2, 12.3, Table 4 and IS 10810 (Part 6)
120	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Test for thickness of sheath	IS 7098 (Part 2): 2011 clause 19.1(iv), 19.2 (e), Clause 16.3, 18.3, Table 5 & 7 and IS 10810 (Part 6)
121	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Test on extruded semiconducting screens - Test for Strippability of semiconducting strippable insulation screen	IS 7098 (Part 2),Clause 19.1(v) a, Table-2, Annex-B

SCOPE OF ACCREDITATION

Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 12 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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
122	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Test on extruded semiconducting screens - volume resistivity	IS 7098 (Part 2),clause 19.1(5)b, Table-2 and Annex- E
123	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Thermal ageing test for complete cable	IS 7098 (Part 2), Clause 20.9
124	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Thermal Stability of PVC Insulation and Sheath	IS 7098 (Part 2):2011,Clause 19.1(vi)-g, IS 5831:1984 (Table-1, Test No. xiii), (Table-2, Test No. xi) and IS 10810 (Part 60)
125	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Torsion on Galvanized steel wire for Armouring	IS 7098 (Part 2):2011, Clause 19.1(ii) , IS 3975:1999 Cl.8.2, Table-6 and IS 10810 (Part 38)
126	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Uniformity of Zinc coating (Dip Testing) on steel armour	IS 7098 (Part 2):2011 Clause 19.1(ii), IS 3975:1999 Cl.9.2 and IS 10810 (Part 40)
127	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Water Absorption Test (Gravimetric)	IS 7098 (Part 2):2011,Clause 19.1(iii) f, Table-1 and IS 10810 (Part 33)
128	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Winding Test for Armouring Material	IS 7098 (Part 2):2011, IS 3975:1999 and IS 10810 (Part 39)
129	ELECTRICAL- CABLES & WIRES	Cross-Linked Polyethylene Insulated Thermoplastic Sheathed Cables - Working voltage from 3.3 kV to and including 33 kV	Wrapping test (for Aluminium)	IS 7098(PART-2) : 2011, Clause 19.1 (i) c, 19.2 (c), IS 8130 Clause 7.2.2:2013 and IS 10810 (PART-3)
130	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	4 Hour High Voltage	AS/NZS 1429.1 (Table 3.1, Test 9.i), Cl. No. 3.9
131	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Bending followed by PD	AS/NZS 1429.1 (Cl. No.3.4), (Table 3.1)
132	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Carbon Black Content	AS/NZS 1429.1 (Table 3.1, Test 6.a, Test 6.b):2005, AS/NZS 3808 (Table 10, Test D)
133	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Carbon Black Dispersion	AS/NZS 1429.1 : 2006, Table 3.1, test 6 a & b , AS/NZS 3808 , Table10 test E
134	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Compatibility test after ageing in an air oven for insulation, separation sheath (if any) and over sheath	AS/NZS 1429.1 (Table 3.1, 9.k):2006 ans AS/NZS 1660.2.2

SCOPE OF ACCREDITATION

Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 13 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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
135	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Concentricity of Insulation	AS/NZS 1429.1 (Table 3.1, 3(b)), (Cl. No. 2.3.4)
136	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Conductor Resistance	AS/NZS 1429.1 (Table 3.1, Test 1):2006, AS/NZS 1125 (Table 2.1,2.2, 2.3,2.4, 2.5, 2.6), (Table 3.1, 3.2, 3.3)
137	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Determination of size and number of voids, contaminants and size of discolored translucents (XLPE only)	AS/NZS 1429.1:2006 (Table 3.1. Test 3.d.i, ii, iii, iv, v), AS/NZS 1660.3
138	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Diameter and cross sectional area of wire screen	AS/NZS 1429.1 (Table 3.1 (5)a, 5(b), Cl. No. 2.5.2
139	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Dielectric Power Factor measurement as a function of voltage	AS/NZS 1429.1 (Cl. No.3.5), (Table 3.1, 9.e)
140	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Dielectric Power Factor measurement at elevated temperature	AS/NZS 1429.1 (Cl. No.3.6), (Table 3.1, 9.f)
141	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Dimensions of armour	AS/NZS 1429.1 Cl. No. 2.12.5, 9Table 3.1,Test 8)
142	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Environmental stress crack resistance	AS/NZS 1429.1 (Table 3.1, Test 6.a, Test 6.b):2005, AS/NZS 3808 (Table 10, Test F)
143	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Exudation of plasticizers	AS/NZS 1429.1:2006 (Table 3.1, Test 6.a & 6.b), AS/NZS 3808 (Table 6, Test G):2000 and AS/NZS 1660.2.3, Cl.2.6
144	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Heat Shock	AS/NZS 1429.1 (Table 3.1, Test 6.a & Test 6.b):2006, AS/NZS 3808 (Table 6, Test E):2000, AS/NZS 1660.2.3 (Cl.2.4)
145	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Heating Cycle followed by Partial Discharge Test	AS/NZS 1429.1 Cl No. 3.7, (Table 3.1, Test 9.g)
146	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	High Voltage AC test for 1 min. in separation sheath	AS/NZS 1429.1 (Table 3.1 (9)c
147	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	High Voltage Test for 5 Min	AS/NZS 1429.1 (Cl. No. 3.3) (Table 3.1, Test 9.b)
148	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Hot Set	AS/NZS 1429.1 Table 3.1(3)e:2006, AS/NZS 3808 (Table 9, Test D), (Table 6, Test F)

SCOPE OF ACCREDITATION

Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 14 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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
149	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Impulse followed by High Voltage Test	AS/NZS 1429.1 (Cl. No. 3.8), (Table 3.1, Test 9.h):2006 and AS/NZS 1660.3
150	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Insulation resistance constant at 20 deg. cel.	AS/NZS 1429.1 (Table 3.1, Test 3f):2006, AS/NZS 3808 (Table 9, Test G.1)
151	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Insulation resistance constant at 90 deg. cel.	AS/NZS 1429.1 (Table 3.1, Test 3f):2006, AS/NZS 3808 (Table 9, Test G.2)
152	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Loss of Mass	AS/NZS 1429.1 (Table 3.1, Test 6.a & Test 6.b):2006, AS/NZS 3808 (Table 6, Test C)
153	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Mechanical test After Ageing in air oven (Elongation at break : % of value found in the unaged specimen)	AS/NZS 1429.1 (Table 3.1 Test 3.f, Test 6.a, Test 6.b):2006, AS/NZS 3808 (Table 9, Test B), (Table 10, Test B), (Table 6, Test [B)
154	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Mechanical test After Ageing in air oven (Elongation at break : % of value found in the unaged specimen)	AS/NZS 5000.1 (Table 6, Test 3 & 4):2005, AS/NZS 3808 (Table 9, Test B) (Table 10, Test B), (Table 6, Test B)
155	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Mechanical test After Ageing in air oven (Tensile Strength : % of value found in the unaged specimen)	AS/NZS 1429.1 (Table 3.1 Test 3.f, Test 6.a, Test 6.b):2006, AS/NZS 3808 (Table 9, Test B), (Table 10, Test B), (Table 6, Test [B)
156	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Mechanical Test without ageing (Elongation at rapture)	AS/NZS 1429.1 (Table 3.1 Test 3.f, Test 6.a, Test 6.b):2006, AS/NZS 3808 (Table 9, Test A), (Table 10, Test A), (Table 6, Test A)
157	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Mechanical Test without ageing (Tensile Strength)	AS/NZS 1429.1 (Table 3.1 Test 3.f, Test 6.a, Test 6.b):2006, AS/NZS 3808 (Table 9, Test A), (Table 10, Test A), (Table 6, Test A)
158	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Melt Flow Index	AS/NZS 1429.1 (Table 3.1 Test 6.a, Test 6.b):2006, AS/NZS 3808 (Table 10, Test C)
159	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Partial Discharge	AS/NZS 1429.1 (Cl. No.3.4.3, 3.7.2), (Table 3.1, 3.2)

SCOPE OF ACCREDITATION

Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 15 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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
160	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Pressure test at high temperature	AS/NZS 1429.1 (Table 3.1, Test 6.a & Test 6.b):2006, AS/NZS 3808 (Table 6, Test D):2000 and AS/NZS 1660.2.3, Cl.2.3
161	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Projection or irregularities at conductor screen/insulation interface	AS/NZS 1429.1:2006 (Table 3.1, Test 2.c), AS/NZS 1660.2.5
162	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Shrinkage on Insulation	AS/NZS 1429.1 (Table 3.1 3(c)):2006, AS/NZS 1660.2.1 (Cl. 2.5)
163	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Spark Test	AS/NZS 1429.1:2006 (Table 3.1, Test 6.a.iii & 6.b.iii), AS/NZS 1660.3
164	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Strippability and adhesion of hand strippable extruded screen	AS/NZS 1429.1 Cl. No. 2.4.3, (Table 3.1, 4b, 4c):2006 and AS/NZS 1660.2.5
165	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Tensile Strength for Aluminium Conductors	AS/NZS 1429.1 (Table 3.1):2006, AS/NZS 1125 (Table 3.1)
166	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Thickness of Insulation , Over sheath (Outer sheath) & Inner Sheath (Separation sheath)	AS/NZS 1429.1 Cl. No. 2.3.3, 2.10.2, 2.13.4, Table 3.1 (3)a Table 3.1(6)a(ii), Table 3.1(6)b(ii):2006 and AS/NZS 1660.2.1
167	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Thickness of insulation semi-conducting & conductor semi-conducting screen	AS/NZS 1429.1 Cl. No. 2.2.2, 2.4.2, Table 3.1(4)d, Table 3.1(2)b:2006 and AS/NZS 1660.2.1
168	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Thickness of Metallic (Aluminium corrugation/ lead) sheath	AS/NZS 1429.1 Cl. No. 2.9.2.4, (Table 3.1 Test 7):2006 and AS/NZS 1660.1
169	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Volume Resistivity of extruded screen	AS/NZS 1429.1 (Table 3.1,2(a) & 4(a):2006 and AS/NZS 1660.3
170	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Volume resistivity of extruded screen (conductor screen and insulation screen)	AS/NZS 1429.1:2006 (Table 3.1. Test 2.a & 4.a), AS/NZS 1660.3
171	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Water Penetration	AS/NZS 1429.1 (Table 3.1,9j), Appendix C

SCOPE OF ACCREDITATION

Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 16 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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
172	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV	Wrapping test of conductor wires taken from stranded circular conductors for aerial cables	AS/NZS 1429.1 (Table 3.1):2006 ,AS/NZS 1125 (Table 3.1)
173	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Carbon Black Content	AS/NZS 5000.1 (Table 6, Test 4):2005, AS/NZS 3808 (Table 10, Test D)
174	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Carbon Black Dispersion	AS/NZS 5000.1 (Table 6, Test 4):2005, AS/NZS 3808 (Table 10, Test E)
175	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Compatibility test after ageing in an air oven for insulation, separation layer (if any) and over sheath	AS/NZS 5000.1 (Table 6, Test 14): 2005, AS/NZS 1660.2.2 (Cl.2.2.1.5):1998 or AS/NZS 1660.2.3 (Cl.2.1.1.5)
176	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Conductor Resistance	AS/NZS 5000.1 (Table 6):2005, AS/NZS 1125 (Table 2.1,2.2, 2.3,2.4, 2.5, 2.6), (Table 3.1, 3.2, 3.3)
177	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Environmental stress crack resistance	AS/NZS 5000.1 (Table 6, Test 4):2005, AS/NZS 3808 (Table 10, Test F)
178	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Exudation of plasticizers	AS/NZS 5000.1:2005 (Table 6, Test 4), AS/NZS 3808 (Table 6, Test G):2000 and AS/NZS 1660.2.3, Cl.2.6
179	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Heat Shock	AS/NZS 5000.1 (Table 6, Test 4):2005, AS/NZS 3808 (Table 6, Test E):2000, AS/NZS 1660.2.3 (Cl.2.4)
180	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	High Voltage a.c. test for 4 h	AS/NZS 5000.1 (Table 6, Test 10): 2005, AS/NZS 1660.3
181	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	High Voltage test for 5 min on separation layer(s)	AS/NZS 5000.1 (Table 6, Test 13): 2005, AS/NZS 1660.3 (Cl.3.2.1.2)
182	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	High voltage test for 5 min.	AS/NZS 5000.1 (Table 6, Test 12): 2005, AS/NZS 1660.3
183	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Hot Set Test	AS/NZS 5000.1 (Table 6, Test 3 & 4):2005, AS/NZS 3808 (Table 9, Test D) (Table 6, Test F)
184	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Insulation resistance constant at 20 deg. cel.	AS/NZS 5000.1 (Table 6, Test 3):2005, AS/NZS 3808 (Table 9, Test G.1)

SCOPE OF ACCREDITATION

Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 17 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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
185	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Insulation resistance constant at 90 deg. cel.	AS/NZS 5000.1 (Table 6, Test 3):2005, AS/NZS 3808 (Table 9, Test G.2)
186	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Legibility of marking on outer surface	AS/NZS 5000.1 (Table 6, Test 16), (Cl. 16.3)
187	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Loss of Mass	AS/NZS 5000.1 (Table 6, Test 4):2005, AS/NZS 3808 (Table 6, Test C)
188	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Measurement of armour dimensions	AS/NZS 5000.1 (Table 6, Test 8), (Cl. 11)
189	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Measurement of insulation thickness	AS/NZS 5000.1 (Table 6, Test 5), (Cl. 6)
190	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Measurement of metallic sheath thickness	AS/NZS 5000.1 (Table 6, Test 9), (Cl. 12)
191	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Measurement of thickness of over sheath and separation layer	AS/NZS 5000.1 (Table 6, Test 6), (Cl. 10), (Cl.13)
192	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Measurement of thickness of polyamide jacket	AS/NZS 5000.1 (Table 6, Test 7), (Cl. 15)
193	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Mechanical test After Ageing in air oven (Tensile Strength : % of value found in the unaged specimen)	AS/NZS 5000.1 (Table 6, Test 3 & 4):2005, AS/NZS 3808 (Table 9, Test B) (Table 10, Test B), (Table 6, Test B)
194	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Mechanical test without ageing (Elongation at rapture)	AS/NZS 5000.1 (Table 6, Test 3 & 4):2005, AS/NZS 3808 (Table 9, Test A) (Table 10, Test A), (Table 6, Test A)
195	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Mechanical test without ageing (Tensile Strength at rapture)	AS/NZS 5000.1 (Table 6, Test 3 & 4):2005, AS/NZS 3808 (Table 9, Test A) (Table 10, Test A), (Table 6, Test A)
196	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Melt Flow Index	AS/NZS 5000.1 (Table 6, Test 4):2005, AS/NZS 3808 (Table 10, Test C)
197	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Pressure test at high temperature	AS/NZS 5000.1 (Table 6, Test 4):2005, AS/NZS 3808 (Table 6, Test D):2000 and AS/NZS 1660.2.3, Cl.2.3
198	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Tensile Strength for Aluminium Conductors	AS/NZS 5000.1 (Table 6): 2005, AS/NZS 1125 (Table 3.1)

SCOPE OF ACCREDITATION

Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 18 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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
199	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Vertical flame propagation	AS/NZS 5000.1 (Table 6, Test 15): 2005, AS/NZS 1660.5.6
200	ELECTRICAL- CABLES & WIRES	Electric Cables - Polymeric insulated for working voltages up to and including 0.6/1 (1.2) kV	Wrapping test of conductor wires taken from stranded circular conductors for aerial cables	AS/NZS 5000.1 (Table 6): 2005,AS/NZS 1125 (Table 3.1)
201	ELECTRICAL- CABLES & WIRES	ELECTRIC CABLES. THERMOSETTING INSULATED, ARMOURED, FIRE-RESISTANT CABLES OF RATED VOLTAGE 600/1 000 V FOR FIXED INSTALLATIONS, HAVING LOW EMISSION OF SMOKE AND CORROSIVE GASES WHEN AFFECTED BY FIRE	Test for resistance to fire	BS 7846 (Cl. 17.6.2, 17.6.3, 17.6.4, 17.6.5):2015 and BS 8491
202	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) cables for working voltages up to and including 1100 Volts	Assessment of Halogen - pH Test	IS 17048, Table 2, II(k), III c(viii), d(i), e(vii), (Cl.5.7), (Annex D2)
203	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) cables for working voltages up to and including 1100 Volts	Hot Deformation on insulation and sheath	IS 17048 (Annex A), (Annex B), (Table 2):2018, IS 10810 (Part 15)
204	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) cables for working voltages up to and including 1100 Volts	Assessment of Halogen - Chorine and Bromine content expressed as content of HCL	IS 17048 (Cl.5.7), (Annex D):2018, IS 10810 (Part 59)
205	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) cables for working voltages up to and including 1100 Volts	Assessment of Halogen - Conductivity Test	IS 17048, Table 2 , II(k), III c(viii), d(i), e(vii), (Cl.5.7), (Annex D2)
206	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) cables for working voltages up to and including 1100 Volts	Assessment of Halogen - Fluorine Content	IS 17048 (Cl.5.7), (Annex D4)
207	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) cables for working voltages up to and including 1100 Volts	Assessment of Halogen - Presence of fluorine	IS 17048 (Cl.5.7), (Annex D3)
208	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) cables for working voltages up to and including 1100 Volts	Cold bend test on insulation and finished cable	IS 17048 (Cl.5.15), (Annex A), (Annex B),(Table 2):2018, IS 10180 (Part 20)
209	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) cables for working voltages up to and including 1100 Volts	Cold impact test on insulation and finished cable	IS 17048 (Cl.5.16), (Annex A), (Annex B), (Table 2):2018, IS 10810 (Part 21)
210	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) cables for working voltages up to and including 1100 Volts	Flame Retardant Test on insulation and finished cable	IS 17048 (Cl.5.11), (Table 2):2018, IS 10810 (Part 61)
211	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) cables for working voltages up to and including 1100 Volts	Flammability test on finished cable	IS 17048, Table 2 , II (j), III f(ii), (Cl.5.3) : 2018, IS 10810 (Part 53)
212	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) cables for working voltages up to and including 1100 Volts	High voltage test on insulation and finished cable	IS 17048 :2018, (Cl.5.1), Table 2, I (a), II (h), III c (ii), III f (i), IS 10810 (Part 45)

SCOPE OF ACCREDITATION

Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 19 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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
213	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) cables for working voltages up to and including 1100 Volts	Hot Set test on insulation and sheath	IS 17048, Table 2, II(m), III c(xi), e(viii), (Cl.5.12),(Annex A), (Annex B):2018, IS 10810 (Part 30)
214	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) cables for working voltages up to and including 1100 Volts	Insulation Resistance	IS 17048, Table 2, II (g), III c(iii),(Annex A):2018, IS 10810 (Part 43)
215	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) cables for working voltages up to and including 1100 Volts	Oxygen Index on insulation and sheath	IS 17048 Tab -2, III c(iv), e(iii), (Cl.5.4) : 2018, IS 10810 (Part 58)
216	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) cables for working voltages up to and including 1100 Volts	Ozone Resistance test on insulation and sheath	IS 17048 (Cl.5.14), (Table 2), (Annex A):2018, IS 10810 (Part 13)
217	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) cables for working voltages up to and including 1100 Volts	Smoke density test on finished cable	IS 17048 (Cl.5.6), (Table 2):2018, IS 10810 (Part 63)
218	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) cables for working voltages up to and including 1100 Volts	Temperature Index on insulation and sheath	IS 17048 ,Table 2, III c(v), e(iv), (Cl.5.5) : 2018, IS 10810 (Part 64)
219	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) cables for working voltages up to and including 1100 Volts	Tensile strength at break of insulation and sheath (before ageing)	IS 17048, Table 2, II (f), III c(i), & III e(i), (Cl.4.2.1), (Annex A), (Annex B):2018, IS 10810 (Part 7)
220	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) cables for working voltages up to and including 1100 Volts	Tensile Strength variation after ageing	IS 17048, Table 2, II (f), III c(i), & III e(i) & (ii), (Cl.4.2.1), (Annex A), (Annex B):2018, IS 10810 (Part 7 & 11)
221	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) cables for working voltages up to and including 1100 Volts	Test of overall dimensions and thickness of insulation and sheath (Ovality of sheath)	IS 17048 , Table 2 , II (e) , III b, (Cl. 11.2), (Cl. 11.3), (Cl.12.2), (Cl.12.3), (Cl.13.2), (Cl.13.4), (Cl.13.5), (Cl.13.6), (Cl.14.2), (Cl.14.4), (Cl. 14.5), (Cl.14.6), (Cl.15.2), (Cl.15.4), (Cl.15.5), Table 3 to Table 8:2018, IS 10810 (Part 6)
222	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) cables for working voltages up to and including 1100 Volts	Water immersion test (effect of water on sheath of cable)	IS 17048 (Cl.5.13), Table 2
223	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant Cables for working voltages up to and including 1100 V	Annealing (For Copper Conductors)	IS 17048 (Table 2):2018, IS 8130 (Cl.7.1.2):2013, IS 10810 (Part 1)
224	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant Cables for working voltages up to and including 1100 V	Conductor Resistance	IS 17048 (Table 2):2018, I (b), II (d), III(a (i), IS 8130 (Cl.7.3):2013, IS 10810 (Part 5)

SCOPE OF ACCREDITATION

Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 20 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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
225	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant Cables for working voltages up to and including 1100 V	Elongation at break of insulation and sheath (before ageing)	IS 17048, Table 2, II (f), III c(i), & III e(i), (Cl.4.2.1), (Annex A), (Annex B):2018, IS 10810 (Part 7)
226	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant Cables for working voltages up to and including 1100 V	Elongation Variation after ageing	IS 17048, Table 2, II (f), III c(i), & III e(i) & (ii), (Cl.4.2.1), (Annex A), (Annex B):2018, IS 10810 (Part 7 & 11)
227	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant Cables for working voltages up to and including 1100 V	Persulphate Test (For Tinned Copper only)	IS 17048: 2018, Table 2, II (c), III a(iii), IS 8130 (Cl.7.1.1):2013, IS 10810 (Part 4)
228	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant Cables for working voltages up to and including 1100 V	Tensile Test (For Aluminium Conductors)	IS 17048 : 2018,Table 2, II (a), III a (iv), IS 8130 (Cl.4.1),(Cl. 7.2.1):2013, IS 10810 (Part 2)
229	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant Cables for working voltages up to and including 1100 V	Wrapping Test (For Aluminium Conductor)	IS 17048 (Table 2):2018, Table 2, II (b), III a (v), IS 8130 (Cl.7.2.2):2013, IS 10810 (Part 3)
230	ELECTRICAL- CABLES & WIRES	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables	Wrapping Test for Armouring Material	IS 3975 Clause 8.3
231	ELECTRICAL- CABLES & WIRES	Low Carbon Galvanized steel wires. formed wires and tapes for armouring of cables	Adhesion Test	IS 3975 Cl. 9.3
232	ELECTRICAL- CABLES & WIRES	LT Power & control Cables for voltages up to & including 1100 Volts, HT Power Cables & their accessories for voltages up to & including 33/33 kV, EHV Cables & their accessories for voltages up to & including 220 kV	Flame Retardant Test on Single cable	IS 7098 (Part 1):1988 Clause 16.10, IS 7098 (Part 2):2011 Clause 20.11, IS 1554 (Part 1):1988 Clause 16.6 and IS 10810 (Part 61)
233	ELECTRICAL- CABLES & WIRES	LT Power & control Cables for voltages up to & including 1100 Volts, HT Power Cables & their accessories for voltages up to & including 33/33 kV, EHV Cables & their accessories for voltages up to & including 220 kV	Halogen Acid Gas Evolution /Corrosive & halogen acid gas	IEC 754-1:1994 & IEC 754-2:1991, IS 7098 (Part 1): 1988 Clause 16.13, IS 7098 (Part 2):2011 Clause 20.13, IS 1554 (Part 1):1988 clause 16.9, IS 694: 2010 clause 10.6 and IS 10810 (Part 59)
234	ELECTRICAL- CABLES & WIRES	LT Power & control Cables for voltages up to & including 1100 Volts, HT Power Cables & their accessories for voltages up to & including 33/33 kV, EHV Cables & their accessories for voltages up to & including 220 kV	Oxygen Index	ASTM-D-2863:2013, Clause 8; IS 7098 (Part 1):1988,Clause 16.9; IS 7098 (Part 2):2011,Clause 20.10; IS 1554 (Part 1):1988, Clause 16.5; IS 694:2010, Clause 10.5 and IS 10810 (Part 58)

SCOPE OF ACCREDITATION

Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 21 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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
235	ELECTRICAL- CABLES & WIRES	LT Power & control Cables for voltages up to & including 1100 Volts, HT Power Cables & their accessories for voltages up to & including 33/33 kV, EHV Cables & their accessories for voltages up to & including 220 kV	Temperature Index	ASTM-D-2863:2013, Clause 8; IS 7098 (Part 1):1988, Clause 16.14; IS 7098 (Part 2):2011, Clause 20.15; IS 1554 (Part 1):1988, Clause 16.10; IS 694: 2010, Clause 10.7 and IS 10810 (Part 64)
236	ELECTRICAL- CABLES & WIRES	MEASUREMENT OF SMOKE DENSITY OF CABLES BURNING UNDER DEFINED CONDITIONS	Smoke Density of Cable burning under defined condition	IEC 61034:2005 and IS 10810 (Part 63)
237	ELECTRICAL- CABLES & WIRES	Polyviynl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor - Working voltage up to and including 450/750 V	Hot Deformation	IS 694:2010,Table 1 (iii) C (6), (ii) D (6), IS 5831:1984, Cl.4.1 Table-1, Test No. vi), Table-2 Test No. iv) and IS 10810 (Part 15)
238	ELECTRICAL- CABLES & WIRES	Polyviynl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor - Working voltage up to and including 450/750 V	Annealing test for copper conductors	IS 694:2010,Clause 10, Table -1, (ii) a, (iii)a (1), IS 8130:2013, Cl. 7.2.3 and IS 10810 (Part 1)
239	ELECTRICAL- CABLES & WIRES	Polyviynl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor - Working voltage up to and including 450/750 V	Cold Bend	IS 694:2010,Table-1 (iii) c (8) and IS 10810 (Part 20)
240	ELECTRICAL- CABLES & WIRES	Polyviynl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor - Working voltage up to and including 450/750 V	Cold Impact	IS 694:2010, Table-1 (iii) c (9) and IS 10810 (Part 21)
241	ELECTRICAL- CABLES & WIRES	Polyviynl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor - Working voltage up to and including 450/750 V	Conductor Resistance	IS 694:2010 Clause 4.2, Table-1, Test-i.a, ii.d, iii.a.4, IS 8130:2013 Clause 7.3 and IS 10810 (Part 5)
242	ELECTRICAL- CABLES & WIRES	Polyviynl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor - Working voltage up to and including 450/750 V	Elongation at Break of Thermoplastic Insulation and Sheath (Before ageing)	IS 694:2010,Table-1 (iii) c (1) & d (1), (ii) f, IS 5831:1984, Cl.4.1 (Table-1, Test No. iii) and IS 10810 (Part 7)
243	ELECTRICAL- CABLES & WIRES	Polyviynl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor - Working voltage up to and including 450/750 V	Elongation Variation after ageing	IS 694:2010,Table-1 (iii) c (1) & d (1), (ii) f, IS 5831:1984, Cl.4.1 (Table-1, Test No. iv)c, (Table-2, Test No. ii)c and IS 10810 (Part 7 & 11)
244	ELECTRICAL- CABLES & WIRES	Polyviynl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor - Working voltage up to and including 450/750 V	Flammability test	IS 694:2010 Clause 10.4, Clause 10, Table-1 (Section iii.c.10, iii.e.5, ii (j)) and IS 10810 (Part 53)

SCOPE OF ACCREDITATION

Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 22 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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
245	ELECTRICAL- CABLES & WIRES	Polyviynl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor - Working voltage up to and including 450/750 V	Heat Shock	IS 694: 2010 Table 1 (iii).C.(5) & (iii).d.(5) and IS 10810 (Part 14)
246	ELECTRICAL- CABLES & WIRES	Polyviynl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor - Working voltage up to and including 450/750 V	High Voltage (Water Immersion)	IS 694:2010,Clause 10.1, Table-1 (iii).e(1) and IS 10810 (Part 45)
247	ELECTRICAL- CABLES & WIRES	Polyviynl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor - Working voltage up to and including 450/750 V	High Voltage at room temperature	IS 694:2010,Clause 10.2, Clause 10, Table-1, (i).b, (ii).h, (iii).e.2, (iii).e.4 and IS 10810 (Part 45)
248	ELECTRICAL- CABLES & WIRES	Polyviynl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor - Working voltage up to and including 450/750 V	Insulation Resistance (Volume Resistivity)	IS 694:2010,Table-1 iii (e) 3, (ii) g and IS 10810 (Part 43)
249	ELECTRICAL- CABLES & WIRES	Polyviynl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor - Working voltage up to and including 450/750 V	Loss of Mass	IS 694:2010,Table – 1 (iii) c (2), (iii) d (2) and IS 10810 (Part 10)
250	ELECTRICAL- CABLES & WIRES	Polyviynl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor - Working voltage up to and including 450/750 V	Persulphate Test/ Tinning Test	IS 694:2010 Clause 10.11, Table-1 (ii) q, (iii) a (5), IS 8130:2013 Clause 6.1.1 and IS 10810 (Part 4)
251	ELECTRICAL- CABLES & WIRES	Polyviynl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor - Working voltage up to and including 450/750 V	Shrinkage	IS 694:2010,Table 1 (iii) c (4), (iii) d (4) and IS 10810 (Part 12)
252	ELECTRICAL- CABLES & WIRES	Polyviynl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor - Working voltage up to and including 450/750 V	Tensile Strength at Break of Thermoplastic Insulation and Sheath (Before ageing)	IS 694:2010,Table-1 (iii) c (1) & d (1), (ii) f, IS 5831:1984, Cl.4.1 (Table-1, Test No. iii) and IS 10810 (Part 7)
253	ELECTRICAL- CABLES & WIRES	Polyviynl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor - Working voltage up to and including 450/750 V	Tensile Strength Variation after ageing	IS 694:2010,Table-1 (iii) c (1) & (3), d (1) & (3), (ii) f, IS 5831:1984, Cl.4.1 (Table-1, Test No. iv)b, (Table-2, Test No. ii)b and IS 10810 (Part 7 & 11)
254	ELECTRICAL- CABLES & WIRES	Polyviynl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor - Working voltage up to and including 450/750 V	Tensile Test for Aluminium Wires	IS 694:2010,Table-1 (iii) a (2), (ii)b, IS 8130:2013 Cl.7.2.1 and IS 10810 (Part 2)
255	ELECTRICAL- CABLES & WIRES	Polyviynl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor - Working voltage up to and including 450/750 V	Test for overall dimensions and Thickness of Insulation & Sheath	IS 694:2010, Clause 9, Table-1 iii (b) & ii (e),Table 3 to 10 and IS 10810 (Part 6)

SCOPE OF ACCREDITATION

Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 23 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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
256	ELECTRICAL- CABLES & WIRES	Polyviynl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor - Working voltage up to and including 450/750 V	Thermal Stability of PVC Insulation and Sheath	IS 694:2010,Table 1 (iii) c (7), (iii) d (7), IS 5831:1984 (Table-1, Test No. xiii), (Table-2, Test No. xi) and IS 10810 (Part 60)
257	ELECTRICAL- CABLES & WIRES	Polyviynl Chloride Insulated Unsheathed and Sheathed Cables/Cords with Rigid and Flexible Conductor - Working voltage up to and including 450/750 V	Wrapping test for Aluminium Wires	IS 694:2010 Table 1 (iii) a (3), (ii) c and IS 10810 (Part 3)
258	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages above 30 kV & up to 150 kV	Electrical test (High Voltage) on over sheath of the cable	IEC 60840 (Cl. No. 9.4):2020, IEC 60229 (Cl. No. 3)
259	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Annealing test for copper conductors	IS 1554 (Part 1):1988,Clause 15.1 (a)(1) & 15.2 (a), IS 8130:2013, Cl. 7.2.3 and IS 10810 (Part 1)
260	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Cold Bend	IS 1554 (Part 1):1988,Clause 15.4 (a), IS 5831:1984, Cl. 4.1 Table-1 Test No. ix), Table-2 Test No. vii) and IS 10810 (Part 20)
261	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Cold Impact	IS 1554 (Part 1):1988,Clause 15.4 (b), IS 5831:1984, Cl. 4.1 Table-1 Test No. x), Table-2 Test No. viii) and IS 10810 (Part 21)
262	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Conductor Resistance	IS 1554 (Part 1):1988,Clause 15.1 (a) (4) & 15.2 (d) , 15.3 (a) and IS 10810 (Part 5)
263	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Dimension of Armour Strip	IS 1554 (Part 1):1988,Clause 15.1 (b) Table 5 and IS 10810 (Part 36)
264	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Dimension of armour wire	IS 1554 (Part 1):1988,Clause 15.1 (b) Table 5 and IS 10810 (Part 36)
265	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Elongation at break of armouring materials	IS 1554 (Part 1):1988,Clause 15.1 (b), IS 3975:1999, Cl. 8.1 and IS 10810 (Part 37)
266	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Elongation at Break of Thermoplastic and Elastomeric Insulation and Sheath (Before ageing)	IS 1554 (Part 1):1988 Cl. 15.2 f & 15.1 d.1, IS 5831:1984, Cl.4.1 (Table-1, Test No. iii) & iv), (Table-2, Test No. i) & ii) and IS 10810 (Part 7)

SCOPE OF ACCREDITATION

Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 24 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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
267	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Elongation Variation after ageing of Thermoplastic and Elastomeric Insulation and Sheath	IS 1554 (Part 1):1988 Cl. 15.2 f & 15.1 d (1) & (2), IS 5831:1984, Cl.4.1 (Table-1, Test No. iv. b), (Table-2, Test No. ii. b) and IS 10810 (Part 7 & 11)
268	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Flammability	IS 1554 (Part 1):1988,Clause 16.4 & 15.1 h and IS 10810 (Part 53)
269	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Heat Shock	IS 1554 (Part 1):1988,Clause 15.1 (d)(6), IS 5831:1984 Cl.4.1 Table-1, Test No. vii), Table-2 Test No. v) and IS 10810 (Part 14)
270	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	High Voltage (Water Immersion)	IS 1554 (Part 1):1988,Clause 16.3 & 15.1 f and IS 10810 (Part 45)
271	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	High Voltage test at room temperature	IS 1554 (Part 1):1988,Clause 16.2, 15.1 (g) & 15.2 (h), 15.3 (b) and IS 10810 (Part 45)
272	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Hot Deformation	IS 1554 (Part 1):1988,Clause 15.1 (d)(4), IS 5831:1984, Cl.4.1 Table-1, Test No. vi), Table-2 Test No. iv) and IS 10810 (Part 15)
273	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Insulation Resistance (Volume Resistivity)	IS 1554 (Part 1):1988,Clause 15.1 (e) & 15.2 (g) and IS 10810 (Part 43)
274	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Loss of Mass	IS 1554 (Part 1):1988,Clause 15.1 (d)(5), IS 5831:1984 Cl.4.1 Table-1 Test No. v), Table-2 Test No. iii) and IS 10810 (Part 10)
275	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Mass of Zinc Coating on steel Armour	IS 1554 (Part 1):1988,Clause 15.1 (b), IS 3975:1999 Cl.9.1 and IS 10810 (Part 41)
276	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Resistivity of Armour Wires & Strips	IS 1554 (Part 1):1988,Clause 15.1 (b), IS 3975:1999, Cl. 8.4 and IS 10810 (Part 42)
277	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Shrinkage	IS 1554 (Part 1):1988,Clause 15.1 (d)(3), IS 5831:1984 Cl.4.1 (Table-1, Test No. viii), Table-2, Test No. vi) and IS 10810 (Part 12)

SCOPE OF ACCREDITATION

Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 25 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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
278	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Tensile Strength at Break of Armouring Materials	IS 1554 (Part 1):1988,Clause 15.1 (b), IS 3975:1999, Cl. 8.1 and IS 10810 (Part 37)
279	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Tensile Strength at Break of Thermoplastic and Elastomeric Insulation and Sheath (Before ageing)	IS 1554 (Part 1):1988 Cl. 15.2 f & 15.1 d.1, IS 5831:1984, Cl.4.1 (Table-1, Test No. iii) & iv), (Table-2, Test No. i) & ii) and IS 10810 (Part 7)
280	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Tensile Strength Variation after ageing of Thermoplastic and Elastomeric Insulation and Sheath	IS 1554 (Part 1):1988 Cl. 15.2 f & 15.1 d (1) & (2), IS 5831:1984, Cl.4.1 (Table-1, Test No. iv. b), (Table-2, Test No. ii. b) and IS 10810 (Part 7 & 11)
281	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Tensile Test for Aluminium Wires	IS 1554 (Part 1):1988,Clause 15.1 (a)(2) & 15.2 (b), IS 8130:2013 Cl.7.2.1 and IS 10810 (Part 2)
282	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Test for Thickness of Insulation & Sheath	IS 1554 (Part 1):1988,Clause15.1 (c), 15.2 (e), 9, 12, 14 & Table 2,4 & 7 and IS 10810 (Part 6)
283	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Thermal Stability of PVC Insulation and Sheath	IS 1554 (Part 1):1988,Clause 15.1 (d) (7), IS 5831:1984 (Table-1, Test No. xiii), (Table-2, Test No. xi) and IS 10810 (Part 60)
284	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Torsion on Galvanized steel wire for Armouring	IS 1554 (Part 1):1988,Clause 15.1 (b), IS 3975:1999 Cl.8.2, Table-6 and IS 10810 (Part 38)
285	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Uniformity of Zinc coating (Dip Test) on steel armour	IS 1554 (Part 1):1988,Clause 15.1 (b), IS 3975:1999 Cl. 9.2 and IS 10810 (Part 40)
286	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Winding test for formed wires	IS 1554 (Part 1):1988,Clause 15.1 (b) & 13.6 (d) and IS 10810 (Part 39)
287	ELECTRICAL- CABLES & WIRES	PVC Insulated (Heavy Duty) Electric cable - Working voltage up to and including 1100 V	Wrapping test for Aluminium Wires	IS 1554 (Part 1):1988,Clause 15.1(a) (3), 15.2 (c), IS 8130:2013 Cl. 7.2.2 and IS 10810 (Part 3)
288	ELECTRICAL- CABLES & WIRES	STANDARD PRACTICE FOR OPERATING FLUORESCENT ULTRAVIOLET (UV) LAMP APPARATUS FOR EXPOSURE OF NONMETALLIC MATERIALS	Ultra Violet test	ASTM G 154

SCOPE OF ACCREDITATION

Laboratory Name : HAVELLS INDIA LIMITED, A-461/462 & SP-215, M.I.A., ALWAR, RAJASTHAN, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number TC-5988 **Page No** 26 of 26
Validity 24/09/2022 to 23/09/2024 **Last Amended on** 11/11/2022

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
289	ELECTRICAL- CABLES & WIRES	STANDARD TEST METHOD FOR DENSITY OF SMOKE FROM THE BURNING OR DECOMPOSITION OF PLASTICS	Smoke Density of Electric cables under fire conditions	ASTM-D-2843: 2010, Clause 8 and IS 13360 (PART-6 / SEC-9)
290	ELECTRICAL- CABLES & WIRES	TESTS FOR ELECTRIC CABLES UNDER FIRE CONDITIONS - CIRCUIT INTEGRITY : PROCEDURES AND REQUIREMENTS - CABLES OF RATED VOLTAGE UP TO AND INCLUDING 0.6/1.0 KV	Fire Survival Circuit Integrity Test (C, W, Z Category)	IEC 60331(Part 21), Cl. 7.1 : 1999 and BS 6387
291	ELECTRICAL- CABLES & WIRES	TESTS ON ELECTRIC AND OPTICAL FIBRE CABLES UNDER FIRE CONDITIONS - TEST FOR VERTICAL FLAME SPREAD OF VERTICALLY-MOUNTED BUNCHED WIRES OR CABLES - APPARATUS	Flame Retardant Test on Bunched cable	IEC 60332 (Part 3):2008, Clause 8; IS 7098 (Part 1): 1988, Clause 16.11; IS 7098 (Part 2):2011,Clause 20.12; IS 1554 (Part 1):1988 Clause 16.7 and IS 10810 (Part 62)
292	ELECTRICAL- CABLES & WIRES	Unprotected Small Cables for use in emergency circuits	Test for Resistance to fire of Unprotected small cables for use in emergency circuits	BS EN 50200