



**Scope of Accreditation for Testing**

As per ISO/IEC 17025:2017

**CAB Name:**

Amit test and Calibration Centre

Page No. 1 of 76

**Address:**

45/7, Village Prahaladpur Bangar, Rohini sector-30, Near  
Kali Mata Mandir, New Delhi -110042, Delhi

**Certificate No.:**

T-0029

**Issue date** : 30.12.2025

**Validity** : 29.12.2029

**Amendment date:** N/A

Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
<b>Discipline : Electrical, Group: Transmission line equipment and accessories</b>					
1	Porcelain Insulators for Overhead Power Lines with a Nominal Voltage Greater than 1000 Volt. 7	Verification of Dimensions	Up to 5000 mm	Cl.10.5 of IS 731 +A7	Permanent
2		Temperature Cycle Test	Up to 100 °C	Cl.10.6 of IS 731 +A7	Permanent
3		Mechanical Performance Test	Up to 1000 kN	Cl. 10.9.1 of IS 731 +A7	Permanent
4		Thermal-mechanical Performance Test	-40 to 50 °C, upto 100, KN	Cl. 10.9.2 of IS 731 +A7	Permanent
5		Electro-Mechanical Failing Load Test	Upto 200 kV Upto 1000 kN	Cl.10.7 of IS 731 +A7	Permanent
6		Mechanical Failing Load Test	Up to 1000 kN	Cl. 10.8 of IS 731 +A7	Permanent
7		Power Frequency Puncture Test	Up to 200 kV	Cl. 10.10.1 of IS 731 +A7	Permanent
8		Porosity Test	Upto 1200 kg/cm <sup>2</sup>	Cl. 10.11 of IS 731 +A7	Permanent
9		Galvanizing Test	Qualitative	Cl. 10.12 of IS 731 +A7 (Refer IS 2633 [RA])	Permanent
10	Insulators for Overhead Lines - Composite Suspension & Tension Insulators with AC voltage greater than 1000V and DC voltage greater than 1500V	Verification of Dimensions	Up to 5000 mm	Cl.11.2 of IEC 61109	Permanent
11		Verification of tightness of the interface between end fittings and insulator housing	Up to 1000 kN	Cl.11.4 (a) of IEC 61109	Permanent
12		Verification of specified mechanical load, SML	Up to 1000 kN	Cl.11.4 (b) of IEC 61109	Permanent
13		Verification of end fittings	Up to 1000 kN	Cl.11.3 of IEC 61109 (Refer Cl.22.2 of IEC 60383 -1)	Permanent
14		Minimum sheath thickness	Up to 150 mm	Cl.11.6 of IEC 61109	Permanent
15		Galvanising Test	Qualitative	Cl.11.5 of IEC 61109 (IS 2633 (RA))	Permanent
16	Metal Fittings Of Insulators For	Visual examination	Qualitative	Cl.5, Cl.6 of IS 2486 (Part 1)(Reaffirmed)	Permanent



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**Reg Office:** 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
17	Overhead Power Lines With Nominal Voltage Greater Than 1000 V	Verification of dimensions	Up to 5000 mm	Cl.8 of IS 2486 (Part 1) (Refer IS 2486 (Part 2) (Reaffirmed)	Permanent
18		Galvanizing test	Qualitative	Cl.9.4 of IS 2486 (Part 1) (Reaffirme) (Refer IS 2633 [R.A ], IS 4759 : 1986 [R.A])	Permanent
19		Mechanical tests (insulator pins)	Up to 1000 kN	Cl.9.5 of IS 2486 (Part 1) (Reaffirmed)	Permanent
20		Slip strength tests (Clamps)	Up to 1000 kN	Cl.11.1 of IS 2486 (Part 1) (Reaffirmed)	Permanent
21		Mechanical Tests (clamps)	Up to 1000 kN	Cl.11.2 of IS 2486 (Part 1) (Reaffirmed)	Permanent
22		Mechanical Routine Test	Up to 1000 kN	Cl.11.3 of IS 2486 (Part 1) (Reaffirmed)	Permanent
23		Electrical resistance test	Upto 1.1 ohm	Cl.12.1.1 (a) of IS 2486 (Part 1) (Reaffirmed)	Permanent
24		Heating Cycle test	Upto 2000 A	Cl.12.1.1 (b), Cl.12.1.2 of IS 2486 (Part 1) (Reaffirmed)	Permanent
25		Marking	Qualitative	Cl.13 of IS 2486 (Part 1) (Reaffirmed)	Permanent
26	Test on Indoor and Outdoor Post	Dry Lightning Impulse Withstand Voltage Test	Upto 500 kV	Cl.4.5 of IS/IEC 60168 (Refer IEC 60060-1)	Permanent
27	Insulators of Ceramic Material or Glass for Systems with Nominal Voltages Greater Than 1000 V	Dry Power - Frequency Withstand Voltage Test	Upto 200 kV	Cl.4.7 of IS/IEC 60168 (Refer IEC 60060-1)	Permanent
28		Wet Power - Frequency Withstand Voltage Test	Upto 200 kV	Cl.4.8 of IS/IEC 60168(Refer IEC 60060-1)	Permanent
29		Visible Corona Test	Upto 200 kV	Cl. 10.2 of IS 731: [RA] +A7	Permanent



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30		Galvanizing test (Coating mass)	Up to 500 g/m <sup>2</sup>	IS 6745	Permanent
31		Mechanical failing load test (Bending test)	Upto 1000 kN	Cl.5.2.4 of IS/IEC 60168 (Refer IS/IEC 60273)	Permanent
32		Mechanical failing load test (Torsion test)	Upto 1000 kN	Cl.5.2.5 of IS/IEC 60168	Permanent
33		Mechanical failing load test (Compressive test)	Upto 1000 kN	Cl.5.2.7 of IS/IEC 60168	Permanent
34		Temperature Cycle Test	Qualitative	Cl.5.4 of IS/IEC 60168	Permanent
35		Test of deflection under load	Upto 10 mm	Cl.5.3 of IS/IEC 60168	Permanent

**Discipline :- Electrical, Group:- Switchgear and protective equipment**

36	High – Voltage Fuses (Part 1 Current - Limiting Fuses)	Dimensions	Up to 5000 mm	Cl.5.3 of IS 9385 Part 1	Permanent
37		Lightning Impulse Voltage Dry Test	Upto 500 kV	Cl.6.4.4 of IS 9385 Part 1 (Refer IEC 60060-1)	Permanent
38		Power - Frequency Voltage Dry Test	Upto 200 kV	Cl.6.4. of IS 9385 : Part 1 (Refer IEC 60060-1)	Permanent
39		Power - Frequency Wet Test	Upto 200 kV	Cl.6.4.6 IS 9385: Part 1 (Refer IEC 60060-1)	Permanent
40		Temperature Rise - Test	Upto 2000 A	Cl.6.5 of IS 9385 : Part 1	Permanent
41	High – Voltage Fuses (Part 2 Expulsion Fuses)	Lightning Impulse Voltage Dry Test	Upto 500 kV	Cl.8.4.4 of IS 9385: Part 2 (Refer IEC Cl.20 of 60060-1)	Permanent
42		Power - Frequency Voltage Dry Test	Upto 200 kV	Cl.8.4.5 of IS 9385: Part 2 (Refer IEC 60060-1)	Permanent
43		Power - Frequency Voltage Wet Test	Upto 200 kV	Cl.8.4.6 of IS 9385: Part 2 (Refer IEC 60060-1)	Permanent
44		Temperature Rise - Test	Upto 2000 A	Cl.8.5 of IS 9385: Part 2	Permanent



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45		Dimensional Verification	Up to 5000 mm	Cl.10 (a) of IS 9385: Part 2	Permanent
46		Measurement of resistance of fuse links	Upto 1.1 ohm	Cl.10 (b) of IS 9385: Part 2	Permanent
47	Metal-oxide surge arresters without gaps for a.c. systems	Insulation Withstand Tests (Lightning Impulse Voltage Test)	Upto 500 kV	Cl.8.2.6 & Cl.10.8.2 of IEC 60099 – 4 (Refer IEC 60060 - 1)	Permanent
48		Insulation Withstand Tests (Dry Power-frequency voltage test)	Upto 200 kV	Cl.8.2.8 & Cl.10.8.2 of IEC 60099 – 4	Permanent
49		Insulation Withstand Tests (Wet Power-frequency voltage test)	Upto 200 kV	Cl.8.2.8 & Cl.10.8.2 of IEC 60099 – 4	Permanent
50		Steep Current Impulse residual voltage test	Upto 500 kV	Cl.8.3.2 & Cl.10.8.2 of IEC 60099 – 4	Permanent
51		Lightning impulse residual voltage test	Upto 500 kV	Cl.8.3.3 & Cl.10.8.3 of IEC 60099 – 4	Permanent
52		Reference Voltage Test	Upto 10 mA Upto 50 kV	Cl.9.2.1 (a) & Cl.10.9 of IEC 60099-4	Permanent
53		Reference Voltage Test	Upto 10 mA Upto 50 kV	Cl.9.1 (a) of IEC 60099-4	Permanent
54		Mechanical Test (Bending moment test)	Up to 1000 kN	Cl.8.9.4.2 of IEC 60099-4	Permanent
55		Mechanical Test (Tensile load test)	Up to 1000 kN	Cl.8.9.4.3 of IEC 60099-4	Permanent
56		Mechanical Test (Torsional load test)	Up to 1000 kN	Cl.8.9.4.4 of IEC 60099-4	Permanent
57		Internal Partial Discharge Test	Upto 1000 pC	Cl.9.1 c,d of IEC 60099-4	Permanent
58	High – Voltage switchgear and controller [Part 102]	Dry Power – frequency voltage tests	Upto 200 kV	Cl.7.2 of IS/IEC 62271-102 (Refer Cl.7.2.7.2 of IS/IEC 62271 -1+A1)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
59	Alternating Current Disconnecter and Earthing Switches]	Wet Power – frequency voltage tests	Upto 200 kV	Cl.7.2 of IS/IEC 62271-102 (Refer Cl.7.2.7.2 of IS/IEC 62271 -1+A1)	Permanent
60		Lightning Impulse Voltage tests	Upto 500 kV	Cl.7.2 of IS/IEC 62271-102 (Refer Cl.7.2.7.3 of IS/IEC 62271 -1+A1)	Permanent
61		Resistance Measurement	Upto 10000 $\mu$ ohm	Cl.7.4 of IS/IEC 62271-102 (Refer Cl.8.4 of IS/IEC 62271-1+A1)	Permanent
62		Continuous current test	Upto 2000 A Upto 150 °C	Cl.7.5 of IS/IEC 62271-102 (Refer Cl.7.5 of IS/IEC 62271 -1+A1)	Permanent
63		Mechanical Endurance test	Qualitative	Cl.7.102.3 of IS/IEC 62271-102 (Refer IS/IEC 62271 -1+A1)	Permanent
64	High – voltage switchgear and controlgear [Part 103 Alternating Current	Dry Power – frequency voltage tests	Upto 200 kV	Cl.7.2 of IS/IEC 62271-103 (Refer Cl.7.2.7.2 of IS/IEC 62271 -1+A1)	Permanent
65	Switch for rated voltages above 1 kV up to and including 52 kV	Wet Power – frequency voltage tests	Upto 200 kV	Cl.7.2 of IS/IEC 62271-103 (Refer Cl.7.2.7.2 of IS/IEC 62271 -1+A1)	Permanent
66		Lightning Impulse Voltage tests	Upto 500 kV	Cl.7.2 of IS/IEC 62271-103 (Refer Cl.7.2.7.3 of IS/IEC 62271 -1+A1)	Permanent
67		Resistance Measurement	Upto 10000 $\mu$ ohm	Cl.7.4 of IS/IEC 62271-103 (Refer Cl.8.4 of IS/IEC 62271-1+A1)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
68		Continuous current test	Upto 2000 A Upto 150 °C	Cl.7.5 of IS/IEC 62271-103 (Refer Cl.7.5 of IS/IEC 62271 -1+A1)	Permanent
69		Mechanical operation test at ambient air temperature	Qualitative	Cl.7.102.2 of IS/IEC 62271- 103 (Refer IS/IEC 62271 -1+A1)	Permanent

**Discipline :- Electrical, Group :- Environmental test facility**

70	Fibre distribution management systems (outdoor) for optical fibre cables (Ribbon & No-Ribbon)	Bump Test	(up to 400 m/s <sup>2</sup> )	Test No.13 of QM-333	Permanent
71		High Temperature (Dry Heat) Cycle	(up to 60°C)	Test No.2 of QM-333	Permanent
72		Low Temperature cold cycle	(up to -20°C)	Test No.1 of QM-333	Permanent
73		Damp heat (steady state)	(20°C to -15°C)	Test No.5 of QM-333	Permanent
74		Tropical Exposure (Damp heat Cyclic)	(up to 40 °C,95 % RH)	Test No.3 of QM-333	Permanent
75		High Altitude Test	(up to 3000 m)	Test No.7 of QM-333	Permanent
76		Vibration Test	(up to 15 m/s <sup>2</sup> )	Test No.6 of QM-333	Permanent
77		Corrosion – Salt Test	(up to 40°C)	Test No.9 of QM-333	Permanent
78		IP 6X test	(up to 2 kg/m <sup>3</sup> )	Cl.13.4 of IS/IEC 60529	Permanent
79		IP X8 test	(up to 1 m immersion depth)	Cl.14.2.8 of IS/IEC 60529	Permanent
80		Sealing (Gas tightness)/High altitude test	(up to 3000 m)	Test No.7 of QM-333	Permanent
81		Rain Test	(up to 90°Angle spray)	Test No.14 of QM-33	Permanent
82		Dust Test	(up to 60°C,50% RH)	Test No.15 of QM-333	Permanent
83		Rapid Cycle test	(-10 to 55°C)	Test No.4 of QM-33	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
84		Thermal Ageing Test	(up to 100°C)	Cl.4.15 of TEC GR No.: 87050	Permanent
85		Current Surge test	(up to 1000 amp)	Cl.4.17 of TEC GR No.: 87050	Permanent
86		Material for fibre organizer (Annexure III)	0 to 50 %	Annexure III of TEC GR No.: 87050	Permanent
87		Environmental Cycle	(-20 to 60°C)	Cl.4.9 of TEC GR No.: 8705	Permanent
88		Aggressive media Test	(up to 0.5 Kg/cm <sup>2</sup> )	Cl.4.13 of TEC GR No.: 87050	Permanent
89		Material for base & dome (Annexure II)	0 to 50 %	Annexure II of TEC GR No.: 87050	Permanent
90	Fibre termination & Distribution Box (for FTTH Application)	Damp heat (steady state)	(20°C to -15°C)	TEC GR No.: 87030: Test No.5 of QM-333	Permanent
91		Corrosion – Salt Test	(up to 40°C)	Cl. 9 of TEC GR No.: 87030 QM-333 Test No.9	Permanent
92		Toppling test	Qualitative	TEC GR No.: 87030 QM-333 Test No.11	Permanent
93		Vibration Test	(up to 15 m/s <sup>2</sup> )	Cl. 9 of TEC GR No.: 87030 QM-33	Permanent
94		Drop Test	Qualitative	TEC GR No.: 87030 QM-333 Test No.10	Permanent
95		IP-55	Upto IP 68	TEC GR No.: 87030 Table 1 Type II of GR. Test as per IEC 6052	Permanent
96	Spice closure for optical fibre cables	Thermal Ageing Test	(up to 100°C)	Cl 4.11 of TEC GR No.: 87080	Permanent
97		Corrosion – Salt Test	(up to 40°C)	Test No.9 of QM-333	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
98	(suitable for Non-ribbon fibre splicing)	Material for fibre organizer (Annexure II)	0 to 50 %	Annexure II of TEC GR No.: 87080	Permanent
99		Vibration Test	(up to 15 m/s <sup>2</sup> )	Test No.6 of QM-333	Permanent
100		Current Surge test	(up to 1000 amp)	Cl.4.16 of TEC GR No.: 87080	Permanent
101		Environmental cycle	(-20 to 60°C)	Cl.4.12 of TEC GR No.: 87080	Permanent
102		Aggressive media Test	(up to 0.5 Kg/cm <sup>2</sup> )	Cl.4.15 of TEC GR No.: 87080	Permanent
103		The material of thermoplastic /high density polyethylene/polypropylene characteristics and the performance requirements (Annexure 1)	Qualitative	Annexure I of TEC GR No.: 87080	Permanent
104		Bump Test	(up to 400 m/s <sup>2</sup> )	Test No.13 of QM-333	Permanent
105		High Temperature (Dry Heat) Cycle	(up to 60°C)	Test No.2 of QM-333	Permanent
106		Tropical Exposure (Damp heat Cyclic)	(up to 40 °C,95 % RH)	Test No.3 of QM-333	Permanent
107		Low Temperature cold cycle	(up to -20°C)	Test No.1 of QM-333	Permanent
108		High Altitude Test	(up to 3000 m)	Test No.7 of QM-333	Permanent
109		Rapid Cycle test	(-10 to 55°C)	Test No.4 of QM-333	Permanent
110		Damp heat (steady state)	20°C to -15°C)	Test No.5 of QM-333	Permanent

#### Discipline :- Electrical, Group:- Cables and wires

111	PVC insulated (heavy duty) Electric cables for working voltage	Annealing test for Copper Conductor	Up to 50%	Cl.15.1 (a) (1) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 1 (Reaffirmed)	Permanent
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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
112	up to and including 1100 Volts.	Tensile strength for Aluminum Conductor	Up to 500N/mm <sup>2</sup>	Cl.15.1 (a) (2) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 2) (Reaffirmed)	Permanent
113		Wrapping test for Aluminum Conductor	Qualitative	Cl.15.1 (a) (3) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 3) (Reaffirmed)	Permanent
114		Conductor resistance	0.0100 to 1000 ohm/km	Cl.15.1 (a) (4) of IS:1554 (Part-1)(Reaffirmed)+A5 IS:10810 (Pt 5)-(Reaffirmed)	Permanent
115		Dimension for armouring material	0.01mm to 25 mm	Cl.15.1 (b) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 36) (Reaffirmed)	Permanent
116		Tensile strength & Elongation at break of armouring material	Up to 500N/mm <sup>2</sup> Up to 50%	Cl.15.1 (b) of IS:1554 (Part-1)(Reaffirmed)+A5 IS:10810 (Pt 37)-(Reaffirmed)	Permanent
117		Torsion test on Galvanized steel wire for armouring	Qualitative	Cl.15.1 (b) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 38) (Reaffirmed)	Permanent
118		Winding test on Galvanized steel strips for armouring	Qualitative	Cl.15.1 (b) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 39) (Reaffirmed)	Permanent



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119		Uniformity of Zinc coating	Qualitative	Cl.15.1 (b) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 40) +A1 (Reaffirmed)	Permanent
120		Mass of Zinc coating	Up to 500 gm/ m <sup>2</sup>	Cl.15.1 (b) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 41) (Reaffirmed)	Permanent
121		Resistivity & Conductance test of Armour (Wires/strips)	Up to 20 x10 <sup>-6</sup> ohm-cm	Cl.15.1 (b) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 42) (Reaffirmed)	Permanent
122		Thickness of Insulation & Sheath	0.01mm - 150 mm	Cl.15.1 (c) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 6) (Reaffirmed)	Permanent
123		Tensile strength & Elongation at break of insulation & sheath	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.15.1 (d) (1) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 7) (Reaffirmed)	Permanent
124		Loss of mass test	Up to 100 mg/cm <sup>2</sup>	Cl.15.1 (d) (5) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 10) (Reaffirmed)	Permanent
125		Ageing in air oven	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.15.1 (d) (2) of IS:1554 (Part-1) (Reaffirmed) +A5	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				IS:10810 (Pt 11) (Reaffirmed)	
126	PVC insulated (heavy duty) Electric cables for working voltage up to and including 1100 Volts.	Shrinkage test	Up to 50%	Cl.15.1 (d) (3) of IS:1554 (Part-1) (Reaffirmed) +A5 IS:10810 (Pt 12) (Reaffirmed)	Permanent
127		Heat shock test	Qualitative	Cl.15.1 (d) (6) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 14) (Reaffirmed)	Permanent
128		Hot deformation test	Up to 90%	Cl.15.1 (d) (4) of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810 (Pt 15) (Reaffirmed)	Permanent
129		Thermal Stability	Up to 500 Minute	Cl.15.1 (d) (7) of IS:1554 (Part-1) (Reaffirmed) +A5 IS:10810 (Pt 60) (Reaffirmed)	Permanent
130		Insulation resistance constant	1 - 1000x10 <sup>6</sup> MΩ	Cl.15.1 (e) of IS:1554 (Part-1) (Reaffirmed) +A5 IS:10810 (Pt 43) (Reaffirmed)	Permanent
131		Volume Resistivity	1 - 100x10 <sup>17</sup> Ω-cm	Cl.15.1 (d) of IS:1554 (Part-1) (Reaffirmed) +A5 IS:10810 (Pt 43) (Reaffirmed)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
132		High voltage Test (AC)	0.01kV-35 kV	Cl.16.2 of IS:1554 (Part-1) (Reaffirmed) +A5 IS:10810 (Pt 45) (Reaffirmed)	Permanent
133		High voltage Test (DC)	0.05 kV - 3 kV	Cl.16.3 of IS:1554 (Part-1) (Reaffirmed) +A5 IS:10810 (Pt 45) (Reaffirmed)	Permanent
134		Flammability test	Up to 600mm	Cl.16.4 of IS:1554 (Part-1) (Reaffirmed) +A5 IS:10810 (Pt 53) (Reaffirmed)	Permanent
135		Armour Resistance Test	0.0100 to 1000 ohm/km	Cl 15.4 (c) of IS:1554 (Part-1) (Reaffirmed) +A5 IS:10810 (Pt 42) (Reaffirmed)	Permanent
136		Cold Bend Test	Qualitative	Cl 15.4 (a) of IS:1554 (Part-1) IS:1554 (Part-1) (Reaffirmed) +A5 IS:10810 (Pt 20) (Reaffirmed)	Permanent
137		Cold Impact Test	Qualitative	Cl 15.4 (a) of IS:1554 (Part-1) (Reaffirmed) +A5 IS:10810 (Pt 21) (Reaffirmed)	Permanent
138		Oxygen Index Test	21 % to 80%	Cl.16.5 of IS:1554 (Part-1) (Reaffirmed) +A5	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
139		Flame Retardance Test on Single Cable	Up to 1000mm	IS:10810 (Pt 58) (Reaffirmed) ASTM D 2863-09 Cl.16.6 of IS:1554 (Part-1) IS:1554 (Part-1) (Reaffirmed) +A5 IS:10810 (Pt 61) - (Reaffirmed) +A1 SS-424-1475	Permanent
140		Halogen Acid Gas	Up to 50%	Cl.16.9 of IS:1554 (Part-1) (Reaffirmed)+A5 IS:10810(Pt-59) - (Reaffirmed) +A1 IEC 60754-1	Permanent
141		Temperature Index Test	Amb. to 500°C	Cl.16.10 of IS:1554 (Part-1) (Reaffirmed) +A5 IS:10810 (Pt -64) (Reaffirmed) ASTM D 2863-09	Permanent
142		Flame retardance test on bunched cables	Up to 3.50 meter	Cl.16.7 of IS:1554 (Part-1) (Reaffirmed) +A5 IS:10810 (Pt -62) (Reaffirmed) IEC 60332-3-22 IEC 60332-3-23 IEC 60332-3-24	Permanent
143		Smoke Density	Up to 90%	Cl.16.8 of IS:1554 (Part-1) (Reaffirmed) +A5 ASTM D 2843	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
144	Aerial Bunched Cables- For working voltage up to and including 1100 Volts.	Tensile strength	Up to 500N/mm <sup>2</sup>	Cl.10.1 (a) (i) of IS:1425 (Reaffirmed) +A1 IS:10810 (Pt 2) (Reaffirmed)	Permanent
145		Wrapping test	Qualitative	Cl.10.1 (a) (ii) of IS:14255(Reaffirmed) +A1 IS:10810 (Pt 3) (Reaffirmed)	Permanent
146		Conductor resistance	0.0100 to 1000 ohm/km	Cl.10.1 (a) (ii) of IS:14255 (Reaffirmed)+A1 IS:10810 (Pt 5) (Reaffirmed)	Permanent
147		Test on Messenger Conductor Breaking Load	Up to 500N/mm <sup>2</sup>	Cl.10.1 (b) (i) of IS:14255 (Reaffirmed)+A1 IS:10810 (Pt 2) (Reaffirmed)	Permanent
148		Elongation Test	Up to 50%	Cl.10.1 (b) (ii) of IS:14255 (Reaffirmed)+A1	Permanent
149		Conductor resistance	0.0100 to 1000 ohm/km	Cl.10.1 (b) (iii) of IS:14255 (Reaffirmed)+A1 IS:10810 (Pt 5) (Reaffirmed)	Permanent
150		Tensile strength & Elongation at break of insulation	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.10.1 (c) (i) of IS:14255 (Reaffirmed)+A1 IS:10810 (Pt 7) (Reaffirmed)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
151		Ageing in air oven	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.10.1 (c) (ii) of IS:14255 (Reaffirmed)+A1 IS:10810 (Pt 11) (Reaffirmed)	Permanent
152		Hot Set Test	Up to 200%	Cl.10.1 (c) (iii) of IS:14255 (Reaffirmed)+A1 IS 10810 (Pt 30) (Reaffirmed)	Permanent
153		Shrinkage test	Up to 50%	Cl.10.1 (c) (iv) of IS:14255 (Reaffirmed)+A1 IS:10810 (Pt 12) (Reaffirmed)	Permanent
154		Water Absorption (Gravimetric)	Up to 100mg/cm <sup>2</sup>	Cl.10.1 (c) (v) of IS:14255 (Reaffirmed)+A1 IS:10810 (Pt 33) (Reaffirmed)	Permanent
155		Carbon black test Content Dispersion	Up to 50% Qualitative	Cl.10.1 (v) of IS:14255 (Reaffirmed)+A1 IS 10810 (Pt 32) (Reaffirmed) IS 2530 (Reaffirmed)	Permanent
156		Physical test for PE insulation Tensile strength and elongation at break	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.10.1 (d) (i) of IS:14255 (Reaffirmed)+A1 IS : 10810 (Pt.7) (Reaffirmed)	Permanent
157		Melt flow index	Up to 50	Cl.10.1 (d) (ii) of IS:14255 (Reaffirmed)+A1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				IS : 10810 (Pt.23) (Reaffirmed)	
158		Carbon black test Content Dispersion	Up to 50% Qualitative	Cl.10.1 (d) (iii) of IS:14255- (Reaffirmed)+A1 IS 10810 (Pt 32) IS 2530	Permanent
159		Vicat softening point	Up to 200 °C	Cl.10.1 (d) (iv) of IS:14255- (Reaffirmed)+A1 IS : 10810 (Pt.22) (Reaffirmed)	Permanent
160		Environmental stress cracking	Qualitative	Cl.10.1 (d) (v) of IS:14255- (Reaffirmed)+A1 IS : 10810 (Pt.29) (Reaffirmed)	Permanent
161		Thickness of Insulation	0.01mm - 150 mm	Cl.10.1 (e) of IS:14255- (Reaffirmed)+A1 IS: 10810 (Pt 6) (Reaffirmed)	Permanent
162		Insulation resistance (Volume Resistivity)	1 - 100x10 <sup>17</sup> Ω- cm	Cl.10.1 (f) of IS:14255- (Reaffirmed)+A1 IS:10810 (Pt 43) (Reaffirmed)	Permanent
163		High voltage Test	0.01kV-35 kV	Cl.10.1 (g) of IS:14255- (Reaffirmed)+A1 IS 10810 (Pt 45) (Reaffirmed)	Permanent
164		Bending test	Qualitative	Cl.11.4 of IS:14255 (Reaffirmed)+A1 IS 10810 (Pt 50) (Reaffirmed)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
165	PVC Insulated Cables for working voltages up to and including 1100 volts.	Annealing test for Copper Conductor	Up to 50%	Table 1 of IS 694 (Reaffirmed)+A4 IS:10810 (Pt 1 (Reaffirmed)	Permanent
166		Tensile strength for Aluminium Conductor	Up to 500N/mm <sup>2</sup>	Table 1 of IS 694 (Reaffirmed)+A4 IS:10810 (Pt 2) (Reaffirmed)	Permanent
167		Wrapping test for Aluminium Conductor	Qualitative	Table 1 of IS 694 (Reaffirmed)+A4 IS:10810 (Pt 3) (Reaffirmed)	Permanent
168		Conductor resistance	0.0100 to 1000 ohm/km	Table 1 of IS 694 (Reaffirmed)+A4 IS:10810 (Pt 5) (Reaffirmed)	Permanent
169		Persulphate test ( for tinned Copper Conductor)	Up to 50g/m <sup>2</sup>	Table 1 of IS 694 (Reaffirmed)+A4 IS 10810 (Pt -4) (Reaffirmed)	Permanent
170		Overall dimensions and Thickness of Insulation / Sheath	0.01mm - 150 mm	Table 1 of IS 694 (Reaffirmed)+A4 IS:10810 (Pt 6) (Reaffirmed)	Permanent
171		Tensile strength & Elongation at break of insulation / sheath	Up to 500N/mm <sup>2</sup> Up to 1500%	Table 1 of IS 694 (Reaffirmed)+A4 IS:10810 (Pt 7) (Reaffirmed)	Permanent
172		Loss of mass test	Up to 100 mg/cm <sup>2</sup>	Table 1 of IS 694 (Reaffirmed)+A4 IS:10810 (Pt 10) (Reaffirmed)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
173		Ageing in air oven	Up to 500N/mm <sup>2</sup> Up to 1500%	Table 1 of IS 694 (Reaffirmed)+A4 IS:10810 (Pt 11) (Reaffirmed)	Permanent
174		Shrinkage test	Up to 50%	Table 1 of IS 694 (Reaffirmed)+A4 S:10810 (Pt 12) (Reaffirmed)	Permanent
175		Heat shock test	Qualitative	Table 1 of IS 694 (Reaffirmed)+A4 IS:10810 (Pt 14) (Reaffirmed)	Permanent
176		Hot deformation test	Up to 90%	Table 1 of IS 694 (Reaffirmed)+A4 IS:10810 (Pt 15) (Reaffirmed)	Permanent
177		Thermal Stability	Up to 500 Minute	Table 1 of IS 694 (Reaffirmed)+A4 IS:10810 (Pt 60)- (Reaffirmed)	Permanent
178		Cold Bend Test	Qualitative	Table 1 of IS 694 (Reaffirmed)+A4 IS:10810 (Pt 20) (Reaffirmed)	Permanent
179		Cold Impact Test	Qualitative	Table 1 of IS 694 (Reaffirmed)+A4 IS:10810 (Pt 21) (Reaffirmed)	Permanent
180		Flammability test	Up to 600mm	Table 1 of IS 694 (Reaffirmed)+A4 IS:10810 (Pt 53) (Reaffirmed)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
181		Oxygen Index Test	21 % to 80%	Table 1 of IS 694 (Reaffirmed)+A4 IS:10810 (Pt 58)- (Reaffirmed) ASTM D 2863-09	Permanent
182		Temperature Index Test	Amb. to 500°C	Table 1 of IS 694 (Reaffirmed)+A4 IS:10810 (Pt -64) (Reaffirmed) ASTM D 2863-09	Permanent
183		Halogen Acid Gas	Up to 50%	Table 1 of IS 694 (Reaffirmed)+A4 IS:10810(Pt-59) - (Reaffirmed) +A1 IEC 60754-1	Permanent
184		Smoke Density	Up to 90%	Table 1 of IS 694 (Reaffirmed)+A4 IS 13360(Part 6/sec 9) ASTM D 2843	Permanent
185		High voltage Test (AC)	0.01kV-35 kV	Table 1 of IS 694 (Reaffirmed)+A4 IS:10810 (Pt 45) (Reaffirmed)	Permanent
186		High voltage Test (DC)	0.05 kV - 3 kV	Table 1 of IS 694 (Reaffirmed)+A4 IS:10810 (Pt 45) (Reaffirmed)	Permanent
187		Insulation resistance	1 - 1000x10 <sup>6</sup> MΩ	Table 1 of IS 694 (Reaffirmed)+A4 IS:10810 (Pt 43) (Reaffirmed)	Permanent
188		Volume Resistivity	1 - 100x10 <sup>17</sup> Ω-cm	Table 1 of IS 694 (Reaffirmed)+A4	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				IS:10810 (Pt 43) (Reaffirmed)	
189		Flammability test	Up to 600mm	Table 1 of IS 694 (Reaffirmed)+A4 IS:10810 (Pt 53) (Reaffirmed)	Permanent
190		Additional ageing test (for OU cable only)	0.01kV-35 kV	Table 1 of IS 694 (Reaffirmed)+A4 Cl.10.9 of IS 694	Permanent
191	Cross Linked Polyethylene Insulated, PVC sheathed cables	Annealing test for Copper Conductor	Up to 50%	Cl.16.1 of IS: 7098 (Pt- 1) IS:10810 (Pt 1) (Reaffirmed)	Permanent
192	working voltage up to and	Tensile strength for Aluminium Conductor	Up to 500N/mm <sup>2</sup>	Cl.16.1 of IS: 7098 (Pt- 1) IS:10810 (Pt 2) (Reaffirmed)	Permanent
193		Wrapping test for Aluminium Conductor	Qualitative	Cl.16.1 of IS: 7098 (Pt- 1) IS:10810 (Pt 3) (Reaffirmed)	Permanent
194		Conductor resistance	0.0100 to 1000 ohm/km	Cl.16.1 of IS: 7098 (Pt- 1) IS:10810 (Pt 5) (Reaffirmed)	Permanent
195		Dimension for armouring material	0.01mm to 25 mm	Cl.16.1 of IS: 7098 (Pt- 1) IS:10810 (Pt 36) (Reaffirmed)	Permanent
196		Tensile strength & Elongation at break of armouring material	Up to 500N/mm <sup>2</sup> Up to 50%	Cl.16.1 of IS: 7098 (Pt- 1) IS:10810 (Pt 37) (Reaffirmed)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
197		Torsion test on Galvanized steel wire for armouring	Qualitative	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 38) (Reaffirmed)	Permanent
198		Winding test on Galvanized steel strips for armouring	Qualitative	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 39) (Reaffirmed))	Permanent
199		Uniformity of Zinc coating	Qualitative	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 40) (Reaffirmed)	Permanent
200		Mass of Zinc coating	Up to 500 gm/ m <sup>2</sup>	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 41) (Reaffirmed)	Permanent
201		Resistivity & Conductance test of Armour (Wires/strips)	Up to 20 x10 <sup>-6</sup> ohm-cm	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 42) (Reaffirmed)	Permanent
202		Thickness of Insulation & Sheath	0.01mm - 150 mm	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 6) (Reaffirmed)	Permanent
203		Tensile strength & Elongation at break of insulation	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 7) (Reaffirmed)	Permanent
204		Ageing in air oven	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 11) (Reaffirmed)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
205		Hot Set Test	Up to 200%	Cl.16.1 of IS: 7098 (Pt-1) IS 10810 (Pt 30) (Reaffirmed)	Permanent
206		Shrinkage test	Up to 50%	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 12) (Reaffirmed)	Permanent
207		Water Absorption (Gravimetric)	Up to 100mg/cm <sup>2</sup>	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 33) (Reaffirmed)	Permanent
208		Tensile strength & Elongation at break sheath	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 7) (Reaffirmed)	Permanent
209		Ageing in air oven	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 11) (Reaffirmed)	Permanent
210		Loss of mass test	Up to 100 mg/cm <sup>2</sup>	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 10) (Reaffirmed)	Permanent
211		Shrinkage test	Up to 50%	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 12) (Reaffirmed)	Permanent
212		Hot deformation test	Up to 90%	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 15) (Reaffirmed)	Permanent



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213		Heat shock test	Qualitative	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 14) (Reaffirmed)	Permanent
214		Thermal Stability	Up to 500 Minute	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 60)- (Reaffirmed)	Permanent
215		Insulation resistance (Volume Resistivity)	1 - 100x10 <sup>17</sup> Ω-cm	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 43) (Reaffirmed)	Permanent
216		High voltage Test	0.01kV-35 kV	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 45) (Reaffirmed)	Permanent
217		Flammability test	Up to 600mm	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 53) (Reaffirmed))	Permanent
218		Armour Resistance Test	0.0100 to 1000 ohm/km	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 42) (Reaffirmed)	Permanent
219		Cold Bend Test	Qualitative	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 20) (Reaffirmed)	Permanent
220		Cold Impact Test	Qualitative	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 21) (Reaffirmed))	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
221		Oxygen Index Test	21 % to 80%	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 58) (Reaffirmed) ASTM D 2863-09	Permanent
222		Flame Retardance Test on Single Cable	Up to 1000mm	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt 61) - (Reaffirmed)+A1 SS-424-1475	Permanent
223		Halogen Acid Gas	Up to 50%	Cl.16.1 of IS: 7098 (Pt-1) IS:10810(Pt-59) - (Reaffirmed)+A1 IEC 60754-	Permanent
224		Temperature Index Test	Amb. to 500°C	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt -64) (Reaffirmed) ASTM D 2863-09	Permanent
225		Flame retardance test on bunched cables	Up to 3.50 meter	Cl.16.1 of IS: 7098 (Pt-1) IS:10810 (Pt -62) (Reaffirmed) IEC 60332-3-22 IEC 60332-3-23 IEC 60332-3-24	Permanent
226		Smoke Density	Up to 90%	Cl.16.1 of IS: 7098 (Pt-1) IS 13360 (Part6/Sec9) ASTM D 2843	Permanent
227		Test for light transmission	Up to 90%	Cl.16.1 of IS: 7098 (Pt-1)	Permanent



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**Amendment date:** N/A

Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				IS:10810 (Pt -63)- (Reaffirmed)	
228		pH	0 to 14 pH	Cl.17.10 of IS: 7098 (Pt-1)	Permanent
229		Conductivity	0 to 50 $\mu$ S/mm	Cl.17.10 of IS: 7098 (Pt-1)	Permanent
230	Welding Cables	Annealing test	Up to 50%	Cl.10.1 of IS: 9857 (Reaffirmed)+A1 IS:10810 (Pt 1) (Reaffirmed)	Permanent
231		Conductor resistance	0.0100 to 1000 ohm/km	Cl.10.1 of IS: 9857 (Reaffirmed)+A1 IS:10810 (Pt 5) (Reaffirmed)	Permanent
232		Thickness of Covering	0.01mm - 150 mm	Cl.10.1 of IS: 9857 (Reaffirmed)+A1 IS:10810 (Pt 6) (Reaffirmed)	Permanent
233		Tensile strength & Elongation at break	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.10.1 of IS: 9857 (Reaffirmed)+A1 IS:10810 (Pt 7) (Reaffirmed)	Permanent
234		Ageing in air oven	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.10.1 of IS: 9857 (Reaffirmed) +A1 IS:10810 (Pt 11) (Reaffirmed)	Permanent
235		Ageing in air bomb	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.10.1 of IS: 985 (Reaffirmed)+A1 IS:10810 (Pt 56) (Reaffirmed)	Permanent
236		Oil resistance	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.10.1 of IS: 9857 (Reaffirmed)+A1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				IS: 10810 (Pt.31) (Reaffirmed)	
237		Hot Set Test	Up to 300%	Cl.10.1 of IS: 9857 (Reaffirmed)+A1 IS 10810 (Pt 30) (Reaffirmed)	Permanent
238		High voltage Test (Water Immersion)	0.01kV-10 kV	Cl.10.1 of IS: 9857 (Reaffirmed)+A1 IS:10810 (Pt 45) (Reaffirmed)	Permanent
239		Static flexibility test	1mm -1000mm	Cl.10.1 of IS: 9857 (Reaffirmed)+A1 IS :10810 (Pt.54) (Reaffirmed)	Permanent
240		Flammability test	Up to 600mm	Cl.10.1 of IS: 9857 (Reaffirmed)+A1 S:10810 (Pt 53) (Reaffirmed)	Permanent
241	Halogen Free Flame Retardant (HFFR) cables for working voltage up to and including 1.1 kV.	Conductor resistance	0.0100 to 1000 ohm/km	Table 2 of IS 17048 +A1 IS 10810 (Pt 5) (Reaffirmed)	Permanent
242		Annealing test for copper	Up to 50%	Table 2 of IS 17048 +A1 IS 10810 (Pt 1) (Reaffirmed)	Permanent
243		Persulphate test for tinned copper	Up to 50g/m <sup>2</sup>	Table 2 of IS 17048 +A1 IS 10810 (Pt -4) (Reaffirmed)	Permanent
244		Tensile strength for Aluminium Conductor	Up to 500N/mm <sup>2</sup>	Table 2 of IS 17048 +A1 IS 10810 (Pt 2) (Reaffirmed)	Permanent
245		Wrapping test for Aluminium Conductor	Qualitative	Table 2 of IS 17048 +A1 IS 10810 (Pt 3) (Reaffirmed)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
246		Test for Overall Dimensions and Thickness of Insulation & Sheath	0.01 mm -150 mm	Table 2 of IS 17048 +A1 IS 10810 (Pt 6) (Reaffirmed)	Permanent
247		Tensile strength & Elongation at break of insulation before and after ageing	Up to 200 N/mm <sup>2</sup> Up to 800 %	Table 2 of IS 17048 +A1 IS 10810 (Pt 7) (Reaffirmed)	Permanent
248		High voltage Test (AC)	0.01kV-35 kV	Cl.5.13 of IS 17048 +A1	Permanent
249		Insulation resistance	1 – 100 x 10 <sup>6</sup> MΩ	Table 2 of IS 17048 +A1 IS 10810 (Pt 43) (Reaffirmed)	Permanent
250		Oxygen Index Test	21 % to 80%	Table 2 of IS 17048 +A1 IS 10810 (Pt 58) (Reaffirmed)	Permanent
251		Temperature Index Test	Up to 500°C	Table 2 of IS 17048 +A1 IS 10810 (Pt -64) (Reaffirmed)	Permanent
252		Ageing in air oven	Up to 500N/mm <sup>2</sup> Up to 1500%	Table 2 of IS 17048 +A1 IS 10810 (Pt 11) (Reaffirmed)	Permanent
253		Hot deformation test	Up to 90%	Table 2 of IS 17048 +A1 IS 10810 (Pt 15) (Reaffirmed)	Permanent
254		Assessment of Halogen	0.1% to 40 % by weight	Table 2 of IS 17048 +A1 IS 10810(Pt-59) : +A1 (Reaffirmed)	Permanent
255		Cold Impact Test	Qualitative	Table 2 of IS 17048 +A1 IS 10810 (Pt 21) (Reaffirmed)	Permanent
256		Hot Set Test	Up to 400 %	Table 2 of IS 17048 +A1 IS 10810 (Pt 30)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
257		pH	0 to 14 pH	Cl.5.7 & Annex D of IS 17048 +A1	Permanent
258		Conductivity	0 to 50 $\mu$ S/mm	Cl.5.7 & Annex D of IS 17048 +A1	Permanent
259		Tensile strength & Elongation at break of sheath before and after ageing	Up to 200 N/mm <sup>2</sup> Up to 800 %	Table 2 of IS 17048 +A1 IS 10810 (Pt 7) (Reaffirmed)	Permanent
260		Ageing in air oven	Up to 200N/mm <sup>2</sup> Up to 800 %	Table 2 of IS 17048 +A1 IS 10810 (Pt 11) (Reaffirmed)	Permanent
261		Ozone resistance test	Amb. - 100°C Amb. - 99 % RH	Table 2 of IS 17048 +A1 S: 10810 (Pt.13) (Reaffirmed)	Permanent
262		Flammability test	Up to 600 mm	Table 2 of IS 17048 +A1 IS: 10810 (Pt 53) (Reaffirmed)	Permanent
263		Cold Bend Test	Qualitative	Table 2 of IS 17048 +A1 IS 10810 (Pt 20) (Reaffirmed)	Permanent
264		Flame Retardant Test	Up to 850 mm	Table 2 of IS 17048 +A1 IS 10810 (Pt 61) : (Reaffirmed)	Permanent
265		Water Immersion test (Effect of water on sheath of cable)	Up to 200 N/mm <sup>2</sup> Up to 800 %	Annex B of IS 17048 +A1 IS 10810 (Pt 7) (Reaffirmed)	Permanent
266		Smoke Density	Up to 100 %	Table 2 of IS 17048 +A1 IS 10810 (Pt 63) (Reaffirmed)	Permanent
267	Cables for motor vehicles	Annealing test for Copper Conductor	Up to 50 %	Cl.12.1 of IS 2465 (Reaffirmed)+A1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				IS 10810 (Pt 1) (Reaffirmed)	
268		Persulphate test for copper	Up to 20 g/m <sup>2</sup>	Cl.12.1 of IS 2465 (Reaffirmed)+A1 IS 10810 (Pt.4) (Reaffirmed)	Permanent
269		Conductor resistance	Up to 100 ohm/km	Cl.12.1 of IS 2465 (Reaffirmed)+A1 IS 10810 (Pt 5) (Reaffirmed)	Permanent
270		Test for thickness of Insulation and Sheath and other dimensional checks	Up to 150 mm	Cl.12.1 of IS 2465 (Reaffirmed)+A1 IS 10810 (Pt 6) (Reaffirmed)	Permanent
271		Tensile strength & Elongation at break of insulation & sheath	Up to 200 N/mm <sup>2</sup> Up to 800 %	Cl.12.1 of IS 2465 (Reaffirmed)+A1 IS 10810 (Pt 7) (Reaffirmed)	Permanent
272		Ageing in air oven	Up to 200 N/mm <sup>2</sup> Up to 800 %	Cl.12.1 of IS 2465 (Reaffirmed)+A1 IS 10810 (Pt 11) (Reaffirmed)	Permanent
273		Loss of mass test	Up to 10 mg/cm <sup>2</sup>	Cl.12.1 of IS 2465 (Reaffirmed)+A1 IS 10810 (Pt 10) (Reaffirmed)	Permanent
274		Hot deformation test	Up to 80 %	Cl.12.1 of IS 2465 (Reaffirmed)+A1 IS 10810 (Pt 15) (Reaffirmed)	Permanent
275		Heat shock test	Qualitative	Cl.12.1 of IS 2465 (Reaffirmed)+A1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				IS 10810 (Pt 14) (Reaffirmed)	
276		Shrinkage test	Up to 50 %	Cl.12.1 of IS 2465 (Reaffirmed)+A1 IS 10810 (Pt 12) (Reaffirmed)	Permanent
277		Tensile strength and elongation at break of elastomer insulation & sheath	Up to 200 N/mm <sup>2</sup> Up to 800 %	Cl.12.1 of IS 2465 (Reaffirmed)+A1 IS 10810 (Pt.7) (Reaffirmed)	Permanent
278		Ageing in air oven	Up to 200 N/mm <sup>2</sup> Up to 800 %	Cl.12.1 of IS 2465 (Reaffirmed)+A1 IS 10810 (Pt.11) (Reaffirmed)	Permanent
279		Ageing in oxygen bomb	Up to 200 N/mm <sup>2</sup> Up to 800 %	Cl.12.1 of IS 2465 (Reaffirmed)+A1 IS 10810 (Pt.16) (Reaffirmed)	Permanent
280		High voltage (water immersion) test	Up to 35 kV	14.1 and 14.2 of IS 2465 (Reaffirmed)+A1 IS 10810 (Pt.45) (Reaffirmed)	Permanent
281		Capacitance test for pvc insulation for ignition cable	1pF -1100 µF Up to 1000 µF	Cl.16 of IS 2465 (Reaffirmed)+A1	Permanent
282		Ozone resistance test for ignition cable	Amb.- 99 % RH 0.01 kV-35 kV	Cl.17 of IS 2465 (Reaffirmed)+A1	Permanent
283		Effect of heat on flexibility for ignition cable	Up to 35 kV	Cl.18 of IS 2465 (Reaffirmed)+A1	Permanent
284		Effect of oil for ignition cable	Up to 35 kV	Cl.19 of IS 2465 (Reaffirmed)+A1	Permanent
285		Effect of lubricating oil, brake fluid, diesel and petrol (for	Amb. - 3000C	Cl.20 of IS 2465 (Reaffirmed)+A1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
		general wiring cables)			
286		Effect of cooling on flexibility	Qualitative	Cl.21 of IS 2465 (Reaffirmed)+A1	Permanent
287		Cold bend test	Qualitative	Cl.12.1 of IS 2465 (Reaffirmed)+A1 IS 10810 (Pt 20) (Reaffirmed)	Permanent
288		Cold impact test	Qualitative	IS 2465 (Reaffirmed)+A1 IS 10810 (Pt 21) (Reaffirmed)	Permanent
289		Flammability test (for general wiring cables)	Up to 600 mm	Cl.22 of IS 2465 (Reaffirmed)+A1 IS 10810 (Pt 53) (Reaffirmed)	Permanent
290	Elastomer insulated cables with Limited Circuit Integrity when Affected by Fire – Specification	Persulphate test for copper	Up to 50g/m <sup>2</sup>	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt -4) (Reaffirmed)	Permanent
291		Dimension for armouring material	0.01mm to 25 mm	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt 36) (Reaffirmed)	Permanent
292		Tensile strength & Elongation at break of armouring material	Up to 500N/mm <sup>2</sup> Up to 50%	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt 37) (Reaffirmed)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
293		Torsion test on Galvanized steel wire for armouring	Qualitative	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt 38) (Reaffirmed)	Permanent
294		Winding test on Galvanized steel strips for armouring	Qualitative	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt 39) (Reaffirmed)	Permanent
295		Uniformity of Zinc coating	Qualitative	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt 40) (Reaffirmed)	Permanent
296		Mass of Zinc coating	Up to 500 gm/ m <sup>2</sup>	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt 41) (Reaffirmed)	Permanent
297		Test for thickness of insulation and sheath	0.01mm - 150 mm	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt 6) (Reaffirmed)	Permanent
298		Tensile strength & elongation at break before ageing for insulation & Sheath	Up to 500N/mm <sup>2</sup> Up to 1500%	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt 7) (Reaffirmed)	Permanent
299		Ageing in air oven for insulation & Sheath	Up to 500N/mm <sup>2</sup> Up to 1500%	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				IS 10810 (Pt 11) (Reaffirmed)	
300		Ageing in air bomb for insulation	Up to 500N/mm <sup>2</sup> Up to 1500%	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt 56) (Reaffirmed)	Permanent
301		Hot set test for insulation & Sheath	Up to 200%	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt.30) (Reaffirmed)	Permanent
302		Ageing in air bomb for sheath	Up to 500N/mm <sup>2</sup> Up to 1500%	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt 56) (Reaffirme)	Permanent
303		Oxygen Index test	21 % to 80%	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt 58) (Reaffirme)	Permanent
304		Temperature Index test	Amb. to 500°C	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt 64) (Reaffirme)	Permanent
305		Halogen acid gas evolved test	Up to 50%	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS:10810(Pt-59) : (Reaffirmed)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
306		High voltage test	Up to 35 kV	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt.45) (Reaffirmed)	Permanent
307		Insulation resistance	1 – 100 x10 <sup>6</sup> MΩ	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt.43) (Reaffirmed)	Permanent
308		Water absorption test (Electrical)	Up to 20 %	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt.28) (Reaffirmed)	Permanent
309		Flame Retardant Test	Up to 850 mm	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810(Pt 61): +A1 (Reaffirmed)	Permanent
310		Flame Retardance test on bunched cables	Up to 3.50 meter	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 10810 (Pt -62) (Reaffirmed)	Permanent
311		Circuit Integrity test	Up to 3000 volts Up to 10 Amp.	Table 1 and Table 2 of IS 16246 (Reaffirmed)+A1 IS 16246 (Annex-B)	Permanent
312	Specification for Thermosetting Insulated Fire Survival Cables for	Annealing test (for copper)	Up to 50%	Table 1 and Table 2 of IS 17505 (Part 1) : +A1 IS 10810 (Pt-1) Reaffirmed	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
313	Fixed Installation having Low Emission of Smoke and Corrosive Gases when Affected by Fire for Working Voltages upto and including 1100 Vac and 1500 Vdc	Conductor Resistance test	0.0100 to 1000 ohm/km	Table 1 and Table 2 of IS 17505 (Part 1) : +A1 IS 10810 (Pt-5) Reaffirmed)	Permanent
314		Persulphate test ( for tinned copper conductor only)	Up to 50g/m <sup>2</sup>	Table 1 and Table 2 of IS 17505 (Part 1) : +A1 IS 10810 (Pt-4) Reaffirmed)	Permanent
315		Shrinkage test for insulation	Up to 50%	Table 1 and Table 2 of IS 17505 (Part 1) : +A1 IS 10810 (Pt-12) Reaffirmed)	Permanent
316		Heat shock test for sheath	Qualitative	Table 1 and Table 2 of IS 17505 (Part 1) : +A1 IS 10810 (Pt-14) Reaffirmed)	Permanent
317		Cold bend test for sheath	Qualitative	Table 1 and Table 2 of IS 17505 (Part 1) : +A1 IS 10810 (Pt-20) Reaffirmed)	Permanent
318		Cold impact test for sheath	Qualitative	Table 1 and Table 2 of IS 17505 (Part 1) : +A1 IS 10810 (Pt-21) Reaffirmed)	Permanent
319		Water absorption test (gravimetric) for insulation	Up to 100mg/cm <sup>2</sup>	Table 1 and Table 2 of IS 17505 (Part 1) : +A1 IS 10810 (Pt-33) Reaffirmed)	Permanent
320		Assessment of halogen for sheath	Up to 50%	Annex F of IS IS 17505 (Part 1) : +A1	Permanent
321		Test for smoke density	Up to 100 %	Table 1 and Table 2 of IS 17505 (Part 1) : +A1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				IS 10810 (Pt-63) Reaffirmed)	
322		Ozone resistance test for Insulation & Sheath	Qualitative	Table 1 and Table 2 of IS 17505 (Part 1) : +A1 IS 10810 (Pt-13) Reaffirmed)	Permanent
323		Insulation resistance test for insulation	1 – 100 x10 <sup>6</sup> MΩ	Table 1 and Table 2 of IS 17505 (Part 1) : +A1 IS 10810 (Pt-43) Reaffirmed)	Permanent
324		Water immersion test (effect of water on sheath)	Up to 200 N/mm <sup>2</sup> Up to 800 %	Cl. 18.9 of IS 17505 (Part 1) : +A1	Permanent
325		High voltage test	Qualitative	Table 1 and Table 2 of IS 17505 (Part 1) : +A1 IS 10810 (Pt-45): Reaffirmed)	Permanent
326		Flammability Test: Flame test on single core	Up to 850 mm	Table 1 and Table 2 of IS 17505 (Part 1) : +A1 IS 10810 (Pt-61): +A1 Reaffirmed)	Permanent
327		Circuit Integrity test under fire Cat F3, Cat F 30, Cat F 60, Cat F120	Qualitative	Annex E of IS 17505 (Part 1) : +A1	Permanent
328		Abrasion Resistance test	Qualitative	Annex D of IS 17505 (Part 1) : +A1	Permanent
329	Electric Cables for Photovoltaic systems	Conductor Resistance	0.0100 to 1000 ohm/km	IS 17293 Table -3	Permanent
330	for rated voltage 1500 d.c.	Voltage test on complete cable with a.c. or d.c.	Qualitative	IS 17293 Cl.5.1&6.1 & Annex B	Permanent
331		Measurement of Insulation resistance	1 – 100 x10 <sup>6</sup> MΩ	IS 17293 Cl.11.2.3 & Table- 1,2,3	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
332		Long term resistance of insulation to d.c.	Qualitative	IS 17293 Cl.11.2.4 & Table-3	Permanent
333		Surface resistance of sheath	1 – 100 x10 <sup>6</sup> MΩ	IS 17293 Table -3 Cl.11.2.5	Permanent
334		Diameter of conductor	0.01mm - 150 mm	IS 17293	Permanent
335		Checking Continuity of Tin ( Persulphate test)	Up to 50g/m <sup>2</sup>	IS 17293 Table no-3	Permanent
336		Insulation and sheath thickness	0.01mm - 150 mm	IS 17293 Cl.5.3 & 6.3 & Table -1,2,3	Permanent
337		Ovality	0.01mm - 150 mm	IS 17293 Table -3 & Cl. 11.3.3	Permanent
338		Sheath Colour	Qualitative	IS 17293 Table -3	Permanent
339		Sheath Marking	Qualitative	IS 17293 Table -3	Permanent
340		Tensile strength and elongation at break on insulation and sheath	Up to 500N/mm <sup>2</sup> Up to 1500%	IS 17293 Annex B & Table 11	Permanent
341		Ageing in air oven	Up to 500N/mm <sup>2</sup> Up to 1500%	IS 17293 Cl.5.1&6.1 & Annex B	Permanent
342		Hot set test	Up to 200%	IS 17293 Table - 11& Annex B	Permanent
343		Thermal endurance test	Qualitative	IS 17293 Annex B & Table 11	Permanent
344		Bending test at low temperature	Qualitative	IS 17293 Table no-3	Permanent
345		Elongation at low temperature	Qualitative	IS 17293 Table no-3	Permanent
346		Sheath resistance against acid and alkaline solution	Up to 500N/mm <sup>2</sup> Up to 1500%	IS 17293 Table 11 & Annex I	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
347		Compatibility test	Up to 500 N/mm <sup>2</sup> Up to 1500%	IS 17293 Table - 3 & 11	Permanent
348		Cold impact test	Qualitative	IS 17293 Table no-3 & Annex C	Permanent
349		Ozone resistance test on complete cable	Qualitative	IS 17293 Table -3 Annex G	Permanent
350		Weathering/UV resistance test	Up to 500N/mm <sup>2</sup> Up to 1500%	IS 17293 Annex E & Table - 3	Permanent
351		Dynamic Penetration test	Up to 2000 N	IS 17293 Table 3 & Annex D	Permanent
352		Damp Heat test	Up to 500N/mm <sup>2</sup> Up to 1500%	IS 17293 Table -3 & Annex H	Permanent
353		Shrinkage test	Up to 50%	IS 17293 Table -3	Permanent
354		Test for Vertical flame propagation on complete cable	Up to 3.50 meter	IS 17293 Table -3	Permanent
355		Smoke emission of complete cable	Up to 100 %	IS 17293 Table -3	Permanent
356		Assessment of halogen on insulation and sheath - Chlorine and bromine content expressed as content of HCL	Up to 50%	IS 17293 Table -3 Annex J	Permanent
357		Assessment of halogen on insulation and sheath - Conductivity test	0 to 10 µs/mm	IS 17293 Table -3 Annex J	Permanent
358		Assessment of halogen on insulation and sheath - Fluorine content	Qualitative	IS 17293 Table -3 Annex J	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
359		Assessment of halogen on insulation and sheath - Presence of fluorine	Up to 10 %	IS 17293 Table -3 Annex J	Permanent
360		Assessment of halogen on insulation and sheath- pH test	0 to 14 pH	IS 17293 Table -3 Annex J	Permanent
361	PVC insulated (heavy duty) Electric cables for working voltage from 3.3 kV up to and including 11kV.	Annealing test for copper Conductor	Up to 50%	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 1 (Reaffirmed)	Permanent
362		Tensile strength for Aluminium Conductor	Up to 500N/mm <sup>2</sup>	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 2 (Reaffirmed)	Permanent
363		Wrapping test for Aluminium Conductor	Qualitative	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 3 (Reaffirmed)	Permanent
364		Conductor resistance	0.0100 to 1000 ohm/km	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 5 (Reaffirmed)	Permanent
365		Dimension for armouring material	0.01mm to 25 mm	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 36 (Reaffirmed)	Permanent
366		Tensile strength & Elongation at break of armouring material	Up to 500N/mm <sup>2</sup> Up to 50%	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 37 (Reaffirmed)	Permanent
367		Torsion test on Galvanized steel wire for armouring	Qualitative	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				IS:10810 (Pt 38) (Reaffirmed)	
368		Winding test on Galvanized steel strips for armouring	Qualitative	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 39) (Reaffirmed)	Permanent
369		Uniformity of Zinc coating	Qualitative	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 40) (Reaffirmed)	Permanent
370		Mass of Zinc coating	Up to 500 gm/ m <sup>2</sup>	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 41) (Reaffirmed)	Permanent
371		Resistivity & Conductance test of Armour (Wires/strips)	Up to 20 x10 <sup>6</sup> ohm-cm	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 42) (Reaffirmed)	Permanent
372		Thickness of Insulation & Sheath	0.01mm - 150 mm	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 6) (Reaffirmed)	Permanent
373		Tensile strength & Elongation at break of insulation & sheath	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 7) (Reaffirmed)	Permanent
374		Loss of mass test	Up to 100 mg/cm <sup>2</sup>	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 10) (Reaffirmed)	Permanent
375		Ageing in air oven	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				IS:10810 (Pt 11) (Reaffirmed)	
376		Shrinkage test	Up to 50%	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 12) (Reaffirmed)	Permanent
377		Heat shock test	Qualitative	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 14) (Reaffirmed)	Permanent
378		Hot deformation test	Up to 90%	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 15) (Reaffirmed)	Permanent
379		Thermal Stability	Up to 500 Minute	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 60)- (Reaffirmed)	Permanent
380		Water Absorption (Gravimetric)	Up to 20 mg/cm <sup>2</sup>	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS: 10810 (Pt 33) (Reaffirmed)	Permanent
381		Insulation resistance	1 - 100x10 <sup>6</sup> MΩ	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 43) (Reaffirmed)	Permanent
382		Volume Resistivity	1 - 100x10 <sup>6</sup> MΩ	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 43) (Reaffirmed)	Permanent
383		Flammability test	Up to 600mm	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				IS:10810 (Pt 53) (Reaffirmed)	
384		High voltage Test (AC)	0.01kV-35 kV Up to 35 kV	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS 10810 (Pt 45) (Reaffirmed)	Permanent
385		Cold Impact Test	Qualitative	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 21) (Reaffirmed)	Permanent
386		Armour Resistance Test	0.0100 to 1000 ohm/km	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 42) (Reaffirmed)	Permanent
387		Oxygen Index Test	21 % to 80%	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 58)- (Reaffirmed) ASTM D 2863- 09	Permanent
388		Flame Retardance Test on Single Cable	Up to 1000mm	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt 61) +A1 (Reaffirmed) SS-424-1475	Permanent
389		Flame Retardance test on bunched cables	Up to 3.50 meter	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt -62) (Reaffirmed) IEC 60332-3-22 IEC 60332-3-23 IEC 60332-3-24	Permanent
390		Halogen Acid Gas	Up to 50%	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				IS:10810(Pt-59) - (Reaffirmed) IEC 60754-1	
391		Smoke Density	Up to 90%	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 ASTM D 2843	Permanent
392		Temperature Index Test	Amb. to 200°C	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS:10810 (Pt -64) (Reaffirmed) ASTM D 2863-09	Permanent
393		Bending Test	Qualitative	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS10810(Pt 50) (Reaffirmed)	Permanent
394		Partial Discharge test	2pC to1000 pC	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS 10810(Pt46)) (Reaffirmed)	Permanent
395		Impulse withstand test	Qualitative	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS10810(Pt47) (Reaffirmed)	Permanent
396		Dielectric power factor test	Others:0.0002 to0.100tan delta	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS 10810(Pt48) (Reaffirmed)	Permanent
397		Heating Cycle Test	Qualitative	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 IS 10810(Pt49) (Reaffirmed)	Permanent
398	Cross Linked Polyethylene	Annealing test for copper Conductor	Up to 50%	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
	Insulated Thermo Plastic sheathed cables for working voltages from 3.3 kV up to & including 33 kV			IS:10810 (Pt 1 (Reaffirmed))	
399		Tensile strength for Aluminium Conductor	Up to 500N/mm <sup>2</sup>	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt 2 (Reaffirmed))	Permanent
400		Wrapping test for Aluminum Conductor	Qualitative	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt 3 (Reaffirmed))	Permanent
401		Conductor resistance	0.0100 to 1000 ohm/km	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt 5 (Reaffirmed))	Permanent
402		Dimension for armouring material	0.01mm to 25 mm	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt 36 (Reaffirmed))	Permanent
403		Tensile strength & Elongation at break of armouring material	Up to 500N/mm <sup>2</sup> Up to 50%	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt 37 (Reaffirmed))	Permanent
404		Torsion test on Galvanized steel wire for armouring	Qualitative	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt 38 (Reaffirmed))	Permanent
405		Winding test on Galvanized steel strips for armouring	Qualitative	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt 39 (Reaffirmed))	Permanent
406		Uniformity of Zinc coating	Qualitative	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				IS:10810 (Pt 40) (Reaffirmed)	
407		Mass of Zinc coating	Up to 500 gm/ m <sup>2</sup>	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt 41) (Reaffirmed)	Permanent
408		Resistivity & Conductance test of Armour (Wires/strips)	Up to 20 x10 <sup>6</sup> ohm-cm	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt 42) (Reaffirmed)	Permanent
409		Thickness of Insulation (eccentricity) & Sheath	0.01mm - 150 mm	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt 6) (Reaffirmed)	Permanent
410		Tensile strength & Elongation at break of insulation & sheath	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt 7) (Reaffirmed)	Permanent
411		Loss of mass test	Up to 100 mg/cm <sup>2</sup>	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt 10) (Reaffirmed)	Permanent
412		Ageing in air oven	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt 11) (Reaffirmed)	Permanent
413		Hot Set Test	Up to 200%	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS 10810 (Pt 30) (Reaffirmed)	Permanent
414		Shrinkage test	Up to 50%	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				IS:10810 (Pt 12) (Reaffirmed)	
415		Heat shock test	Qualitative	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt 14) (Reaffirmed)	Permanent
416		Hot deformation test	Up to 90%	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt 15) (Reaffirmed)	Permanent
417		Water Absorption (Gravimetric)	Up to 20 mg/cm <sup>2</sup>	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt 33) (Reaffirmed)	Permanent
418		Thermal Stability (for sheath)	Up to 500 minutes	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt 60) (Reaffirmed)	Permanent
419		Thermal ageing test for complete cable	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.20.9 of IS:7098 (Part-2) (Reaffirmed)+A2	Permanent
420		Insulation resistance (Volume Resistivity)	1 - 100x10 <sup>6</sup> MΩ	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt 43) (Reaffirmed)	Permanent
421		Flammability test (for PVC sheathed cable)	Up to 600mm	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt 53) (Reaffirmed)	Permanent
422		High voltage Test (AC)	Up to 35 kV	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS 10810 (Pt 45) (Reaffirmed)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
423		Armour Resistance Test	0.0100 to 1000 ohm/km	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt 42) (Reaffirmed)	Permanent
424		Cold Impact Test	Qualitative	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt 21) (Reaffirmed)	Permanent
425		Oxygen Index Test	21 % to 80%	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS: 10810 (Pt 58) (Reaffirmed)	Permanent
426		Flame Retardance Test on Single Cable	Up to 850 mm	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS 10810 (Pt 61) - +A1 (Reaffirmed)SS-424-1475	Permanent
427		Flame retardance test on bunched cables	Up to 3.50 meter	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt -62)- 1984 (Reaffirmed) IEC 60332-3-22, IEC 60332-3-23 IEC 60332-3-24	Permanent
428		Halogen Acid Gas	Up to 50%	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810(Pt-59) (Reaffirmed) IEC 60754-1	Permanent
429		Smoke Density	Up to 90%	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 ASTM D 284	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
430		Temperature Index Test	Amb. to 500°C	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS:10810 (Pt -64) (Reaffirmed) ASTM D 2863-09	Permanent
431		Bending Test	Qualitative	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS10810(Pt 50) (Reaffirmed)	Permanent
432		Partial Discharge test	2pC to1000 pC	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS 10810(Pt46)) (Reaffirmed)	Permanent
433		Impulse withstand test	Qualitative	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS10810(Pt47) (Reaffirmed)	Permanent
434		Dielectric power factor test	Others:0.0002 to0.100tan delta	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS 10810(Pt48) (Reaffirmed)	Permanent
435		Heating Cycle Test	Qualitative	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 IS 10810(Pt49) (Reaffirmed)	Permanent
436		Test for strippability of semiconducting strippable insulation screen	Others: up to 50 N	Table 2 and Annex B of IS:7098 (Part-2) (Reaffirmed)+A2	Permanent
437		Test on Extruded semi conducting screens Volume Resistivity	Others: up to 1000 ohmm	Table 2 and Annex E of IS:7098 (Part-2) (Reaffirmed)+A2	Permanent
438		Carbon black content of PE Sheath	upto 50%	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				IS 10810(Pt32) (Reaffirmed)	
439	Cross Linked Polyethylene Insulated Thermo Plastic sheathed cables for working voltages up to 66 KV only	Annealing test for copper Conductor	Up to 50%	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS:10810 (Pt 1) (Reaffirmed)	Permanent
440		Conductor resistance	0.0100 to 1000 ohm/km	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS:10810 (Pt 5) (Reaffirmed)	Permanent
441		Dimension for armouring material	0.01mm to 25 mm	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS:10810 (Pt 36) (Reaffirmed)	Permanent
442		Tensile strength & Elongation at break of armouring material	Up to 500N/mm <sup>2</sup> Up to 50%	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS:10810 (Pt 37) (Reaffirmed)	Permanent
443		Resistivity test of Armour (Wires/strips)	Up to 20 x10 <sup>6</sup> ohm-cm	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS:10810 (Pt 42) (Reaffirmed)	Permanent
444		Measurement of capacitance Test	1pF -1100 µF Up to 1000 µF	Cl.20.18 of IS:7098 (Part-3) (Reaffirmed)+A4	Permanent
445		Thickness of Insulation (eccentricity) & Sheath	0.01mm - 150 mm	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS:10810 (Pt 6) (Reaffirmed)	Permanent
446		Tensile strength & Elongation at break of insulation & sheath	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS:10810 (Pt 7) (Reaffirmed)	Permanent



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**Validity** : 29.12.2029

**Amendment date:** N/A

Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
447		Loss of mass test	Up to 100 mg/cm <sup>2</sup>	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS:10810 (Pt 10) (Reaffirmed)	Permanent
448		Ageing in air oven	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS:10810 (Pt 11) (Reaffirmed)	Permanent
449		Hot Set Test	Up to 200%	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS 10810 (Pt 30) (Reaffirmed)	Permanent
450		Shrinkage test	Up to 50%	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS:10810 (Pt 12) (Reaffirmed)	Permanent
451		Heat shock test	Qualitative	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS:10810 (Pt 14) (Reaffirmed)	Permanent
452		Hot deformation test	Up to 90%	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS:10810 (Pt 15) (Reaffirmed)	Permanent
453		Thermal Stability (for sheath)	Up to 500 minutes	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS:10810 (Pt 60)- (Reaffirmed)	Permanent
454		Thermal ageing test for complete cable	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.20.9 of IS:7098 (Part-3) (Reaffirmed)+A4	Permanent
455		Flammability test (for PVC sheathed cable)	Up to 600mm	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				IS:10810 (Pt 53) (Reaffirmed)	
456		High voltage Test (AC)	Up to 200 kV	Cl.20.17 of IS:7098 (Part-3) (Reaffirmed)+A4	Permanent
457		Cold Impact Test	Qualitative	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS:10810 (Pt 21) (Reaffirmed)	Permanent
458		Bending Test	Qualitative	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS 10810(Pt 50) (Reaffirmed)	Permanent
459		Partial Discharge test	2pC to1000 pC	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS 10810(Pt46)) (Reaffirmed)	Permanent
460		Impulse withstand test followed by H.V Test	Qualitative	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS 10810(Pt47) (Reaffirmed)	Permanent
461		Dielectric power factor test	0.0002 to 0.100 tan delta	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS 10810(Pt48) (Reaffirmed)	Permanent
462		Heating Cycle Test	Qualitative	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS 10810(Pt49) (Reaffirmed)	Permanent
463		Resistivity test for semi-conducting layers	Up to 20 $\times 10^4$ ohm-m	Cl.20.2.4, Annex C of IS:7098 (Part-3) (Reaffirmed)+A4	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
464		Test for concentric copper wire (Resistance measurement)	0.0100 to 1000 ohm/km	Cl.20.3 of IS:7098 (Part-3) (Reaffirmed)+A4	Permanent
465		Test for concentric copper tape (resistance measurement)	0.0100 to 1000 ohm/km	Cl.20.4 of IS:7098 (Part-3) (Reaffirmed)+A4	Permanent
466		Thickness of metallic sheath	0.01mm to 25 mm	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS 10810(Pt34) (Reaffirmed)	Permanent
467		Carbon black content of PE Sheath	Others: upto 50%	Cl.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS 10810(Pt32) (Reaffirmed)	Permanent
468		Water Tightness test	Qualitative	20.8, Annex -D of IS:7098 (Part-3) (Reaffirmed)+A4	Permanent
469		Load cycle test followed by P.D measurement)	2pC to1000 pC	Cl.20.14 of IS:7098 (Part-3) (Reaffirmed)+A4	Permanent
470	Elastomer insulated cables for working voltages from 3.3 kV up to and including 33kV .	Persulphate test for copper	Up to 50g/m <sup>2</sup>	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS 10810 (Pt -4) -1984 (Reaffirmed)	Permanent
471		Annealing test for copper	Up to 50%	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 1 (Reaffirmed)	Permanent
472		Tensile test for aluminium	Up to 500N/mm <sup>2</sup>	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 2 (Reaffirmed)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
473		Wrapping test for aluminum	Qualitative	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 3 (Reaffirmed))	Permanent
474		Conductor resistance test	0.0100 to 1000 ohm/km	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 5 (Reaffirmed))	Permanent
475		Dimension for armouring material	0.01mm to 25 mm	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 36 (Reaffirmed))	Permanent
476		Tensile strength & Elongation at break of armouring material	Up to 500N/mm <sup>2</sup> Up to 50%	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 37 (Reaffirmed))	Permanent
477		Torsion test on Galvanized steel wire for armouring	Qualitative	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 38 (Reaffirmed))	Permanent
478		Winding test on Galvanized steel strips for armouring	Qualitative	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 39 (Reaffirmed))	Permanent
479		Uniformity of Zinc coating	Qualitative	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 40 (Reaffirmed))	Permanent
480		Mass of Zinc coating	Up to 500 gm/ m <sup>2</sup>	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 41 (Reaffirmed))	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
481		Test for thickness of insulation and sheath and overall diameter	0.01mm - 150 mm	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 6 (Reaffirmed)	Permanent
482		Tensile strength and elongation at break	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 7 (Reaffirmed)	Permanent
483		Ageing in air oven	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 11 (Reaffirmed)	Permanent
484		Ageing in air bomb	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 56 (Reaffirmed:)	Permanent
485		Hot set Test	Up to 200%	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS : 10810 (Pt.30) (Reaffirmed)	Permanent
486		Oil resistance	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS : 10810 (Pt.31) (Reaffirmed)	Permanent
487		Tear resistance	Up to 500N/mm <sup>2</sup>	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS : 10810 (Pt.17) (Reaffirmed)	Permanent
488		Shrinkage test	Up to 50%	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 12 (Reaffirmed)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
489		Hot deformation test	Up to 90%	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 15 (Reaffirmed)	Permanent
490		Loss of mass test	Up to 100 mg/cm <sup>2</sup>	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 10 (Reaffirmed)	Permanent
491		Heat shock test	Qualitative	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 14 (Reaffirmed)	Permanent
492		Thermal Stability	Up to 500 minutes	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS:10810 (Pt 60)- (Reaffirmed)	Permanent
493		Insulation resistance	1 – 100 x10 <sup>6</sup> MΩ	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS : 10810 (Pt.43) (Reaffirmed)	Permanent
494		High voltage (water immersion) test	Up to 35 kV	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS : 10810 (Pt.45) (Reaffirmed)	Permanent
495		Water absorption test (Electrical)	Up to 20 %	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS : 10810 (Pt.28) (Reaffirmed)	Permanent
496		Flammability test	Up to 600 mm	Cl.22.1 of IS: 9968 (Pt.-2) (Reaffirmed)+A2 IS : 10810 (Pt.53) (Reaffirmed)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
497		Ozone resistance test	Amb.- 100°C Amb.- 99 % RH	Cl.22.1 of IS: 9968 (Pt.- 2) (Reaffirmed)+A2 IS : 10810 (Pt.13) (Reaffirmed)	Permanent
498		Cold Impact test for PVC sheath	Qualitative	Cl.22.1 of IS: 9968 (Pt.- 2) (Reaffirmed)+A2 IS: 10810 (Pt 21) (Reaffirmed)	Permanent
499		Bending Test	Qualitative	Cl.22.1 of IS: 9968 (Pt.- 2) (Reaffirmed)+A2 IS 10810(Pt 50) (Reaffirmed)	Permanent
500		Partial Discharge test	2pC to1000 pC	Cl.22.1 of IS: 9968 (Pt.- 2) (Reaffirmed)+A2 IS 10810(Pt46)) (Reaffirmed)	Permanent
501		Impulse withstand test	Qualitative	Cl.22.1 of IS: 9968 (Pt.- 2) (Reaffirmed)+A2 IS10810(Pt47) (Reaffirmed)	Permanent
502		Heating Cycle Test	Qualitative	Cl.22.1 of IS: 9968 (Pt.- 2) (Reaffirmed)+A2 IS 10810(Pt49) (Reaffirmed)	Permanent
503		Dielectric Power factor Test	0.0002 to 0.100 tan delta	Cl.22.1 of IS: 9968 (Pt.- 2) (Reaffirmed)+A2 IS10810(Pt48) (Reaffirmed)	Permanent
504	Elastomer insulated flexible cables for use in mines working voltages from 1.1 kV	Annealing test for copper	Up to 50%	Table 33 of IS: 14494 (Reaffirmed) IS:10810 (Pt 1) (Reaffirmed)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
505	up to and including 11 kV	Conductor resistance test	0.0100 to 1000 ohm/km	Table 33 of IS: 14494 (Reaffirmed) IS:10810 (Pt 5 (Reaffirmed)	Permanent
506		Dimension for armouring material	0.01mm to 25 mm	Table 33 of IS: 14494 (Reaffirmed) IS: 14494 (Reaffirmed) IS:10810 (Pt 36 (Reaffirmed)	Permanent
507		Tensile strength & Elongation at break of armouring material	Up to 500N/mm <sup>2</sup> Up to 50%	Table 33 of IS: 14494 (Reaffirmed) IS:10810 (Pt 37 (Reaffirmed)	Permanent
508		Torsion test on Galvanized steel wire for armouring	Qualitative	Table 33 of IS: 14494 (Reaffirmed) IS:10810 (Pt 38 (Reaffirmed)	Permanent
509		Winding test on Galvanized steel strips for armouring	Qualitative	Table 33 of IS: 14494 (Reaffirmed) IS: 10810 (Pt 39 (Reaffirmed)	Permanent
510		Uniformity of Zinc coating	Qualitative	Table 33 of IS: 14494 (Reaffirmed) IS: 10810 (Pt 40 (Reaffirmed)	Permanent
511		Mass of Zinc coating	Up to 500 gm/ m <sup>2</sup>	Table 33 of IS: 14494 (Reaffirmed) IS:10810 (Pt 41 (Reaffirmed)	Permanent
512		Resistivity & Conductance test of Armour (Wires/strips)	Up to 20 x10 <sup>6</sup> ohm-cm	Table 33 of IS: 14494 (Reaffirmed)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				IS:10810 (Pt 42) (Reaffirmed)	
513		Test for thickness of insulation and sheath and overall diameter	0.01mm - 150 mm	Table 33 of IS: 14494 (Reaffirmed) IS:10810 (Pt 6 (Reaffirmed))	Permanent
514		Tensile strength and elongation at break	Up to 500N/mm <sup>2</sup> Up to 1500%	Table 33 of IS: 14494 (Reaffirmed) IS:10810 (Pt 7 (Reaffirmed))	Permanent
515		Ageing in air oven	Up to 500N/mm <sup>2</sup> Up to 1500%	Table 33 of IS: 14494 (Reaffirmed) IS:10810 (Pt 11 (Reaffirmed))	Permanent
516		Ageing in air bomb	Up to 500N/mm <sup>2</sup> Up to 1500%	Table 33 of IS: 14494 (Reaffirmed) IS:10810 (Pt 56 (Reaffirmed:))	Permanent
517		Hot set Test	Up to 200%	Table 33 of IS: 14494 (Reaffirmed) IS : 10810 (Pt.30) (Reaffirmed)	Permanent
518		Oil resistance	Up to 500N/mm <sup>2</sup> Up to 1500%	Table 33 of IS: 14494 (Reaffirmed) IS : 10810 (Pt.31) (Reaffirmed)	Permanent
519		Tear resistance	Up to 500N/mm <sup>2</sup>	Table 33 of IS: 14494 (Reaffirmed) IS: 10810 (Pt.17) (Reaffirmed)	Permanent
520		Ozone resistance test	Amb.- 100°C Amb.- 99 % RH	Table 33 of IS: 14494 (Reaffirmed)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				IS: 10810 (Pt.13) (Reaffirmed)	
521		Insulation resistance	1 – 100 x10 <sup>6</sup> MΩ	Table 33 of IS: 14494 (Reaffirmed) IS : 10810 (Pt.43) (Reaffirmed)	Permanent
522		High voltage (water immersion) test	Up to 35 kV	Table 33 of IS: 14494 (Reaffirmed) IS : 10810 (Pt.45) (Reaffirmed)	Permanent
523		Water absorption test (Electrical)	Up to 20 %	Table 33 of IS: 14494 (Reaffirmed) IS : 10810 (Pt.28) (Reaffirmed)	Permanent
524		Flammability test	Up to 600 mm	Table 33 of IS: 14494 (Reaffirmed) IS : 10810 (Pt.53) (Reaffirmed)	Permanent
525		Bending Test	Qualitative	Table 33 of IS: 14494 (Reaffirmed) IS10810(Pt 50) (Reaffirmed)	Permanent
526		Partial Discharge test	2pC to1000 pC	Table 33 of IS: 14494 (Reaffirmed) IS 10810(Pt46) (Reaffirmed)	Permanent
527		Impulse withstand test	Qualitative	Table 33 of IS: 14494 (Reaffirmed) IS 10810(Pt47) (Reaffirmed)	Permanent
528		Dielectric power factor test	Others:0.0002 To 0.100tan delta	Table 33 of IS: 14494 (Reaffirmed)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				IS 10810(Pt48) (Reaffirmed)	
529		Heating Cycle Test	Qualitative	Table 33 of IS: 14494 (Reaffirmed) IS 10810(Pt49) (Reaffirmed)	Permanent
530		Electrical test on semi conducting screen	Qualitative	Annexure E of IS: 14494 (Reaffirmed)	Permanent
531		Test on Extrudedsemi conducting screens Volume Resistivity	Others: up to 1 000 ohm -m	Annexure E of IS: 14494 (Reaffirmed)	Permanent
532	Elastomer insulated cables upto 1100 volts	Persulphate test (for tinned Copper Conductor)	Up to 50g/m <sup>2</sup>	Cl.22.1 of IS:9968(Pt-1) IS 10810 (Pt -4) (Reaffirmed)	Permanent
533		Annealing test for Copper Conductor	Up to 50%	Cl.22.1 of IS:9968(Pt-1) IS:10810 (Pt 1) (Reaffirmed)	Permanent
534		Tensile strength for Aluminium Conductor	Up to 500N/mm <sup>2</sup>	Cl.22.1 of IS:9968(Pt-1) IS:10810 (Pt 2) (Reaffirmed)	Permanent
535		Wrapping test for Aluminium Conductor	Qualitative	Cl.22.1 of IS:9968(Pt-1) IS:10810 (Pt 3) (Reaffirmed)	Permanent
536		Conductor resistance	0.0100 to 1000 ohm/km	Cl.22.1 of IS:9968(Pt-1) IS:10810 (Pt 5) (Reaffirmed)	Permanent
537		Thickness of Insulation and Sheath and Overall dimensions	0.01mm - 150 mm	Cl.22.1 of IS:9968(Pt-1) IS:10810 (Pt 6) (Reaffirmed)	Permanent
538		Tensile strength & Elongation at break of insulation / sheath	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.22.1 of IS:9968(Pt-1) IS:10810 (Pt 7) (Reaffirmed)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
539		Ageing in air oven	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.22.1 of IS:9968(Pt-1) IS:10810 (Pt 11) (Reaffirmed)	Permanent
540		Ageing in air bomb	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.22.1 of IS:9968(Pt-1) IS:10810 (Pt 56) (Reaffirmed:)	Permanent
541		Ageing in oxygen bomb	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.22.1 of IS:9968(Pt-1) IS:10810 (Pt 16) (Reaffirmed)	Permanent
542		Hot Set Test	Up to 200%	Cl.22.1 of IS:9968(Pt-1) IS 10810 (Pt 30) (Reaffirmed)	Permanent
543		Oil resistance	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.22.1 of IS:9968(Pt-1) IS : 10810 (Pt.31) (Reaffirmed)	Permanent
544		Tear resistance	Up to 500N/mm	Cl.22.1 of IS:9968(Pt-1) IS : 10810 (Pt.17) (Reaffirmed)	Permanent
545		Insulation resistance	1 - 1000x10 <sup>6</sup> MΩ	Cl.22.1 of IS:9968(Pt-1) IS:10810 (Pt 43) (Reaffirmed)	Permanent
546		High voltage Test (Water Immersion)	0.01kV-35 kV	Cl.22.1 of IS:9968(Pt-1) IS:10810 (Pt 45) (Reaffirmed))	Permanent
547		Flammability test	Up to 600mm	Cl.22.1 of IS:9968(Pt-1) IS:10810 (Pt 53) (Reaffirmed)	Permanent
548		Water absorption test (Electrical)	1pF -1100μF	Cl.22.1 of IS:9968(Pt-1) IS: 10810 (Pt.28) (Reaffirmed)	Permanent
549		Cord Flexing test	0-999999 (Counts.)	Cl. 22.4 of IS:9968(Pt-1)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
550		High voltage Test (Water Immersion)	0.01kV-35 kV	Cl.22.1 of IS:9968(Pt-1) IS:10810 (Pt 45) (Reaffirmed)	Permanent
551		Flammability test	Up to 600mm	Cl.22.1 of IS:9968(Pt-1) S:10810 (Pt 53) (Reaffirmed)	Permanent
552		Water absorption test (Electrical)	1pF -1100µF	Cl.22.1 of IS:9968(Pt-1) IS: 10810 (Pt.28) (Reaffirmed)	Permanent
553		Cord Flexing test	0-999999 (Counts.)	Cl. 22.4 of IS:9968(Pt-1)	Permanent
554	Cables and wires	Electrical test	Qualitative	IEEE Std.1222-2003, Annexure A	Permanent
555	Fibre Reinforced Plastic (FRP)	Physical Dimension of coated rd	Upto 15mm	TEC 89010 : Section – II	Permanent
556		Tensile Strength at break	10000 kg/mm <sup>2</sup>	ASTM D 3916	Permanent
557		Elongation at break	Upto 50 %	ASTM D 3916	Permanent
558		Tensile Modulus	10000 kg/mm <sup>2</sup>	ASTM D 638	Permanent
559		Flexural Strength	10000 kg/mm <sup>2</sup>	ASTM D 790	Permanent
560		Flexural Modulus	10000 kg/mm <sup>2</sup>	ASTM D 3916	Permanent
561		Co-efficient of thermal expansion	Upto 1 cm/°C	ASTM D 696	Permanent
562		Water absorption	Upto 100 %	ASTM D 570	Permanent
563		Minimum bend diameter	Upto 150mm	ORM GR.No TEC 89010 : Section – II	Permanent
564		Heat stress at 80oC/24 hrs, 50Xd	Qualitative	ORM GR.No TEC 89010 : Section – II	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
565		Thermal Resistance test at 100oC/5 days, 60Xd	Qualitative	ORM GR.No TEC 89010 : Section – II	Permanent
566		Water Resistance test at 80oC/5 days, 80Xd	Qualitative	ORM GR.No TEC 89010 : Section – II	Permanent
567		Thickness of Ethylene Acrylic acid counting over FRP Rod (um)	Upto 5000 µm	TEC 89010: Section – II	Permanent
568	Optical fibre cable (OFC) Fibre distribution management systems (FDMS) Fibre termination &	Absorption coefficient @375nm	Upto 700 kAB/m	TEC 85170 TEC 89010 TEC 85260 ASTM D-3349	Permanent
569	Distribution Box Spice closure And other insulating materials	Brittleness Temperature % fall@-76 oC	Qualitative	TEC 85170 TEC 89010 TEC 85260 ASTM D-746	Permanent
570	Optical fibre cable (OFC) Fibre distribution management systems (FDMS) Fibre termination & Distribution Box Spice closure And other insulating materials	Anti Termite & Anti Rodent Test	Qualitative	85240 /ATCC/SOP-01	Permanent
571	Optical fibre cable (OFC) Fibre distribution	Non toxicity	Qualitative	TEC 85170 TEC 89010 TEC 85260	Permanent
572		Thermal Stability	Qualitative		Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
573	management systems (FDMS)	Long life Span/half life	Qualitative		Permanent
574	Fibre termination & Distribution Box	Compatibility	Qualitative		Permanent
575	Spice closure And other insulating materials	Efficacy	Qualitative		Permanent
576	Standard test method for liquid-contaminant of insulating materials	Tracking and erosion Test	Upto 20 mm	ASTM D2303	Permanent
577	Test method for rubber	Hydrolytic Stability	Qualitative	ASTM D3137-81	Permanent
578	Nonmetallic materials	UV exposure of nonmetallic materials	Qualitative	ASTM G154	Permanent
579	Insulating materials	Determination of toxicity index of the products of combustion from small specimens of materials.	Qualitative	NES 713/NCD 1409	Permanent
580	Generic specification-Basic	Water penetration test	Qualitative	Method F5 of IEC 60794-1-22	Permanent
581	optical cable test procedures	Cable UV Resistance test	Qualitative	Method F14 of IEC 60794-1-22	Permanent
<b>Discipline - Electrical, Group: - Insulating materials</b>					
582	Insulating mats for electrical purposes-	Dimensions	Up to 15000 mm	Cl.6.2 of IS: 15652 +A2 (Reaffirmed)	Permanent
583	Specification	Thickness	Up to 150 mm	Cl.6.3 of IS: 15652 +A2 (Reaffirmed)	Permanent
584		Tensile strength and Elongation at break	Up to 200 N/mm <sup>2</sup> Up to 800 %	Cl.8.1 of IS: 15652 +A2 (Reaffirmed)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
585		Insulation resistance	1 - 100x10 <sup>6</sup> MΩ	Cl.8.2.1 of IS: 15652 +A2 (Reaffirmed)	Permanent
586		Leakage current	Up to 200 kV	Cl.8.2.2 of IS: 15652 +A2 (Reaffirmed)	Permanent
587		AC. di-electric strength	Up to 200 kV	Cl.8.2.3 of IS: 15652 +A2 (Reaffirmed)	Permanent
588		AC. proof voltage	Up to 200 kV	Cl.8.2.4 of IS: 15652 +A2 (Reaffirmed)	Permanent
589		Ageing properties	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.8.3 of IS: 15652 +A2 (Reaffirmed)	Permanent
590		Thermal properties (Flame retardance)	Up to 600 mm	Cl.8.4.1 of IS: 15652 +A2 (Reaffirmed)	Permanent
591		Low temperature resistance	Qualitative Up to 200 kV	Cl.8.4.2 of IS: 15652 +A2 (Reaffirmed)	Permanent
592		Acid/alkalis and oil resistance	Up to 500N/mm <sup>2</sup> Up to 1500%	Cl.8.5 of IS: 15652 +A2 (Reaffirmed)	Permanent
593		Extreme low temperature	Qualitative Up to 200 kV	Annex C-7 of IS: 15652 +A2 (Reaffirmed)	Permanent

#### Discipline - Electrical, Group - Conductor and conducting materials

594	Aluminium conductors for overhead	Measurement of diameter individual aluminium wire	Up to 25 mm	Cl.12.1, Table -1 of IS 398 (Pt 1) (Reaffirmed) with amendment No.1	Permanent
595	transmission purposes	Breaking load test of individual Aluminum wire	Up to 50 kN	Cl.12.3, Table -1 of IS 398 (Pt 1) (Reaffirmed) with amendment No.1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
596	Aluminium stranded conductors	Wrapping test	Qualitative	Cl.12.4, Table -1 of IS 398 (Pt 1) (Reaffirmed) with amendment No.1	Permanent
597		Resistance test	Up to 100 ohm/km	Cl.12.5, Table -1 of IS 398 (Pt 1) (Reaffirmed) with amendment No.1	Permanent
598		Measurement of lay ratio	Up to 600 mm	Cl.12.6, Table -1 of IS 398 (Pt 1) (Reaffirmed) with amendment No.1	Permanent
599		Freedom from defects	Qualitative	Cl.6 of IS 398 (Pt 1) (Reaffirmed) with amendment No.1	Permanent
600		Stranding	Qualitative	Cl.9.3 of IS 398 (Pt 1) (Reaffirmed) with amendment No.1	Permanent
601	Aluminium conductors for overhead transmission purposes Aluminium conductors, galvanized steel - reinforced	Surface condition test	Up to 500 kN	Cl. 13.13 of IS 398 - Part 2	Permanent
602		Ultimate tensile strength test on stranded conductor	Up to 500 kN	Cl. 13.14 of IS 398 - Part 2	Permanent
603		Measurement of diameter of individual aluminium and steel wires	Up to 25 mm	Cl. 13.4 of IS 398 - Part 2	Permanent
604		Measurement of lay ratio	Up to 600 mm	Cl. 13.5 of IS 398 - Part 2	Permanent
605		Breaking test of individual wires	Up to 50 kN	Cl. 13.6 of IS 398 - Part 2	Permanent
606		Ductility test (Torsion test)	Up to 999999Turns	Cl. 13.7.1 of IS 398 - Part 2	Permanent
607		Ductility test (Elongation)	Up to 50 %	Cl. 13.7.2 of IS 398 - Part 2	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
608		Aluminium wires Procedure qualification test on welded joint of aluminium strands	Qualitative	Cl. 13.11 of IS 398 - Part 2	Permanent
609		Wrapping test	Qualitative	Cl. 13.8 of IS 398 - Part 2	Permanent
610		Resistance test	Up to 100 ohm/km	Cl. 13.9 of IS 398 - Part 2	Permanent
611		d.c. Resistance test on stranded conductor	Up to 100 ohm/km	Cl. 13.12 of IS 398 - Part 2	Permanent
612		Galvanizing test a. uniformity of zinc coating b. weight of zinc coating	Qualitative  Up to 500 g/m <sup>2</sup>	Cl. 13.10 of IS 398 - Part 2 IS 4826 IS:10810(Pt 40) IS: 10810 (Pt 41) (Reaffirmed)	Permanent
613	Aluminium conductors for overhead transmission purposes	Measurement of diameter of individual aluminium and aluminized steel wires	Up to 25 mm	Cl. 2.2 Cl. 7.1.1 (Table 1 & 2) of IS 398 (Pt-III) (Reaffirmed) with amendments No. 1,2 & 3	Permanent
614	Aluminium conductors, aluminized steel - reinforced	Measurement of lay ratio	Up to 600 mm	Cl. 2.4 Cl. 9.2 ,9.3 (Table 4) of IS 398 (Pt-III) (Reaffirmed) with amendments No. 1,2 & 3	Permanent
615		Breaking test of individual wires	Up to 50 kN	Cl.12.2 Cl. 12.2.1 (Table 1 & 2) of IS 398 (Pt-III) (Reaffirmed) with amendments No. 1,2 & 3	Permanent
616		Ductility test (Torsion test)	Up to 999999Turns	Cl.12.3 Cl. 12.3.1 of IS 398 (Pt-III) (Reaffirmed) with	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				amendments No. 1,2 & 3	
617		Ductility test (Elongation)	Up to 50 %	Cl.12.3 Cl. 12.3.2 of IS 398 (Pt-III) (Reaffirmed) with amendments No. 1,2 & 3	Permanent
618		Wrapping test	Qualitative	Cl.12.4 Cl. 12.4.1 ,12.4.2 of IS 398 (Pt-III) (Reaffirmed) with amendments No. 1,2 & 3	Permanent
619		Resistance test	Up to 100 ohm/km	Cl.12.5 Cl. 12.4 (Table 1) of 398 (Pt.III)(Reaffirmed) with amendments No. 1,2 & 3	Permanent
620		Aluminized test a. Mass of coating b. Continuity of coating	Up to 500 g/m <sup>2</sup>  Qualitative	12.6 of IS 398 (Pt.III) IS 383 (Reaffirmed) with amendments No. 1,2 & 3	Permanent
621	Aluminium conductors for overhead	Measurement of diameter individual aluminium alloy wires	Up to 25 mm	Cl. 6.1 table-1 of IS: 398 (Pt-4) (Reaffirmed) with amendment No 1	Permanent
622	transmission purposes Aluminium Alloy Stranded conductors	Breaking load of individual aluminium alloy wires	Up to 50 kN	Cl.12.2 table-1of IS 398 (Pt-4) (Reaffirmed) with amendment No 1	Permanent
623		Elongation test of individual aluminium alloy wires	Up to 50 %	Cl.12.3 table-1of IS 398 (Pt-4) (Reaffirmed) with amendment No 1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
624		Resistance test of individual aluminium alloy wires	Up to 100 ohm/km	Cl.12.4 table-1 of IS 398 (Pt-4)(Reaffirmed) with amendment No 1	Permanent
625		Measurement of lay ratio	Up to 600 mm	Cl.9.2 table-3 of IS 398 (Pt-4) (Reaffirmed) with amendment No 1	Permanent
626	IS: 398 (Pt.6) Aluminium Conductors For Overhead Transmission Purposes Part 6: High conductivity aluminium alloy stranded conductor	Visual examination	Qualitative	Cl.16.2 of IS 398 (Part-6) with amendments No. 1	Permanent
627		Measurement of diameter of individual aluminium and steel wires	Up to 25 mm	Cl.16.4 of IS 398 (Part-6) with amendments No. 1	Permanent
628		Measurement of lay ratio of each layer	Up to 600 mm	Cl.16.3 of IS 398 (Part-6) with amendments No. 1	Permanent
629		Breaking test	Up to 500 kN	Cl.16.5 of IS 398 (Part-6) with amendments No. 1	Permanent
630		Elongation Test	Up to 100 %	Cl.16.6 of IS 398 (Part-6) with amendments No. 1	Permanent
631		Wrapping test	. Qualitative	Cl.16.8 of IS 398 (Part-6) with amendments No. 1	Permanent
632		Resistivity Test	Up to $20 \times 10^{-6}$ ohm-cm	Cl.16.7 of IS 398 (Part-6) with amendments No. 1	Permanent
633		Ultimate Tensile Strength on Stranded Conductor)	Up to 500 kN	Cl.16.9 of IS 398 (Part-6) with amendments No. 1	Permanent
634		d.c. Resistance Test on Stranded Conductor	Up to 100 ohm/km	Cl.16.10 of IS 398 (Part-6) with amendments No. 1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
635		Stress-strain Test	Up to 500 kN	Cl.16.11 of IS 398 (Part-6) with amendments No. 1	Permanent
636	Galvanized strand for earthing	Measurement of diameter of wires	Up to 25mm	Cl.6, Annexure A of IS: 12776: (Reaffirmed)	Permanent
637		Breaking force of galvanized earth strand	Up to 1000 kN	Cl.8.1 of IS: 12776: (Reaffirmed)	Permanent
638		Tensile strength	Up to 2500 N/mm <sup>2</sup>	Cl.8.7 of IS: 12776: (Reaffirmed)	Permanent
639		Elongation	Up to 20 %	Cl.8.2 of IS: 12776: (Reaffirmed)	Permanent
640		D.C. Resistance of Galvanized earth strand	Up to 100 Ω/km	Cl.8.3 of IS: 12776: (Reaffirmed) IS :10810 (Pt.5) (Reaffirmed)	Permanent
641		Wrapping test	Qualitative	Cl.8.4 of IS: 12776: (Reaffirmed) IS : 10810 (Pt.3) (Reaffirmed)	Permanent
642		Torsion test	Up to 999999 Turns	Cl.8.6 of IS: 12776: (Reaffirmed) IS: 10810 (Pt 38) (Reaffirmed)	Permanent
643		Galvanizing test a. uniformity of zinc coating b. weight of zinc coating	Qualitative Up to 500 g/m <sup>2</sup>	Cl.8.6 of IS: 12776: (Reaffirmed) IS: 10810 (Pt 40) (Reaffirmed) IS: 10810 (Pt 41) (Reaffirmed)	Permanent
644		Lay length of galvanized earth strand	Up to 1000 mm	Cl.6, Annexure A of IS: 12776: (Reaffirmed)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
645	Hot Dip Galvanized Stay Strand	Measurement of diameter of wires and Strand	Up to 150 mm	Cl.8.2, Table 2 of IS: 2141 (Reaffirmed) with amendments No. 1	Permanent
646		Breaking force of single wire	Up to 45 kN	Cl.6.2 , Annex B of IS: 2141 (Reaffirmed) with amendments No. 1	Permanent
647		Breaking force of galvanized stay strand	Up to 1000 kN	Cl.6.2 , Annex B of IS: 2141 (Reaffirmed) with amendments No. 1	Permanent
648		Tensile strength	Up to 2500 N/mm <sup>2</sup>	Cl.9.1 of IS: 2141 (Reaffirmed)	Permanent
649		Elongation	Up to 20 %	Cl.9.1 of IS:2141 (Reaffirmed) with amendments No. 1	Permanent
650		Ductility test (Wrapping test)	Qualitative	Cl.8.1 of IS: 2141 (Reaffirmed) with amendments No. 1	Permanent
651		Galvanizing test a. uniformity of zinc coating b. weight of zinc coating	Qualitative  Up to 500 g/m <sup>2</sup>	Cl.9.2 of IS :2141 (Reaffirmed) with amendments No. 1 IS: 10810 (Pt 40 (Reaffirmed) IS: 10810 (Pt 41 (Reaffirmed)	Permanent
652		Lay length of galvanized stay strand	Up to 1000 mm	Cl.6.1 of IS: 2141 (Reaffirmed) with amendments No. 1	Permanent
653	Covered conductors for overhead lines and related accessories for rated voltages above 1kV	Conductor Resistance test	Up to 100 Ω/km	Cl. 4.2.1 of EN 50397-1 & HD 605	Permanent
654		High Voltage test	Up to 35 kV	Sub Cl. 3.2.2.2 of EN 50397-1 & HD 605	Permanent
655		Leakage current (test voltage a.c.)	Up to 5 mA	Annex B of EN 50397-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
656	a.c. and not exceeding 36 kV a.c	Tracking resistance	Up to 35 kV	Annex C of EN 50397-1	Permanent
657		Measurement of dimensions	Up to 150 mm	Sub Cl. 4.2 of EN 50397-1 & EN 60811-1-1	Permanent
658		Thickness of covering	Up to 150 mm	Sub Cl. 4.2.3 of EN 50397-1 & Sub Cl. 8.1 of EN 60811-1-1	Permanent
659		Tensile strength of conductor	Up to 1000 kN Up to 2500 N/mm <sup>2</sup>	Cl. 4.2.1 of EN 50397-1 & EN 50182	Permanent
660		Tensile strength & Elongation at break of covering	Up to 200 N/mm <sup>2</sup> Up to 800 %	Sub Cl. 4.2.3 of EN 50397-1 & Sub Cl. 9.1 of EN 60811-1-1	Permanent
661		Ageing in air oven	Up to 200 N/mm <sup>2</sup> Up to 800 %	Sub Cl. 4.2.3 of EN 50397-1 & Sub Cl. 8.1 of EN 60811-1-2	Permanent
662		Carbon black content	Up to 20 %	Sub Cl. 4.2.3 of EN 50397-1 & Cl. 11 of EN 60811-4-1	Permanent
663		Resistance to UV rays	Up to 200 N/mm <sup>2</sup> 0 to 800%	EN 50397-1 & Sub Cl. 2.4.23 of HD 605 S1:1994/A2	Permanent
664		Compatibility test	Up to 200 N/mm <sup>2</sup> Up to 800 %	Sub Cl. 4.2.3 of EN 50397-1 & Sub Cl. 8.1.4 of EN 60811-1-2	Permanent
665		Shrinkage test	Up to 50 %	Sub Cl. 4.2.3 of EN 50397-1 & Cl. 10 of EN 60811-1-3	Permanent
666		Hot Set Test	Up to 400 %	Sub Cl. 4.2.3 of EN 50397-1 & Cl. 9 of EN 60811-2-1	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
667		Pressure test at high temperature	Up to 80 %	Sub Cl. 4.2.3 of EN 50397-1 & Sub Cl. 8.1 of EN 60811-3-1	Permanent
668		Water Absorption	Up to 20 mg/cm <sup>2</sup>	Sub Cl. 4.2.3 of EN 50397-1 & Sub Cl. 9.2 of EN 60811-1-3	Permanent
669		Shore D hardness	Qualitative	Sub Cl. 4.2.3 of EN 50397-1 & Sub Cl. 2.2.1 of HD 605	Permanent
670		Test for longitudinal water tightness test	Qualitative	EN 50397-1 & Annex F of IEC 60502-2	Permanent
671		Content legibility (visual inspection)	Qualitative	Cl. 5 of EN 50397-1	Permanent
672		Durability	Qualitative	Sub Cl. 5.4 of EN 50397-1 & Sub Cl. 2.5.4 of HD 605	Permanent
673		Slippage test	Up to 50000 N	Annex D of EN 50397-1	Permanent

**Discipline :- Electrical Group :- Cells and batteries**

674	Stationary Cells And Batteries, Lead-Acid Type (With Tubular Positive Plates)	Marking and packing	Qualitative	Cl.8.1 & 8.2 of IS 1651 (Reaffirmed)	Permanent
675		Verification of dimension	Up to 5000 mm	Cl.12.4 of IS 1651(Reaffirmed)	Permanent
676		Test for capacity	Up to 200 AH	Cl.12.5 of IS 1651 (Reaffirmed)	Permanent
677		Test for voltage during discharge	Upto 60V	Cl.12.10 of IS 1651 (Reaffirmed)	Permanent

**Discipline - Chemical, Group:- Metals and its alloy**

678	Stainless-steel tape	Carbon, %	Upto 1.2 %	RDSO specification No.RDSO/SPN/TC/110/	Permanent
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**Address:**

45/7, Village Prahaladpur Bangar, Rohini sector-30, Near  
Kali Mata Mandir, New Delhi -110042, Delhi

**Certificate No.:**

T-0029

**Issue date** : 30.12.2025

**Validity** : 29.12.2029

**Amendment date:** N/A

Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
				2020 Revision-0 Table 1 of ASTM A 240	
679		Manganese, %	Upto 12 %	RDSO specification No.RDSO/SPN/TC/110/ 2020 Revision-0 Table 1 of ASTM A 240	Permanent
680		Phosphorous, %	Upto 0.045 %	RDSO specification No.RDSO/SPN/TC/110/ 2020 Revision-0 Table 1 of ASTM A 240	Permanent
681		Sulphur, %	Upto 0.03 %	RDSO specification No.RDSO/SPN/TC/110/ 2020 Revision-0 Table 1 of ASTM A 240	Permanent
682		Chromium, %	Upto 20 %	RDSO specification No.RDSO/SPN/TC/110/ 2020 Revision-0 Table 1 of ASTM A 240	Permanent
683		Nickle, %	Upto 10.5 %	RDSO specification No.RDSO/SPN/TC/110/ 2020 Revision-0 Table 1 of ASTM A 240	Permanent
684		Silicon, %	Upto 0.75 %	RDSO specification No.RDSO/SPN/TC/110/ 2020 Revision- Table 1 of ASTM A 240	Permanent
685		Nitrogen, %	Upto 0.10 %	RDSO specification No.RDSO/SPN/TC/110/ 2020 Revision-0 Table 1 of ASTM A 240	Permanent
686	ECCS Tape	Carbon, %	Upto 1.2 %	TEC 85170 & TEC 89010 A.623-77 Type MR	Permanent



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**Amendment date:** N/A

Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
687		Manganese, %	Upto 12 %	TEC 85170 & TEC 89010 A.623-77 Type MR	Permanent
688		Phosphorous, %	Upto 0.045 %	TEC 85170 & TEC 89010 A.623-77 Type MR	Permanent
689		Sulphur, %	Upto 0.03 %	TEC 85170 & TEC 89010 A.623-77 Type MR	Permanent
690		Silicon, %	Upto 20 %	TEC 85170 & TEC 89010 A.623-77 Type MR	Permanent
691		Nitrogen, %	Upto 10.5 %	TEC 85170 & TEC 89010 A.623-77 Type MR	Permanent
692		Copper, %	Upto 0.75 %	TEC 85170 & TEC 89010 A.623-77 Type MR	Permanent
693	Copper	Copper purity Test (Copper +silver, % by mass)	Upto 100 %	Cl. 7.1 & Table-4 of IS 191 (Reaffirmed:) IS 440	Permanent
694		Copper purity Test (Bismuth %)	Upto 0.005 %	Cl. 7.1 & Table-4 of IS 191 (Reaffirmed:) IS 440	Permanent
695		Copper purity Test (Lead, % by mass)	Upto 0.008 %	Cl. 7.1 & Table-4 of IS 191 (Reaffirmed:) IS 440	Permanent
696		Copper purity Test (Oxygen, % by mass)	Upto 0.089 %	Cl. 7.1 & Table-4 of IS 191 (Reaffirmed:) IS 440	Permanent
697		Total of all impurities excluding silver & oxygen, % by mass	Upto 0.067 %	Cl. 7.1 & Table-4 of IS 191 (Reaffirmed:) IS 440	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Method/ Technique	Facility
Discipline - Mechanical, Group:- Plastic and plastic material					
698	Material for base & dome of splice closure	Resistance to chemical agents	Qualitative	TEC 87080 & (Annexure I point no.(c))	Permanent
699		Visual Examination	Qualitative	TEC 87080 & (Annexure I point no.(f))	Permanent
700		Rockwell	Qualitative	TEC 87080 & &3.1 (b) of GR	Permanent
701	ABS Material for splice closure	Specific gravity	Upto 5 gm/cc	TEC 87080 & (Cl.3.6 & Annexure II of GR)	Permanent
702		Tensile strength	Upto 50 kg/sq.mm	TEC 87080 & (Cl.3.6 & Annexure II of GR)	Permanent
703		Elongation	Upto 100 %	TEC 87080 & (Cl.3.6 & Annexure II of GR)	Permanent
704		Water absorption	Upto 100 %	TEC 87080 & (Cl.3.6 & Annexure II of GR)	Permanent
705		Rockwell hardness	Qualitative	TEC 87080 & (Cl.3.6 & Annexure II of GR)	Permanent
Discipline Chemical, Group:- Paper and Pulp (Other)					
706	Wood product	Moisture	Up to 80 %	Cl.3.1 of TEC 69370 IS 1708 (P-1)	Permanent
707		Identification of wood	Qualitative	Cl.3.2 of TEC 6937	Permanent
708		Preservatives content in wood (CCA) (Sodium dichromate)	Upto 20 Kg/m³	Cl.3.6 of TEC 6937 Table 2 of IS 40	Permanent
709		Preservatives content in wood (CCA) (Copper Sulphate)	Upto 20 Kg/m³	Cl.3.6 of TEC 6937 Table 2 of IS 401	Permanent
710		Preservatives content in wood (CCA) (Arsenic Pen)	Upto 20 Kg/m³	Cl.3.6 of TEC 69370 Table 2 of IS 401	Permanent



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