



### Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

**CAB Name:**

Amit test and Calibration Centre

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**Address:**

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

**Issue date** : 30.12.2025

**Validity** : 29.12.2029

**Certificate No.:**

T-0029

**Amendment date:** 01.04.2026

Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
Discipline : Electrical, Group: Transmission line equipment and accessories					
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



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16	Metal Fittings Of Insulators For Overhead Power Lines With Nominal Voltage Greater Than 1000 V	Visual examination	Qualitative	Cl.5, Cl.6 of IS 2486 (Part 1)(Reaffirmed)	Permanent
17		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 Insulators of Ceramic Material or Glass for Systems with Nominal Voltages Greater Than 1000 V	Dry Lightning Impulse Withstand Voltage Test	Upto 500 kV	Cl.4.5 of IS/IEC 60168 (Refer IEC 60060-1)	Permanent
27		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



This is annexure to 'Certificate of Accreditation' and does not require any signature

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

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29		Visible Corona Test	Upto 200 kV	Cl. 10.2 of IS 731: [RA] +A7	Permanent
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





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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
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





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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 Alternating Current Disconnecter and Earthing Switches]	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
59		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 Switch for rated voltages above 1 kV up to and including 52 kV]	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		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	Permanent



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67		Resistance Measurement	Upto 10000 $\mu$ ohm	(Refer Cl.7.2.7.3 of IS/IEC 62271 -1+A1) Cl.7.4 of IS/IEC 62271-103 (Refer Cl.8.4 of IS/IEC 62271-1+A1)	Permanent
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





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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
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
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



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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 (suitable for Non-ribbon fibre splicing)	Thermal Ageing Test	(up to 100°C)	CI 4.11 of TEC GR No.: 87080	Permanent
97		Corrosion – Salt Test	(up to 40°C)	Test No.9 of QM-333	Permanent
98		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)	CI.4.16 of TEC GR No.: 87080	Permanent
101		Environmental cycle	(-20 to 60°C)	CI.4.12 of TEC GR No.: 87080	Permanent
102		Aggressive media Test	(up to 0.5 Kg/cm <sup>2</sup> )	CI.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	



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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 up to and including 1100 Volts.	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
112		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





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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
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	Permanent



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124	PVC insulated (heavy duty) Electric cables for working voltage up to and including 1100 Volts.	Loss of mass test	Up to 100 mg/cm <sup>2</sup>	IS:10810 (Pt 7) (Reaffirmed) 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 IS:10810 (Pt 11) (Reaffirmed)	Permanent
126		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





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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
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
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) (Reaffirmed) IS:1554 (Part-1)	Permanent



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				(Reaffirmed) +A5 IS:10810 (Pt 20) (Reaffirmed)	
137		Cold Impact Test	Qualitative	CI 15.4 (a) of IS:1554 (Part-1) (Reaffirmed) +A5 IS:10810 (Pt 21) (Reaffirmed)	Permanent
138		Oxygen Index Test	21 % to 80%	CI.16.5 of IS:1554 (Part-1) (Reaffirmed) +A5 IS:10810 (Pt 58) (Reaffirmed) ASTM D 2863-09	Permanent
139		Flame Retardance Test on Single Cable	Up to 1000mm	CI.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%	CI.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	CI.16.10 of IS:1554 (Part-1) (Reaffirmed) +A5 IS:10810 (Pt -64) (Reaffirmed) ASTM D 2863-09	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
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
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



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
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
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





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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
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 IS : 10810 (Pt.23) (Reaffirmed)	Permanent
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	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
162		Insulation resistance (Volume Resistivity)	1 - 100x10 <sup>17</sup> Ω-cm	IS: 10810 (Pt 6) (Reaffirmed) 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
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	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
170		Overall dimensions and Thickness of Insulation / Sheath	0.01mm - 150 mm	IS 10810 (Pt -4) (Reaffirmed) 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
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	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
178		Cold Bend Test	Qualitative	IS:10810 (Pt 60)- (Reaffirmed) 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
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	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
185		High voltage Test (AC)	0.01kV-35 kV	IS 13360(Part 6/sec 9) ASTM D 2843 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 IS:10810 (Pt 43) (Reaffirmed)	Permanent
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)	Permanent





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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
193		Wrapping test for Aluminium Conductor	Qualitative	IS:10810 (Pt 2) (Reaffirmed) 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
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)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
201		Resistivity & Conductance test of Armour (Wires/strips)	Up to 20 x10 <sup>-6</sup> ohm-cm	IS:10810 (Pt 41) (Reaffirmed) 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
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)	Permanent





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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
209		Ageing in air oven	Up to 500N/mm <sup>2</sup> Up to 1500%	IS:10810 (Pt 7) (Reaffirmed) 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
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)	Permanent



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217		Flammability test	Up to 600mm	IS:10810 (Pt 45) (Reaffirmed) 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
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) -	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
224		Temperature Index Test	Amb. to 500°C	(Reaffirmed)+A1 IEC 60754- 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) IS:10810 (Pt -63)- (Reaffirmed)	Permanent
228		pH	0 to 14 pH	Cl.17.10 of IS: 7098 (Pt-1)	Permanent
229		Conductivity	0 to 50 µs/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	Permanent





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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
232		Thickness of Covering	0.01mm - 150 mm	IS:10810 (Pt 5) (Reaffirmed) 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 IS: 10810 (Pt.31) (Reaffirmed)	Permanent
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	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
240		Flammability test	Up to 600mm	IS :10810 (Pt.54) (Reaffirmed) CI.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
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	CI.5.13 of IS 17048 +A1	Permanent
249		Insulation resistance	1 – 100 x 106 MΩ	Table 2 of IS 17048 +A1 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	Standard specifications/ Equipment/Techniques used	Facility
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
257		pH	0 to 14 pH	Cl.5.7 & Annex D of IS 17048 +A1	Permanent
258		Conductivity	0 to 50 µs/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



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
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 IS 10810 (Pt 1) (Reaffirmed)	Permanent
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



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
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 IS 10810 (Pt 14) (Reaffirmed)	Permanent
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



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
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 general wiring cables)	Amb. - 3000C	Cl.20 of IS 2465 (Reaffirmed)+A1	Permanent
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



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
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
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



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
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 IS 10810 (Pt 11) (Reaffirmed)	Permanent
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	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
302		Ageing in air bomb for sheath	Up to 500N/mm <sup>2</sup> Up to 1500%	IS 10810 (Pt.30) (Reaffirmed) 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
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



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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) (Reaffirme)	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
313	Fixed Installation having Low Emission of Smoke and Corrosive Gases when Affected by Fire for Working Voltages upto and	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



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315	including 1100 Vac and 1500 Vdc	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 IS 10810 (Pt-63) Reaffirmed)	Permanent
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	Permanent



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324		Water immersion test (effect of water on sheath)	Up to 200 N/mm <sup>2</sup> Up to 800 %	IS 10810 (Pt-43) Reaffirmed 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 for rated voltage 1500 d.c.	Conductor Resistance	0.0100 to 1000 ohm/km	IS 17293 Table -3
330	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
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





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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
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
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	



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
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
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	Annealing test for copper Conductor	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	Standard specifications/ Equipment/Techniques used	Facility
362	cables for working voltage from 3.3 kV up to and including 11kV.	Tensile strength for Aluminium Conductor	Up to 500N/mm <sup>2</sup>	IS:10810 (Pt 1 (Reaffirmed) 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 IS:10810 (Pt 38 (Reaffirmed))	Permanent
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	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
370		Mass of Zinc coating	Up to 500 gm/ m <sup>2</sup>	IS:10810 (Pt 40 (Reaffirmed) 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 IS:10810 (Pt 11 (Reaffirmed)	Permanent
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	Permanent





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378		Hot deformation test	Up to 90%	IS:10810 (Pt 14 (Reaffirmed) 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 IS:10810 (Pt 53 (Reaffirmed)	Permanent
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	Permanent





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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
386		Armour Resistance Test	0.0100 to 1000 ohm/km	IS:10810 (Pt 21) (Reaffirmed) 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)- (Reaffirme) 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 IS:10810(Pt-59) - (Reaffirmed) IEC 60754-1	Permanent
391		Smoke Density	Up to 90%	Cl.18.1 of IS:1554 Part-2) (Reaffirmed)+A4 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	Standard specifications/ Equipment/Techniques used	Facility
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 Insulated Thermo Plastic sheathed cables for working voltages from	Annealing test for copper Conductor	Up to 50%	Cl.19.1 of IS:7098 (Part-2) (Reaffirmed)+A2 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	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	3.3 kV up to & including 33 kV			IS:10810 (Pt 2) (Reaffirmed)	
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 IS:10810 (Pt 40) (Reaffirmed)	Permanent
407		Mass of Zinc coating	Up to 500 gm/ m <sup>2</sup>	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	Standard specifications/ Equipment/Techniques used	Facility
408		Resistivity & Conductance test of Armour (Wires/strips)	Up to 20 x10 <sup>6</sup> ohm-cm	IS:10810 (Pt 41 (Reaffirmed) 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 IS:10810 (Pt 12 (Reaffirmed)	Permanent
415		Heat shock test	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	Standard specifications/ Equipment/Techniques used	Facility
416		Hot deformation test	Up to 90%	IS:10810 (Pt 14 (Reaffirmed) 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
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



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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
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



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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 IS 10810(Pt32) (Reaffirmed)	Permanent
439	Cross Linked Polyethylene	Annealing test for copper Conductor	Up to 50%	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	Standard specifications/ Equipment/Techniques used	Facility
440	Insulated Thermo Plastic sheathed cables for working voltages up to 66 KV only	Conductor resistance	0.0100 to 1000 ohm/km	IS:10810 (Pt 1 (Reaffirmed) 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
447		Loss of mass test	Up to 100 mg/cm <sup>2</sup>	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	Standard specifications/ Equipment/Techniques used	Facility
448		Ageing in air oven	Up to 500N/mm <sup>2</sup> Up to 1500%	IS:10810 (Pt 10) (Reaffirmed) CI.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS:10810 (Pt 11) (Reaffirmed)	Permanent
449		Hot Set Test	Up to 200%	CI.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS 10810 (Pt 30) (Reaffirmed)	Permanent
450		Shrinkage test	Up to 50%	CI.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS:10810 (Pt 12) (Reaffirmed)	Permanent
451		Heat shock test	Qualitative	CI.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS:10810 (Pt 14) (Reaffirmed)	Permanent
452		Hot deformation test	Up to 90%	CI.19.1 of IS:7098 (Part-3) (Reaffirmed)+A4 IS:10810 (Pt 15) (Reaffirmed)	Permanent
453		Thermal Stability (for sheath)	Up to 500 minutes	CI.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%	CI.20.9 of IS:7098 (Part-3) (Reaffirmed)+A4	Permanent
455		Flammability test (for PVC sheathed cable)	Up to 600mm	CI.19.1 of IS:7098 (Part-3) (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	Standard specifications/ Equipment/Techniques used	Facility
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 x10 <sup>4</sup> 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	Standard specifications/ Equipment/Techniques used	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	Standard specifications/ Equipment/Techniques used	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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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	Standard specifications/ Equipment/Techniques used	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	Standard specifications/ Equipment/Techniques used	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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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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513		Test for thickness of insulation and sheath and overall diameter	0.01mm - 150 mm	IS:10810 (Pt 42 (Reaffirmed) 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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521		Insulation resistance	1 – 100 x10 <sup>6</sup> MΩ	IS: 10810 (Pt.13) (Reaffirmed) 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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529		Heating Cycle Test	Qualitative	IS 10810(Pt48) (Reaffirmed) Table 33 of IS: 14494 (Reaffirmed) IS 10810(Pt49) (Reaffirmed)	Permanent
530		Electrical test on semi conducting screen	Qualitative	Annexure E of IS: 14494 (Reaffirme)	Permanent
531		Test on Extrudedsemi conducting screens Volume Resistivity	Others: up to 1000 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)
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



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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
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



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility	
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	
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	



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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
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 & Distribution Box	Absorption coefficient @375nm	Upto 700 kAB/m	TEC 85170 TEC 89010 TEC 85260 ASTM D-3349	Permanent
569	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	Anti Termite & Anti Rodent Test	Qualitative	85240 /ATCC/SOP-01	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	Spice closure And other insulating materials				
571	Optical fibre cable (OFC)	Non toxicity	Qualitative	TEC 85170 TEC 89010 TEC 85260	Permanent
572	Fibre distribution management systems (FDMS)	Thermal Stability	Qualitative		Permanent
573	Fibre termination & Distribution Box	Long life Span/half life	Qualitative		Permanent
574		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
582		Visual and Mechanical Inspection	Qualitative	Cl. 13.1 of JSS 6015-01	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
583	GENERAL SPECIFICATION For Cables, Fibre Optic	Attenuation	0.1 db/km to 26 db/km	Cl. 13.2 of JSS 6015-01	Permanent
584		Temperature Cycling	-40 °C to 50 °C 0.1 db/km to 26 db/km	Cl. 13.3 of JSS 6015-01	Permanent
585		Damp Heat (Moisture Resistance)	Qualitative	Cl. 13.4 of JSS 6015-01 (refer JSS50101)	Permanent
586		Storage Temperature	-40 °C to 50 °C	Cl. 13.5 of JSS 6015-01	Permanent
587		Cold Bend	-40 °C to 50 °C	Cl. 13.6, Appx C of JSS 6015-01	Permanent
588		Cyclic Flexing	-40 °C to 50 °C	Cl. 13.7, Appx D of JSS 6015-01	Permanent
589		Crush	0.1 db/km to 26 db/km	Cl. 13.8, Appx E of JSS 6015-01	Permanent
590		Cable Twist bending	0.1 db/km to 26 db/km	Cl. 13.9, Appx F of JSS 6015-01	Permanent
591		Impact	0.1 db/km to 26 db/km	Cl. 13.10 Appx G of JSS 6015-01	Permanent
592		Air Pressure (Low)	0.1 db/km to 26 db/km	Cl. 13.11 of JSS 6015-01 (refer Cl. 2 of JSS 50101)	Permanent
593		Life	0.1 db/km to 26 db/km	Cl. 13.12, Appx H of JSS 6015-01	Permanent
594		Tensile Loading and Elongation	0.1 db/km to 26 db/km	Cl. 13.13, Appx I of JSS 6015-01	Permanent
595		Operating Tensile load	0.1 db/km to 26 db/km	Cl. 13.14, Appx I of JSS 6015-01	Permanent
596	Ice Crush	0.1 db/km to 26 db/km	Cl. 13.15, Appx J, Method A of JSS 6015-01	Permanent	



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597		Fungus	Qualitative	Cl. 13.16, Appx k of JSS 6015-01	Permanent
598		Knot	0.1 db/km to 26 db/km	Cl. 13.17, Appx L of JSS 6015-01	Permanent
599		Cable Element Removability	Qualitative	Cl. 13.18 of JSS 6015-01	Permanent
600		Flammability	1 mm to 1000 mm	Cl. 13.19 of JSS 6015-01	Permanent
601		Weathering	2 % to 400 %	Cl. 13.20 of JSS 6015-01 (refer ASTM-D-2565)	Permanent
602		Fluid Immersion	Qualitative	Cl. 13.21, Appx M of JSS 6015-01	Permanent
603		Paint Susceptibility	Qualitative	Cl. 13.22 of JSS 6015-01	Permanent
604		Jacket self-adhesion or blocking	Qualitative	Cl. 13.23, Appx N of JSS 6015-01	Permanent
605		Impact (shock)	0.1 db/km to 26 db/km	Cl. 13.24 of JSS 6015 (Refer Cl. 12 of JSS 50101)	Permanent
606		Dynamic Bend	0.1 db/km to 26 db/km	Cl. 13.25 of JSS 6015-01	Permanent
607		Hosing (Low pressure) (Hydrostatic)	1 mm to 150 mm	Cl. 13.26 of JSS 6015 (Refer ASTM-D-1141)	Permanent
608		Radial Compression	0.1 db/km to 26 db/km	Cl. 13.27 of JSS 6015-01	Permanent
609		Pressure cycling	0.1 db/km to 26 db/km	Cl. 13.28 of JSS 6015-01	Permanent
610		Corner Bend	0.1 db/km to 26 db/km	Cl. 13.29, Appx O of JSS 6015-01	Permanent
611		Dripping	Qualitative	Cl. 13.30, Appx P of JSS 6015	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
612		Cable Jacket Tear strength	2 N/cm to 200 N/cm	Cl. 13.31, Appx Q of JSS 6015-01	Permanent
613		Cable jacket material tensile strength and elongation	2 % to 400 %	Cl. 13.32, Appx S of JSS 6015-01	Permanent
614		Cable abrasion resistance	Qualitative	Cl. 13.33 of JSS 6015-01	Permanent
615		Cable shrinkage	1 mm to 150 mm	Cl. 13.34 of JSS 6015-01	Permanent
616		Marking	Qualitative	Cl. 13.35 of JSS 6015-01	Permanent
617		Ribbon delamination	Qualitative	Cl. 13.36 of JSS 6015-01	Permanent
618		Smoke generation and flame propagation	Qualitative	Cl. 13.37 of JSS 6015-01	Permanent
619		Flame Extinguishing	Qualitative	Cl. 13.38 of JSS 6015 - 01 (Refer UL – 1685)	Permanent
620		Wicking	1 mm to 150 mm	Cl. 13.39 of JSS 6015-01	Permanent
621		Water Absorption	0.1 mg/cm <sup>2</sup> to 50 mg/cm <sup>2</sup>	Cl. 13.40 of JSS 6015-01 (refer ASTM - D – 470)	Permanent
622		Acid gas generation	1 % to 50 %	Cl. 13.41 of JSS 6015-01	Permanent
623		Halogen content	0.0001 % to 1 %	Cl. 13.42 of JSS 6015-01	Permanent
624		Fibre Optic Cables And Optical Connectors (Single Mode Fibre & Multi	marking	Qualitative	Cl.7.0 of JSS 6020 – 02
625	Impact Test (for Both SMF and MMF)		0.1 db/km to 26 db/km	Cl.12.2.1 of JSS 6020 – 02	Permanent
626	Tensile Test		0.1 db/km to 26 db/km	Cl.12.2.2 of JSS 6020 – 02	Permanent



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627	Mode Graded Index Fibre)	Flexibility Test	0.1 db/km to 26 db/km	Cl.12.2.3 of JSS 6020 – 02	Permanent
628		Compression Test (for Both SMF and MMF)	0.1 db/km to 26 db/km	Cl.12.2.4 of JSS 6020 – 02	Permanent
629		Twist Test (for Both SMF and MMF)	0.1 db/km to 26 db/km	Cl.12.2.5 of JSS 6020 – 02	Permanent
630		Cold Bend Test (for Both SMF and MMF)	0.1 db/km to 26 db/km	Cl.12.2.6 of JSS 6020 – 02	Permanent
631		Temperature Range Test (for Both SMF and MMF)	0.1 db/km to 26 db/km	Cl.12.2.7 of JSS 6020 – 02	Permanent
632		Humidity Test (for Both SMF and MMF)	0.1 db/km to 26 db/km	Cl.12.2.8 of JSS 6020 – 02	Permanent
633		ICE Crush Test (for Both SMF and MMF)	0.1 db/km to 26 db/km	Cl.12.2.9 of JSS 6020 – 02	Permanent
634		Immersion Test (for Both SMF and MMF)	0.1 db/km to 26 db/km	Cl.12.2.10 of JSS 6020 – 02	Permanent
635		Impact Test	0.1 db/km to 26 db/km	Cl.13.2.1 of JSS 6020 – 02	Permanent
636		Tensile Test	0.1 db/km to 26 db/km	Cl.13.2.2 of JSS 6020 – 02	Permanent
637		Compression Test (for Both SMF and MMF)	0.1 db/km to 26 db/km	Cl.13.2.3 of JSS 6020 – 02	Permanent
638		Vibration Test (for Both SMF and MMF)	Qualitative	Cl.13.2.4 of JSS 6020 – 02	Permanent
639		Drop Test (For both SMF and MMF)	Qualitative	Cl.13.2.5 of JSS 6020 – 02	Permanent
640		Temperature Range (for Both SMF and MMF)	0.1 db/km to 26 db/km	Cl.13.2.6 of JSS 6020 – 02	Permanent
641		Immersion Test (for Both SMF and MMF)	0.1 db/km to 26 db/km	Cl.13.2.7 of JSS 6020 – 02	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
642	Solid Polythene Insulated Fully Filled, Polythene Sheathed Underground Telecom Cables	Dust Test (for Both SMF and MMF)	Qualitative	Cl.13.2.8 of JSS 6020 – 02	Permanent
643		Mating Test (for Both SMF and MMF)	0.1 db/km to 26 db/km	Cl.13.2.9 of JSS 6020 – 02	Permanent
646		Density	0.5 gm/cc to 2.0 gm/cc	Cl. 4.3 (i), Cl.10.1, Cl.12.1 (ii) of TEC GR. NO.GR/CUG-01/03. AUG 2003 (Refer ASTM D-t248 & ASTM D-883)	Permanent
647		Flow rate (melt Flow Index)	0.1gm/10 minutes to 5.0 gm/10 minutes	Cl. 4.3 (ii), Cl.10.1 (i), Cl.12.1 of TEC GR. NO.GR/CUG-01/03. AUG 2003 (Refer ASTM D-t248 & ASTM D-883)	Permanent
648		Dissipation factor (power factor)	0.00001 (unitless) to 0.004 (unitless)	Cl. 4.3 (iii) of TEC GR. NO.GR/CUG-01/03. AUG 2003 (Refer ASTM D-t248)	Permanent
649		Dielectric constant (Permittivity)	0.1 unitless to 4.0 (unitless)	Cl. 4.3 (iv) of TEC GR. NO.GR/CUG-01/03. AUG 2003 (Refer ASTM D-t248)	Permanent
650	Volume resistivity	1 ohm-cm to 100 x 10 <sup>17</sup> ohm-cm	Cl. 4.3 (v) of TEC GR. NO.GR/CUG-01/03. AUG 2003 (Refer ASTM D-t248)	Permanent	
651	Oxidation Induction Time (OIT)	0.15 hr. to 24.0 hr.	Cl. 4.3 (vi), Cl.10.1, Cl.12.1 of TEC GR. NO.GR/CUG-01/03. AUG 2003 (Refer ASTM D-t248 , & ASTM D-883)	Permanent	



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
652		Stability	1°C to 90 °C	CI.21.1 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
653		Toxic/ dermatic Hazards	Qualitative	CI.21.3 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
654		Volume resistivity	1 ohm-cm to 100 x 10 <sup>17</sup> ohm-cm	CI.21.4 of TEC GR. NO.GR/CUG-01/03. AUG 2003 (Refer ASTM D 1169)	Permanent
655		Permittivity	0.1 unitless to 10.0 (unitless)	CI.21.5 of TEC GR. NO.GR/CUG-01/03. AUG 2003 (Refer ASTM D 924)	Permanent
656		Flash Point	1°C to 500 °C	CI.21.6 of TEC GR. NO.GR/CUG-01/03. AUG 2003 (Refer ASTM D 92)	Permanent
657		Thickness	1 mm to 150 mm	CI.9.1, CI.10.3, CI.11.2, 11.3.2, CI.12.1, CI.24.5.1 & CI.25.5.2 (a) of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
658		Peel strenght	1 gm/mm to 200 gm/mm	CI.9.3 of TEC GR. NO.GR/CUG-01/03. AUG 2003 (Refer Annexure-I)	Permanent
659		Tensile Strength	1N/mm <sup>2</sup> to 2500 N/mm <sup>2</sup>	CI.11.3.1 (i) of TEC GR. NO.GR/CUG-01/03. AUG 2003 (Refer IS 3975)	Permanent



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660		Elongation	2 % to 400 %	Cl.11.3.1 (ii) of TEC GR. NO.GR/CUG-01/03. AUG 2003 (Refer IS 3975)	Permanent
661		Dip Test	Qualitative	Cl.11.3.3 & Cl.24.5.2 (d) of TEC GR. NO.GR/CUG-01/03. AUG 2003 (Refer IS 2633)	Permanent
662		Retraction of insulation	1 mm to 150 mm	Cl.22.1 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
663		Resistance to Compression	5N to 400 N	Cl.22.2 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
664		Shrink back of insulation	1 mm to 150 mm	Cl.22.3 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
665		Thermal stress cracking	1 °C to 90 °C	Cl.22.4 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
666		Cold bend	-80 °C to 27 -80 °C	Cl.22.5 of TEC GR. NO.GR/CUG-01/03. AUG 2003 (Refer ASTM D 2633)	Permanent
667		Absorption of filling compound	1 % to 50 %	Cl.23.1 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
668		Elongation and tensile test	1 % to 1500 % 1 N/mm <sup>2</sup> to 2500 N/mm <sup>2</sup>	Cl.23.2, Cl.24.4.1, Cl.24.5.2 (b) (c) & Cl.24.6.1 of TEC GR. NO.GR/CUG-01/03.	Permanent





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669		Environmental stress cracking	5°C to 90 °C	CI.23.3, CI.24.4.2 & CI.24.6.1 of TEC GR. NO.GR/CUG-01/03. AUG 2003 (Refer ASTM D 1693)	Permanent
670		Colour, Thickness & lay of unit binder tape	1 mm to 150 mm 5mm to 1000 mm	CI.6.1 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
671		Drip test	5°C to 90 °C	CI.24.1 of TEC GR. NO.GR/CUG-01/03. AUG 2003 (Refer Annexure – III)	Permanent
672		Oxidation Induction Time	0.15 hr to 24.0 hr.	CI.24.2, CI.24.4.6, CI.24.6.1 of TEC GR. NO.GR/CUG-01/03. AUG 2003 (Refer Annexure – IV & ASTM D 4565)	Permanent
673		Bond strength between: a) Poly-al at overlap b) Poly-al and sheath	0.5gm/mm to 200 gm/mm	CI.24.3 of TEC GR. NO.GR/CUG-01/03. AUG 2003 (Refer Annexure – I)	Permanent
674		Shrinkage Test	1 % to 50 %	CI.24.4.3, CI.24.6.1 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
675		Carbon black content	0.5 % to 10 %	CI.24.4.3, CI.24.6.1 of TEC GR. NO.GR/CUG-01/03. AUG 2003 (Refer BS 6234)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
676		Carbon Black Dispersion	Qualitative	CI.24.4.3, CI.24.6.1 of TEC GR. NO.GR/CUG-01/03. AUG 2003 (Refer BS 6234)	Permanent
677		Diameter over sheath	1 mm to 150 mm	CI.10.5, CI.12.4 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
678		Variation between the maximum and minimum diameter over sheath at any cross-section.	1 mm to 150 mm	CI.10.2 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
679		Resistance of poly-al tape	1Ω/km to 100 Ω/km	CI.19.2 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
680		Annealing of copper	1 % to 50 %	CI.20.1 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
681		Dielectric strength between conductors	1 kV to 45 kV	CI.19.8.1 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
682		Dielectric strength between all conductors and shield	1 kV to 45 kV	CI.19.8.2 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
683		ELFEXT	Qualitative	CI.19.5.1 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
684		NEXT	Qualitative	CI.19.5.2 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
685		Attention	Qualitative	CI.19.6 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
686		Insulation resistance	Qualitative	Cl.19.7 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
687		Cable Bend Test	Qualitative	Cl.24.8 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
688		Colour of insulation w.r.t. filling compound	Qualitative	Cl.4.4 & Cl.21.2 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
689		Handling w.r.t. filling compound	Qualitative	Cl.21.3 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
690		Identification & length markings on sheath/jacket	Qualitative	Cl.13.0 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
691		Conductor resistance	1Ω/km to 100 Ω/km	Cl.3.2 & Cl.19.1.2 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
692		Resistance unbalance	1 % to 50 %	Cl.3.2 & Cl.19.1.2 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
693		Mutual capacitance (pair/average)	2nF/km to 100 nF/km	Cl.19.3 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
694		Capacitance unbalance (pair to ground)	5 pF/km to 100000 pF/km	Cl.19.4.1 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
695		Capacitance unbalance (pair to pair)	5 pF/km to 100000 pF/km	Cl.19.4.2 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
696	Electric cables for photovoltaic systems	Length marking a) Initial b) Final	Qualitative	CI.13.0 & CI.18.4 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
697		Sealing of cable ends	Qualitative	CI.16.0 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
698		Water penetration (W.P.T)	Qualitative	CI.24.7 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
699		Joints in conductor for resistance & tangible strength	Qualitative	CI.3.3 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
700		Spark test on insulated conductor	1 kV to 10 kV	CI.4.8 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
701		Spark test on sheath	1 kV to 10 kV	CI.10.4 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
702		Galvanised Steel Tape Armouring	Qualitative	CI.11.3.4 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
703		Spark test on jacket	1 kV to 10 kV	CI.12.3 of TEC GR. NO.GR/CUG-01/03. AUG 2003	Permanent
704		Electrical resistance	1Ω/km to 100 Ω/km	CI.5.1.5 of EN 50618: 2014 (Refer EN 60228 & CI.5 of EN 50395)	Permanent
705		Thickness	1 mm to 150 mm	CI.5.2.3 of EN 50618: 2014 (Refer CI.4.1 of EN 50396)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
706		Voltage test on completed cable	1 kV to 45 kV	Cl.7.2.1 of EN 50618: 2014 (Refer Cl.6 of EN 50395)	Permanent
707		Electrical test for absence of faults on the insulation or on the complete cable	1 kV to 45 kV	Cl.7.2.1 of EN 50618: 2014 (Refer Annex A of EN 62230)	Permanent
708		Measurement of insulation resistance at 20 °C	0.5 MΩ.km to 10000 MΩ.km	Cl.7.2.3 of EN 50618: 2014 (Refer Cl.8.1 of EN 50395)	Permanent
709		Measurement of insulation resistance at 90 °C	0.5 MΩ.km to 10000 MΩ.km	Cl.7.2.3 of EN 50618: 2014 (Refer Cl.8.1 of EN 50395)	Permanent
710		Long term resistance of insulation to d.c	]0.5 kV to 3 kV (DC)	Cl.7.2.4 of EN 50618: 2014 (Refer Cl.9 of EN 50395)	Permanent
711		Surface resistance of sheath	1Ω to 1 x10 <sup>14</sup> Ω	Cl.7.2.4 of EN 50618: 2014 (Refer Cl.11 of EN 50395)	Permanent
712		Overall diameters	1 mm to 150 mm	Cl.7.3.3 of EN 50618: 2014	Permanent
713		ovality	1 % to 50 %	Cl.7.3.3 of EN 50618: 2014	Permanent
714		Compatibility	2 N/mm <sup>2</sup> to 500 N/mm <sup>2</sup> 1% to 1500%	Cl.7.3.4 of EN 50618: 2014 (Refer Cl.4.2.3.4 of EN 60811-401)	Permanent
715		Cold impact	Upto -80 °C to 27°C	Cl.7.3.5 of EN 50618: 2014 (Refer EN 60811-506)	Permanent
716		Cold bending	Upto -80 °C to 27°C	Cl.7.3.6 of EN 50618: 2014 (Refer EN 60811-504)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
717		Cold elongation	2 % to 400 %	Cl.7.3.7 of EN 50618: 2014 (Refer EN 60811-505)	Permanent
718		Ozone resistance	Qualitative	Cl.7.3.8 of EN 50618: 2014 (Refer Cl.8.1.2 of EN 50396 & EN 60811-403)	Permanent
719		Weathering/UV resistance	Qualitative	Cl.7.3.9, Annex E of EN 50618: 2014 (Refer EN 50289-4-17)	Permanent
720		Dynamic penetration	Qualitative	Cl.7.3.10, Annex D of EN 50618: 2014	Permanent
721		Damp heat test	Qualitative	Cl.7.3.11, Annex E of EN 50618: 2014 (Refer EN 60068-2-78)	Permanent
722		Shrinkage	1% to 50%	Cl.7.3.12 of EN 50618: 2014 (Refer EN 60811-503)	Permanent
723		Vertical flame propagation	1 mm to 5000 mm	Cl.7.3.13 of EN 50618: 2014 (Refer EN 60332-1-2 & Annex A of EN 60332-1-2)	Permanent
724		Smoke emission	1% to 100 %	Cl.7.3.14 of EN 50618: 2014 (Refer EN 61034-1 & EN 61034-2)	Permanent
725		Assessment of halogens	0.001 % 50 %	Cl.7.3.15 of EN 50618: 2014 (Refer Annex B of EN 50525-1)	Permanent
726		Hot Set Test	2 % to 400 %	Table B.1, Sr. No 1.3 of BS EN 50618 :2024 (Refer EN 60811-501)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
727	Polyester Enamelled Round Aluminium Wire, Class 130	Tensile and elongation test (before ageing)	2 N/mm <sup>2</sup> to 500 N/mm <sup>2</sup> 1% to 1500%	Table B.1, Sr. No 1.1 of BS EN 50618 :2024 (Refer EN 60811-507)	Permanent
728		Tensile and elongation variation (before ageing)	2 % to 400 %	Table B.1, Sr. No 1.2 of BS EN 50618 :2024 (Refer EN 60811-401)	Permanent
729		Thermal endurance	2 % to 400 %	Table B.1, Sr. No 1.4 of BS EN 50618 :2024 (Refer EN 60216-1 & EN 60216-12)	Permanent
730		Cold elongation test	2 % to 400 %	Table B.1, Sr. No 1.4 of BS EN 50618 :2024 (Refer EN 60811-505)	Permanent
731		Sheath resistance against acid and alkaline solution	2 % to 400 %	Table B.1, Sr. No 1.6 of BS EN 50618 :2024 (Refer EN 60811-404 )	Permanent
732		Compatibility test	2 % to 400 %	Table B.1, Sr. No 1.6 of BS EN 50618 :2024 (Refer EN 60811-401,4.2.3.4 )	Permanent
734		Dimensions (Conductor diameter)	1 mm to 150 mm	Cl.4.0 of IS 13730(part 9) : 1994 (Refer of Cl.4.1 of IS 13730 (part 0/Sec3)	Permanent
735	Dimensions (out of roundness of conductor)	1 mm to 150 mm	Cl.4.0 of IS 13730(part 9) : 1994 (Refer of Cl.4.2 of IS 13730 (part 0/Sec3)	Permanent	
736	Dimensions (Minimum increase in diameter due to the insulation)	1 mm to 150 mm	Cl.4.0 of IS 13730(part 9) : 1994 (Refer of Cl.4.3 of IS 13730 (part 0/Sec3)	Permanent	





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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
737		Dimensions (maximum overall diameter)	1 mm to 150 mm	Cl.4.0 of IS 13730(part 9) : 1994 (Refer of Cl.4.4 of IS 13730 (part 0/Sec3)	Permanent
738		Electrical resistance	0.01 $\Omega$ /m to 100 $\Omega$ /m	Cl.5.0 of IS 13730(part 9) : 1994 (Refer of Cl.5.0, Annex C of IS 13730 (part 0/Sec3 &EN 1715-2, ASTM B233-97)	Permanent
739		Elongation & tensile test	2 N/mm <sup>2</sup> to 500 N/mm <sup>2</sup> 1% to 1500%	Cl.6.0 of IS 13730(part 9) : 1994 (Refer of Cl.6.0 of IS 13730 (part 0/Sec3)	Permanent
740		Flexibility and adherence (mandrel winding test)	Qualitative	Cl.8.0 of IS 13730(part 9) : 1994 (Refer of Cl.8.1 of IS 13730 (part 0/Sec3)	Permanent
741		Flexibility and adherence (stretching test)	Qualitative	Cl.8.0 of IS 13730(part 9) : 1994 (Refer of Cl.8.2 of IS 13730 (part 0/Sec3)	Permanent
742		Flexibility and adherence (jerk test)	Qualitative	Cl.8.0 of IS 13730(part 9) : 1994 (Refer of Cl.8.3 of IS 13730 (part 0/Sec3)	Permanent
743		Flexibility and adherence (peel test)	1 gm/mm to 200 gm/mm	Cl.8.0 of IS 13730(part 9) : 1994 (Refer of Cl.8.4 of IS 13730 (part 0/Sec3)	Permanent
744		Heat shock test	Qualitative	Cl.9.0 of IS 13730(part 9) : 1994 (Refer of	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
745		Cut-through	Qualitative	Cl.10 of IS 13730(part 9) : 1994	Permanent
746		Resistance to abrasion (nominal conductor diameters from 0.250 mm up to and including 2.500 mm )	Qualitative	Cl.11 of IS 13730(part 9) : 1994	Permanent
747		Resistance to solvents	Qualitative	Cl.12 of IS 13730(part 9) : 1994 (Refer of Cl.12 of IS 13730 (part 0/Sec3)	Permanent
748		BREAKDOWN VOLTAGE	1 kV to 45 kV	Cl.13 of IS 13730(part 9) : 1994 (Refer of Cl.13 of IS 13730 (part 0/Sec3)	Permanent
749		CONTINUITY OF INSULATION	Qualitative	Cl.14 of IS 13730(part 9) : 1994 (Refer of Cl.14 of IS 13730 (part 0/Sec3)	Permanent
750		TEMPERATURE INDEX	1°C to 400 °C	Cl.15 of IS 13730(part 9) : 1994 (Refer of Cl.15 of IS 13730 (part 0/Sec3)	Permanent
		Hot Rolled Medium and high tensile structural Steel	Freedom from defects	Qualitative	Cl.7.1 of IS 2062
	Bend Test		Qualitative	Cl.11 of IS 2062 (Refer IS 1599)	Permanent
	Calculation of mass		0.001 kg to 30 kg	Cl.18 of IS 2062	Permanent
	Percentage Elongation		1 % to 100 %	Cl.10 of IS 2062 (Refer IS 1608: 2005): 2011	Permanent





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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
		Tensile Test	50 Mpa to 1000 Mpa	Cl.10 of IS 2062 (Refer IS 1608: 2005): 2011	Permanent
		Yield stress	50 Mpa to 1000 Mpa	Cl.10 of IS 2062 (Refer IS 1608: 2005): 2011	Permanent
		Verification of dimension	1 mm to 5000 mm	Cl.15 of IS 2062: 2011	Permanent
Discipline - Electrical, Group: - Insulating materials					
582	Insulating mats for electrical purposes- Specification	Dimensions	Up to 15000 mm	Cl.6.2 of IS: 15652 +A2 (Reaffirmed)	Permanent
583		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
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



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
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
	FRP Rod	Brittle fracture Resistance Test	Qualitative : 2 kN 1000 kN	Cl.2.1 , Annexure – A of WBSETCL / TECH SPEC / Rev.-0 Para A- 15 of Specification no. TI/SPC/OHE/INSCOM/1 071,Rev-01 Clause No. 2 of Annexure-B REC Specification of	Permanent
	WSY Material	Hydrogen generation test	Qualitative	GR No.TEC/GR/TX/ORM- 001/05/DEC-17 Section – VII (Type-II) & GR No.TEC/GR/TX/ORM- 001/05/DEC-17	Permanent
	Water blocking tape	Fair corrosion test	Qualitative	IS 9844 & ASTM B117	Permanent
		Fungal resistance test	Qualitative	ASTM G21	Permanent
		Thermal resistance	Qualitative	IEC- 60216	Permanent
		Swelling speed	Qualitative	Cenelec HD 605 S2:2008	Permanent
		Swelling height	Qualitative	Cenelec HD 605 S2:2008	Permanent
		Moisture content	Qualitative	IEC 60287	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
		Foil corrosion test	Qualitative	TEC GR No. TEC/GR/TX/OFC- 008/04	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 Aluminium stranded conductors	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
596		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	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



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility	
603	purposes Aluminium conductors, galvanized steel - reinforced	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	
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



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
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 amendments No. 1,2 & 3	Permanent
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



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
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
624		Resistance test of individual aluminium alloy wires	Up to 100 ohm/km	Cl.12.4 table-1of 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	Visual exmination	Qualitative	Cl.16.2 of IS 398 (Part- 6) with amendments No. 1	Permanent
627	Overhead Transmission Purposes Part 6:	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	High conductivity aluminium alloy stranded conductor	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



This is annexure to 'Certificate of Accreditation' and does not require any signature

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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
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 x10 <sup>-6</sup> 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
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



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
641		Wrapping test	Qualitative	Cl.8.4 of IS: 12776: (Reaffirmed) IS : 10810 (Pt.3) (Reaffirmed)	Permanent
642		Torsion test	Up to 999999Turns	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
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



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
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 a.c. and not exceeding 36 kV a.c	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
656		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



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
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
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



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
672	Conductors for overhead lines-round wire concentric lay stranded conductors	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
674		Surface condition	Qualitative	Cl.6.4.1 Of EN 50182	Permanent
675		Conductor diameter	Upto 150 mm	Cl.6.4.2, Cl.6.5.2 Of EN 50182	Permanent
676		Inertness	Qualitative	Cl.6.4.3 Of EN 50182	Permanent
677		Lay ratio and direction of lay	Upto 30 unitless	Cl.6.4.4 Of EN 50182	Permanent
678		Number and type of wire	Qualitative	Cl.6.4.5 Of EN 50182	Permanent
679		Mass per unit length	Upto 30 kg	Cl.6.4.6, Cl.6.6.1 Of EN 50182	Permanent
680		Stress-strain curve	Qualitative	Cl.6.4.7 Of EN 50182	Permanent
681		Tensile breaking strength	Upto 100 kN/mm <sup>2</sup>	Cl.6.4.8 Of EN 50182	Permanent
682		Stringing test	Qualitative	Cl.6.4.9 Of EN 50182	Permanent
683		Tensile strength	Upto 100 kN/mm <sup>2</sup>	Cl.6.5.2 Of EN 50182	Permanent
684		Stress at 1 % extension	Upto 99 %	Cl.6.5.2 Of EN 50182	Permanent
685		Elongation or torsion test	Upto 99 %	Cl.6.5.2 Of EN 50182	Permanent
686			Upto 999 turns		Permanent
687		Resistivity	Upto 1 ohm-cm	Cl.6.5.2 Of EN 50182	Permanent
688		wrapping test	Qualitative	Cl.6.5.2 Of EN 50182	Permanent
689		Mass of zinc	Upto 500 g/m <sup>2</sup>	Cl.6.5.2 Of EN 50182	Permanent
690		Zinc dip test	Qualitative	Cl.6.5.2 Of EN 50182	Permanent
691		Adhesion of zinc coating	Qualitative	Cl.6.5.2 Of EN 50182	Permanent





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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
692		Welding	Qualitative Upto 1000 kN	Cl.6.5.3 Of EN 50182	Permanent
693		Cladding thickness/Uniformity	Qualitative	Cl.6.5.2 Of EN 50182	Permanent
Discipline :- Electrical Group :- Cells and batteries					
694	Stationary Cells And Batteries, Lead-Acid	Marking and packing	Qualitative	Cl.8.1 & 8.2 of IS 1651 (Reaffirmed)	Permanent
695	Type (With Tubular Positive Plates)	Verification of dimension	Up to 5000 mm	Cl.12.4 of IS 1651(Reaffirmed)	Permanent
696		Test for capacity	Up to 200 AH	Cl.12.5 of IS 1651 (Reaffirmed)	Permanent
697		Test for voltage during discharge	Upto 60V	Cl.12.10 of IS 1651 (Reaffirmed)	Permanent
Discipline - Chemical, Group:- Metals and its alloy					
698	Stainless-steel tape	Carbon, %	Upto 1.2 %	RDSO specification No.RDSO/SPN/TC/110/2020 Revision-0 Table 1 of ASTM A 240	Permanent
699		Manganese, %	Upto 12 %	RDSO specification No.RDSO/SPN/TC/110/2020 Revision-0 Table 1 of ASTM A 240	Permanent
700		Phosphorous, %	Upto 0.045 %	RDSO specification No.RDSO/SPN/TC/110/2020 Revision-0 Table 1 of ASTM A 240	Permanent
701		Sulphur, %	Upto 0.03 %	RDSO specification No.RDSO/SPN/TC/110/2020 Revision-0 Table 1 of ASTM A 240	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
702		Chromium, %	Upto 20 %	RDSO specification No.RDSO/SPN/TC/110/2020 Revision-0 Table 1 of ASTM A 240	Permanent
703		Nickle, %	Upto 10.5 %	RDSO specification No.RDSO/SPN/TC/110/2020 Revision-0 Table 1 of ASTM A 240	Permanent
704		Silicon, %	Upto 0.75 %	RDSO specification No.RDSO/SPN/TC/110/2020 Revision-0 Table 1 of ASTM A 240	Permanent
705		Nitrogen, %	Upto 0.10 %	RDSO specification No.RDSO/SPN/TC/110/2020 Revision-0 Table 1 of ASTM A 240	Permanent
706		ECCS Tape	Carbon, %	Upto 1.2 %	TEC 85170 & TEC 89010 A.623-77 Type MR
707		Manganese, %	Upto 12 %	TEC 85170 & TEC 89010 A.623-77 Type MR	Permanent
708		Phosphorous, %	Upto 0.045 %	TEC 85170 & TEC 89010 A.623-77 Type MR	Permanent
709		Sulphur, %	Upto 0.03 %	TEC 85170 & TEC 89010 A.623-77 Type MR	Permanent
710		Silicon, %	Upto 20 %	TEC 85170 & TEC 89010 A.623-77 Type MR	Permanent



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711		Nitrogen, %	Upto 10.5 %	TEC 85170 & TEC 89010 A.623-77 Type MR	Permanent
712		Copper, %	Upto 0.75 %	TEC 85170 & TEC 89010 A.623-77 Type MR	Permanent
713	Copper	Copper purity Test (Copper +silver, % by mass)	Upto 100 %	Cl. 7.1 & Table-4 of IS 191 (Reaffirmed:) IS 440	Permanent
714		Copper purity Test (Bismuth %)	Upto 0.005 %	Cl. 7.1 & Table-4 of IS 191 (Reaffirmed:) IS 440	Permanent
715		Copper purity Test (Lead, % by mass)	Upto 0.008 %	Cl. 7.1 & Table-4 of IS 191 (Reaffirmed:) IS 440	Permanent
716		Copper purity Test (Oxygen, % by mass)	Upto 0.089 %	Cl. 7.1 & Table-4 of IS 191 (Reaffirmed:) IS 440	Permanent
717		Total of all impurities excluding silver & oxygen, % by mass	Upto 0.067 %	Cl. 7.1 & Table-4 of IS 191 (Reaffirmed:) IS 440	Permanent
Discipline - Mechanical, Group:- Plastic and plastic material					
718	Material for base & dome of splice closure	Resistance to chemical agents	Qualitative	TEC 87080 & (Annexure I point no.(c))	Permanent
719		Visual Examination	Qualitative	TEC 87080 & (Annexure I point no.(f))	Permanent
720		Rockwell	Qualitative	TEC 87080 & &3.1 (b) of GR	Permanent
721	ABS Material for splice closure	Specific gravity	Upto 5 gm/cc	TEC 87080 & (Cl.3.6 & Annexure II of GR)	Permanent



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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
722		Tensile strength	Upto 50 kg/sq.mm	TEC 87080 & (Cl.3.6 & Annexure II of GR)	Permanent
723		Elongation	Upto 100 %	TEC 87080 & (Cl.3.6 & Annexure II of GR)	Permanent
724		Water absorption	Upto 100 %	TEC 87080 & (Cl.3.6 & Annexure II of GR)	Permanent
725		Rockwell hardness	Qualitative	TEC 87080 & (Cl.3.6 & Annexure II of GR)	Permanent

#### Discipline Chemical, Group:- Paper and Pulp (Other)

726	Wood product	Moisture	Up to 80 %	Cl.3.1 of TEC 69370 IS 1708 (P-1)	Permanent
727		Identification of wood	Qualitative	Cl.3.2 of TEC 6937	Permanent
728		Preservatives content in wood (CCA) (Sodium dichromate)	Upto 20 Kg/m <sup>3</sup>	Cl.3.6 of TEC 6937 Table 2 of IS 40	Permanent
729		Preservatives content in wood (CCA) (Copper Sulphate)	Upto 20 Kg/m <sup>3</sup>	Cl.3.6 of TEC 6937 Table 2 of IS 401	Permanent
730		Preservatives content in wood (CCA) (Arsenic Pen)	Upto 20 Kg/m <sup>3</sup>	Cl.3.6 of TEC 69370 Table 2 of IS 401	Permanent



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