Scope of Accreditation for Testing

As per ISO/IEC 17025:2017

CAB Name : Dynamic Test and Research Centre.

Address : Plot No. D-7, KH No. 6/21, Block D, Rama Vihar, Village Mohammadpur Majari, Karala, New Delhi – 110081, Delhi

Certificate No. : T-0047

Issue date : 31.03.2026
Validity : 30.03.2030
Amendment date: N/A

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: Cables & Wires					
1	PVC Insulated Cables	Diameter of wires in conductor	0.001mm - 25 mm	IS 694 & Cl. 6 of IS 8130	Permanent
2	PVC Insulated Cables	Ratio of Diameter	1 to 50	IS 694 & Cl. 6 of IS 8130	Permanent
3	PVC Insulated Cables	Number of wires in conductor	1 to 10000 Nos.	IS 694 & Cl. 6 of IS 8130	Permanent
4	PVC Insulated Cables	Annealing test for Copper Conductor	1 to 50%	Cl. 1.1, 10 of IS 694 & IS:10810(Pt.1)	Permanent
5	PVC Insulated Cables	Tensile strength for Aluminium Conductor	0.5 to 500N/mm2	Cl. 1.1, 10 of IS 694 & IS:10810(Pt.2)	Permanent
6	PVC Insulated Cables	Wrapping test for Aluminium Conductor	Qualitative	Cl. 1.1, 10 of IS 694 & IS:10810(Pt.3)	Permanent
7	PVC Insulated Cables	Conductor resistance	0.0100 to 1000 ohm/km	Cl. 1.1, 10 of IS 694 & IS:10810(Pt.5)	Permanent
8	PVC Insulated Cables	Persulphate test (for tinned Copper Conductor)	0.10 to 50g/m2	Cl. 1.1, 10 of IS 694 & IS10810(Pt.4)	Permanent
9	PVC Insulated Cables	Overall dimensions and Thickness of Insulation / Sheath	0.01mm - 150 mm	Cl. 1.1, 9, 10 of IS 694 & IS:10810(Pt. 6)	Permanent
10	PVC Insulated Cables	Ovality	0.10 to 90 %	Cl. 9.1 of IS 694	Permanent
11	PVC Insulated Cables	Application insulation & sheath	Qualitative	Cl. 5, 8 of IS 694	Permanent
12	PVC Insulated Cables	Colour of sheath	Qualitative	Cl. 18, 19, 20, 21, 22 of IS 694	Permanent
13	PVC Insulated Cables	Filler	Qualitative	Cl. 6 of IS 694	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
14	PVC Insulated Cables	Binder Tape	Qualitative	Cl 7, IS 694	Permanent
15	PVC Insulated Cables	Assembly of cores	Qualitative	Cl. 18, 19, 20, 21, 22 of IS 694	Permanent
16	PVC Insulated Cables	Tensile strength of insulation / sheath	1.0 to 500N/mm2	Cl. 1.1, 10 of IS 694 & IS:10810(Pt.7)	Permanent
17	PVC Insulated Cables	Elongation at break of insulation / sheath	1.0 to 1500%	Cl. 1.1, 10 of IS 694 & IS:10810(Pt.7)	Permanent
18	PVC Insulated Cables	Loss of mass test insulation / sheath	0.05 to 100 mg/cm2	Cl. 1.1, 10 of IS 694 & IS:10810(Pt.10)	Permanent
19	PVC Insulated Cables	Ageing in air oven insulation / sheath (Tensile Strength)	1.0 to 500N/mm2	Cl. 1.1, 10 of IS 694 & IS:10810(Pt.11)	Permanent
20	PVC Insulated Cables	Ageing in air oven insulation / sheath (Elongation at break)	1.0 to 1500%	Cl. 1.1, 10 of IS 694 & IS:10810(Pt.11)	Permanent
21	PVC Insulated Cables	Ageing in air oven (Tensile Strength Variation) insulation & sheath	0.10 to 90 %	ICl. 1.1, 10 of S 694 & IS:10810(Pt.11)	Permanent
22	PVC Insulated Cables	Ageing in air oven (Elongation at break Variation) insulation & sheath	0.10 to 90 %	Cl. 1.1, 10 of IS 694 & IS:10810(Pt.11)	Permanent
23	PVC Insulated Cables	Shrinkage test insulation / sheath	0.0 to 50%	Cl. 1.1, 10 of IS 694 & IS:10810(Pt.12)	Permanent
24	PVC Insulated Cables	Heat shock test insulation / sheath	Qualitative	Cl. 1.1, 10 of IS 694 & IS:10810(Pt.14)	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
25	PVC Insulated Cables	Hot deformation test insulation / sheath	1 to 90%	Cl. 1.1, 10 of IS 694 & IS:10810(Pt.15)	Permanent
26	PVC Insulated Cables	Thermal Stability insulation / sheath	1 to 500 Minute	Cl. 1.1, 10 of IS 694 & IS:10810(Pt.60)	Permanent
27	PVC Insulated Cables	Cold Bend Test insulation / sheath	Qualitative	Cl. 1.1, 10 of IS 694 & IS:10810(Pt.20)	Permanent
28	PVC Insulated Cables	Cold Impact Test insulation / sheath	Qualitative	Cl. 1.1, 10 of IS 694 & IS:10810(Pt.21)	Permanent
29	PVC Insulated Cables	Flammability test	1.0 to 600mm 1.0 to 240 Sec	Cl. 1.1, 10 of IS 694 & IS:10810(Pt.53)	Permanent
30	PVC Insulated Cables	Oxygen Index Test insulation / sheath	21 % to 80%	Cl. 1.1, 10 of IS 694 & IS:10810(Pt.58) , ASTM D 2863-09	Permanent
31	PVC Insulated Cables	Temperature Index Test insulation / sheath	Amb. to 500°C	Cl. 1.1, 10 of IS 694 & IS:10810(Pt.64) , ASTM D 2863-09	Permanent
32	PVC Insulated Cables	Halogen Acid Gas insulation / sheath	0.10 to 50%	Cl. 1.1, 10 of IS 694 & IS:10810(Pt.59) , IEC 60754-1	Permanent
33	PVC Insulated Cables	Smoke Density insulation / sheath	0.10 to 90%	Cl. 1.1, 10 of IS 694 & IS 13360(Part 6/sec 9) / ASTM D 2843	Permanent
34	PVC Insulated Cables	High voltage Test Room Temp. (AC)	0.1 to 10 kV	Cl. 1.1, 10 of IS 694 & IS:10810 (Pt.45)	Permanent
35	PVC Insulated Cables	High voltage Test (Water Immersion)	0.1 to 10 kV	Cl. 1.1, 10 of IS 694 & IS:10810 (Pt.45)	Permanent
36	PVC Insulated Cables	High voltage Test (DC)	0.001V - 3000 V	Cl. 1.1, 10 of IS 694 & IS:10810 (Pt.45)	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
37	PVC Insulated Cables	Insulation resistance	1 - 1000x106 MΩ	Cl. 1.1, 10 of IS 694 & IS:10810 (Pt.43)	Permanent
38	PVC Insulated Cables	Volume Resistivity	1 - 100x1017 Ω-cm	Cl. 1.1, 10 of IS 694 & IS:10810 (Pt.43)	Permanent
39	PVC Insulated Cables	Additional ageing test (for OU cable only)	0.1 to 10 kV	Cl. 1.1, 10 of IS 694 & Cl.10.9	Permanent
40	PVC Insulated Cables	Core identification	Qualitative	Cl.12 of IS 694	Permanent
41	PVC Insulated Cables	Cable Identification	Qualitative	Cl.11 of IS 694	Permanent
42	PVC Insulated Cables	Cable Code	Qualitative	Cl.13 of IS 694	Permanent
43	PVC Insulated Cables	Nominal Cross sectional area of conductor	0.100 to 1000 Sq.mm	Cl. 8 of IS 1554(Pt-1) & IS 8130	Permanent
44	PVC Insulated Cables	Diameter of wires in conductor	0.001mm - 25 mm	IS 1554(Pt-1) & Cl. 6 of IS 8130	Permanent
45	PVC Insulated Cables	Ratio of Diameter	1 to 50	IS 1554(Pt-1) & Cl. 6 of IS 8130	Permanent
46	PVC Insulated Cables	Number of wires in conductor	1 to 10000 Nos.	IS 1554(Pt-1) & Cl. 6 of IS 8130	Permanent
47	PVC Insulated Cables	Annealing test for Copper Conductor	1 to 50%	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.1)	Permanent
48	PVC Insulated Cables	Tensile strength for Aluminium Conductor	0.5 to 500N/mm2	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.2)	Permanent
49	PVC Insulated Cables	Wrapping test for Aluminium Conductor	Qualitative	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt:3)	Permanent
50	PVC Insulated Cables	Conductor resistance	0.0100 to 1000 ohm/km	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.5)	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
51	PVC Insulated Cables	Type of Armoring	Qualitative	Cl.6, 13 of IS1554(Pt.1)	Permanent
52	PVC Insulated Cables	Application of armouring	Qualitative	Cl.6, 13 of IS1554(Pt.1)	Permanent
53	PVC Insulated Cables	Direction of armouring	Qualitative	Cl. 6, 13 of IS1554(Pt.1)	Permanent
54	PVC Insulated Cables	Joints of Armour (Wires/strips)	Qualitative	Cl. 6,13 of IS1554(Pt.1)	Permanent
55	PVC Insulated Cables	Dimension for armouring material	0.01mm to 25 mm	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt. 36)	Permanent
56	PVC Insulated Cables	Tensile strength of armouring material	1.0 to 500N/mm2	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.37)	Permanent
57	PVC Insulated Cables	Elongation at break of armouring material	0.50 to 50%	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.37)	Permanent
58	PVC Insulated Cables	Torsion test on Galvanized steel wire for armouring	1 to 999 Turns	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.38)	Permanent
59	PVC Insulated Cables	Winding test on Galvanized steel strips for armouring	Qualitative	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt. 39)	Permanent
60	PVC Insulated Cables	Uniformity of Zinc coating	Qualitative	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.40)	Permanent
61	PVC Insulated Cables	Mass of Zinc coating	0.50 to 500 gm/ m2	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.41)	Permanent
62	PVC Insulated Cables	Resistivity & Conductance test of Armour (Wires/strips)	1.0 to 20 x10-6 ohm-cm	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.42)	Permanent
63	PVC Insulated Cables	Armour Coverage Percentage	10 to 100 %	Cl. 15.1 of IS1554(Pt.1) & Appendix- C	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
64	PVC Insulated Cables	Thickness of Insulation & Sheath	0.01mm - 150 mm	Cl. 15.1 of IS1554(Pt.1) & IS:10810 (Pt.6)	Permanent
65	PVC Insulated Cables	Application insulation & sheath	Qualitative	Cl. 9, 14 of IS1554(Pt.1)	Permanent
66	PVC Insulated Cables	Core identification	Qualitative	Cl.10 of IS1554(Pt.1)	Permanent
67	PVC Insulated Cables	Laying up of cores	Qualitative	Cl.11 of IS1554(Pt.1)	Permanent
68	PVC Insulated Cables	Filler and Inner sheath	Qualitative	Cl.5, 12 of IS1554(Pt.1)	Permanent
69	PVC Insulated Cables	Colour of Sheath	Qualitative	Cl. 14.3 of IS1554(Pt.1)	Permanent
70	PVC Insulated Cables	Tensile strength of insulation & sheath	1.0 to 500N/mm2	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.7)	Permanent
71	PVC Insulated Cables	Elongation at break of insulation & sheath	1.0 to 1500%	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.7)	Permanent
72	PVC Insulated Cables	Loss of mass test insulation & sheath	0.05 to 100 mg/cm2	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.10)	Permanent
73	PVC Insulated Cables	Ageing in air oven (Tensile Strength) insulation & sheath	1.0 to 500N/mm2	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.11)	Permanent
74	PVC Insulated Cables	Ageing in air oven (Elongation at break) insulation & sheath	1.0 to 1500%	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.11)	Permanent
75	PVC Insulated Cables	Ageing in air oven (Tensile Strength Variation) insulation & sheath	0.10 to 90 %	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.11)	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
76	PVC Insulated Cables	Ageing in air oven (Elongation at break Variation) insulation & sheath	0.10 to 90 %	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.11)	Permanent
77	PVC Insulated Cables	Shrinkage test insulation & sheath	0.0 to 50%	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.12)	Permanent
78	PVC Insulated Cables	Heat shock test insulation & sheath	Qualitative	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.14)	Permanent
79	PVC Insulated Cables	Hot deformation test insulation & sheath	0.10 to 90%	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.15)	Permanent
80	PVC Insulated Cables	Thermal Stability insulation & sheath	1.0 to 500 Minute	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.60)	Permanent
81	PVC Insulated Cables	Insulation resistance constant	1 - 1000x106 MΩ	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.43)	Permanent
82	PVC Insulated Cables	Volume Resistivity	1 - 100x1017Ω-cm	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.43)	Permanent
83	PVC Insulated Cables	High voltage Test Room Temp. (AC)	0.1 to 10 kV	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.45)	Permanent
84	PVC Insulated Cables	High voltage Test (Water Immersion)	0.1 to 10 kV	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.45)	Permanent
85	PVC Insulated Cables	High voltage Test (DC)	0.001V - 3000V	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.45)	Permanent
86	PVC Insulated Cables	Flammability test	0.50 to 600mm	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.53)	Permanent
87	PVC Insulated Cables	Cold Bend Test insulation & sheath	Qualitative	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.20)	Permanent
88	PVC Insulated Cables	Cold Impact Test insulation & sheath	Qualitative	Cl. 15.1 of IS1554(Pt.1) & IS:10810(Pt.21)	Permanent
89	PVC Insulated Cables	Armour Resistance Test	0.0100 to 1000 ohm/km	Cl. 13 of IS1554(Pt.1) & IS:10810(Pt.42)	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
90	PVC Insulated Cables	Oxygen Index Test insulation & sheath	21 % to 80%	Cl. 16.5 of IS1554(Pt.1) & IS:10810(Pt.58) , ASTM D 2863-09	Permanent
91	PVC Insulated Cables	Flame Retardance Test on Single Cable	1.0 to 1000mm	Cl. 16.6 of IS1554(Pt.1) & IS:10810(Pt.61) SS-424-1475	Permanent
92	PVC Insulated Cables	Halogen Acid Gas insulation & sheath	0.10 to 50%	Cl. 16.9 of IS1554(Pt.1) & IS:10810(Pt.59) , IEC 60754-1	Permanent
93	PVC Insulated Cables	Temperature Index Test insulation & sheath	Amb. to 500°C	Cl. 16.10 of IS1554(Pt.1) & IS:10810(Pt.64) , ASTM D 2863-09	Permanent
94	PVC Insulated Cables	Flame retardance test on bunched cables	0.001 to 3.50 meter	Cl. 16.7 of IS1554(Pt.1) & IS:10810(Pt.62) ,IEC 60332-3-22 IEC 60332-3-23 IEC 60332-3-24	Permanent
95	PVC Insulated Cables	Smoke Density Test insulation & sheath	0.10 to 90%	Cl. 16.11 of IS1554(Pt.1) & ASTM D 2843-1999	Permanent
96	PVC Insulated Cables	Identification	Qualitative	Cl.17 of IS1554(Pt.1)	Permanent
97	Cross Linked Polyethylene Insulated Cables	Nominal Cross sectional area of conductor	0.100 to 1000 Sq.mm	IS7098(Pt.1) & Cl. 6 of IS 8130	Permanent
98	Cross Linked Polyethylene Insulated Cables	Diameter of wires in conductor	0.001mm - 25 mm	IS7098(Pt.1) & Cl. 6 of IS 8130	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
99	Cross Linked Polyethylene Insulated Cables	Ratio of Diameter	1 to 50	IS7098(Pt.1) & Cl. 6 of IS 8130	Permanent
100	Cross Linked Polyethylene Insulated Cables	Number of wires in conductor	1 to 10000 Nos.	IS7098(Pt.1) & Cl. 6 of IS 8130	Permanent
101	Cross Linked Polyethylene Insulated Cables	Annealing test for Copper Conductor	1 to 50%	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.1)	Permanent
102	Cross Linked Polyethylene Insulated Cables	Tensile strength for Aluminium Conductor	0.5 to 500N/mm2	Cl. 16.1 of IS7098(Pt.1) & IS:10810 (Pt 2)	Permanent
103	Cross Linked Polyethylene Insulated Cables	Wrapping test for Aluminium Conductor	Qualitative	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.3)	Permanent
104	Cross Linked Polyethylene Insulated Cables	Conductor resistance	0.0100 to 1000 ohm/km	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.5)	Permanent
105	Cross Linked Polyethylene Insulated Cables	Type of Armoring	Qualitative	Cl. 14.2 of IS7098(Pt.1)	Permanent
106	Cross Linked Polyethylene Insulated Cables	Application of armouring	Qualitative	Cl. 14.1 of IS7098(Pt.1)	Permanent
107	Cross Linked Polyethylene	Direction of armouring	Qualitative	Cl. 14.1 of IS7098(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
	Insulated Cables				
108	Cross Linked Polyethylene Insulated Cables	Joints of Armour (Wires/strips)	Qualitative	Cl. 14.4 of IS7098(Pt.1)	Permanent
109	Cross Linked Polyethylene Insulated Cables	Dimension for armouring material	0.01mm to 25 mm	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.36)	Permanent
110	Cross Linked Polyethylene Insulated Cables	Tensile strength of armouring material	1.0 to 500N/mm2	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt. 37)	Permanent
111	Cross Linked Polyethylene Insulated Cables	Elongation at break of armouring material	1.0 to 50%	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt. 37)	Permanent
112	Cross Linked Polyethylene Insulated Cables	Torsion test on Galvanized steel wire for armouring	Qualitative	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.38)	Permanent
113	Cross Linked Polyethylene Insulated Cables	Winding test on Galvanized steel strips for armouring	Qualitative	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt. 39)	Permanent
114	Cross Linked Polyethylene Insulated Cables	Uniformity of Zinc coating	Qualitative	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt. 40)	Permanent
115	Cross Linked Polyethylene Insulated Cables	Mass of Zinc coating	0.50 to 500 gm/ m2	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.41)	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
116	Cross Linked Polyethylene Insulated Cables	Resistivity & Conductance test of Armour (Wires/strips)	1.0 to 20 x10-6 ohm-cm	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.42)	Permanent
117	Cross Linked Polyethylene Insulated Cables	Armour Coverage Percentage	10 to 100 %	IS7098(Pt.1) & Appendix- C	Permanent
118	Cross Linked Polyethylene Insulated Cables	Application insulation & sheath	Qualitative	Cl. 10, 15 of IS7098(Pt.1)	Permanent
119	Cross Linked Polyethylene Insulated Cables	Core identification	Qualitative	Cl.11 IS7098(Pt.1)	Permanent
120	Cross Linked Polyethylene Insulated Cables	Laying up of cores	Qualitative	Cl.12 IS7098(Pt.1)	Permanent
121	Cross Linked Polyethylene Insulated Cables	Inner sheath (Common Covering)	Qualitative	Cl. 13 IS7098(Pt.1)	Permanent
122	Cross Linked Polyethylene Insulated Cables	Colour of Sheath	Qualitative	Cl.15 IS7098(Pt.1)	Permanent
123	Cross Linked Polyethylene Insulated Cables	Thickness of Insulation & Sheath	0.01mm - 150 mm	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt-6)	Permanent
124	Cross Linked Polyethylene	Tensile strength & of insulation	1.0 to 500N/mm2	Cl. 16.1 of IS7098(Pt.1) & IS:10810 (Pt.7)	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
	Insulated Cables				
125	Cross Linked Polyethylene Insulated Cables	Elongation at break of insulation	1.0 to 1500%	Cl. 16.1 of IS7098(Pt.1) & IS:10810 (Pt.7)	Permanent
126	Cross Linked Polyethylene Insulated Cables	Ageing in air oven (Tensile Strength) insulation	1.0 to 500N/mm2	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.11)	Permanent
127	Cross Linked Polyethylene Insulated Cables	Ageing in air oven (Elongation at break) insulation	1.0 to 1500%	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.11)	Permanent
128	Cross Linked Polyethylene Insulated Cables	Ageing in air oven (Tensile Strength Variation) insulation	0.10 to 90 %	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.11)	Permanent
129	Cross Linked Polyethylene Insulated Cables	Ageing in air oven (Elongation at break Variation) insulation	0.10 to 90 %	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.11)	Permanent
130	Cross Linked Polyethylene Insulated Cables	Hot Set Test insulation	1.0 to 200%	Cl. 16.1 of IS7098(Pt.1) & IS 10810(Pt.30)	Permanent
131	Cross Linked Polyethylene Insulated Cables	Shrinkage test insulation	1.0 to 50%	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.12)	Permanent
132	Cross Linked Polyethylene Insulated Cables	Water Absorption (Gravimetric) insulation	0.001 to 100mg/cm2	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.33)	Permanent

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Validity : 30.03.2030
Amendment date: N/A

Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
133	Cross Linked Polyethylene Insulated Cables	Tensile strength & sheath	1.0 to 500N/mm2	Cl. 16.1 of IS7098(Pt.1) & IS:10810 (Pt.7)	Permanent
134	Cross Linked Polyethylene Insulated Cables	Elongation at break sheath	1.0 to 1500%	Cl. 16.1 of IS7098(Pt.1) & IS:10810 (Pt.7)	Permanent
135	Cross Linked Polyethylene Insulated Cables	Ageing in air oven (Tensile Strength) sheath	1.0 to 500N/mm2	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.11)	Permanent
136	Cross Linked Polyethylene Insulated Cables	Ageing in air oven (Elongation at break) sheath	1.0 to 1500%	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.11)	Permanent
137	Cross Linked Polyethylene Insulated Cables	Ageing in air oven (Tensile Strength Variation) sheath	0.10 to 90 %	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.11)	Permanent
138	Cross Linked Polyethylene Insulated Cables	Ageing in air oven (Elongation at break Variation) sheath	0.10 to 90 %	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.11)	Permanent
139	Cross Linked Polyethylene Insulated Cables	Loss of mass test sheath	0.05 to 100 mg/cm2	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.10)	Permanent
140	Cross Linked Polyethylene Insulated Cables	Shrinkage test sheath	0.0 to 50%	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.12)	Permanent
141	Cross Linked Polyethylene	Hot deformation test sheath	0.10 to 90%	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.15)	Permanent

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	Insulated Cables				
142	Cross Linked Polyethylene Insulated Cables	Heat shock test sheath	Qualitative	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.14)	Permanent
143	Cross Linked Polyethylene Insulated Cables	Thermal Stability sheath	1.0 to 500 Minute	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.60)	Permanent
144	Cross Linked Polyethylene Insulated Cables	Carbon black Content for PE sheath	0.01 to 50%	Cl. 16.1 of IS7098(Pt.1) &IS 10810(Pt.32)	Permanent
145	Cross Linked Polyethylene Insulated Cables	Tensile strength for PE sheath	1.0 to 500N/mm2	Cl. 16.1 of IS7098(Pt.1) & IS 10810(Pt.7)	Permanent
146	Cross Linked Polyethylene Insulated Cables	Elongation at break for PE sheath	1.0 to 1500%	Cl. 16.1 of IS7098(Pt.1) & IS 10810(Pt.7)	Permanent
147	Cross Linked Polyethylene Insulated Cables	Hot deformation test for PE sheath	0.10 to 90%	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.15)	Permanent
148	Cross Linked Polyethylene Insulated Cables	Shrinkage test sheath for PE sheath	0.0 to 50%	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.12)	Permanent
149	Cross Linked Polyethylene Insulated Cables	Tensile strength for LSHF sheath	1.0 to 500N/mm2	Cl. 16.1 of IS7098(Pt.1) & IS 10810(Pt.7)	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
150	Cross Linked Polyethylene Insulated Cables	Elongation at break for LSHF sheath	1.0 to 1500%	Cl. 16.1 of IS7098(Pt.1) & IS 10810(Pt.7)	Permanent
151	Cross Linked Polyethylene Insulated Cables	Hot deformation test for LSHF sheath	0.10 to 90%	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.15)	Permanent
152	Cross Linked Polyethylene Insulated Cables	Water Absorption LSHF sheath	0.001 to100mg/cm2	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.33)	Permanent
153	Cross Linked Polyethylene Insulated Cables	Shrinkage test sheath for LSHF sheath	0.0 to 50%	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.12)	Permanent
154	Cross Linked Polyethylene Insulated Cables	Insulation resistance (Volume Resistivity)	1 - 100x1017 Ω-cm	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.43)	Permanent
155	Cross Linked Polyethylene Insulated Cables	High voltage Test	0.1 to 10 kV	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.45)	Permanent
156	Cross Linked Polyethylene Insulated Cables	Flammability test	1.0 to 600mm	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.53)	Permanent
157	Cross Linked Polyethylene Insulated Cables	Oxygen Index Test	21 % to 80%	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.58) ,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
158	Cross Linked Polyethylene Insulated Cables	Temperature Index Test	Amb. to 500°C	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.64) , ASTM D 2863-09	Permanent
159	Cross Linked Polyethylene Insulated Cables	Flame Retardance Test on Single Cable	0.50 to 1000mm	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.61) , SS-424-1475	Permanent
160	Cross Linked Polyethylene Insulated Cables	Flame retardance test on bunched cables	0.001 to 3.50 meter	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt.62) ,IEC 60332-3-22 IEC 60332-3-23 IEC 60332-3-24	Permanent
161	Cross Linked Polyethylene Insulated Cables	Smoke Density	Up to 90%	Cl. 16.1 of IS7098(Pt.1) / IS 13360 (Pt. 6/Sec 9) & ASTM D 2843	Permanent
162	Cross Linked Polyethylene Insulated Cables	Halogen Acid Gas	0.10 to 90%	Cl. 16.1 of IS7098(Pt.1) & IS:10810(Pt-59) , IEC 60754-1	Permanent
163	Cross Linked Polyethylene Insulated Cables	Test for pH (Cat. C)	0.1 pH to 14 pH	Cl. 16.1 of IS7098(Pt.1)	Permanent
164	Cross Linked Polyethylene Insulated Cables	Test for Conductivity (Cat. C)	0.1 µS/mm to 50 µS/mm	Cl. 16.1 of IS7098(Pt.1)	Permanent
165	Cross Linked Polyethylene Insulated Cables	Cold Bend Test	Qualitative	Cl. 16.4 of IS7098(Pt.1) & IS:10810(Pt.20)	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
166	Cross Linked Polyethylene Insulated Cables	Cold Impact Test	Qualitative	Cl. 16.4 of IS7098(Pt.1) & IS:10810(Pt.21)	Permanent
167	Cross Linked Polyethylene Insulated Cables	Cold elongation test for LSHF sheath	1.0 to 200%	Cl. 16.4 of IS7098(Pt.1) & IS:10810 (Pt.7)	Permanent
168	Cross Linked Polyethylene Insulated Cables	Armour Resistance Test	0.0100 to 1000 ohm/km	Cl. 16.4 of IS7098(Pt.1) & IS:10810(Pt.42)	Permanent
169	Aerial Bunched Cables	Nominal Cross sectional area of conductor	1.0 to 300 Sq.mm	Table 3 of IS 14255 & IS 8130	Permanent
170	Aerial Bunched Cables	Diameter of wires in conductor	0.001mm - 25 mm	IS 14255 & Cl. 6 of IS 8130	Permanent
171	Aerial Bunched Cables	Ratio of Diameter	1.0 to 50	IS 14255 & cl. 6 of IS 8130	Permanent
172	Aerial Bunched Cables	Number of wires in conductor	1.0 to 10000 Nos.	IS 14255 & Cl. 6 of IS 8130	Permanent
173	Aerial Bunched Cables	Tensile strength	1.0 to 500N/mm2	Cl. 10.1 of IS 14255 & IS 10810(Pt.2)	Permanent
174	Aerial Bunched Cables	Wrapping test	Qualitative	Cl. 10.1 of IS 14255 & IS:10810(Pt.3)	Permanent
175	Aerial Bunched Cables	Conductor resistance	0.0100 to 1000 ohm/km	Cl. 10.1 of IS 14255 & IS:10810(Pt.5)	Permanent
176	Aerial Bunched Cables	Silicon	0.02 to 5%	IS 14255 & IS:504(P-1)	Permanent
177	Aerial Bunched Cables	Magnesium	0.04 to 4%	IS 14255 & IS:504(P-6)	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	Aerial Bunched Cables	Test on Messenger Conductor Breaking Load	0.001 to 50 kN	Cl. 10.1 of IS 14255	Permanent
179	Aerial Bunched Cables	Elongation Test on Messenger	0.50 to 50%	Cl. 10.1 of IS 14255	Permanent
180	Aerial Bunched Cables	Conductor resistance on Messenger	0.0100 to 1000 ohm/km	Cl. 10.1 of IS 14255 & IS 10810(Pt.5)	Permanent
181	Aerial Bunched Cables	Tensile strength of insulation	1.0 to 500N/mm2	Cl. 10.1 of IS 14255 & IS 10810(Pt.7)	Permanent
182	Aerial Bunched Cables	Elongation at break of insulation	1.0 to 1500%	Cl. 10.1 of IS 14255 & IS 10810(Pt.7)	Permanent
183	Aerial Bunched Cables	Ageing in air oven (Tensile strength)	1.0 to 500N/mm2	Cl. 10.1 of IS 14255 & IS:10810(Pt11)	Permanent
184	Aerial Bunched Cables	Ageing in air oven (Elongation at break)	1.0 to 1500%	Cl. 10.1 of IS 14255 & IS:10810(Pt11)	Permanent
185	Aerial Bunched Cables	Ageing in air oven (Tensile Strength Variation)	0.10 to 90 %	Cl. 10.1 of IS 14255 & IS:10810(Pt11)	Permanent
186	Aerial Bunched Cables	Ageing in air oven (Elongation at break Variation)	0.10 to 90 %	Cl. 10.1 of IS 14255 & IS:10810(Pt11)	Permanent
187	Aerial Bunched Cables	Hot Set Test insulation	1.0 to 200%	Cl. 10.1 of IS 14255 & IS 10810(Pt.30)	Permanent
188	Aerial Bunched Cables	Shrinkage test insulation	0.25 to 50%	Cl. 10.1 of IS 14255 & IS 10810(Pt.12)	Permanent
189	Aerial Bunched Cables	Water Absorption (Gravimetric) insulation	0.01 to 100mg/ 0.02 0.03 cm2	Cl. 10.1 of IS 14255 & IS 10810(Pt.33)	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
190	Aerial Bunched Cables	Carbon black Content	0.01 to 50%	Cl. 10.1 of IS 14255 & IS 10810(Pt.32)	Permanent
191	Aerial Bunched Cables	Carbon black Dispersion	Qualitative	Cl. 10.1 of IS 14255 & IS 2530	Permanent
192	Aerial Bunched Cables	Physical test for PE insulation (Tensile strength)	1.0 to 500N/mm2	Cl. 10.1 of IS 14255 & IS 10810(Pt.7)	Permanent
193	Aerial Bunched Cables	Physical test for PE insulation (elongation at break)	1.0 to 1500%	Cl. 10.1 of IS 14255 & IS 10810(Pt.7)	Permanent
194	Aerial Bunched Cables	Melt flow index for PE insulation	0.05 to 50	Cl. 10.1 of IS 14255 & IS 10810(Pt.23)	Permanent
195	Aerial Bunched Cables	Carbon black Content PE insulation	0.01 to 50%	Cl. 10.1 of IS 14255 & IS 10810(Pt.32)	Permanent
196	Aerial Bunched Cables	Carbon black Dispersion PE insulation	Qualitative	Cl. 10.1 of IS 14255 & IS 2530	Permanent
197	Aerial Bunched Cables	Vicat softening point PE insulation	Amb. to 200° C	Cl. 10.1 of IS 14255 & IS 10810(Pt.22)	Permanent
198	Aerial Bunched Cables	Environmental stress cracking	Qualitative	Cl. 10.1 of IS 14255 & IS 10810(Pt.29)	Permanent
199	Aerial Bunched Cables	Thickness of Insulation	0.01mm - 150 mm	Cl. 10.1 of IS 14255 & IS: 10810(Pt.6)	Permanent
200	Aerial Bunched Cables	Application of insulation	Qualitative	Cl. 7.4 of IS 14255	Permanent
201	Aerial Bunched Cables	Colour of Insulation	Qualitative	Cl. 7.5 of IS 14255	Permanent
202	Aerial Bunched Cables	Core identification	Qualitative	Cl. 8 of IS 14255	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
203	Aerial Bunched Cables	Assembly (Laying up)	1.0 to 90	Cl. 9 of IS 14255	Permanent
204	Aerial Bunched Cables	Lay direction	Qualitative	Cl. 9.2 of IS 14255	Permanent
205	Aerial Bunched Cables	Insulation resistance (Volume Resistivity)	1 - 100x1017 Ω-cm	Cl. 10.1 of IS 14255 & IS:10810(Pt.43)	Permanent
206	Aerial Bunched Cables	High voltage Test	0.1 to -10 kV	Cl. 10.1 of IS 14255 & IS 10810(Pt.45)	Permanent
207	Aerial Bunched Cables	High voltage (water immersion) test	0.1 to -10 kV	Cl. 10.1 of IS 14255 & CENELAC HD 626 S1 A1/A2	Permanent
208	Aerial Bunched Cables	Bending test	Qualitative	Cl. 10.4 of IS 14255 & IS 10810(Pt.50)	Permanent
209	Aerial Bunched Cables	Manufacturer's Identification	Qualitative	Cl. 12.1 of IS 14255	Permanent
210	Aerial Bunched Cables	Cable Identification	Qualitative	Cl. 12.2 of IS 14255	Permanent
211	Elastomer Insulated Cables	Nominal Cross sectional area of conductor	0.50 to 630 Sq.mm	Cl. 11 of IS9968(Pt.1) & IS 8130	Permanent
212	Elastomer Insulated Cables	Diameter of wires in conductor	0.001mm - 25 mm	IS9968(Pt.1) & Cl. 6 of IS 8130	Permanent
213	Elastomer Insulated Cables	Ratio of Diameter	1.0 to 50	IS9968(Pt.1) & Cl. 6 of IS 8130	Permanent
214	Elastomer Insulated Cables	Number of wires in conductor	1.0 to 10000 Nos.	IS9968(Pt.1) & Cl. 6 of IS 8130	Permanent
215	Elastomer Insulated Cables	Persulphate test (for tinned Copper Conductor)	0.01 to 50g/m2	Cl. 22.1 of IS9968(Pt.1) & IS 10810(Pt.4)	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
216	Elastomer Insulated Cables	Annealing test for Copper Conductor	1.0 to 50%	Cl. 22.1 of IS9968(Pt.1) & IS:10810 (Pt.1)	Permanent
217	Elastomer Insulated Cables	Tensile strength for Aluminium Conductor	1.0 to 500N/mm2	Cl. 22.1 of IS9968(Pt.1) & IS:10810(Pt.2)	Permanent
218	Elastomer Insulated Cables	Wrapping test for Aluminium Conductor	Qualitative	Cl. 22.1 of IS9968(Pt.1) & IS:10810(Pt.3)	Permanent
219	Elastomer Insulated Cables	Conductor resistance	0.0100 to 1000 ohm/km	Cl. 22.1 of IS9968(Pt.1) & IS:10810(Pt.5)	Permanent
220	Elastomer Insulated Cables	Application insulation & sheath	Qualitative	Cl. 13.4 & 20 of IS9968(Pt.1)	Permanent
221	Elastomer Insulated Cables	Core identification	Qualitative	Cl. 14 of IS9968(Pt.1)	Permanent
222	Elastomer Insulated Cables	Laying up of cores	Qualitative	Cl. 18 of IS9968(Pt.1)	Permanent
223	Elastomer Insulated Cables	Value of lay in flexible cable	0.01mm - 3000 mm	Cl. 18 of IS9968(Pt.1) & IS:10810(Pt.6)	Permanent
224	Elastomer Insulated Cables	Colour of Sheath	Qualitative	Cl. 20.4 of IS9968(Pt.1)	Permanent
225	Elastomer Insulated Cables	Thickness of Insulation and Sheath and Overall dimensions	0.01mm - 150 mm	Cl. 22.1 of IS9968(Pt.1) & IS:10810(Pt.6)	Permanent
226	Elastomer Insulated Cables	Tape	Qualitative	Cl. 6 of IS9968(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
227	Elastomer Insulated Cables	Filler	Qualitative	Cl. 7 of IS9968(Pt.1)	Permanent
228	Elastomer Insulated Cables	Braid	Qualitative	Cl. 8 of IS9968(Pt.1)	Permanent
229	Elastomer Insulated Cables	Compound and Varnish	Qualitative	Cl. 10 of IS9968(Pt.1)	Permanent
230	Elastomer Insulated Cables	Earth Continuity Conductor	Qualitative	Cl. 11.1.2 of IS9968(Pt.1)	Permanent
231	Elastomer Insulated Cables	Interval between numerals	0.01mm - 1000 mm	Cl. 14 of IS9968(Pt.1) & IS:10810(Pt.6)	Permanent
232	Elastomer Insulated Cables	Tensile strength of insulation / sheath	1.0 to 500N/mm2	Cl. 22.1 of IS9968(Pt.1) & IS:10810(Pt.7)	Permanent
233	Elastomer Insulated Cables	Elongation at break of insulation / sheath	1.0 to 1500%	Cl. 22.1 of IS9968(Pt.1) & IS:10810(Pt.7)	Permanent
234	Elastomer Insulated Cables	Ageing in air oven Tensile strength of insulation / sheath	1.0 to 500N/mm2	Cl. 22.1 of IS9968(Pt.1) & IS:10810(Pt.11)	Permanent
235	Elastomer Insulated Cables	Ageing in air oven Elongation at break of insulation / sheath	1.0 to 1500%	Cl. 22.1 of IS9968(Pt.1) & IS:10810(Pt.11)	Permanent
236	Elastomer Insulated Cables	Ageing in air oven (Tensile Strength Variation)	0.01 to 90 %	Cl. 22.1 of IS9968(Pt.1) & IS:10810(Pt11)	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
237	Elastomer Insulated Cables	Ageing in air oven (Elongation at break Variation)	0.01 to 90 %	Cl. 22.1 of IS9968(Pt.1) IS: 10810(Pt11)	Permanent
238	Elastomer Insulated Cables	Ageing in air bomb Tensile strength of insulation / sheath	1.0 to 500N/mm2	Cl. 22.1 of IS9968(Pt.1) & IS:10810(Pt.56)	Permanent
239	Elastomer Insulated Cables	Ageing in air bomb Elongation at break of insulation / sheath	1.0 to 1500%	Cl. 22.1 of IS9968(Pt.1) & IS:10810(Pt.56)	Permanent
240	Elastomer Insulated Cables	Ageing in air bomb (Tensile Strength Variation)insulation / sheath	0.01 to 90 %	Cl. 22.1 of IS9968(Pt.1) & IS:10810(Pt.56)	Permanent
241	Elastomer Insulated Cables	Ageing in air bomb (Elongation at break Variation) insulation / sheath	0.01 to 90 %	Cl. 22.1 of IS9968(Pt.1) & IS:10810(Pt.56)	Permanent
242	Elastomer Insulated Cables	Ageing in oxygen bomb Tensile strength of insulation / sheath	1.0 to 500N/mm2	Cl. 22.1 of IS9968(Pt.1) & IS:10810(Pt.16)	Permanent
243	Elastomer Insulated Cables	Ageing in oxygen bomb Elongation at break of insulation / sheath	1.0 to 1500%	Cl. 22.1 of IS9968(Pt.1) &I S:10810(Pt.16)	Permanent
244	Elastomer Insulated Cables	Ageing in oxygen bomb (Tensile Strength Variation)	0.01 to 90 %	Cl. 22.1 of IS9968(Pt.1) & IS:10810(Pt16)	Permanent
245	Elastomer Insulated Cables	Ageing in oxygen bomb (Elongation at break Variation)	0.01 to 90 %	Cl. 22.1 of IS9968(Pt.1) IS: 10810(Pt16)	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
246	Elastomer Insulated Cables	Hot Set Test (Elongation Under Load)	0.1 to 200%	Cl. 22.1 of IS9968(Pt.1) & IS 10810(Pt.30)	Permanent
247	Elastomer Insulated Cables	Hot Set Test (Elongation Permanent Set)	0.1 to 200%	Cl. 22.1 of IS9968(Pt.1) & IS 10810(Pt.30)	Permanent
248	Elastomer Insulated Cables	Oil resistance Tensile strength of insulation / sheath	1.0 to 500N/mm2	Cl. 22.1 of IS9968(Pt.1) & IS : 10810 (Pt.31)	Permanent
249	Elastomer Insulated Cables	Oil resistance Elongation at break of insulation / sheath	1.0 to 1500%	Cl. 22.1 of IS9968(Pt.1) & IS : 10810 (Pt.31)	Permanent
250	Elastomer Insulated Cables	Oil resistance Tensile strength Variation of insulation / sheath	0.01 to 90 %	Cl. 22.1 of IS9968(Pt.1) & IS : 10810 (Pt.31)	Permanent
251	Elastomer Insulated Cables	Oil resistance Elongation at break Variation of insulation / sheath	0.01 to 90 %	Cl. 22.1 of IS9968(Pt.1) & IS : 10810 (Pt.31)	Permanent
252	Elastomer Insulated Cables	Tear resistance	0.1 to 500N/mm	Cl. 22.1 of IS9968(Pt.1) & IS : 10810(Pt.17)	Permanent
253	Elastomer Insulated Cables	Insulation resistance	1 - 1000x106 MΩ	Cl. 22.1 of IS9968(Pt.1) & IS:10810(Pt.43)	Permanent
254	Elastomer Insulated Cables	High voltage Test (Water Immersion)	0.1 to -10 kV	Cl. 22.1 of IS9968(Pt.1) & IS:10810(Pt.45)	Permanent
255	Elastomer Insulated Cables	Flammability test	1.0 to 600mm	Cl. 22.1 of IS9968(Pt.1) & IS:10810(Pt.53)	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
256	Elastomer Insulated Cables	Water absorption test (Electrical)	1pF -1100µF	Cl. 22.1 of IS9968(Pt.1) & IS : 10810 (Pt.28)	Permanent
257	Elastomer Insulated Cables	Cord Flexing test	0-999999 (Counts.)	Cl. 22.1, Annex C of IS9968(Pt.1)	Permanent
258	Elastomer Insulated Cables	Manufactures Identification	Qualitative	Cl. 24.1 of IS9968(Pt.1)	Permanent
259	Elastomer Insulated Cables	Cable Identification	Qualitative	Cl. 24.2 of IS9968(Pt.1)	Permanent
260	Elastomer Insulated Cables	Cable code	Qualitative	Cl. 24.3 of IS9968(Pt.1)	Permanent
261	Welding Cables	Nominal Cross sectional area of conductor	0.50 to 120 Sq.mm	Cl. 4 of IS 9857 & & IS 8130	Permanent
262	Welding Cables	Diameter of wires in conductor	0.001mm - 25 mm	IS 9857 & Cl. 6 of IS 8130	Permanent
263	Welding Cables	Number of wires in conductor	1 to 10000 Nos.	IS 9857 & Cl. 6 of IS 8130	Permanent
264	Welding Cables	Separator	Qualitative	Cl. 5 & 8 of IS 9857	Permanent
265	Welding Cables	Annealing test	1.0 to 50%	Cl. 10.1 of IS 9857 & IS:10810(Pt.1)	Permanent
266	Welding Cables	Tensile strength for Aluminium Conductor	1.0 to 500N/mm2	Cl. 10.1 of IS 9857 & IS:10810(Pt.2)	Permanent
267	Welding Cables	Conductor resistance	0.0100 to 1000 ohm/km	Cl. 10.1 of IS 9857 & IS:10810(Pt.5)	Permanent
268	Welding Cables	Thickness of Covering	0.01mm - 150 mm	Cl. 10.1 of IS 9857 & IS:10810(Pt.6)	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
269	Welding Cables	Application of Covering	Qualitative	Cl. 9.4 of IS 9857	Permanent
270	Welding Cables	Colour of Covering	Qualitative	Cl. 9.5 of IS 9857	Permanent
271	Welding Cables	Tensile strength	1.0 to 500N/mm2	Cl. 10.1 of IS 9857 & IS:10810(Pt.7)	Permanent
272	Welding Cables	Elongation at break	1.0 to 1500%	Cl. 10.1 of IS 9857 & IS:10810(Pt.7)	Permanent
273	Welding Cables	Ageing in air oven (Tensile Strength)	1.0 to 500N/mm2	Cl. 10.1 of IS 9857 & IS:10810(Pt.11)	Permanent
274	Welding Cables	Ageing in air oven (Elongation at break)	1.0 to 1500%	Cl. 10.1 of IS 9857 & IS:10810(Pt.11)	Permanent
275	Welding Cables	Ageing in air oven (Tensile Strength Variation)	0.01 to 90 %	Cl. 10.1 of IS 9857 & IS:10810(Pt.11)	Permanent
276	Welding Cables	Ageing in air oven (Elongation at break Variation)	0.01 to 90 %	Cl. 10.1 of IS 9857 & IS:10810(Pt.11)	Permanent
277	Welding Cables	Ageing in air bomb (Tensile Strength)	1.0 to 500N/mm2	Cl. 10.1 of IS 9857 & IS:10810(Pt.56)	Permanent
278	Welding Cables	Ageing in air bomb (Elongation at break)	1.0 to 1500%	Cl. 10.1 of IS 9857 &IS:10810(Pt.56)	Permanent
279	Welding Cables	Ageing in air bomb (Tensile Strength Variation)	0.01 to 90 %	Cl. 10.1 of IS 9857 & IS:10810(Pt.56)	Permanent
280	Welding Cables	Ageing in air bomb (Elongation at break Variation)	0.01 to 90 %	Cl. 10.1 of IS 9857 & IS:10810(Pt.56)	Permanent
281	Welding Cables	Oil resistance (Tensile Strength)	1.0 to 500N/mm2	Cl. 10.1 of IS 9857 & IS : 10810(Pt.31)	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
282	Welding Cables	Oil resistance (Elongation at break)	1.0 to 1500%	Cl. 10.1 of IS 9857 & IS : 10810(Pt.31)	Permanent
283	Welding Cables	Oil resistance (Tensile Strength Variation)	0.01 to 90 %	Cl. 10.1 of IS 9857 & IS : 10810(Pt.31)	Permanent
284	Welding Cables	Oil resistance (Elongation at break Variation)	0.01 to 90 %	Cl. 10.1 of IS 9857 & IS : 10810(Pt.31)	Permanent
285	Welding Cables	Hot Set Test (Under Load)	0.10 to 300%	Cl. 10.1 of IS 9857 & IS 10810(Pt.30)	Permanent
286	Welding Cables	Hot Set Test (Permanent Set)	0.10 to 300%	Cl. 10.1 of IS 9857 & IS 10810(Pt.30)	Permanent
287	Welding Cables	High voltage Test (Water Immersion)	0.1 to -10 kV	Cl. 10.1 of IS 9857 & IS:10810(Pt.45)	Permanent
288	Welding Cables	Static flexibility test	1mm -1000mm	Cl. 10.1 of IS 9857 & IS :10810(Pt.54)	Permanent
289	Welding Cables	Flammability test	1mm to 600mm	Cl. 10.1 of IS 9857 & IS:10810(Pt.53)	Permanent
290	Welding Cables	Manufactures Identification	Qualitative	Cl. 12.1 of IS 9857	Permanent
291	Welding Cables	Cable Identification	Qualitative	Cl. 12.2 of IS 9857	Permanent
292	Welding Cables	Cable code	Qualitative	Cl. 12.3 of IS 9857	Permanent
293	Halogen Free Flame Retardant (HFFR) Cables	Nominal Cross sectional area of conductor	0.5 to 1000 Sq.mm	Cl. 11, 12, 13, 14, 15 of IS 17048 & IS 8130	Permanent
294	Halogen Free Flame Retardant (HFFR) Cables	Diameter of wires in conductor	0.001mm - 25 mm	IS 17048 & Cl. 6 of IS 8130	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	Halogen Free Flame Retardant (HFFR) Cables	Ratio of Diameter	1 to 50	IS 17048 & Cl. 6 of IS 8130	Permanent
296	Halogen Free Flame Retardant (HFFR) Cables	Number of wires in conductor	1 to 10000 Nos.	IS 17048 & Cl. 6 of IS 8130	Permanent
297	Halogen Free Flame Retardant (HFFR) Cables	Conductor resistance	0.0100 to 1000 ohm/km	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 5)	Permanent
298	Halogen Free Flame Retardant (HFFR) Cables	Annealing test for Copper Conductor	1.0 to 50%	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 1)	Permanent
299	Halogen Free Flame Retardant (HFFR) Cables	Persulphate test for tinned copper	0.01 to 50g/m2	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt -4)	Permanent
300	Halogen Free Flame Retardant (HFFR) Cables	Tensile strength for Aluminium Conductor	1.0 to 500N/mm2	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 2)	Permanent
301	Halogen Free Flame Retardant (HFFR) Cables	Wrapping test for Aluminium Conductor	Qualitative	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 3)	Permanent
302	Halogen Free Flame Retardant (HFFR) Cables	Test for Overall Dimensions and Thickness of Insulation & Sheath	0.01 mm -150 mm	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 6)	Permanent
303	Halogen Free Flame	Ovality	0.01 to 90 %	Cl. 4.5.5.1 of IS 17048	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
	Retardant (HFFR) Cables				
304	Halogen Free Flame Retardant (HFFR) Cables	Application insulation & sheath	Qualitative	Cl. 4.2.2 & 4.5.2 of IS 17048	Permanent
305	Halogen Free Flame Retardant (HFFR) Cables	Colour of sheath	Qualitative	Cl. 4.5.6 of IS 17048	Permanent
306	Halogen Free Flame Retardant (HFFR) Cables	Filler	Qualitative	Cl 4.3 of IS 17048	Permanent
307	Halogen Free Flame Retardant (HFFR) Cables	Binder Tape	Qualitative	Cl 4.4 of IS 17048	Permanent
308	Halogen Free Flame Retardant (HFFR) Cables	Assembly of cores	Qualitative	Cl. 13.3, 14.3, 15.3 of IS 17048	Permanent
309	Halogen Free Flame Retardant (HFFR) Cables	Tensile strength insulation and sheath	1.0 to 200 N/mm2	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 7)	Permanent
310	Halogen Free Flame Retardant (HFFR) Cables	Elongation at break of insulation and sheath	1.0 to 800 %	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 7)	Permanent
311	Halogen Free Flame Retardant (HFFR) Cables	Ageing in air oven (Tensile strength) insulation and sheath	1.0 to 500N/mm2	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 11)	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
312	Halogen Free Flame Retardant (HFFR) Cables	Ageing in air oven (Elongation at break) insulation and sheath	1.0 to 1500%	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 11)	Permanent
313	Halogen Free Flame Retardant (HFFR) Cables	Ageing in air oven (Tensile strength variation) insulation and sheath	0.01 to 90 %	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 11)	Permanent
314	Halogen Free Flame Retardant (HFFR) Cables	Ageing in air oven (Elongation at break variation) insulation and sheath	0.01 to 90 %	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 11)	Permanent
315	Halogen Free Flame Retardant (HFFR) Cables	High voltage Test (AC)	0.1 to -10 kV	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 45)	Permanent
316	Halogen Free Flame Retardant (HFFR) Cables	Insulation resistance	1 – 100 x 106 MΩ	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 43)	Permanent
317	Halogen Free Flame Retardant (HFFR) Cables	Oxygen Index Test (Insulation and sheath)	21 % to 80%	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 58) , ASTM D 2863-09	Permanent
318	Halogen Free Flame Retardant (HFFR) Cables	Temperature Index Test (Insulation and sheath)	Amb. to 500°C	IS 17048 & IS 10810 (Pt -64) ASTM D 2863-09	Permanent
319	Halogen Free Flame Retardant (HFFR) Cables	Hot deformation test (Insulation and sheath)	0.1 to 90%	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 15)	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
320	Halogen Free Flame Retardant (HFFR) Cables	Assessment of Halogen (Insulation and sheath)	0.1% to 40 %	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & Annex D IS 10810(Pt-59)	Permanent
321	Halogen Free Flame Retardant (HFFR) Cables	Assessment of halogen on insulation and sheath - Conductivity test	0.1 µS/mm to 50 µS/mm	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & Annex D IS 10810(Pt-59)	Permanent
322	Halogen Free Flame Retardant (HFFR) Cables	Assessment of halogen on insulation and sheath - Fluorine content	0.004% to 10 %	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & Annex D IS 10810(Pt-59)	Permanent
323	Halogen Free Flame Retardant (HFFR) Cables	Assessment of halogen on insulation and sheath- pH test	0.1 pH to 14 pH	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & Annex D IS 10810(Pt-59)	Permanent
324	Halogen Free Flame Retardant (HFFR) Cables	Cold Bend Test (Insulation and sheath)	Qualitative	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 20)	Permanent
325	Halogen Free Flame Retardant (HFFR) Cables	Cold Impact Test (Insulation and sheath)	Qualitative	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 21)	Permanent
326	Halogen Free Flame Retardant (HFFR) Cables	Hot Set Test (Insulation and sheath)	0.1 to 400 %	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 30)	Permanent
327	Halogen Free Flame Retardant (HFFR) Cables	Ozone resistance test (Insulation and sheath)	Amb.- 100°C Amb.- 99 % RH	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt.13)	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
328	Halogen Free Flame Retardant (HFFR) Cables	Flame Retardant Test	1mm to 850 mm	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 61) SS-424-1475	Permanent
329	Halogen Free Flame Retardant (HFFR) Cables	Test on Fillers/Dummy Cores and Binder Tapes/Identification Threads(if any) Assessment of Halogen	0.1% to 40 % by weight	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & Annex D IS 10810(Pt-59)	Permanent
330	Halogen Free Flame Retardant (HFFR) Cables	Flammability test	1mm to 600 mm	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS: 10810 (Pt 53)	Permanent
331	Halogen Free Flame Retardant (HFFR) Cables	Cold Bend Test	Qualitative	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 20)	Permanent
332	Halogen Free Flame Retardant (HFFR) Cables	Cold Impact Test	Qualitative	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 21)	Permanent
333	Halogen Free Flame Retardant (HFFR) Cables	Water Immersion test(Effect of water on sheath of cable) Tensile strength	1.0 to 200 N/mm2	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 &Annex B IS 10810 (Pt 7)	Permanent
334	Halogen Free Flame Retardant (HFFR) Cables	Water Immersion test(Effect of water on sheath of cable) Elongation at break	1.0 to 800 %	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & Annex B IS 10810 (Pt 7)	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
335	Halogen Free Flame Retardant (HFFR) Cables	Water Immersion test(Effect of water on sheath of cable) Tensile strength Variation	0.01 to 90 %	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & Annex B IS 10810 (Pt 7)	Permanent
336	Halogen Free Flame Retardant (HFFR) Cables	Water Immersion test(Effect of water on sheath of cable) Elongation at break Variation	0.01 to 90 %	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 &Annex B IS 10810 (Pt 7)	Permanent
337	Halogen Free Flame Retardant (HFFR) Cables	Smoke Density	0.10 to 100 %	Cl. 11.4, 12.4, 13.7, 14.7 & 15.7 of IS 17048 & IS 10810 (Pt 63)	Permanent
338	Halogen Free Flame Retardant (HFFR) Cables	Core identification	Qualitative	Cl.6 of IS 17048	Permanent
339	Halogen Free Flame Retardant (HFFR) Cables	Cable Identification	Qualitative	Cl.9 of IS 17048	Permanent
340	Halogen Free Flame Retardant (HFFR) Cables	Cable Code	Qualitative	Cl.7 of IS 17048	Permanent
341	Thermosetting Insulated Fire Survival Cables	Nominal Cross sectional area of conductor	0.50 to 1000 Sq.mm	Cl. 10 of IS 17505 (Part1) & IS 8130	Permanent
342	Thermosetting Insulated Fire Survival Cables	Diameter of wires in conductor	0.001mm - 25 mm	IS 17505 (Part1) & Cl. 6 of IS 8130	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
343	Thermosetting Insulated Fire Survival Cables	Ratio of Diameter	1.0 to 50	IS 17505 (Part1) & Cl. 6 of IS 8130	Permanent
344	Thermosetting Insulated Fire Survival Cables	Number of wires in conductor	1 to 10000 Nos.	IS 17505 (Part1) & Cl 6 of IS 8130	Permanent
345	Thermosetting Insulated Fire Survival Cables	Tape	Qualitative	Cl. 5 of IS 17505 (Part1)	Permanent
346	Thermosetting Insulated Fire Survival Cables	Annealing test for Copper Conductor	1.0 to 50%	Cl. 17.1 of IS 17505 (Part1) & IS 10810(Pt 1)	Permanent
347	Thermosetting Insulated Fire Survival Cables	Persulphate test for tinned copper	0.01 to 50g/m2	Cl. 17.1 of IS 17505 (Part1) & IS 10810 (Pt -4)	Permanent
348	Thermosetting Insulated Fire Survival Cables	Conductor resistance	0.0100 to 1000 ohm/km	Cl. 17.1 of IS 17505 (Part1) & IS 10810 (Pt 5)	Permanent
349	Thermosetting Insulated Fire Survival Cables	Application insulation & sheath	Qualitative	Cl. 11.4 & 16.1 of IS 17505 (Part 1)	Permanent
350	Thermosetting Insulated Fire Survival Cables	Core Identification	Qualitative	Cl. 12 of IS 17505 (Part 1)	Permanent
351	Thermosetting Insulated Fire Survival Cables	Laying up of cores	Qualitative	Cl. 13 of IS 17505 (Part 1)	Permanent
352	Thermosetting Insulated Fire Survival Cables	Filler and Inner sheath	Qualitative	Cl. 7 of IS 17505 (Part 1)	Permanent
353	Thermosetting Insulated Fire Survival Cables	Colour of sheath	Qualitative	Cl. 16.1 of IS 17505 (Part 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
354	Thermosetting Insulated Fire Survival Cables	Type of Armoring	Qualitative	Cl. 15 of IS 17505 (Part 1)	Permanent
355	Thermosetting Insulated Fire Survival Cables	Application of armouring	Qualitative	Cl. 15.1 of IS 17505 (Part 1)	Permanent
356	Thermosetting Insulated Fire Survival Cables	Direction of armouring	Qualitative	Cl. 15.1.3 of IS 17505 (Part 1)	Permanent
357	Thermosetting Insulated Fire Survival Cables	Dimension of armouring material	0.01 mm to 25 mm	Cl. 15.3 of IS 17505 (Part 1) & IS:10810(Pt. 36)	Permanent
358	Thermosetting Insulated Fire Survival Cables	Tensile strength of armouring material	1.0 to 500 N/ Sq.mm	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt. 37)	Permanent
359	Thermosetting Insulated Fire Survival Cables	Elongation at break for armouring material	1.0 to 800 %	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt. 37)	Permanent
360	Thermosetting Insulated Fire Survival Cables	Torsion test on galvanized steel wire for armouring	1 to 999 Turns	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt. 38)	Permanent
361	Thermosetting Insulated Fire Survival Cables	Uniformity of zinc coating (dip test)	Qualitative	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt. 40)	Permanent
362	Thermosetting Insulated Fire Survival Cables	Mass of zinc coating	0.5 to 500 g/ m2	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt. 41)	Permanent

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Amendment date: N/A

Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
363	Thermosetting Insulated Fire Survival Cables	Resistivity test of armour	1 ohm – cm to 20 x10-6 ohm-cm	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt. 42)	Permanent
364	Thermosetting Insulated Fire Survival Cables	Joints of Armour (Wires/strips)	Qualitative	Cl. 15.5 of IS 17505 (Part 1)	Permanent
365	Thermosetting Insulated Fire Survival Cables	Armouring Resistance	0.01 ohm/km to 1000 ohm/km	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt.5 & 42)	Permanent
366	Thermosetting Insulated Fire Survival Cables	Armouring Coverage	10 to 100 %	Cl. 17.1 of IS 17505 (Part 1) Cl 15.1.2 & Annex B	Permanent
367	Thermosetting Insulated Fire Survival Cables	Test for Thickness of Insulation and Sheath	0.01 to 150 mm	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt.6)	Permanent
368	Thermosetting Insulated Fire Survival Cables	Tensile Strength of Insulation and Sheath	1.0 to 200 N/sq.mm	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt.7)	Permanent
369	Thermosetting Insulated Fire Survival Cables	Elongation at break of Insulation and Sheath	1.0 to 800 %	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt.7)	Permanent
370	Thermosetting Insulated Fire Survival Cables	Ageing in air oven Tensile Strength of Insulation and Sheath	1.0 to 200 N/mm2	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt.11)	Permanent
371	Thermosetting Insulated Fire Survival Cables	Ageing in air oven Elongation at break of Insulation and Sheath	1.0 to 800 %	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt.11)	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
372	Thermosetting Insulated Fire Survival Cables	Ageing in air oven of Insulation and Sheath (Tensile Strength Variation)	0.01 to 90 %	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt.11)	Permanent
373	Thermosetting Insulated Fire Survival Cables	Ageing in air oven of Insulation and Sheath (Elongation at break Variation)	0.01 to 90 %	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt.11)	Permanent
374	Thermosetting Insulated Fire Survival Cables	Hot Set Test Insulation and Sheath	1.0 to 200 %	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt.30)	Permanent
375	Thermosetting Insulated Fire Survival Cables	Shrinkage Test	0.25 to 50 %	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt.12)	Permanent
376	Thermosetting Insulated Fire Survival Cables	Heat Shock	Qualitative	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt.14)	Permanent
377	Thermosetting Insulated Fire Survival Cables	Hot Deformation Test	1.0 to 90 %	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt.15)	Permanent
378	Thermosetting Insulated Fire Survival Cables	Cold Bend Test	Qualitative	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt.20)	Permanent
379	Thermosetting Insulated Fire Survival Cables	Cold Impact Test	Qualitative	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt.21)	Permanent
380	Thermosetting Insulated Fire Survival Cables	Water Absorption (Gravimetric)	0.001 to 20 mg/sq.cm	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt.33)	Permanent
381	Thermosetting Insulated Fire Survival Cables	Oxygen Index Test	21 % 80 %	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt.58)	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
382	Thermosetting Insulated Fire Survival Cables	Temperature index test	Amb. to 500° C	Cl. 17.1 of IS 17505 (Part 1) & IS:10810(Pt.64)	Permanent
383	Thermosetting Insulated Fire Survival Cables	Assessment of halogen on insulation and sheath - Chlorine and bromine content expressed as content of HCL	0.1% to 40 %	Cl. 17.1 of IS 17505 (Part 1) Table -1 & 2 & Annex F	Permanent
384	Thermosetting Insulated Fire Survival Cables	Assessment of halogen on insulation and sheath - Conductivity test	0.1 µS/mm to 50 µS/mm	Cl. 17.1 of IS 17505 (Part 1) Table -1 & 2 & Annex F	Permanent
385	Thermosetting Insulated Fire Survival Cables	Assessment of halogen on insulation and sheath - Fluorine content	0.004% to 10 %	Cl. 17.1 of IS 17505 (Part 1) Table -1 & 2 & Annex F	Permanent
386	Thermosetting Insulated Fire Survival Cables	Assessment of halogen on insulation and sheath - Presence of fluorine	Qualitative	Cl. 17.1 of IS 17505 (Part 1) Table -1 & 2 & Annex F	Permanent
387	Thermosetting Insulated Fire Survival Cables	Assessment of halogen on insulation and sheath- pH test	0.1 pH to 14 pH	Cl. 17.1 of IS 17505 (Part 1), Table -1 & 2 &	Permanent
388	Thermosetting Insulated Fire Survival Cables	Smoke density	0.1 to 100%	IS 17505 (Part 1), Cl. 17.1& 18.8 Table 9	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
389	Thermosetting Insulated Fire Survival Cables	Ozone resistance test	Qualitative	IS 17505 (Part 1), Cl. 17.1&18.6 Table - 9	Permanent
390	Thermosetting Insulated Fire Survival Cables	Insulation resistance test (Volume resistivity)	1 ohm cm to 100 x 10 17 ohm cm	IS 17505 (Part 1), Cl. 17.1Table- 1 & 9	Permanent
391	Thermosetting Insulated Fire Survival Cables	Water immersion test (effect of water on sheath of cable) on finished cable Elongation at break variation	1.0 to 800 %	IS 17505 (Part 1), Cl.17.1& 18.9 & Table 2 & 9	Permanent
392	Thermosetting Insulated Fire Survival Cables	Water immersion test (effect of water on sheath of cable) on finished cable Tensile Strength variation	1.0 to 200 N/sq.mm	IS 17505 (Part 1), Cl.17.1& 18.9 Table 2 & 9	Permanent
393	Thermosetting Insulated Fire Survival Cables	High voltage test	0.1 to -10 kV	IS 17505 (Part 1), Cl. 17.1& 18.2 Table- 9	Permanent
394	Thermosetting Insulated Fire Survival Cables	Flame test on single cable	1mm to 850 mm	IS 17505 (Part 1), Cl. 17.1, 18.5.1Table- 9	Permanent
395	Thermosetting Insulated Fire Survival Cables	Flame test on bunched cable	0.001 to 3.5 meter	IS 17505 (Part 1)2021, Cl. 17.1, 18.5.2 Table 9	Permanent
396	Thermosetting Insulated Fire Survival Cables	Abrasion resistance test	Qualitative	Cl. 17.1 of IS 17505 (Part1) Cl.18.3 & Table 9 & Annex D	Permanent
397	Thermosetting Insulated Fire Survival Cables	Identification	Qualitative	Cl. 17.1 of IS 17505 (Part1) Cl.19	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
398	Thermosetting Insulated Fire Survival Cables	Cable Code	Qualitative	Cl. 17.1 of IS 17505 (Part1) Cl.19.4	Permanent
399	Electric Cables for Photovoltaic Systems	Nominal Cross sectional area of conductor	0.50 to 400 Sq.mm	IS 17293 , Table 1, 2 & IS 8130	Permanent
400	Electric Cables for Photovoltaic Systems	Ratio of Diameter	1.0 to 50	IS 17293 & Cl. 6 of IS 8130	Permanent
401	Electric Cables for Photovoltaic Systems	Number of wires in conductor	1 to 10000 Nos.	IS 17293 & Cl. 6 of IS 8130	Permanent
402	Electric Cables for Photovoltaic Systems	Annealing test for Copper Conductor	1.0 to 50%	Cl. 3.1& table 3 of IS 17293 & IS 8130	Permanent
403	Electric Cables for Photovoltaic Systems	Checking continuity of Tin (Persulphate test)	0.01 to 50g/m2	Cl. 3.1& table 3 of IS 17293 & IS 8130 & IS 10810(Pt. 4)	Permanent
404	Electric Cables for Photovoltaic Systems	Conductor Resistance	0.0100 to 1000 ohm/km	Cl. 3.1& table 3 of IS 17293 & IS 10810(Pt. 5)	Permanent
405	Electric Cables for Photovoltaic Systems	Voltage test on complete cable with a.c. or d.c.	0.01 to -10 kV	IS 17293 Cl.11.2.1& IS 10810(Pt. 45) & Table-3	Permanent
406	Electric Cables for Photovoltaic Systems	Checking of absence of faults on the insulation (or on complete cable)	Qualitative	IS 17293 Cl.11.2.2 & Table -3 & IS10810(Pt. 44)	Permanent
407	Electric Cables for Photovoltaic Systems	Measurement of the Insulation resistance	1 Mohm km to 1000x106 Mohm km	IS 17293 Cl.11.2.3 & IS 10810(Pt. 43) Table-1,2,3	Permanent

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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
408	Electric Cables for Photovoltaic Systems	Long term resistance of insulation to d.c.	Qualitative	IS 17293 Cl.11.2.4 &Table -3	Permanent
409	Electric Cables for Photovoltaic Systems	Surface resistance of sheath	1 ohm cm to 100 x 10 17 ohm cm	IS 17293 Cl.11.2.5.2 & Table-3	Permanent
410	Electric Cables for Photovoltaic Systems	Maximum Diameter of wire in conductor	0.001mm - 25 mm	IS 17293 & Cl. 6 of IS 8130	Permanent
411	Electric Cables for Photovoltaic Systems	Insulation and sheath thickness	0.01 to 10 mm	IS 17293 Cl.5.3 & 6.3 &Table -1,2,3	Permanent
412	Electric Cables for Photovoltaic Systems	Ovality	0.01 to 100 %	IS 17293 Table -3 & Cl.11.3.3	Permanent
413	Electric Cables for Photovoltaic Systems	Sheath Colour	Qualitative	IS 17293 Cl.6.4 &Table -3	Permanent
414	Electric Cables for Photovoltaic Systems	Sheath Marking	Qualitative	IS 17293 Cl.9 &Table -3	Permanent
415	Electric Cables for Photovoltaic Systems	Tensile strength and on insulation and sheath	1.0 to 500 N/mm2	Cl. 3.1& table 3 of IS 17293 Annex B & Table 11 & IS 10810(Pt. 7)	Permanent
416	Electric Cables for Photovoltaic Systems	Elongation at break on insulation and sheath	1.0 to 800 %	Cl. 3.1& table 3 of IS 17293 Annex B & Table 11& IS 10810(Pt. 7)	Permanent
417	Electric Cables for Photovoltaic Systems	After Ageing (Tensile strength and on insulation and sheath)	1.0 to 500 N/mm2	Cl. 3.1& table 3 of IS 17293 Annex B & Table 11 & IS 10810(Pt. 11)	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
418	Electric Cables for Photovoltaic Systems	After Ageing (Elongation at break on insulation and sheath)	1.0 to 800 %	Cl. 3.1& table 3 of IS 17293 Annex B & Table 11& IS 10810(Pt. 11)	Permanent
419	Electric Cables for Photovoltaic Systems	After Ageing (Tensile strength and on insulation and sheath Variation)	1.0 to 90 %	Cl. 3.1& table 3 of IS 17293 Annex B & Table 11 & IS 10810(Pt. 11)	Permanent
420	Electric Cables for Photovoltaic Systems	After Ageing (Elongation at break on insulation and sheath Variation)	1.0 to 90 %	Cl. 3.1& table 3 of IS 17293 Annex B & Table 11& IS 10810(Pt. 11)	Permanent
421	Electric Cables for Photovoltaic Systems	Hot set test	1.0 to 500%	Cl. 3.1& table 3 of IS 17293 Annex B Table 11 & IS 10810(Pt. 30)	Permanent
422	Electric Cables for Photovoltaic Systems	Thermal endurance test	1.0 to 500 %	Cl. 3.1& table 3 of IS 17293 Annex B & Table 11 & IS 8504(Pt. 1 & 2)	Permanent
423	Electric Cables for Photovoltaic Systems	Bending test at low Temperature	Qualitative	Cl. 3.1& table 3 of IS 17293 & IS 10810(Pt. 20)	Permanent
424	Electric Cables for Photovoltaic Systems	Sheath resistance against acid and alkaline solution (Tensile Strength)	1.0 to 200 N/mm2	Cl. 3.1& table 3 of IS 17293 Table 11 & Annex I	Permanent
425	Electric Cables for Photovoltaic Systems	Sheath resistance against acid and alkaline solution (Tensile Strength Variation)	0.01 to 90 %	Cl. 3.1& table 3 of IS 17293 Table 11 & Annex I	Permanent

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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
426	Electric Cables for Photovoltaic Systems	Sheath resistance against acid and alkaline solution (Elongation at break)	1.0 to 500 %	Cl. 3.1& table 3 of IS 17293 Table 11 & Annex I	Permanent
427	Electric Cables for Photovoltaic Systems	Compatibility test Ageing in air oven of Insulation and Sheath (Tensile Strength Variation)	0.01 to 90 %	Cl. 3.1& table 3 of IS 17293 & IS 10810(Pt. 11)	Permanent
428	Electric Cables for Photovoltaic Systems	Compatibility test Ageing in air oven of Insulation and Sheath (Elongation at break Variation)	0.01 to 90 %	Cl. 3.1& table 3 of IS 17293 & IS 10810(Pt. 11)	Permanent
429	Electric Cables for Photovoltaic Systems	Cold impact test	Qualitative	Cl. 3.1& table 3 of IS 17293 , & Annex C & IS 10810(Pt. 21)	Permanent
430	Electric Cables for Photovoltaic Systems	Cold bend test	Qualitative	Cl. 3.1& table 3 of IS 17293 & IS 10810(Pt. 20)	Permanent
431	Electric Cables for Photovoltaic Systems	Elongation at low temperature	1.0 to 200 %	Cl. 3.1& table 3 of IS 17293 & Annex F & Annex B	Permanent
432	Electric Cables for Photovoltaic Systems	Ozone resistance test on complete cable	Quantitative	Cl. 3.1& table 3 of IS 17293 Annex G	Permanent
433	Electric Cables for Photovoltaic Systems	Dynamic Penetration test	0.001 to 3000 N	Cl. 3.1& table 3 of IS 17293 & Annex D	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
434	Electric Cables for Photovoltaic Systems	Damp Heat test (After Conditioning Tensile strength and on insulation and sheath Variation)	0.01 to 100 %	Cl. 3.1& table 3 of IS 17293 & Annex H	Permanent
435	Electric Cables for Photovoltaic Systems	Damp Heat test (After Conditioning Elongation at break on insulation and sheath Variation)	0.01 to 100 %	Cl. 3.1& table 3 of IS 17293 & Annex H	Permanent
436	Electric Cables for Photovoltaic Systems	Shrinkage test	0.25 to 50 %	Cl. 3.1& table 3 of IS 17293 & IS 10810(Pt. 12)	Permanent
437	Electric Cables for Photovoltaic Systems	Vertical flame propagation on complete cable	1mm to 1000 mm	Cl. 3.1& table 3 of IS 17293 & IS 10810(Pt. 53)	Permanent
438	Electric Cables for Photovoltaic Systems	Smoke emission of complete cable	1 to 100 %	Cl. 3.1& table 3 of IS 17293 & IS 10810(Pt. 63)	Permanent
439	Electric Cables for Photovoltaic Systems	Assessment of halogen on insulation and sheath - Chlorine and bromine content expressed as content of HCL	0.1% to 40 %	Cl. 3.1& table 3 of IS 17293 Annex J	Permanent
440	Electric Cables for Photovoltaic Systems	Assessment of halogen on insulation and sheath- pH test	0.1 pH to 14 pH	Cl. 3.1& table 3 of IS 17293 Annex J	Permanent
441	Electric Cables for Photovoltaic Systems	Assessment of halogen on insulation and	0.1 µS/mm to 50 µS/mm	Cl. 3.1& table 3 of IS 17293 Annex J	Permanent

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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
		sheath - Conductivity test			
442	Electric Cables for Photovoltaic Systems	Assessment of halogen on insulation and sheath - Presence of fluorine	Qualitative	Cl. 3.1& table 3 of IS 17293 Annex J	Permanent
443	Electric Cables for Photovoltaic Systems	Assessment of halogen on insulation and sheath - Fluorine content	0.004% to 10 %	Cl. 3.1& table 3 of IS 17293 Annex J	Permanent
444	Electric Cables for Photovoltaic Systems	Overall Diamentions	0.01 to 150 mm	Cl. 3.1& table 3 of IS 17293 Cl.7 & IS 10810(Pt. 6)	Permanent
445	Electric Cables for Photovoltaic Systems	Cable Identification	Qualitative	IS 17293 Cl.8	Permanent
446	Electric Cables for Photovoltaic Systems	Continuity of marking	Qualitative	IS 17293 Cl.8.1	Permanent
447	Electric Cables for Photovoltaic Systems	Durability	Qualitative	IS 17293 Cl.8.2	Permanent
448	Electric Cables for Photovoltaic Systems	Legibility	Qualitative	IS 17293 Cl.8.3	Permanent
449	Electric Cables for Photovoltaic Systems	Core identification	Qualitative	IS 17293 Cl.9	Permanent
450	Elastomer Insulated Cables	Nominal Cross sectional area of conductor	0.50 to 400 Sq.mm	Table 3 of IS 16246 & IS 8130	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
451	Elastomer Insulated Cables	Diameter of wires in conductor	0.001mm - 25 mm	IS 16246 & Cl. 6 of IS 8130	Permanent
452	Elastomer Insulated Cables	Ratio of Diameter	1.0 to 50	IS 16246 & Cl. 6 of IS 8130	Permanent
453	Elastomer Insulated Cables	Number of wires in conductor	1 to 10000 Nos.	IS 16246 & Cl. 6 of IS 8130	Permanent
454	Elastomer Insulated Cables	Tape	Qualitative	Cl. 6 of IS 16246	Permanent
455	Elastomer Insulated Cables	Annealing test for copper	1.0 to 50%	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 1)	Permanent
456	Elastomer Insulated Cables	Conductor resistance test	0.0100 to 1000 ohm/km	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 5)	Permanent
457	Elastomer Insulated Cables	Per sulphate test for copper	0.01 to 50g/m2	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt - 4)	Permanent
458	Elastomer Insulated Cables	Application insulation & sheath	Qualitative	Cl. 11.1, 16.1 of IS 16246	Permanent
459	Elastomer Insulated Cables	Core Identification	Qualitative	Cl. 12 of IS 16246	Permanent
460	Elastomer Insulated Cables	Laying up of cores	Qualitative	Cl. 13 of IS 16246	Permanent
461	Elastomer Insulated Cables	Centre and Filler	Qualitative	Cl. 7 of IS 16246	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
462	Elastomer Insulated Cables	Inner sheath	Qualitative	Cl. 9.1, 14 of IS 16246	Permanent
463	Elastomer Insulated Cables	Colour of sheath	Qualitative	Cl. 16.2 of IS 16246	Permanent
464	Elastomer Insulated Cables	Type of Armoring	Qualitative	Cl. 15.3 of IS 16246	Permanent
465	Elastomer Insulated Cables	Application of armouring	Qualitative	Cl. 15.1 of IS 16246	Permanent
466	Elastomer Insulated Cables	Direction of armouring	Qualitative	Cl. 15.3.3 of IS 16246	Permanent
467	Elastomer Insulated Cables	Joints of Armour (Wires/strips)	Qualitative	Cl. 15.3.4 of IS 16246	Permanent
468	Elastomer Insulated Cables	Dimension for armouring material	0.01mm to 25 mm	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 36)	Permanent
469	Elastomer Insulated Cables	Tensile strength of armouring material	1.0 to 500N/mm2	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 37)	Permanent
470	Elastomer Insulated Cables	Elongation at break of armouring material	1.0 to 50%	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 37)	Permanent
471	Elastomer Insulated Cables	Torsion test on Galvanized steel wire for armouring	1 to 999 Turns	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 38)	Permanent
472	Elastomer Insulated Cables	Winding test on Galvanized steel strips for armouring	Qualitative	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 39)	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	Elastomer Insulated Cables	Uniformity of Zinc coating	Qualitative	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 40)	Permanent
474	Elastomer Insulated Cables	Mass of Zinc coating	1.0 to 500 gm/ m2	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 41)	Permanent
475	Elastomer Insulated Cables	Resistivity test of armour	1 ohm – cm to 20 x10-6 ohm-cm	Cl. 17.1 & table 1 of IS 16246 & IS:10810(Pt.42)	Permanent
476	Elastomer Insulated Cables	Armouring Coverage	1.0 to 100 %	IS 16246	Permanent
477	Elastomer Insulated Cables	Test for thickness of insulation and sheath	0.01mm - 150 mm	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 6)	Permanent
478	Elastomer Insulated Cables	Tensile strength and elongation at break insulation and sheath	1.0 to 500N/mm2	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 7)	Permanent
479	Elastomer Insulated Cables	Elongation at break insulation and sheath	1.0 to 1500%	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 7)	Permanent
480	Elastomer Insulated Cables	Ageing in air oven for insulation (Tensile strength)	1.0 to 500N/mm2	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 11)	Permanent
481	Elastomer Insulated Cables	Ageing in air oven for insulation (Elongation at break)	1.0 to 1500%	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 11)	Permanent
482	Elastomer Insulated Cables	Ageing in air oven for insulation (Tensile strength Variation)	0.01 to 90 %	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 11)	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
483	Elastomer Insulated Cables	Ageing in air oven for insulation (Elongation at break Variation)	0.01 to 90 %	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 11)	Permanent
484	Elastomer Insulated Cables	Ageing in air bomb for insulation and sheath (Tensile strength)	1.0 to 500N/mm2	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 56)	Permanent
485	Elastomer Insulated Cables	Ageing in air bomb for insulation and sheath (Elongation at break)	1.0 to 1500%	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 56)	Permanent
486	Elastomer Insulated Cables	Ageing in air bomb for insulation and sheath (Tensile strength Variation)	0.01 to 90 %	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 56)	Permanent
487	Elastomer Insulated Cables	Ageing in air bomb for insulation and sheath (Elongation at break Variation)	0.01 to 90 %	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 56)	Permanent
488	Elastomer Insulated Cables	Hot set Test for insulation and sheath	1.0 to 200%	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt.30)	Permanent
489	Elastomer Insulated Cables	Oil Resistance test sheath (Tensile strength)	1.0 to 500N/mm2	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 31)	Permanent
490	Elastomer Insulated Cables	Oil Resistance test sheath (Elongation at break)	1.0 to 1500%	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt. 31)	Permanent
491	Elastomer Insulated Cables	Oil Resistance test sheath (Tensile strength Variation)	0.01 to 90 %	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 31)	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
492	Elastomer Insulated Cables	Oil Resistance test sheath (Elongation at break Variation)	0.01 to 90 %	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt. 31)	Permanent
493	Elastomer Insulated Cables	Oxygen Index test	21 % to 80%	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 58)	Permanent
494	Elastomer Insulated Cables	Temperature Index test	Amb. to 500°C	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt 64)	Permanent
495	Elastomer Insulated Cables	Halogen acid gas evolved test	0.1 to 50%	Cl. 17.1 & table 1 of IS 16246 & IS:10810(Pt-59)	Permanent
496	Elastomer Insulated Cables	Smoke Density	0.1 to 100 %	Cl. 17.1 & table 1 of IS 16246 & ASTM D 2843	Permanent
497	Elastomer Insulated Cables	High voltage test	0.1 to 10 kV	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt.45)	Permanent
498	Elastomer Insulated Cables	Insulation resistance	1 – 100 x106 MΩ	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt.43)	Permanent
499	Elastomer Insulated Cables	Water absorption test (Electrical)	0.01 to 20 %	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt.28)	Permanent
500	Elastomer Insulated Cables	Flame Retardant Test	1mm to 850 mm	Cl. 17.1 & table 1 of IS 16246 & IS 10810(Pt 61) SS-424-1475	Permanent
501	Elastomer Insulated Cables	Flame Retardance test on bunched cables	0.001 to 3.50 meter	Cl. 17.1 & table 1 of IS 16246 & IS 10810 (Pt - 62)	Permanent
502	Elastomer Insulated Cables	Identification	Qualitative	IS 16246 Cl.19	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
503	Elastomer Insulated Cables	Cable Code	Qualitative	IS 16246 Cl.19.4	Permanent
504	Conductors for Insulated Electric Cables	Persulphate test for copper (for tinned copper only)	Up to 20 g/m2	Cl. 7.1.1 of IS 8130 & IS : 10810 (Pt.4)	Permanent
505	Conductors for Insulated Electric Cables	Annealing test for Copper Conductor	Up to 50 %	Cl. 7.1.2 of IS 8130 & IS 10810 (Pt. 1)	Permanent
506	Conductors for Insulated Electric Cables	Tensile strength for Aluminium Conductor	Up to 500N/mm2	Cl. 7.2.1 of IS 8130 & IS:10810 (Pt. 2)	Permanent
507	Conductors for Insulated Electric Cables	Wrapping test for Aluminium Conductor	Qualitative	Cl. 7.2.2 of IS 8130 & IS:10810 (Pt. 3)	Permanent
508	Conductors for Insulated Electric Cables	Conductor resistance	Up to 100 ohm/km	Cl. 7.3 of IS 8130 & IS 10810 (Pt. 5)	Permanent
509	PVC Insulation and Sheath of Electric Cables	Volume Resistivity	1 - 100x1016 Ohm-cm	Cl. 4.1, table 1 & 2 of IS 5831 & IS 10810 (Pt 43)	Permanent
510	PVC Insulation and Sheath of Electric Cables	Insulation resistance	1 - 100x106 MΩ	Cl. 4.1, table 1 & 2 of IS 5831 & IS 10810 (Pt 43)	Permanent
511	PVC Insulation and Sheath of Electric Cables	Tensile strength of insulation & sheath	1.0 to 500N/mm2	Cl. 4.1, table 1 & 2 of IS 5831 & IS 10810 (Pt 7)	Permanent
512	PVC Insulation and Sheath of Electric Cables	Elongation at break of insulation & sheath	1.0 to 1500%	Cl. 4.1, table 1 & 2 of IS 5831 & IS 10810 (Pt 7)	Permanent
513	PVC Insulation and Sheath of Electric Cables	Ageing in air oven insulation & sheath (Tensile Strength)	1.0 to 500N/mm2	Cl. 4.1, table 1 & 2 of IS 5831 & IS 10810 (Pt 11)	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
514	PVC Insulation and Sheath of Electric Cables	Ageing in air oven insulation & sheath (Elongation at Break)	1.0 to 1500%	Cl. 4.1, table 1 & 2 of IS 5831 & IS 10810 (Pt 11)	Permanent
515	PVC Insulation and Sheath of Electric Cables	Ageing in air oven insulation & sheath (Tensile Strength Variation)	0.01 to 90%	Cl. 4.1, table 1 & 2 of IS 5831 & IS 10810 (Pt 11)	Permanent
516	PVC Insulation and Sheath of Electric Cables	Ageing in air oven insulation & sheath (Elongation at Break Variation)	0.01 to 90%	Cl. 4.1, table 1 & 2 of IS 5831 & IS 10810 (Pt 11)	Permanent
517	PVC Insulation and Sheath of Electric Cables	Loss of mass test insulation & sheath	0.01 to 100 mg/cm2	Cl. 4.1, table 1 & 2 of IS 5831 & IS 10810 (Pt 10)	Permanent
518	PVC Insulation and Sheath of Electric Cables	Hot deformation test insulation & sheath	0.1 to 90%	Cl. 4.1, table 1 & 2 of IS 5831 & IS 10810 (Pt 15)	Permanent
519	PVC Insulation and Sheath of Electric Cables	Heat shock test insulation & sheath	Qualitative	Cl. 4.1, table 1 & 2 of IS 5831 & IS 10810 (Pt 14)	Permanent
520	PVC Insulation and Sheath of Electric Cables	Shrinkage test insulation & sheath	0.25 to 50%	Cl. 4.1, table 1 & 2 of IS 5831 & IS 10810 (Pt 12)	Permanent
521	PVC Insulation and Sheath of Electric Cables	Cold bend test insulation & sheath	Qualitative	Cl. 4.1, table 1 & 2 of IS 5831 & IS 10810 (Pt 20)	Permanent
522	PVC Insulation and Sheath of Electric Cables	Cold Impact test insulation & sheath	Qualitative	Cl. 4.1, table 1 & 2 of IS 5831 & IS 10810 (Pt 21)	Permanent
523	PVC Insulation and Sheath of Electric Cables	Colour Fastness to Water insulation & sheath	Qualitative	Cl. 4.1, table 1 & 2 of IS 5831 (Appendix A)	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
524	PVC Insulation and Sheath of Electric Cables	Thermal Stability insulation & sheath	1 to 500 Minute	Cl. 4.1, table 1 & 2 of IS 5831 & IS 10810 (Pt 60)	Permanent
525	PVC Insulation and Sheath of Electric Cables	Bleeding and Blooming Test	Qualitative	Cl. 4.1, table 1 & 2 of IS 5831 & IS 10810 (Pt 19)	Permanent
526	PVC Insulation and Sheath of Electric Cables	Water Absorption (Gravimetric)	0.001 to 20 mg/cm2	Cl. 4.1, table 1 & 2 of IS 5831 & IS 10810 (Pt 33)	Permanent
527	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables	Dimension	0.001mm to 25 mm	Cl. 7, table 4 of IS:3975 & IS:10810 (Pt 36)	Permanent
528	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables	Tensile strength	1.0 to 1000N/mm2	Cl 8, table 5 of IS:3975 & IS:10810 (Pt 37)	Permanent
529	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables	Elongation	1.0 to 50%	Cl. 8, table 5 of IS:3975 & IS:10810 (Pt 37)	Permanent
530	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for	Torsion test on Galvanized steel wire	1 to 99999 turns	Cl. 8.2 of IS:3975 & IS:10810 (Pt 38)	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
	Armouring of Cables				
531	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables	Wrapping test	Qualitative	Cl. 8.3, table 5 of IS:3975 & IS:10810 (Pt 39)	Permanent
532	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables	Resistance test (for round and formed wire only)	1 to 20 x10-6ohm-cm	Cl. 8.4 of IS:3975 & IS:10810 (Pt 42)	Permanent
533	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables	Mass of Zinc coating	1 to 500 gm/ m2	Cl. 9.1 of IS:3975 & IS:10810 (Pt 41)	Permanent
534	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables	Uniformity of Zinc coating	Qualitative	Cl. 9.2 of IS:3975 & IS:10810 (Pt 40)	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
535	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables	Adhesion Test	Qualitative	Cl. 9.3 of IS 3975	Permanent
536	PVC Insulated Underground, Unscreened Cable	Annealing test for Copper Conductor	1.0 to 50%	Cl. 5.2 of IRS S 63 , IS:10810 (Pt 1)	Permanent
537	PVC Insulated Underground, Unscreened Cable	Dimension for Conductor	0.001mm to 25 mm	Cl. 5.2 of IRS S 63	Permanent
538	PVC Insulated Underground, Unscreened Cable	Conductor resistance	0.0100 to 1000 ohm/km	Cl. 5.2 of IRS S 63 IS:10810 (Pt 5)	Permanent
539	PVC Insulated Underground, Unscreened Cable	Dimension for armouring material	0.001mm to 25 mm	Cl. 5.2 of IRS S 63 IS:10810 (Pt 36)	Permanent
540	PVC Insulated Underground, Unscreened Cable	Tensile strength of armouring material	1.0 to 1500kg/mm2	Cl. 5.2 of IRS S 63 IS:10810 (Pt 37)	Permanent
541	PVC Insulated Underground, Unscreened Cable	Elongation at break of armouring material	1.0 to 50%	Cl. 5.2 of IRS S 63 IS:10810 (Pt 37)	Permanent
542	PVC Insulated Underground,	Torsion test on Galvanized steel wire for armouring	1 to 1000 turns	Cl. 5.2 of IRS S 63 IS:10810 (Pt 38)	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
	Unscreened Cable				
543	PVC Insulated Underground, Unscreened Cable	Winding test on Galvanized steel strips for armouring	Qualitative	Cl. 5.2 of IRS S 63 IS:10810 (Pt 39)	Permanent
544	PVC Insulated Underground, Unscreened Cable	Uniformity of Zinc coating	Qualitative	Cl. 5.2 of IRS S 63 IS:10810 (Pt 40)	Permanent
545	PVC Insulated Underground, Unscreened Cable	Mass of Zinc coating	1.0 to 500 gm/ m2	Cl. 5.2 of IRS S 63 IS:10810 (Pt 41)	Permanent
546	PVC Insulated Underground, Unscreened Cable	Resistivity & Conductance test of Armour (Wires/strips)	1.0 to 20 x10-6ohm-cm	Cl. 5.2 of IRS S 63 IS:10810 (Pt 42)	Permanent
547	PVC Insulated Underground, Unscreened Cable	Thickness of Insulation & Sheath	0.01mm - 150 mm	Cl. 5.2 of IRS S 63 IS:10810 (Pt 6)	Permanent
548	PVC Insulated Underground, Unscreened Cable	Tensile strength of insulation & sheath	1.0 to 500kg/mm2	Cl. 5.2 of IRS S 63 IS:10810 (Pt 7)	Permanent
549	PVC Insulated Underground, Unscreened Cable	Elongation at break of insulation & sheath	1.0 to 1500%	Cl. 5.2 of IRS S 63 IS:10810 (Pt 7)	Permanent
550	PVC Insulated Underground,	Loss of mass test insulation & sheath	0.01 to 100 mg/cm2	Cl. 5.2 of IRS S 63 IS:10810 (Pt 10)	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
	Unscreened Cable				
551	PVC Insulated Underground, Unscreened Cable	Ageing in air oven tensile strength	1.0 to 500kg/mm2	Cl. 5.2 of IRS S 63 IS:10810 (Pt 11)	Permanent
552	PVC Insulated Underground, Unscreened Cable	Ageing in air oven elongation at break	1.0 to 1500%	Cl. 5.2 of IRS S 63 IS:10810 (Pt 11)	Permanent
553	PVC Insulated Underground, Unscreened Cable	Ageing in air oven tensile strength Variation	0.01 to 90%	Cl. 5.2 of IRS S 63 IS:10810 (Pt 11)	Permanent
554	PVC Insulated Underground, Unscreened Cable	Ageing in air oven elongation at break Variation	0.01 to 90%	Cl. 5.2 of IRS S 63 IS:10810 (Pt 11)	Permanent
555	PVC Insulated Underground, Unscreened Cable	Shrinkage test insulation & sheath	0.25 to 50%	Cl. 5.2 of IRS S 63 IS:10810 (Pt 12)	Permanent
556	PVC Insulated Underground, Unscreened Cable	Heat shock test insulation & sheath	Qualitative	Cl. 5.2 of IRS S 63 IS:10810 (Pt 14)	Permanent
557	PVC Insulated Underground, Unscreened Cable	Hot deformation test insulation & sheath	1.0 to 90%	Cl. 5.2 of IRS S 63 IS:10810 (Pt 15)	Permanent
558	PVC Insulated Underground,	Thermal Stability insulation & sheath	1 to 500 Minute	Cl. 5.2 of IRS S 63 IS:10810 (Pt 60)	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
	Unscreened Cable				
559	PVC Insulated Underground, Unscreened Cable	Insulation resistance	1 Mohm/km to 1000 Mohm/km	Cl. 5.2 of IRS S 63	Permanent
560	PVC Insulated Underground, Unscreened Cable	Flammability test	1mm to 600mm	Cl. 5.2 of IRS S 63 IS:10810 (Pt 53)	Permanent
561	PVC Insulated Underground, Unscreened Cable	High voltage Test (AC)	0.1 to 10 kV	Cl. 5.2 of IRS S 63	Permanent
562	PVC Insulated Underground, Unscreened Cable	High voltage Test (DC)	0.01 to 3000 V	Cl. 5.2 of IRS S 63	Permanent
563	PVC Insulated Underground, Unscreened Cable	Cold Bend Test	Qualitative	Cl. 5.2 of IRS S 63 IS:10810 (Pt 20)	Permanent
564	PVC Insulated Underground, Unscreened Cable	Cold Impact Test	Qualitative	Cl. 5.2 of IRS S 63 IS:10810 (Pt 21)	Permanent
565	PVC Insulated Underground, Unscreened Cable	Water Immersion test	Qualitative	Cl. 5.2 of IRS S 63	Permanent
566	PVC Insulated Underground,	Visual Inspection test	Qualitative	Cl. 5.2 of IRS S 63	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
	Unscreened Cable				
567	PVC Insulated Underground, Unscreened Cable	Test for Correspondence of Cores	Qualitative	Cl. 5.2 of IRS S 63	Permanent
568	PVC Insulated Underground, Unscreened Cable	Test for Closeness of Armour (Wires/Strips/Tape)	Qualitative	Cl. 5.2 of IRS S 63	Permanent
569	PVC Insulated Underground, Unscreened Cable	Specific Gravity	0.1 to 50	Cl. 5.2 of IRS S 63 , BS 6469	Permanent
570	PVC Insulated Underground, Unscreened Cable	Colour Fastness to Water	Qualitative	Cl. 5.2 of IRS S 63	Permanent
571	PVC Insulated Underground, Unscreened Cable	Colour Fastness to Day-light Exposure	1 to 10 Rating	Cl. 5.2 of IRS S 63 IS:10810 (Pt 18)	Permanent
572	High Temperature Fluor Polymer Insulated	Visual Examination	Qualitative	JSS – 51034 Para 13.1.1	Permanent
573	High Temperature Fluor Polymer Insulated	Dimensions	0.001mm to 25 mm	JSS – 51034 , Para 13.1.2	Permanent
574	High Temperature	Concentricity of insulation	0.01 to 90%	JSS-51034 , Para 13.2	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
	Fluor Polymer Insulated				
575	High Temperature Fluor Polymer Insulated	Spark test	0.5 to 15 kV	JSS-51034 , Para 13.3	Permanent
576	High Temperature Fluor Polymer Insulated	Conductor continuity	Qualitative	JSS-51034 , Para 13.5	Permanent
577	High Temperature Fluor Polymer Insulated	Conductor resistance at 20º ohm/km	0.0100 to 1000 ohm/km	JSS – 51034 – 2022 Para 13.6	Permanent
578	High Temperature Fluor Polymer Insulated	Dielectric withstanding voltage	0.1 to 10 kV	JSS-51034 , Para 13.7	Permanent
579	High Temperature Fluor Polymer Insulated	Insulation resistance	1 to 50000 M ohm/km	JSS-51034 , Para 13.8	Permanent
580	High Temperature Fluor Polymer Insulated	Continuity of Coating	Qualitative	JSS – 51034, Para 13.7/7.2.1.2	Permanent
581	High Temperature Fluor Polymer Insulated	Coating Thickness	0.001mm to 25 mm	JSS-51034 Para, 13.9/7.2.1.2	Permanent
582	High Temperature Fluor Polymer Insulated	Tensile strength of conductor	1.0 to 1500N/mm2	JSS-51034 , Para 13.10	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	High Temperature Fluor Polymer Insulated	Elongation at break of conductor	1.0 to 50%	JSS-51034 , Para 13.10	Permanent
584	High Temperature Fluor Polymer Insulated	Insulation dielectric Constant	0.01 to 50 Microfered/km	JSS – 51034 Para 13.11	Permanent
585	High Temperature Fluor Polymer Insulated	Insulation Power Factor	0.01 to 50 Microfered/km	JSS-51034 , Para 13.11	Permanent
586	High Temperature Fluor Polymer Insulated	Tensile Strength of insulation	1.0 to 200N/mm2	JSS-51034 Para 13.12	Permanent
587	High Temperature Fluor Polymer Insulated	Elongation at break of insulation	1.0 to 1500%	JSS-51034 Para 13.12	Permanent
588	High Temperature Fluor Polymer Insulated	Surface Resistance	1 to 50000 M ohm/km	JSS – 51034 Para 13.13	Permanent
589	High Temperature Fluor Polymer Insulated	Stripe Durability	Qualitative	JSS – 51034 Para 13.14	Permanent
590	High Temperature Fluor Polymer Insulated	Cold Bend	Qualitative	JSS – 51034 Para 13.15	Permanent
591	High Temperature	Heat Resistance	Qualitative	JSS – 51034 Para 13.16	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
	Fluor Polymer Insulated				
592	High Temperature Fluor Polymer Insulated	Wrap Back test (For wires with PTFE insulation only)	Qualitative	JSS – 51034 Para 13.17	Permanent
593	High Temperature Fluor Polymer Insulated	Resistance to soldering heat maximum)	0.1 to 50%	JSS – 51034 Para 13.18	Permanent
594	High Temperature Fluor Polymer Insulated	Flammability test	1mm to 600mm	JSS – 51034 Para 13.19 & JSS-50101 Test No – 10	Permanent
595	High Temperature Fluor Polymer Insulated	No. of wire	1 to 10000 Nos.	JSS – 51034 Para 7	Permanent
596	High Temperature Fluor Polymer Insulated	Dia. of each wire	0.001 to 25 mm	JSS – 51034 Para 4.2 & 7	Permanent
597	High Temperature Fluor Polymer Insulated	Conductor Dia	0.001 to 25 mm	JSS – 51034 Para 4.2 & 7	Permanent
598	High Temperature Fluor Polymer Insulated	Core identification	Qualitative	JSS – 51034 Para 7	Permanent
599	High Temperature Fluor Polymer Insulated	No. of cores	1 to 100 Nos.	JSS – 51034	Permanent

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Validity : 30.03.2030
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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
600	High Temperature Fluor Polymer Insulated	Over all diameter	0.01 to 150 mm	JSS – 51034 & JSS 50101	Permanent
601	High Temperature Fluor Polymer Insulated	Cable weight	0.001 to 100 Kg/m	JSS – 51034	Permanent
602	High Temperature Fluor Polymer Insulated	Mould Growth test	Qualitative	JSS – 51034 & JSS: 55555No – 21	Permanent
603	Test on electric and optical fibre cables under fire conditions-	Vertical flame propagation	1mm to 600 mm	Cl.5 of IEC 60332-1-2	Permanent
604	Test on electric and optical fibre cables under fire conditions-	Vertical flame propagation	1mm to 600 mm	Cl.5 of IEC 60332-2-2	Permanent
605	Determination of degree of acidity (corrosivity) of gases by measuring pH	pH test	0.1 to 14pH	Cl.7 of IEC 60754-2	Permanent
606	Determination of degree of acidity (corrosivity) of gases by measuring conductivity	Conductivity test	0.1 to 10µs/mm	Cl.7 of IEC 60754-2	Permanent
607	Measurement of smoke density of cables	Smoke Density under fire	0.1 to 100 %	Cl.6 of IEC 61034-2	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
	burning under defined conditions:-	conditions (Light Transmittance)			
608	Test method for vertical tray flame Test	Flammability test (vertical tray flame Test)	1mm to 8 Feet	ANSI/IEEE:383 IEEE:1202	Permanent
609	Test Method for Power cable for the distribution of Electrical energy and Standard for central Thermo Couple Extension and Instrumentation Cables	Accelerated water Absorption Test (Electrical)	0.01 to 20%	NEMA WC-70 NEMA WC-5 NEMA WC-57 NEMA WC-53	Permanent
610	Test Method for Power Cables for the distribution of electrical energy and Standard for control Thermocouple Extension and Instrumentation Cables	Dielectric strength Retention Test	0.01 to 90%	NEMA WC-5 ANSI/ NEMA WC- 70 NEMA WC-57 NEMA WC-53	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
611	Optical fiber cable (OFC) Fibre distribution management systems (FDMS) Fiber termination &Distribution Box, Spice closure and other insulating/ sheathing materials	Anti Rodent & Anti Termite test	Qualitative	DTRC/SOP/2026-01 & BSNL Specification	Permanent
612	Standard Test Method for Rubber Property-Durometer Hardness	Shore A Hardness	0 to 100 ShA	ASTM D2240-15e1	Permanent
613	Standard Test Method for Rubber Property-Durometer Hardness	Shore D Hardness	0 to 100 ShD	ASTM D2240-15e1	Permanent
614	Test Method for Density and Specific Gravity of Plastics by displacement	Density and Specific Gravity (Relative Density) of Plastics by displacement	0.01 to 20 g/cc	ASTM D792-13	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
615	Insulating / Sheathing Materials	Determination of toxicity index of the products of combustion from small specimens of materials	Qualitative	NES 713 / NCD 1409	Permanent
616	Polyethylene Insulated Cables	Class of Conductor	Qualitative	Cl.4 & 5 of BS EN 50288- 7 & BS EN 60228	Permanent
617	Polyethylene Insulated Cables	Nominal Cross sectional area of conductor	0.1 to 10 Sq.mm	Cl.4 & 5 of BS EN 50288- 7 & BS EN 60228	Permanent
618	Polyethylene Insulated Cables	Diameter of wires in conductor	0.001mm - 25 mm	Cl.4 & 5 of BS EN 50288- 7 & BS EN 60228	Permanent
619	Polyethylene Insulated Cables	Number of wires in conductor	1 to 10000 Nos.	Cl.4 & 5 of BS EN 50288- 7 & BS EN 60228	Permanent
620	Polyethylene Insulated Cables	Conductor Resistance	0.0100 to 1000 ohm/km	Cl.4 & 5 of BS EN 50288- 7 & BS EN 60228	Permanent
621	Polyethylene Insulated Cables	Annealing test for Copper Conductor	1.0 to 50%	Cl.4 & 5 of BS EN 50288- 7 & BS EN 60228	Permanent
622	Polyethylene Insulated Cables	Persulphate test for tinned copper	0.01 to 50g/m2	Cl.4 & 5 of BS EN 50288- 7 & BS EN 60228	Permanent
623	Polyethylene Insulated Cables	Test for Overall Dimensions and Thickness of Insulation & Sheath	0.01 mm -150 mm	Cl.4 & 5 of BS EN 50288- 7	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
624	Polyethylene Insulated Cables	Colour of sheath	Qualitative	Cl.4 & 5 of BS EN 50288-7	Permanent
625	Polyethylene Insulated Cables	Laying up pairs	Qualitative	Cl.4 & 5 of BS EN 50288-7	Permanent
626	Polyethylene Insulated Cables	Pair Identification	Qualitative	Cl.4 & 5 of BS EN 50288-7	Permanent
627	Polyethylene Insulated Cables	Pair Screen	0.01 mm -150 mm	Cl.4 & 5 of BS EN 50288-7	Permanent
628	Polyethylene Insulated Cables	Cabling of Pair	Qualitative	Cl.4 & 5 of BS EN 50288-7	Permanent
629	Polyethylene Insulated Cables	Binder Tape	0.01 mm -150 mm	Cl.4 & 5 of BS EN 50288-7	Permanent
630	Polyethylene Insulated Cables	Cables with a collective Screen	0.01 mm -150 mm	Cl.4 & 5 of BS EN 50288-7	Permanent
631	Polyethylene Insulated Cables	Outer Protection	Qualitative	Cl.4 & 5 of BS EN 50288-7	Permanent
632	Polyethylene Insulated Cables	Spark Test	0.1 to 15 kV	Cl.4 & 5 of BS EN 50288-7	Permanent
633	Polyethylene Insulated Cables	High Voltage test at room temperature	0.1 to 10 kV	Cl.4 & 5 of BS EN 50288-7	Permanent
634	Polyethylene Insulated Cables	Insulation Resistance	1.0 to 10x1017 ohm-cm	Cl.4 & 5 of BS EN 50288-7	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
635	Polyethylene Insulated Cables	Mutual Capacitance	1pF -1100µF/m	Cl.4 & 5 of BS EN 50288-7	Permanent
636	Polyethylene Insulated Cables	Capacitance Unbalance	1pF -1100µF/m	Cl.4 & 5 of BS EN 50288-7	Permanent
637	Polyethylene Insulated Cables	Inductance (L/R Ratio Test)	0.1 to 200 µH/Ω	Cl.4 & 5 of BS EN 50288-7	Permanent
638	Polyethylene Insulated Cables	Tensile strength on Insulation and Sheath	1.0 to 500N/mm2	Cl.4 & 5 of BS EN 50288-7	Permanent
639	Polyethylene Insulated Cables	Elongation at break on Insulation and Sheath	1.0 to 1500%	Cl.4 & 5 of BS EN 50288-7	Permanent
640	Polyethylene Insulated Cables	Ageing in Air Oven (Tensile Strength) insulation & sheath	1.0 to 500N/mm2	Cl.4 & 5 of BS EN 50288-7	Permanent
641	Polyethylene Insulated Cables	Ageing in Air Oven (Elongation at break) insulation & sheath	1.0 to 1500%	Cl.4 & 5 of BS EN 50288-7	Permanent
642	Polyethylene Insulated Cables	Ageing in air oven (Tensile Strength Variation) insulation & sheath	0.01 to 90 %	Cl.4 & 5 of BS EN 50288-7	Permanent
643	Polyethylene Insulated Cables	Ageing in air oven (Elongation at break Variation) insulation & sheath	0.01 to 90 %	Cl.4 & 5 of BS EN 50288-7	Permanent
644	Polyethylene Insulated Cables	Shrinkage Test	0.25 to 50%	Cl.4 & 5 of BS EN 50288-7	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
645	Polyethylene Insulated Cables	Heat Shock Test	Qualitative	Cl.4 & 5 of BS EN 50288-7	Permanent
646	Polyethylene Insulated Cables	Hot deformation test / Pressure Test at High Temperature	0.50 to 90%	Cl.4 & 5 of BS EN 50288-7	Permanent
647	Polyethylene Insulated Cables	Loss of Mass	0.01 to 100 mg/cm2	Cl.4 & 5 of BS EN 50288-7	Permanent
648	Polyethylene Insulated Cables	Wrapping Test	Qualitative	Cl.4 & 5 of BS EN 50288-7	Permanent
649	Polyethylene Insulated Cables	Wrapping Test After Ageing	Qualitative	Cl.4 & 5 of BS EN 50288-7	Permanent
650	Polyethylene Insulated Cables	Long Term stability test	Qualitative	Cl.4 & 5 of BS EN 50288-7	Permanent
651	Polyethylene Insulated Cables	Mass increase for filled cables	0.1 to 100%	Cl.4 & 5 of BS EN 50288-7	Permanent
652	Polyethylene Insulated Cables	Density	0.1 to 50 g/cm3	Cl.4 & 5 of BS EN 50288-7	Permanent
653	Polyethylene Insulated Cables	Melt Flow Index	0.1 to 50 g/10 minute	Cl.4 & 5 of BS EN 50288-7	Permanent
654	Polyethylene Insulated Cables	Cold bend test	Qualitative	Cl.4 & 5 of BS EN 50288-7	Permanent
655	Polyethylene Insulated Cables	Cold elongation test	1.0 to 200%	Cl.4 & 5 of BS EN 50288-7	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
656	Polyethylene Insulated Cables	Cold impact test	Qualitative	Cl.4 & 5 of BS EN 50288-7	Permanent
657	Polyethylene Insulated Cables	Conductivity test	0.1 to 10 µs/mm	Cl.4 & 5 of BS EN 50288-7	Permanent
658	Polyethylene Insulated Cables	pH test	0.1 to 14 pH	Cl.4 & 5 of BS EN 50288-7	Permanent
659	Polyethylene Insulated Cables	Dimension for Armouring Material	0.01mm to 25 mm	Cl.4 & 5 of BS EN 50288-7	Permanent
660	Polyethylene Insulated Cables	Mass of Zinc Coating	0.01 to 500 gm/ m2	Cl.4 & 5 of BS EN 50288-7	Permanent
661	Polyethylene Insulated Cables	Resistivity & Conductance test of Armour (Wires/strips)	0.01 to 20 x10-6 ohm-cm	Cl.4 & 5 of BS EN 50288-7	Permanent
662	Polyethylene Insulated Cables	Tensile strength for armouring material	1.0 to 500N/mm2	Cl.4 & 5 of BS EN 50288-7	Permanent
663	Polyethylene Insulated Cables	Elongation at break for armouring material	1.0 to 50%	Cl.4 & 5 of BS EN 50288-7	Permanent
664	Polyethylene Insulated Cables	Torsion Test on Galvanized steel wire for Armouring	1 to 999 Turns	Cl.4 & 5 of BS EN 50288-7	Permanent
665	Polyethylene Insulated Cables	Uniformity of Zinc coating (Dip Test)	Qualitative	Cl.4 & 5 of BS EN 50288-7	Permanent
666	Polyethylene Insulated Cables	Winding/ Wrapping Test on Galvanized	Qualitative	Cl.4 & 5 of BS EN 50288-7	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
		steel strip for Armouring			
667	Cross Linked Polyethylene Insulated Cables	Dimensions	0.01 to 150 mm	Cl.5 of IEC 60502(Pt. 1) / IEC 60228 & IEC 60811-203	Permanent
668	Cross Linked Polyethylene Insulated Cables	Tensile strength for Aluminium Conductor	1.0 to 1000 N/mm2	Cl.5 of IEC 60502(Pt.1) / IEC 60228	Permanent
669	Cross Linked Polyethylene Insulated Cables	Conductor resistance	0.01 to 100 ohm/km	Cl.5 of IEC 60502(Pt. 1) / IEC 60228	Permanent
670	Cross Linked Polyethylene Insulated Cables	Dimension for armouring material	0.01 to 150 mm	Cl. 12 of IEC 60502(Pt. 1)	Permanent
671	Cross Linked Polyethylene Insulated Cables	Thickness of Insulation & Sheath	0.01 to 150 mm	Cl.6 & 13 of IEC 60502(Pt.1) IEC 60811-201 IEC 60811-202	Permanent
672	Cross Linked Polyethylene Insulated Cables	Tensile strength Insulation and sheath	0.01 to 500 N/mm2	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) /IEC 60811-501	Permanent
673	Cross Linked Polyethylene Insulated Cables	Elongation at break Insulation and sheath	1.0 to 800 %	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) / IEC 60811-501	Permanent
674	Cross Linked Polyethylene	After Ageing in air oven Tensile	1.0 to 500 N/mm2	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) / IEC 60811-401	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
	Insulated Cables	strength Insulation and sheath			
675	Cross Linked Polyethylene Insulated Cables	After Ageing in air oven Elongation at break Insulation and sheath	1.0 to 800 %	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) / IEC 60811-401	Permanent
676	Cross Linked Polyethylene Insulated Cables	After Ageing in air oven Complete cable Tensile strength Insulation and sheath	1.0 to 500 N/mm2	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) /IEC 60811-401	Permanent
677	Cross Linked Polyethylene Insulated Cables	After Ageing in air oven Complete cable Elongation at break Insulation and sheath	1.0 to 800 %	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) / IEC 60811-401	Permanent
678	Cross Linked Polyethylene Insulated Cables	After immersion in hot oil (Tensile strength)	1.0 to 500 N/mm2	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) / IEC 60811-404 IEC 60811-501	Permanent
679	Cross Linked Polyethylene Insulated Cables	After immersion in hot oil (Elongation at break)	1.0 to 800 %	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) / IEC 60811-404 IEC 60811-501	Permanent
680	Cross Linked Polyethylene Insulated Cables	Hot Pressure Test (indentation)	0.1 to 90%	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) / IEC 60811-508	Permanent
681	Cross Linked Polyethylene Insulated Cables	Cold bending test	Qualitative	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) / IEC 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
682	Cross Linked Polyethylene Insulated Cables	Cold Impact test	Qualitative	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) /IEC 60811-506	Permanent
683	Cross Linked Polyethylene Insulated Cables	Cold elongation test	1.0 to 200%	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) /IEC 60811-505	Permanent
684	Cross Linked Polyethylene Insulated Cables	Loss of mass in air oven	0.01 to 10 mg/cm2	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) /IEC 60811-409	Permanent
685	Cross Linked Polyethylene Insulated Cables	Heat Shock Test	Qualitative	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) / IEC 60811-509	Permanent
686	Cross Linked Polyethylene Insulated Cables	Water Absorption test (Electrical method)	Qualitative	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) / IEC 60811-402	Permanent
687	Cross Linked Polyethylene Insulated Cables	Ozone resistance test	Qualitative	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) / IEC 60811-403	Permanent
688	Cross Linked Polyethylene Insulated Cables	Hot Set Test	1.0 to 300%	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) / IEC 60811-507	Permanent
689	Cross Linked Polyethylene Insulated Cables	Water Absorption test (Gravimetric method)	0.001 to 20mg/cm2	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) / IEC 60811-402	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
690	Cross Linked Polyethylene Insulated Cables	Shrinkage Test	0.25 to 50%	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) / IEC 60811-502	Permanent
691	Cross Linked Polyethylene Insulated Cables	Determination of hardness (IRHD)	0 to 200 IRHD	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) (Annex E)	Permanent
692	Cross Linked Polyethylene Insulated Cables	Determination of elastic modulus	1.0 to 200 N/mm2	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1)	Permanent
693	Cross Linked Polyethylene Insulated Cables	Carbon black content	0.01 to 25 %	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) IEC 60811-605	Permanent
694	Cross Linked Polyethylene Insulated Cables	Insulation resistance (Volume Resistivity)	1 to 17x1017 ohm-cm	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1)	Permanent
695	Cross Linked Polyethylene Insulated Cables	High voltage Test (AC)	0.1 to 10 kV	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1)	Permanent
696	Cross Linked Polyethylene Insulated Cables	Flame spread test on Single Cable	1mm to 600 mm	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) IEC 60332-1	Permanent
697	Cross Linked Polyethylene Insulated Cables	Flame spread test on bunched cables	0.001 to 3.5 Meter	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) /IEC 60332-3-24	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
698	Cross Linked Polyethylene Insulated Cables	Smoke emission test	0.1 to 100 %	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) / IEC 61034-2	Permanent
699	Cross Linked Polyethylene Insulated Cables	Acid gas emission test	0.1 % to 40 %	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1) / IEC 60754-1	Permanent
700	Cross Linked Polyethylene Insulated Cables	Conductivity test	0 to 10 µs/mm	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1)2021/IEC 60754-2	Permanent
701	Cross Linked Polyethylene Insulated Cables	pH test	0 to 14 pH	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1)2021/IEC 60754-2	Permanent
702	Cross Linked Polyethylene Insulated Cables	Fluorine content test	0.0001 to 10 %	Cl. 17 & 18 Table 14 of IEC 60502 (Pt.1)2021/IEC 60684-2	Permanent
703	PIJF Armoured Telecom cable	Class of Conductor	Qualitative	GR/CUG- 01/03 & IS 8130	Permanent
704	PIJF Armoured Telecom cable	Nominal Cross sectional area of conductor	0.10 to 10 Sq.mm	GR/CUG- 01/03 & IS 8130	Permanent
705	PIJF Armoured Telecom cable	Diameter of wires in conductor	0.001mm - 25 mm	GR/CUG- 01/03 & IS 8130	Permanent
706	PIJF Armoured Telecom cable	Number of wires in conductor	1 to 1000 Nos.	GR/CUG- 01/03 & IS 8130	Permanent
707	PIJF Armoured Telecom cable	Conductor Resistance	0.0100 to 1000 ohm/km	GR/CUG- 01/03 & IS 8130	Permanent
708	PIJF Armoured Telecom cable	Annealing test for Copper Conductor	1.0 to 50%	GR/CUG- 01/03 & IS 8130	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
709	PIJF Armoured Telecom cable	Persulphate test for tinned copper	0.01 to 50g/m2	GR/CUG- 01/03 & IS 8130	Permanent
710	PIJF Armoured Telecom cable	Test for Overall Dimensions and Thickness of Insulation & Sheath	0.01 mm -150 mm	GR/CUG- 01/03	Permanent
711	PIJF Armoured Telecom cable	Colour of Jacket	Qualitative	GR/CUG- 01/03	Permanent
712	PIJF Armoured Telecom cable	Laying up pairs	Qualitative	GR/CUG- 01/03	Permanent
713	PIJF Armoured Telecom cable	Pair Identification	Qualitative	GR/CUG- 01/03	Permanent
714	PIJF Armoured Telecom cable	Pair Screen	0.01 mm -150 mm	GR/CUG- 01/03	Permanent
715	PIJF Armoured Telecom cable	Cabling of Pair	Qualitative	GR/CUG- 01/03	Permanent
716	PIJF Armoured Telecom cable	Binder Tape	0.01 mm -150 mm	GR/CUG- 01/03	Permanent
717	PIJF Armoured Telecom cable	High Voltage test at room temperature	0.01 to 10 kV	GR/CUG- 01/03	Permanent
718	PIJF Armoured Telecom cable	Insulation Resistance	1 to 10x1017 ohm-cm	GR/CUG- 01/03	Permanent
719	PIJF Armoured Telecom cable	Mutual Capacitance	1pF -1100µF/m	GR/CUG- 01/03	Permanent
720	PIJF Armoured Telecom cable	Capacitance Unbalance	1pF -1100µF/m	GR/CUG- 01/03	Permanent
721	PIJF Armoured Telecom cable	Attenuation 20 0C at 150 KHz (Individual	1 to 99 dB/km.	GR/CUG- 01/03	Permanent

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Validity : 30.03.2030
Amendment date: N/A

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	PIJF Armoured Telecom cable	Recommended Minimum Bending Radius	1 to 100 time	GR/CUG- 01/03	Permanent
723	PIJF Armoured Telecom cable	Stability test	Qualitative	GR/CUG- 01/03	Permanent
724	PIJF Armoured Telecom cable	Handing	Qualitative	GR/CUG- 01/03	Permanent
725	PIJF Armoured Telecom cable	Permittivity at 1 MHz at 20°C	Qualitative	GR/CUG- 01/03	Permanent
726	PIJF Armoured Telecom cable	Flash point	Amb. to 200° C	GR/CUG- 01/03	Permanent
727	PIJF Armoured Telecom cable	Tensile strength on Insulation and Sheath	1.0 to 500N/mm2	GR/CUG- 01/03	Permanent
728	PIJF Armoured Telecom cable	Elongation at break on Insulation and Sheath	1.0 to 1500%	GR/CUG- 01/03	Permanent
729	PIJF Armoured Telecom cable	Ageing in Air Oven (Tensile Strength) insulation & sheath	1.0 to 500N/mm2	GR/CUG- 01/03	Permanent
730	PIJF Armoured Telecom cable	Ageing in Air Oven (Elongation at break) insulation & sheath	1.0 to 1500%	GR/CUG- 01/03	Permanent
731	PIJF Armoured Telecom cable	Ageing in air oven (Tensile Strength Variation) insulation & sheath	1.0 to 90 %	GR/CUG- 01/03	Permanent
732	PIJF Armoured Telecom cable	Ageing in air oven (Elongation at break Variation) insulation & sheath	1.0 to 90 %	GR/CUG- 01/03	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
733	PIJF Armoured Telecom cable	Mass increase for filled cables	1 to 100%	GR/CUG- 01/03	Permanent
734	PIJF Armoured Telecom cable	Density	0.1 to 50 g/cm3	GR/CUG- 01/03	Permanent
735	PIJF Armoured Telecom cable	Melt Flow Index	0.1 to 50 g/10 minute	GR/CUG- 01/03	Permanent
736	PIJF Armoured Telecom cable	Dimension for Armouring Material	0.01mm to 25 mm	GR/CUG- 01/03	Permanent
737	PIJF Armoured Telecom cable	Mass of Zinc Coating	0.1 to 500 gm/ m2	GR/CUG- 01/03	Permanent
738	PIJF Armoured Telecom cable	Tensile strength for armouring material	1.0 to 500N/mm2	GR/CUG- 01/03	Permanent
739	PIJF Armoured Telecom cable	Elongation at break for armouring material	1.0 to 50%	GR/CUG- 01/03	Permanent
740	PIJF Armoured Telecom cable	Uniformity of Zinc coating (Dip Test)	Qualitative	GR/CUG- 01/03	Permanent
741	PIJF Armoured Telecom cable	Winding/ Wrapping Test on Galvanized steel strip for Armouring	Qualitative	GR/CUG- 01/03	Permanent
742	Cross Linked Polyethylene Insulated Cables	Tensile strength for Aluminium Conductor	1.0 to 1000 N/mm2	Cl.4 & 5, table B-1& B-2 of NFC 33 – 209	Permanent
743	Cross Linked Polyethylene Insulated Cables	Wrapping test for Aluminium Conductor	Qualitative	Cl.4 & 5, table B-1& B-2 of NFC 33 – 209	Permanent
744	Cross Linked Polyethylene Insulated Cables	Dimensions	0.01 to 150 mm	Cl.4 & 5, table B-1& B-2 of NFC 33 – 209 NFC 32 - 021	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	Cross Linked Polyethylene Insulated Cables	Conductor resistance	0.010 to 100 ohm/km	Cl.4 & 5, table B-1& B-2 of NFC 33 – 209 NFC 32 - 021	Permanent
746	Cross Linked Polyethylene Insulated Cables	Breaking load of messenger	0.001 kN to 50 kN	Cl.4 & 5, table B-1& B-2 of NFC 33 – 209	Permanent
747	Cross Linked Polyethylene Insulated Cables	Thickness of Insulation & Sheath	0.01 to 150 mm	Cl.4 & 5, table B-1& B-2 of NFC 33 – 209	Permanent
748	Cross Linked Polyethylene Insulated Cables	Tensile strength of insulation & sheath	1.0 to 200 N/mm2	Cl.4 & 5, table B-1& B-2 of NFC 33 – 209 NF EN 60811-1-1	Permanent
749	Cross Linked Polyethylene Insulated Cables	Elongation at break of insulation & sheath	1.0 to 800 %	Cl.4 & 5, table B-1& B-2 of NFC 33 – 209 NF EN 60811-1-1	Permanent
750	Cross Linked Polyethylene Insulated Cables	Ageing in air oven (Tensile strength of insulation & sheath)	1.0 to 200 N/mm2	Cl.4 & 5, table B-1& B-2 of NFC 33 – 209 NF EN 60811-1-2	Permanent
751	Cross Linked Polyethylene Insulated Cables	Ageing in air oven (Elongation at break of insulation & sheath)	1.0 to 800 %	Cl.4 & 5, table B-1& B-2 of NFC 33 – 209 NF EN 60811-1-2	Permanent
752	Cross Linked Polyethylene Insulated Cables	Hot Set Test	1.0 to 400 %	Cl.4 & 5, table B-1& B-2 of NFC 33 – 209 NFEN 60811-2-1	Permanent

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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
753	Cross Linked Polyethylene Insulated Cables	Shrinkage test	0.25 to 50 %	Cl.4 & 5, table B-1& B-2 of NFC 33 – 209 NF EN 60811-1-3	Permanent
754	Cross Linked Polyethylene Insulated Cables	Water Absorption (Gravimetric)	0.001 to 20 mg/cm2	Cl.4 & 5, table B-1& B-2 of NFC 33 – 209 NF EN 60811-1-3	Permanent
755	Cross Linked Polyethylene Insulated Cables	Insulation resistance (Volume Resistivity)	1.0 to 10x1017 ohm-cm	Cl.4 & 5, table B-1& B-2 of NFC 33 – 209 NF EN 60811-1-1 NFC 32 - 090	Permanent
756	Cross Linked Polyethylene Insulated Cables	High voltage Test (AC)	0.01 to 10 kV	Cl.4 & 5, table B-1& B-2 of NFC 33 – 209	Permanent
757	Insulated Cables & Wires	Outside cable diameter	0.01 to 150 mm	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
758	Insulated Cables & Wires	Insulation thickness	0.01 to 150 mm	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
759	Insulated Cables & Wires	Conductor diameter	0.001 to 25 mm	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
760	Insulated Cables & Wires	Conductor resistance	0.010 to 100 ohm/km	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
761	Insulated Cables & Wires	Withstand voltage	0.1 to 10 kV	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
762	Insulated Cables & Wires	Insulation Volume Resistivity	1 to 10x1017 ohm-cm	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
763	Insulated Cables & Wires	Pressure test at high temperature	0.1 to 80 %	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
764	Insulated Cables & Wires	Strip force	1.0 to 200 N/mm2	Cl. 4.4, Table 3 of ISO 6722-1	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
765	Insulated Cables & Wires	Low-temperature Winding	Qualitative	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
766	Insulated Cables & Wires	Low-temperature Impact	Qualitative	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
767	Insulated Cables & Wires	Sandpaper abrasion	Qualitative	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
768	Insulated Cables & Wires	Scrape abrasion	Qualitative	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
769	Insulated Cables & Wires	Long-term ageing, 3000 h	0.1 to 10 kV	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
770	Insulated Cables & Wires	Short-term ageing, 240 h	0.1 to 10 kV	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
771	Insulated Cables & Wires	Thermal overload	0.1 to 10 kV	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
772	Insulated Cables & Wires	Shrinkage by heat	1mm to 300 mm	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
773	Insulated Cables & Wires	Fluid compatibility	0.1 to 50 %	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
774	Insulated Cables & Wires	Fluid compatibility	0.1 to 10 kV	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
775	Insulated Cables & Wires	Durability of cable marking	Qualitative	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
776	Insulated Cables & Wires	Resistance to ozone	Qualitative	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
777	Insulated Cables & Wires	Resistance to hot water	1.0 to 17x1017 ohm-cm	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
778	Insulated Cables & Wires	Resistance to hot water	0.1 to 10 kV	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
779	Insulated Cables & Wires	Temperature and humidity cycling	0.1 to 10 kV	Cl. 4.4, Table 3 of ISO 6722-1	Permanent
780	Insulated Cables & Wires	Resistance to flame propagation	1mm to 600 mm	Cl. 4.4, Table 3 of ISO 6722-1	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
781	Cross Linked Polyethylene Insulated Cabes	Volume Resistivity of insulation	1.0 to 10x1017 ohm-cm	HD 626-S1 (Pt.6/Sec. D) HD 605	Permanent
782	Cross Linked Polyethylene Insulated Cabes	High Voltage test	0.1 to 10 kV	HD 626-S1 (Pt.6/Sec. D) HD 605	Permanent
783	Cross Linked Polyethylene Insulated Cabes	Conductor Resistance test	0.010 to 100 Ω/km	HD 626-S1 (Pt.6/Sec. D) HD 626-2	Permanent
784	Cross Linked Polyethylene Insulated Cabes	Breaking load of messenger	0.001 to 50 kN	HD 626-S1 (Pt.6/Sec. D) EN 10002-1	Permanent
785	Cross Linked Polyethylene Insulated Cabes	Mechanical properties (Tensile Strength) (before ageing)	1.0 to 200 N/mm2	HD 626-S1 (Pt.6/Sec. D) EN 60811-1-1	Permanent
786	Cross Linked Polyethylene Insulated Cabes	Mechanical properties (Elongation at break) (before ageing)	1.0 to 800 %	HD 626-S1 (Pt.6/Sec. D) EN 60811-1-2	Permanent
787	Cross Linked Polyethylene Insulated Cabes	Mechanical properties (Tensile Strength) (after ageing)	1.0 to 200 N/mm2	HD 626-S1 (Pt.6/Sec. D) EN 60811-1-1	Permanent
788	Cross Linked Polyethylene Insulated Cabes	Mechanical properties (Elongation at break) (after ageing)	1.0 to 800 %	HD 626-S1 (Pt.6/Sec. D) EN 60811-1-2	Permanent
789	Cross Linked Polyethylene Insulated Cabes	Physicochemical properties (Hot set test)	1.0 to 400 %	HD 626-S1 (Pt.6/Sec. D) EN 60811-2-1	Permanent

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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
790	Cross Linked Polyethylene Insulated Cabes	Water Absorption	0.001 to 20 mg/cm2	HD 626-S1 (Pt.6/Sec. D) EN 60811-1-3	Permanent
791	Cross Linked Polyethylene Insulated Cabes	Carbon black content	0.01 to 20 %	HD 626-S1 (Pt.6/Sec. D) EN 60811-4-1	Permanent
792	Cross Linked Polyethylene Insulated Cabes	Shrinkage test	0.25 to 50 %	HD 626-1EN 60811-1-3	Permanent
793	Cross Linked Polyethylene Insulated Cabes	Mechanical properties (Bending test for insulated conductor at low temperature)	Qualitative	HD 626-S1 (Pt.6/Sec. D) HD 626-2	Permanent
794	Cross Linked Polyethylene Insulated Cabes	Dimensions of circular conductor	0.01 to 150 mm	HD 626-S1 (Pt.6/Sec. D) HD 383	Permanent
795	Cross Linked Polyethylene Insulated Cabes	Tensile strength for Aluminium /Alloy Conductor	1.0 to 1000 N/mm2	HD 626-S1 (Pt.6/Sec. D)	Permanent
796	Cross Linked Polyethylene Insulated Cabes	Elongation test	0.10 to 20 %	HD 626-S1 (Pt.6/Sec. D)	Permanent
797	Cross Linked Polyethylene Insulated Cabes	Resistivity test	1.0 to 50.500 ohm.mm/km	HD 626-S1 (Pt.6/Sec. D)	Permanent
798	Cross Linked Polyethylene Insulated Cabes	Thickness of Insulation	0.01 to 150 mm	HD 626-S1 (Pt.6/Sec. D)	Permanent
799	Plastics — Determination of burning	Determination of burning behavior by oxygen index	21% to 80%	ISO 4589-2	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
	behavior by oxygen index				
800	Copper Wire Rods For Electrical Applications	Copper	50 % to 99.999 %	Cl.5.1, Table 1 of IS 12444 & IS 440	Permanent
801	Copper Wire Rods For Electrical Applications	Tellurium	0.01 ppm to 20 ppm	Cl.5.1, Table 1 of IS 12444 & IS 440	Permanent
802	Copper Wire Rods For Electrical Applications	Selenium	0.01 ppm to 20 ppm	Cl.5.1, Table 1 of IS 12444 & IS 440	Permanent
803	Copper Wire Rods For Electrical Applications	Bismuth	0.01 ppm to 10 ppm	Cl.5.1, Table 1 of IS 12444 & IS 440	Permanent
804	Copper Wire Rods For Electrical Applications	Antimony	0.01 ppm to 20 ppm	Cl.5.1, Table 1 of IS 12444 & IS 440	Permanent
805	Copper Wire Rods For Electrical Applications	Arsenic	0.01 ppm to 20 ppm	Cl.5.1, Table 1 of IS 12444 & IS 440	Permanent
806	Copper Wire Rods For Electrical Applications	Tin	0.01 ppm to 20 ppm	Cl.5.1, Table 1 of IS 12444 & IS 440	Permanent
807	Copper Wire Rods For	Lead	0.01 ppm to 20 ppm	Cl.5.1, Table 1 of IS 12444 & IS 440	Permanent

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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
	Electrical Applications				
808	Copper Wire Rods For Electrical Applications	Iron	0.01 ppm to 20 ppm	Cl.5.1, Table 1 of IS 12444 & IS 440	Permanent
809	Copper Wire Rods For Electrical Applications	Nickel	0.01 ppm to 30 ppm	Cl.5.1, Table 1 of IS 12444 & IS 440	Permanent
810	Copper Wire Rods For Electrical Applications	Sulphur	0.01 ppm to 30 ppm	Cl.5.1, Table 1 of IS 12444 & IS 440	Permanent
811	Copper Wire Rods For Electrical Applications	Silver	0.01 ppm to 50 ppm	Cl.5.1, Table 1 of IS 12444 & IS 440	Permanent
812	Copper Wire Rods For Electrical Applications	Oxygen	0.01 ppm to 1000 ppm	Cl.5.1, Table 1 of IS 12444 & IS 440	Permanent
813	Copper Wire Rods For Electrical Applications	Dimension and Tolerances	0.01 to 150 mm	Cl.6, Table 2 of IS 12444 & IS 440	Permanent
814	Copper Wire Rods For Electrical Applications	Ovality of the Wire Rod	0.10 to 50 %	Cl.6, Table 2 of IS 12444 & IS 440	Permanent
815	Copper Wire Rods For Electrical Applications	Freedom from surface Defects	Qualitative	Cl.7, of IS 12444 & IS 440	Permanent

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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
816	Copper Wire Rods For Electrical Applications	Surface Oxide	Qualitative	Cl. 7.2 of IS 12444	Permanent
817	Copper Wire Rods For Electrical Applications	Tensile Test	1.0 to 500 MPa	Cl. 8.1, Table 3 of IS 12444 & IS 1608(Part-1)	Permanent
818	Copper Wire Rods For Electrical Applications	Elongation on Gauge Length of 250mm	1.0 to 80 %	Cl. 8.1, Table 3 of IS 12444 & IS 1608(Part-1)	Permanent
819	Copper Wire Rods For Electrical Applications	Surface Test (Compression Test)	Qualitative	Cl. 8.2 of IS 12444	Permanent
820	Copper Wire Rods For Electrical Applications	Electrical Properties (Volume Resistivity)	0.001 to 0.0300 µΩ. m	Cl. 9, Table 4 of IS 12444 & IS 3635	Permanent
821	Copper Wire Rods For Electrical Applications	Electrical Properties (Mass Resistivity)	0.01 to 0.300 Ωg/m2	Cl. 9, Table 4 of IS 12444 & IS 3635	Permanent
822	Copper Wire Rods For Electrical Applications	Electrical Properties (Conductivity IACS)	1.0 to 110 % IACS	Cl. 9, Table 4 of IS 12444 & IS 3635	Permanent
823	Copper Wire	Copper purity test	50 to 99.99 %	Cl. 7.1, Table 4 of IS:191 & IS:440	Permanent
824	Copper Wire	Lead test	0.0001 to 0.010 %	Cl. 7.1, Table 4 of IS:191 & IS:440	Permanent
825	Copper Wire	Oxygen test	0.001 to 0.10 %	Cl. 7.1, Table 4 of IS:191 & IS:440	Permanent

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Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
826	Copper Wire	Bismuth Test	0.100 to 1000 Sq.mm	Cl. 7.1, Table 4 of IS:191 & IS:440	Permanent
Discipline : Electrical, Group : Conductors & Conducting Material					
827	Aluminium stranded conductors	Freedom From Defects	Qualitative	Clause - 6 of IS 398 (Pt 1)	Permanent
828	Aluminium stranded conductors	Joints in Stranded Conductors	Qualitative	Clause - 8.2 of IS 398 (Pt 1)	Permanent
829	Aluminium stranded conductors	No. of wires	Qualitative	Table -3,4 of IS 398 (Pt 1)	Permanent
830	Aluminium stranded conductors	Overall Diameter	0.01 to 150 mm	Table -2 of IS 398 (Pt 1)	Permanent
831	Aluminium stranded conductors	Measurement of diameter individual aluminium wire	0.001 to 25 mm	Clause - 12.2 of IS 398 (Pt 1)	Permanent
832	Aluminium stranded conductors	Breaking load test of individual Aluminium wire	0.001 to 50 kN	Clause - 12.3 of IS 398 (Pt 1)	Permanent
833	Aluminium stranded conductors	Wrapping test individual aluminium wire	Qualitative	Clause - 12.4 of IS 398 (Pt 1)	Permanent
834	Aluminium stranded conductors	D.C. Resistance individual aluminium wire test	0.01 to 100 ohm/km	Clause - 12.5 of IS 398 (Pt 1)	Permanent
835	Aluminium stranded conductors	Measurement of lay ratio	0.01 to 50 unit less	Clause - 12.6 of IS 398 (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
836	Aluminium stranded conductors	Direction of Lay	Qualitative	Clause - 12.6 of IS 398 (Pt 1)	Permanent
837	Aluminium stranded conductors	Calculated Mass of conductor	0.001 to 1000 Kg	Clause - A-2 of IS 398 (Pt 1)	Permanent
838	Aluminium stranded conductors	Calculated Breaking load of conductor	0.001 to 50 kN	Clause -A-3 of IS 398 (Pt 1)	Permanent
839	Aluminium stranded conductors	Calculated Resistance of conductor at 20° C	0.010 to 100 ohm/km	Table-2 of IS 398 (Pt 1)	Permanent
840	Aluminium conductors, galvanized steel - reinforced	Freedom from Defects	Qualitative	Clause -7 of IS 398 (Pt 2)	Permanent
841	Aluminium conductors, galvanized steel - reinforced	Aluminium conductor, galvanized steel- reinforced	Qualitative	IS 398 (Pt 2)	Permanent
842	Aluminium conductors, galvanized steel - reinforced	Joints in Aluminium Stranded wires	Qualitative	Clause 9.2 of IS 398 (Pt 2)	Permanent
843	Aluminium conductors, galvanized steel - reinforced	Joints in Galvanized steel wires	Qualitative	Clause 9.3 of IS 398 (Pt 2)	Permanent
844	Aluminium conductors, galvanized steel - reinforced	Standing	Qualitative	Clause 10 of IS 398 (Pt 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
845	Aluminium conductors, galvanized steel - reinforced	Visual Examination	Qualitative	Clause 13.3 of IS 398 (Pt 2)	Permanent
846	Aluminium conductors, galvanized steel - reinforced	No. of wires	Qualitative	Clause 13.4 and table-1 of IS 398 (Pt 2)	Permanent
847	Aluminium conductors, galvanized steel - reinforced	Overall Diameter	0.01 to 150 mm	Clause 8.2.1 of IS 398 (Pt 2)	Permanent
848	Aluminium conductors, galvanized steel - reinforced	Measurement of diameter of individual aluminium and steel wires	0.001 to 25 mm	Clause 13.4 and table-1 of IS 398 (Pt 2)	Permanent
849	Aluminium conductors, galvanized steel - reinforced	Measurement of lay ratio	0.01 to 50 unitless	Clause 13.5,10.4/10.5 table 4 of IS 398 (Pt 2)	Permanent
850	Aluminium conductors, galvanized steel - reinforced	Direction of lay	Qualitative	Clause 13.5,10.4/10.5 table 4 of IS 398 (Pt 2)	Permanent
851	Aluminium conductors, galvanized steel - reinforced	Breaking test of individual aluminium and steel wires	0.001 to 50 kN	Clause 13.6, table 1 of IS 398 (Pt 2)	Permanent
852	Aluminium conductors, galvanized steel - reinforced	Ductility test (Torsion test)	1 to 999999Turns	Clause 13.7 of IS 398 (Pt 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
853	Aluminium conductors, galvanized steel - reinforced	Ductility test (Elongation)	0.50 to 50 %	Clause 13.7 of IS 398 (Pt 2)	Permanent
854	Aluminium conductors, galvanized steel - reinforced	Wrapping test individual aluminium and steel wires	Qualitative	Clause 13.8.2 of IS 398 (Pt 2)	Permanent
855	Aluminium conductors, galvanized steel - reinforced	D.C. Resistance test	0.010 to 100 ohm/km	Clause 13.12 of IS 398 (Pt 2)	Permanent
856	Aluminium conductors, galvanized steel - reinforced	Galvanizing test a. uniformity of zinc coating	Qualitative	Clause. 13.10 of IS 398 (Pt 2) & IS 4826 IS:10810(Pt 40)	Permanent
857	Aluminium conductors, galvanized steel - reinforced	Galvanizing test b. weight of zinc coating	1 to 500 g/m2	Clause 13.10 of IS 398 (Pt 2) & IS 4826 IS: 10810 (Pt 41)	Permanent
858	Aluminium conductors, galvanized steel - reinforced	Procedure qualification test on welded Joint of aluminium Strands	Qualitative	Clause13.11 of IS 398 (Pt 2)	Permanent
859	Aluminium conductors, galvanized steel - reinforced	Calculated Mass of conductor	0.001 to 1000 Kg	Annex B, table 3 of IS 398 (Pt 2)	Permanent
860	Aluminium conductors, galvanized steel - reinforced	Calculated Breaking load of conductor	0.001 to 50 kN	Annex B, table 3 of IS 398 (Pt 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
861	Aluminium conductors, galvanized steel - reinforced	Calculated Resistance of conductor at 20° C	0.010 to 100 ohm/km	Annex B, table 3 of IS 398 (Pt 2)	Permanent
862	Aluminium Alloy Stranded conductors	Freedom From Defects	Qualitative	Clause -6 of IS 398 (Pt.4)	Permanent
863	Aluminium Alloy Stranded conductors	Joints in wire	Qualitative	Clause -8 of IS 398 (Pt.4)	Permanent
864	Aluminium Alloy Stranded conductors	No. of wires	Qualitative	Table-3 of IS 398 (Pt.4)	Permanent
865	Aluminium Alloy Stranded conductors	Overall Diameter	0.01 to 150 mm	Table-2 of IS 398 (Pt.4)	Permanent
866	Aluminium Alloy Stranded conductors	Measurement of diameter individual aluminium alloy wires	0.001 to 25 mm	Clause -3.1.2 of IS 398 (Pt.4)	Permanent
867	Aluminium Alloy Stranded conductors	Measurement of lay ratio	0.01 to 50 unitless	Clause -3.1.4 of IS 398 (Pt.4)	Permanent
868	Aluminium Alloy Stranded conductors	Direction of lay	Qualitative	Clause -3.1.3 of IS 398 (Pt.4)	Permanent
869	Aluminium Alloy Stranded conductors	Breaking load of individual aluminium alloy wires	0.001 to 50 kN	Clause -B-3 of IS 398 (Pt.4)	Permanent
870	Aluminium Alloy Stranded conductors	Elongation test of individual	0.050 to 50 %	Clause -12.3 of IS 398 (Pt.4)	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
		aluminium alloy wires			
871	Aluminium Alloy Stranded conductors	Resistance test of individual aluminium alloy wires	0.010 to 100 ohm/km	Clause -12.4 of IS 398 (Pt.4)	Permanent
872	Aluminium Alloy Stranded conductors	Calculated Mass of conductor	0.001 to 1000 Kg	Clause -B-2 of IS 398 (Pt.4)	Permanent
873	Aluminium Alloy Stranded conductors	Calculated Breaking load of conductor	0.001 to 50 kN	Clause -B-3 of IS 398 (Pt.4)	Permanent
874	Aluminium Alloy Stranded conductors	Calculated Resistance of conductor at 20° C	0.010 to 100 ohm/km	Clause -B-2 of IS 398 (Pt.4)	Permanent
875	High Conductivity Aluminium Alloy Stranded Conductor	Freedom From Defects	Qualitative	Clause -8 of IS 398 (Pt. 6)	Permanent
876	High Conductivity Aluminium Alloy Stranded Conductor	Joints in wire	Qualitative	Clause -10 of IS 398 (Pt. 6)	Permanent
877	High Conductivity Aluminium Alloy Stranded Conductor	No. of wires	Qualitative	Table-4 and 5 of IS 398 (Pt. 6)	Permanent
878	High Conductivity Aluminium Alloy	Overall Diameter	0.01 to 150 mm	Table-3 of IS 398 (Pt. 6)	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
	Stranded Conductor				
879	High Conductivity Aluminium Alloy Stranded Conductor	Visual examination	Qualitative	Clause -16.2 of IS 398 (Pt. 6)	Permanent
880	High Conductivity Aluminium Alloy Stranded Conductor	Measurement of lay ratio	0.01 to 100	Clause -16.3 of IS 398 (Pt. 6)	Permanent
881	High Conductivity Aluminium Alloy Stranded Conductor	Direction of lay	Qualitative	Clause -16.3 of IS 398 (Pt. 6)	Permanent
882	High Conductivity Aluminium Alloy Stranded Conductor	Measurement of diameter individual aluminium alloy wires	0.001 to 25 mm	Clause -16.4 of IS 398 (Pt. 6)	Permanent
883	High Conductivity Aluminium Alloy Stranded Conductor	Breaking load test individual aluminium alloy wires	0.001 to 50 kN	Clause -16.5 of IS 398 (Pt. 6)	Permanent
884	High Conductivity Aluminium Alloy Stranded Conductor	Elongation test individual aluminium alloy wires	0.50 to 50 %	Clause -16.6 of IS 398 (Pt. 6)	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
885	High Conductivity Aluminium Alloy Stranded Conductor	Resistivity test individual aluminium alloy wires	1 to 100 ohm.mm²/m	Clause -16.7 of IS 398 (Pt. 6)	Permanent
886	High Conductivity Aluminium Alloy Stranded Conductor	Wrapping test	Qualitative	Clause -16.8 of IS 398 (Pt. 6)	Permanent
887	High Conductivity Aluminium Alloy Stranded Conductor	Calculated Mass of conductor	0.001 to 1000 Kg	Table-2 of IS 398 (Pt. 6)	Permanent
888	High Conductivity Aluminium Alloy Stranded Conductor	Calculated Breaking load of conductor	0.001 to 50 kN	Table-2 of IS 398 (Pt. 6)	Permanent
889	High Conductivity Aluminium Alloy Stranded Conductor	Calculated Resistance of conductor at 20° C	0.010 to 100 ohm/km	Table-2 of IS 398 (Pt. 6)	Permanent
890	Galvanized Strand for Earthing	Construction	Qualitative	Clause -5 of IS :12776	Permanent
891	Galvanized Strand for Earthing	Measurement of diameter of wires	0.001 to 25mm	Clause -6 of IS :12776	Permanent
892	Galvanized Strand for Earthing	Tensile strength	1 to 2500 N/mm2	Annex-A of IS :12776	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
893	Galvanized Strand for Earthing	Torsion test	1 to 999999Turns	Clause -8.6 of IS :12776	Permanent
894	Galvanized Strand for Earthing	Wrapping test	Qualitative	Clause -8.4 of IS :12776	Permanent
895	Galvanized Strand for Earthing	Elongation	0.50 to 20 %	Clause -8.2 of IS :12776	Permanent
896	Galvanized Strand for Earthing	Galvanizing test a. weight of zinc coating	1 to 500 g/m2	Clause -8.5 of IS :12776	Permanent
897	Galvanized Strand for Earthing	Galvanizing test b. uniformity of zinc coating	Qualitative	Clause -8.5 of IS :12776	Permanent
898	Galvanized Strand for Earthing	Lay length	1 to 1000 mm	Clause -6.1 of IS :12776	Permanent
899	Galvanized Strand for Earthing	Direction of lay	Qualitative	Annex-A of IS :12776	Permanent
900	Galvanized Strand for Earthing	Breaking force of galvanized steel earth strand	0.001 to 50 kN	Clause -8.1 and Annex-A of IS :12776	Permanent
901	Galvanized Strand for Earthing	Mass of galvanized steel earth strand	0.001 to 30 Kg	Clause -8.5 and Annex-A of IS :12776	Permanent
902	Galvanized Strand for Earthing	Equivalent modulus of elasticity galvanized steel earth strand	1 to 19x104 kg	Annex-A of IS :12776	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
903	Galvanized Strand for Earthing	D.C. Resistance of Galvanized steel earth strand	0.010 to 100 Ω/km	Annex-A of IS :12776	Permanent
904	Hot Dip Galvanized Stay Strand	Construction	Qualitative	Clause 6.3 of IS :2141	Permanent
905	Hot Dip Galvanized Stay Strand	Freedom From Defects	Qualitative	Clause 7 of IS :2141	Permanent
906	Hot Dip Galvanized Stay Strand	Lay length of galvanized stay strand	1 to 1000 mm	Clause 6.1 of IS :2141	Permanent
907	Hot Dip Galvanized Stay Strand	Measurement of diameter of wires and Strand	0.01 to 150 mm	Table-1 of IS :2141	Permanent
908	Hot Dip Galvanized Stay Strand	Tensile strength	1 to 2500 N/mm2	Clause 5 and 9 of IS :2141	Permanent
909	Hot Dip Galvanized Stay Strand	Elongation	0.50 to 20 %	Clause 5 and 9 of IS :2141	Permanent
910	Hot Dip Galvanized Stay Strand	Breaking force of single wire	0.001 to 50 kN	Clause 6.2 and table-1 of IS :2141	Permanent
911	Hot Dip Galvanized Stay Strand	Breaking force of galvanized stay strand	0.001 to 50 kN	Clause 6.2 and table-1 of IS :2141	Permanent
912	Hot Dip Galvanized Stay Strand	Ductility test (Wrapping test)	Qualitative	Clause 8.1 of IS :2141	Permanent
913	Hot Dip Galvanized Stay Strand	Galvanizing testa. uniformity of zinc coating	Qualitative	Clause 9.2 of IS :2141	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
914	Hot Dip Galvanized Stay Strand	Galvanizing test b. weight of zinc coating	1 to 500 g/m2	Clause 9.2 of IS :2141	Permanent
915	EC Grade Aluminium Rod	Tensile strength	1 to 500 N/mm2	Clause -3.1 of IS :5484	Permanent
916	EC Grade Aluminium Rod	Resistivity test	1 to 50 ohm.mm/km	Clause -10 of IS :5484	Permanent
917	EC Grade Aluminium Rod	Conductivity test	1 to 100 % IACS	Table-2 of IS :5484	Permanent
918	EC Grade Aluminium Rod	Measurement of dimensions	0.001 to 25 mm	Clause -11 of IS :5484	Permanent
919	EC Grade Aluminium Rod	Joints	Qualitative	Clause -12 of IS :5484	Permanent
920	EC Grade Aluminium Rod	Finish and Freedom From Defects	Qualitative	Clause -13 of IS :5484	Permanent
921	Aluminium Stranded Conductors	Diameter	0.01mm to 150 mm	BS 215-1 , Cl.1.2	Permanent
922	Aluminium Stranded Conductors	Breaking Load of Individual Wire	0.001 to 50 kN	BS 215-1 , A.3 & D.2 & Table No. 2 & 3	Permanent
923	Aluminium Stranded Conductors	Diameter of Individual Wire	0.01mm to 25 mm	BS 215-1 , Table No 2 & Table No.3	Permanent
924	Aluminium Stranded Conductors	Elongation Test	1 to 50 %	BS 215-1	Permanent
925	Aluminium Stranded Conductors	Lay Ratio of Stranding Constant	1 to 1000mm	BS 215-1 , Cl.1.2 , 3.4 &Table No 1, Appendix D	Permanent
926	Aluminium Stranded Conductors	Resistivity test	1 to 40 ohm.sq.mm/m	BS 215-1 Cl. 4.3	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
927	Aluminium Stranded Conductors	Tensile test of Individual Wire	0.001 to 50 kN	BS 215-1 , Cl. 4.3	Permanent
928	Aluminium Stranded Conductors	Wrapping Test	Qualitative	BS 215-1 , Cl. 4.3	Permanent
929	Aluminium Conductors Steel Reinforced	Determination of Stress at 1% extension	0.1 to 50 %	BS 215-2 , Cl. 4.3.2	Permanent
930	Aluminium Conductors Steel Reinforced	Dimensions and Construction	0.01 to 150 mm	BS 215-2 , CL. 3	Permanent
931	Aluminium Conductors Steel Reinforced	Galvanizing Test (Mass of zinc coating)	0.1 to 500 g/sq.m	BS 215-2 , Cl. & 4.1.2 & 4.3.2	Permanent
932	Aluminium Conductors Steel Reinforced	Galvanizing Test (Uniformity of zinc coating)	Qualitative	BS 215-2 , Cl. & 4.1.2 & 4.3.2	Permanent
933	Aluminium Conductors Steel Reinforced	Lay ratio of aluminium and steel wire	1 to 50 unitless	BS 215-2 Table No.1 7,Appendix D	Permanent
934	Aluminium Conductors Steel Reinforced	Tensile Test of Aluminium and Steel Wires	1 to 500 N/sq.mm	BS 215-2 , Cl.4.3 & Cl.4.3.1 & 4.3.2	Permanent
935	Aluminium Conductors Steel Reinforced	Torsion Test	1 to 999999 Turns	BS 215-2 , Cl.4.3 & Cl. & 4.3.2	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
936	Aluminium Conductors Steel Reinforced	Elongation Test	1 to 50 %	BS 215-2 , Cl.4.3 & Cl. & 4.3.2	Permanent
937	Round Wire Concentric lay Stranded Conductors	Dimensions	0.01 to 150 mm	BS EN 50182 Cl 6.4.2, 6.5.2 and Table-5	Permanent
938	Round Wire Concentric lay Stranded Conductors	Mass Of Zinc Coating	0.1 to 500 g/sq.m	BS EN 50182 Cl 6.5.2 & Table-5 ,IS 6745 Cl 3.2 and 5	Permanent
939	Round Wire Concentric lay Stranded Conductors	Nominal DC Resistance Test	0.010 to 100 ohm/km	BS EN 50182 Cl 5.10	Permanent
940	Round Wire Concentric lay Stranded Conductors	Resistivity	1 to 50.0 ohm.sq.mm/m	BS EN 50182 Cl 6.5.2	Permanent
941	Round Wire Concentric lay Stranded Conductors	Tensile Strength	0.001 to 50 kN	BS EN 50182 Cl 6.5.2 a	Permanent
942	Round Wire Concentric lay Stranded Conductors	Lay Ratio	0.01 to 50 unitless	BS EN 50182 Cl 5.5.2 to 5.5.7 & 6.4.4	Permanent
943	Round Wire Concentric lay Stranded Conductors	Direction Of Lay	Qualitative	BS EN 50182 Cl 5.5.2 to 5.5.7 & 6.4.4	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
944	Round Wire Concentric lay Stranded Conductors	Rated Tensile strength of Conductor	0.001 to 50 kN	Cl. 5.0 of BS EN 50182	Permanent
945	Covered Conductors	Carbon Black Content	Others up to 20%	BS EN 50397-1 , Cl 6 Table-2, S.No-4.2, BS EN 60811-605, Cl 4.2	Permanent
946	Covered Conductors	Compliance with The design Requirements	Qualitative	BS EN 50397-1 , Cl 4.2 & Cl 6 Table-2, S.No-2.1	Permanent
947	Covered Conductors	Conductor Resistance	0.010 to 100 ohm/km	BS EN 50397-1 , Cl 6 Table-2, S.No-1.1 & HD 605 S3: Cl 3.1.1	Permanent
948	Covered Conductors	Construction and Dimensions of The Conductor	0.01 to 150 mm	BS EN 50397-1 , Cl 6Table-2, S.No-3.2, 4.2.1	Permanent
949	Covered Conductors	Content Legibility on Marking	Qualitative	BS EN 50397-1 , Cl 5	Permanent
950	Covered Conductors	Durability on Marking	Qualitative	BS EN 50397-1 , Cl 5.2	Permanent
951	Covered Conductors	Gravimetric Water Absorption	0.001 to 20 mg/sq.cm	BS EN 50397-1 , Cl 6 Table-2, S.No-7.1, BS EN 60811-402, Cl 4.2	Permanent
952	Covered Conductors	Hot Set Test	1 to 400 %	BS EN 50397-1 , Cl 6 Table-2, S.No-6.2, BS EN 60811-507 Cl 4.3	Permanent
953	Covered Conductors	Mechanical Properties (Tensile Strength) Before Ageing	1 to 200 N/sq.mm	BS EN 50397-1 , Cl 6 Table-2, S.No-4.1a, BS 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
954	Covered Conductors	Mechanical Properties (Tensile Strength) After Ageing	1 to 200 N/sq.mm	BS EN 50397-1 , Cl 6 Table-2, SNo-4.1b, BS EN 60811-401 Cl 4.2.3.2	Permanent
955	Covered Conductors	Mechanical Properties (Elongation at break) Before Ageing	1 to 800 %	BS EN 50397-1 , Cl 6 Table-2, S.No-4.1a, BS EN 60811-501 Cl 4.2	Permanent
956	Covered Conductors	Mechanical Properties (Elongation) After Ageing	1 to 800 %	BS EN 50397-1 , Cl 6 Table-2, S.No-4.1, BS EN 60811-401 Cl 4.2.3.2	Permanent
957	Covered Conductors	Pressure Test	1 to 80%	BS EN 50397-1 , Cl 6 Table-2, S.No-6.3, BS EN 60811-508 Cl 4.3	Permanent
958	Covered Conductors	Rated Tensile Strength On Conductor	0.001 to 50 KN	BS EN 50397-1 , Cl 6 Table-2, S.No-3.1, 4.2.1	Permanent
959	Covered Conductors	Resistance to UV Ray (Tensile Strength)	1 to 200 N/sq.mm	BS EN 50397-1 , Cl 6 Table-2, S. No-4.3 ASTM G 154 Cl 9	Permanent
960	Covered Conductors	Resistance to UV Rays (Elongation)	1 to 800 %	BS EN 50397-1 , Cl 6 Table-2, S.No-4.3 ASTM G 154 Cl 9	Permanent
961	Covered Conductors	Shrinkage Test	0.25 to 50 %	BS EN 50397-1 , Cl 6 Table-2, S.No-6.1, BS EN 60811-502 Cl 4.2	Permanent
962	Covered Conductors	Thickness on Covering	0.01 to 150 mm	BS EN 50397-1 , Cl 6 Table-2, S.No-2.2, BS EN 60811-201 Cl 4.2	Permanent
963	Covered Conductors	High voltage test	0.1 to 10 kV	BS 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
964	Covered Conductors	Tracking Resistance test	Qualitative	BS EN 50397-1 , Annex B	Permanent
965	Covered Conductors	Leakage current test	0.1 to 10 mA	BS EN 50397-1 , Annex A	Permanent
966	Covered Conductors	Shore D hardness test	0.1 to 100 ShD	BS EN 50397-1 , HD 605 S3	Permanent
967	Covered Conductors	Test of the Longitudinal Water tightness	Qualitative	BS EN 50397-1 , IEC 60502-2	Permanent