

# Quality And Accreditation Institute

## Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



### Certificate of Accreditation

**TVS LABS**

A-5/16A, A Block, Third & Fourth Floor, Jhilmil Industrial Area, Shahdara,  
Delhi-110095, India

has been assessed and accredited in accordance with the Standard  
**ISO/IEC 17025:2017**

“General Requirements for the Competence of Testing and Calibration Laboratories”  
In the field of  
**Testing**

This certificate remains valid for the Scope of Accreditation as specified  
in the annexure subject to continued compliance to the above standard &  
any other requirements specified by QAI.



**QAI/CIA/TL/2023/0033**

(Date of First Accreditation: 25 November 2023 – 24 November 2025)

Valid from: 25 November 2025

Valid until: 24 November 2027

**Dr. Bhupendra Kumar Rana**  
Chief Executive Officer

**Prof. Vikram Kumar**  
Chair, CIA

User is advised to verify the current scope of accreditation by visiting our website: [www.qai.org.in](http://www.qai.org.in)



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Transmission line equipment & Accessories		
1.	Aluminium Alloy Strand Conductor	Breaking Load	Cl. 12.2, Cl. 5.1, Table 1 of IS 398 (Part 4):1994 RA: 2021
2.		Calculated Breaking Load of Conductor	Annex B (B-3), Table 2 of IS 398 (Part 4):1994 RA: 2021
3.		Elongation	Cl. 12.3 of IS 398 (Part 4): 1994 RA: 2021
4.		Resistance	Cl. 12.4, Table 1 of IS 398 (Part 4):1994 RA: 2021
5.		Measurement of Lay Ratio	Cl. 9.2 of IS 398 (Part 4): 1994 RA: 2021
6.		Measurement of Diameter	Cl. 3.1.2 of IS 398 (Part 4): 1994 RA: 2021
7.		Freedom from Defects	Cl. 6 of IS 398 (Part 4):1994 RA: 2021
8.		Resistance (Calculated) of Stranded Conductor	Cl. 7.2.2, Table 2 of IS 398 (Part 4):1994 RA: 2021
9.		Cross Sectional Area of Nominal Diameter Wire	Cl. 5.1, Table 1 of IS 398 (Part 4):1994 RA: 2021
10.		Approx. Overall Diameter	Table 2 of IS 398 (Part 4): 1994 RA: 2021
11.	Aluminium Conductor for Overhead Transformation	Breaking Load Test of individual aluminium wires	Cl. 12.3 of IS 398 (Part 1): 1996 RA: 2018

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Transmission line equipment & Accessories		
12.	Aluminium Conductor for Overhead Transformation	Measurement of diameter of aluminium wire	Cl. 12.2 of IS 398 (Part 1): 1996 RA: 2018
13.		Measurement of Overall Diameter (Approx.)	Table 2 of IS 398 (Part 1): 1996 RA: 2018
14.		Measurement of Lay Ratio	Cl. 12.6 of IS 398 (Part 1): 1996 RA: 2018
15.		Resistance Test of Aluminium Wire	Cl. 12.5 of IS 398 (Part 1): 1996 RA: 2018
16.		Wrapping Test of aluminium wire	Cl. 12.4 of IS 398 (Part 1): 1996 RA: 2018
17.		Resistance Test (Calculated) of Stranded Conductor	Annex A, Table 2 of IS 398 (Part 1):1996 RA: 2018
18.		Breaking Load (Calculated) of Conductor	Annex A, Table 2 of IS 398 (Part 1):1996 RA: 2018
19.		Aluminium Conductor for Overhead Transmission purpose Aluminium Conductors and Galvanized Steel- Reinforced	Breaking Load of Individual Aluminium & Steel Wires
20.	Ductility Test (Elongation %) on Steel Wire		Cl. 13.4.2 of IS 398 (Part 2):1996 RA: 2018
21.	Galvanizing Test (Mass of zinc Coating)		Cl. 13.7 of IS 398 (Part 2):1996 RA: 2018
22.	Galvanizing Test (Uniformity of Zinc Coating)		Cl. 13.7 of IS 398 (Part 2):1996 RA: 2018

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Transmission line equipment & Accessories		
23.	Aluminium Conductor for Overhead Transmission purpose Aluminium Conductors and Galvanized Steel- Reinforced	Measurement of Diameter of individual Aluminium and Steel Wire	Cl. 13.2 of IS 398 (Part 2):1996 RA: 2018
24.		Measurement of Overall Diameter (Approx.)	Table 3 of IS 398 (Part 2):1996 RA: 2018
25.		Measurement of Lay Ratio	Cl. 13.8 of IS 398 (Part 2):1996 RA: 2018
26.		Resistance Test	Cl. 13.6 of IS 398 (Part 2):1996 RA: 2018
27.		Ductility Test (Torsion Test) on Steel Wires	Cl. 13.4.1 of IS 398 (Part 2):1996 RA: 2018
28.		Freedom from Defects	Cl. 7.1 of IS 398 (Part 2):1996 RA: 2018
29.		Resistance (Calculated) of Conductor	Annex. A, Table 3 of IS 398 (Part 2):1996 RA: 2018
30.		Breaking Load (Calculated) of Conductor	Annex. A, Table 3 of IS 398 (Part 2):1996 RA: 2018
31.		Wrapping Test on Aluminium & Steel Wires	Cl. 13.5 of IS 398 (Part 2):1996 RA: 2018
32.		High Conductivity Aluminium Alloy Stranded Conductors	Visual Examination

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Transmission line equipment & Accessories		
33.	High Conductivity Aluminium Alloy Stranded Conductors	Measurement of Lay Ratio / Direction of Lay	Cl. 16.3 of IS 398 (Part 6): 2021
34.	High Conductivity Aluminium Alloy Stranded Conductors	Measurement of diameters of individual Aluminium Alloy wires	Cl. 16.4 of IS 398 (Part 6): 2021
35.		Measurement of Overall Diameter (Approx.)	Table 3 of IS 398 (Part 6): 2021
36.		Breaking Load Test on individual wires	Cl. 16.5 of IS 398 (Part 6): 2021
37.		Elongation Test	Cl. 16.6 of IS 398 (Part 6): 2021
38.		Resistivity Test	Cl. 16.7 of IS 398 (Part 6): 2021
39.		Wrapping Test	Cl. 16.8 of IS 398 (Part 6): 2021
40.		D.C. Resistance Test on Stranded Conductor	Cl. 16.10 of IS 398 (Part 6): 2021
41.		Resistance Test (Calculated) of Stranded Conductor	Annex A, Table 3 of IS 398 (Part 6): 2021
42.		Aluminium Conductor for Overhead Transmission purpose Aluminium Conductors and Galvanized Steel- Reinforced	Visual Examination

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Transmission line equipment & Accessories		
43.	Aluminium Conductor for Overhead Transmission purpose Aluminium Conductors and Galvanized Steel- Reinforced	Measurement of lay ratio/direction of lay	Cl. 13.5 of IS 398 (Part 2) – 2025
44.		Measurement of diameter of individual Aluminium and Steel Wires	Cl. 13.4 of IS 398 (Part 2) – 2025
45.		Measurement of Overall Diameter (Approx.)	Table 3 of IS 398 (Part 2) – 2025
46.		Breaking Load Test on individual Aluminium and Steel Wires	Cl. 13.6 of IS 398 (Part 2) – 2025
47.		Wrapping Test of Individual Aluminium and Steel Wires	Cl. 13.8 of IS 398 (Part 2) – 2025
48.		Ductility Test (Torsion Test)	Cl. 13.7.1 of IS 398 (Part 2) – 2025
49.		Ductility Test (Elongation Test)	Cl. 13.7.2 of IS 398 (Part 2) – 2025
50.		Galvanizing Test (Mass of Zinc Coating)	Cl. 13.10.2 of IS 398 (Part 2) – 2025
51.		Galvanizing Test (Uniformity of Zinc Coating)	Cl. 13.10.2 of IS 398 (Part 2) – 2025

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Transmission line equipment & Accessories		
52.	Aluminium Conductor for Overhead Transmission purpose Aluminium Conductors and Galvanized Steel- Reinforced	Adherence of Zinc	Cl. 13.10.3 of IS 398 (Part 2) – 2025
53.		D.C. Resistance Test on Individual Aluminium Wires	Cl. 13.9 of IS 398 (Part 2) – 2025
54.		Resistance (Calculated) of Conductor	Annex. B, Table 3 of IS 398 (Part 2):2025
55.		Breaking Load (Calculated) of Conductor	Annex. B, Table 3 of IS 398 (Part 2):2025
56.		Freedom from Defects	Cl. 7 of IS 398 (Part 2) – 2025



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
1.	Aerial Bunched Cables for working voltages upto and including 1100V	Environmental Stress Cracking	Cl. 5.1, Cl. 10.1 & Table-2 IS 14255:1995 RA: 2020
2.		Ageing in Air Oven on Insulation (Tensile Variation)	Cl. 5.1, Cl. 10.1 & Table-1 of IS 14255:1995 RA: 2020
3.		Ageing in Air Oven on Insulation (Elongation Variation)	Cl. 5.1, Cl. 10.1 & Table-1 of IS 14255:1995 RA: 2020
4.		Bending Test on complete cable	Cl. 11.4 of IS 14255:1995 RA: 2020
5.		Breaking load on Messenger Conductor	Cl. 6.5, Cl. 10.1 & Table-3 of IS 14255:1995 RA: 2020
6.		Carbon Black Content & Dispersion	Cl. 10.1, Table 1 & Table 2 of IS 14255:1995 RA: 2020
7.		Resistance Test on Phase/Street Light Conductor	Cl. 10.1 of IS 14255:1995 RA: 2020
8.		Resistance Test on Messenger Conductor	Cl. 10.1, Table 3 of IS 14255:1995 RA: 2020
9.		Elongation Test on Messenger Conductor	Cl. 10.1, Cl. 11.3 of IS 14255:1995 RA: 2020
10.		High Voltage Test at Room Temperature	Cl. 10.1, Cl. 11.2 of IS 14255:1995 RA: 2020
11.		Hot Set Test	Cl. 10.1, Table 1 of IS 14255:1995 RA: 2020
12.		Melt Flow Index	Cl. 10.1, Table 2 of IS 14255:1995 RA: 2020

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
13.	Aerial Bunched Cables for working voltages upto and including 1100V	Shrinkage Test on Insulation	Cl. 10.1, Table 1 of IS 14255:1995 RA: 2020
14.		Tensile Strength on Insulation	Cl. 10.1, Table 1 & Table 2 of IS 14255:1995 RA: 2020
15.		Elongation at Break on Insulation	Cl. 10.1, Table 1 & Table 2 of IS 14255:1995 RA: 2020
16.		Tensile Test on Phase/Street Light Conductor	Cl. 10.1 of IS 14255:1995 RA: 2020
17.		Thickness of Insulation	Cl. 10.1, Table 4 of IS 14255:1995 RA: 2020
18.		Vicat Softening Point	Cl. 10.1, Table 2 of IS 14255:1995 RA: 2020
19.		Insulation Resistance (Volume Resistivity) Test	Cl. 10.1, Table 1 & Table 2 of IS 14255:1995 RA: 2020
20.		Water Absorption (Gravimetric)	Cl. 10.1, Table 1 of IS 14255:1995 RA: 2020
21.		Aluminium or Aluminium alloy Wires	Breaking load on Messenger Conductor
22.	Aluminium Wire	Tensile Test on Phase/Street Light Conductor	IS:10810 (Part 2)-1984 RA: 2021

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Cables and Wires		
23.		Tensile Test (for Aluminium)	IS:10810 (Part 2)-1984 RA: 2021
24.	Aluminium Wire	Wrapping Test (for Aluminium)	IS:10810 (Part 3)-1984 RA: 2021
25.		Wrapping Test on Phase/ Street Light Conductor	IS:10810 (Part 3)-1984 RA: 2021
26.	Conductors for Insulated Electric Cables and Flexible Cords	Annealing test (for copper)	IS 8130: 2013 RA: 2018
27.		Conductor Resistance Test / Resistance of Conductors	IS 8130: 2013 RA: 2018
28.		Persulphate Test (for tinned copper conductor cable only)	IS 8130: 2013 RA: 2018
29.		Tensile Test (for Aluminium)	IS 8130: 2013 RA: 2018
30.	Conductors of insulated cables	Conductor Resistance Test	IS:10810 (Part 5)-1984 RA: 2021
31.	Conductors of Insulated Materials	Resistance Test on Phase/ Messenger/Street Light Conductor	IS:10810 (Part 5)-1984 RA: 2021
32.	Copper	Annealing Test (For Copper)	IS:10810 (Part 1)-1984 RA: 2021

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
33.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto & incl. 1100V	Ageing in Air Oven on Insulation & Sheath (Tensile Variation)	Cl. 15.1 (d) (ii) & (e) (ii), Table 1 of IS:7098 (Part 1) - 1988 RA: 2020 & IS:5831-1984 RA:2021
34.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto & incl. 1100V	Ageing in Air Oven on Insulation & Sheath (Elongation variation)	Cl. 15.1 (d) (ii) & (e) (ii), Table 1 of IS:7098 (Part 1) - 1988 RA: 2020 & IS:5831-1984 RA:2021
35.		Annealing test (for copper)	Cl. 15.1 (a) (i) of IS:7098 (Part 1) - 1988 RA: 2020
36.		Armoured Coverage Percentage	Cl. 13.1.2, Appendix C of IS:7098 (Part 1) - 1988 RA: 2020
37.		Cold Bend Test	Cl. 15.4 (a) of IS:7098 (Part 1) - 1988 RA: 2020 & IS:5831-1984 RA:2021
38.		Cold Impact Test	Cl. 15.4 (b) of IS:7098 (Part 1) - 1988 RA: 2020 & IS:5831-1984 RA:2021
39.		Resistance Test for Armour (other than mining cable)	Cl. 15.4 (c) of IS:7098 (Part 1) - 1988 RA: 2020
40.		Conductor Resistance Test / Resistance of Conductors	Cl. 15.1 (a) (iv) of IS:7098 (Part 1) - 1988 RA: 2020
41.		Test for halogen acid gas evolution	Cl. 16.13 of IS:7098 (Part 1)-1988 RA: 2020
42.		Dimensions of Galvanized Steel Wire or Strip	Cl. 13.3, Table 6 of IS:7098 (Part 1)- 1988 RA: 2020
43.		Flame Retardance test on Bunched Cables	Cl. 16.11 of IS:7098 (Part 1) - 1988 RA: 2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
44.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto & incl. 1100V	Flame Retardance test on single Cables	Cl. 16.10 of IS:7098 (Part 1) - 1988 RA: 2020
45.		Flammability Test	Cl. 16.3 of IS:7098 (Part 1) - 1988 RA: 2020
46.		Heat Shock Test on Sheath	Cl. 15.1 (e) (vi) of IS:7098 (Part 1) - 1988 RA: 2020 & IS:5831-1984 RA:2021
47.		High Voltage Test at Room Temperature	Cl. 16.2 of IS:7098 (Part 1)-1988 RA: 2020
48.		Hot Deformation Test on Sheath	Cl. 15.1 (e) (v) of IS:7098 (Part 1) - 1988 RA: 2020 & IS:5831-1984 RA:2021
49.		Hot Set Test	Cl. 15.1 (d) (iii), Table 1 of IS:7098 (Part 1) - 1988 RA: 2020
50.		Loss of Mass in Air Oven	Cl. 15.1 (e) (iii) of IS:7098 (Part 1) - 1988 RA: 2020 & IS:5831-1984 RA:2021
51.		Mass of Zinc Coating of Round/Formed Steel Wire	Cl. 13.6 (f) of IS:7098(Part 1) - 1988 RA: 2020
52.		Measurement of Temperature Index	Cl. 16.14 of IS:7098 (Part 1) - 1988 RA: 2020

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
53.		Oxygen Index Test	Cl. 16.9 of IS:7098 (Part 1)-1988 RA: 2020
54.		Resistivity Test of Round/formed Steel Wire	Cl. 13.6 (g) of IS:7098 (Part 1) - 1988 RA: 2020
55.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto & incl. 1100V	Shrinkage Test on Insulation & Sheath	Cl. 15.1 (d) (iv) & (e) (iv), Table 1 of IS:7098 (Part 1) - 1988 RA: 2020 & IS:5831-1984 RA:2021
56.		Smoke Density Rating	Cl. 16.15 of IS:7098 (Part 1)-1988 RA: 2020
57.		Tensile strength of Round/formed Steel Wire	Cl. 13.6 (a) of IS:7098 (Part 1) - 1988 RA: 2020
58.		Elongation at break of Round/formed Steel Wire	Cl. 13.6 (b) of IS:7098 (PART 1) - 1988 RA: 2020
59.		Tensile Strength on Insulation & Sheath	Cl. 15.1 (d) (i) & (e) (i), Table 1 of IS:7098 (Part 1) - 1988 RA: 2020 & IS:5831-1984 RA:2021
60.		Elongation at Break on Insulation & Sheath	Cl. 15.1 (d) (i) & (e) (i), Table 1 of IS:7098 (Part 1) - 1988 RA:2020 & IS:5831-1984 RA:2021
61.		Tensile Test (for Aluminium)	Cl. 15.1 (a) (ii) of IS:7098 (Part 1) - 1988 RA: 2020
62.		Thickness of Insulation & Sheath	Cl. 15.1 (c) of IS:7098 (Part 1) - 1988 RA: 2020

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
63.		Thermal Stability Test on Sheath	Cl. 15.1 (e) (vii) of IS:7098 (Part 1) - 1988 RA: 2020 & IS:5831-1984 RA:2021
64.		Torsion Test for Round Steel Wire	Cl. 13.6 (c) of IS:7098 (Part 1) - 1988 RA: 2020
65.		Uniformity of Zinc Coating of Round/Formed Steel Wire	Cl. 13.6 (e) of IS:7098 (Part 1) - 1988 RA: 2020
66.	Cross Linked Polyethylene Insulated Thermoplastic	Volume Resistivity	Cl. 15.1 (f) of IS:7098 (Part 1) - 1988 RA: 2020
67.	Sheathed cables for working voltages upto & incl. 1100V	Water Absorption (Gravimetric)	Cl. 15.1 (d) (v), Table 1 of IS:7098 (Part 1) - 1988 RA: :2020
68.		Winding Test for Formed Steel Wire	Cl. 13.6 (d) of IS:7098 (Part 1) - 1988 RA: 2020
69.		Wrapping Test (for Aluminium)	Cl. 15.1 (a) (iii) of IS:7098 (Part 1) - 1988 RA: 2020
70.	Insulation and sheathing materials	Hot Set Test	IS:10810 (Part 30)-1984 RA: 2021
71.	Dielectric material of electric cables	Insulation Resistance	IS:10810 (Part 43)-1984 RA: 2021
72.		Volume Resistivity	IS:10810 (Part 43)-1984 RA: 2021
73.	Electric Cables	Flammability Test	IS:10810 (Part 53)-1984 RA: 2021
74.		Flame Retardance test on single Cables	IS:10810 (Part 61)-1988 RA: 2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
75.		High Voltage test (Water immersion)	IS:10810 (Part 45)-1984 RA: 2021
76.	Electric Cables	Measurement of Smoke Density of Electric Cables Under Fire Condition	IS:10810 (Part 63)-1993 RA: 2019
77.		High Voltage Test at Room Temperature	IS:10810 (Part 45)-1984 RA: 2021
78.	Electric or Optical Fibre Cables	Flame Retardance test on Bunched Cables	IEC 60332-3-21: 2018
79.		Flame Retardance test on Bunched Cables	IEC 60332-3-22: 2018
80.		Flame Retardance test on Bunched Cables	IEC 60332-3-23: 2018
81.		Flame Retardance test on Bunched Cables	IEC 60332-3-24: 2018
82.		Flame Retardance test on Bunched Cables	IEC 60332-3-25: 2018
83.		Flame Spread Test on Single Cable	IEC 60332-1-2: 2025
84.	Electrical Wires or Cables	Flame Retardance test on Bunched Cables	IS:10810 (Part 62)-1993 RA: 2014



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
85.	Fire Retardant Low Smoke Zero Halogen Cables	Measurement of Smoke Density of Electrical Cables under fire conditions	IEC/BS EN 61034-2: 2005
86.	Halogenated polymers and compounds from electric or optical fibre cable	Determination of the halogen acid gas content	IEC 60754-1: 2011
87.		Determination of the halogen acid gas content	IS:10810 (Part 59)-1988 RA: 2020
88.	Insulation and sheath of electric cables	Ageing in Air Oven on Insulation & Sheath (Tensile Variation)	IS:10810 (Part 11)-1984 RA: 2021
89.		Ageing in Air Oven on Insulation & Sheath (Elongation Variation)	IS:10810 (Part 11)-1984 RA: 2021
90.		Measurement of Temperature Index	IS:10810 (Part 64)-2003 RA: 2022
91.		Oxygen Index Test	ASTM D2863-23e1
92.		Oxygen Index Test	IS:10810 (Part 58)-1998 RA: 2019
93.		Shrinkage Test on Insulation & Sheath	IS:10810 (Part 12)-1984 RA: 2021
94.		Water Absorption (Gravimetric)	IS:10810 (Part 33)-1984 RA: 2021
95.		Oil Resistance Test (Tensile Variation)	IS:10810 (Part 31)-1984 RA: 2021

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
96.	Insulation/non-metallic sheathing materials of electric cables	Oil Resistance Test (Elongation Variation)	IS:10810 (Part 31)-1984 RA: 2021
97.	Low Carbon Galvanized Steel Formed Wires	Winding Test for Formed Wire	IS:10810 (Part 39)-1984 RA: 2021
98.		Torsion Test for Round Wire	IS:10810 (Part 38)-1984 RA: 2021
99.	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes	Uniformity of Zinc Coating	IS:10810 (Part 40)-1984 RA: 2021
100.		Dimensions of Armouring Material	IS:10810 (Part 36)-1984 RA: 2021
101.		Mass of Zinc Coating	IS:10810 (Part 41)-1984 RA: 2021
102.		Mass of Zinc Coating	IS 4826 :2023
103.		Resistivity Test	IS:10810 (Part 42)-1984 RA: 2021
104.		Tensile strength for armouring material	IS:10810 (Part 37)-1984 RA: 2021
105.	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes	Elongation at break for armouring material	IS:10810 (Part 37)-1984 RA: 2021
106.	Metallic Materials	Tensile Strength of Metallic Materials	IS 1608 (Part 1) & (Part 3): 2018
107.		Elongation of Metallic Materials	IS 1608 (Part 1) & (Part 3): 2018

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
108.		Wrapping Test	IS 1755: 2018
109.	Plastics and Plastic Material	Smoke Density Rating	ASTM D2843-16: 2016
110.	Plastics and Plastic Material	Smoke Density Rating	IS 13360 (Part 6/Sec 9) - 2025
111.	Polyethylene insulation and sheath of electric cables	Environmental stress cracking test	IS:10810 (Part 29)-1984 RA: 2021
112.		Melt Flow Index	IS:10810 (Part 23)-1984 RA: 2021
113.	Polyethylene insulation and sheath of electric cables or Olefin Plastics	Caron Black Content & Dispersion	IS:10810 (Part 32)-1984 RA: 2021
114.		Vicat Softening Point	IS:10810 (Part 22)-1984 RA: 2021
115.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords	Additional Ageing Test	Cl. 10.9 of IS 694:2010 RA: 2020
116.		Ageing in Air Oven on Insulation & Sheath (Tensile Variation)	Table 1 of IS 694:2010 RA: 2020
117.		Ageing in Air Oven on Insulation & Sheath (Elongation Variation)	Table 1 of IS 694:2010 RA: 2020
118.		Annealing test (for copper)	Table 1 of IS 694:2010 RA: 2020
119.		Legibility and Durability	Cl. 11.1, Cl. 11.2 of IS 694:2010 RA: 2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
120.		Cold Bend Test on Insulation & Sheath	Table 1 of IS 694:2010 RA: 2020
121.		Cold Impact Test on Insulation & Sheath	Table 1 of IS 694:2010 RA: 2020
122.		Conductor Resistance Test	Table 1 of IS 694:2010 RA: 2020
123.		Test for halogen acid gas evolution on Insulation & Sheath	Cl. 10.6 of IS 694:2010 RA: 2020
124.		Flammability Test	Cl. 10.4 of IS 694:2010 RA: 2020
125.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords	Heat Shock Test on Insulation & Sheath	Table 1 of IS 694:2010 RA: 2020
126.		High Voltage test (Water immersion)	Cl. 10.1 of IS 694:2010 RA: 2020
127.		High Voltage Test at Room Temperature	Cl. 10.2 of IS 694:2010 RA: 2020
128.		Hot Deformation Test on Insulation & Sheath	Table 1 of IS 694:2010 RA: 2020
129.		Insulation Resistance	Table 1 of IS 694:2010 RA: 2020
130.		Loss of Mass on Insulation & Sheath	Table 1 of IS 694:2010 RA: 2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
131.		Measurement of Temperature Index on Insulation & Sheath	Cl. 10.7 of IS 694:2010 RA: 2020
132.		Ovality	Cl. 9.1 of IS 694:2010 RA: 2020
133.		Oxygen Index Test on Insulation & Sheath	Cl. 10.5 of IS 694:2010 RA: 2020
134.		Persulphate Test (for tinned copper conductor cable only)	Cl. 10.11 of IS 694:2010 RA: 2020
135.		Shrinkage Test on Insulation & Sheath	Table 1 of IS 694:2010 RA: 2020
136.		Smoke Density Rating on Insulation & Sheath	Cl. 10.8 of IS 694:2010 RA: 2020
137.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords	Tensile Strength on Insulation & Sheath	Table 1 of IS 694:2010 RA: 2020
138.		Elongation at Break on Insulation & Sheath	Table 1 of IS 694:2010 RA: 2020
139.		Tensile Test (for Aluminium)	Table 1 of IS 694:2010 RA: 2020
140.		Test for overall dimensions & thickness of Insulation & Sheath	Table 3 to 10 of IS 694:2010 RA: 2020
141.		Thermal stability Test on Insulation & Sheath	Table 1 of IS 694:2010 RA: 2020
142.		Volume Resistivity	Table 1 of IS 694:2010 RA: 2020
143.		Wrapping Test (for Aluminium)	Table 1 of IS 694:2010 RA: 2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
144.	PVC Insulated (Heavy Duty) Electric cables for working voltages upto and including 1100V	Ageing in Air Oven on Insulation & Sheath (Tensile Variation)	Cl. 15.1 (d) (2) of IS:1554 (Part 1) - 1988 RA: 2020
145.		Ageing in Air Oven on Insulation & Sheath (Elongation Variation)	Cl. 15.1 (d) (2) of IS:1554 (Part 1) - 1988 RA: 2020
146.		Annealing test (for copper)	Cl. 15.1 (a) (1) of IS:1554 (Part 1) - 1988 RA: 2020
147.		Armoured Coverage Percentage	Cl. 13.1.2, Appendix C of IS:1554 (Part 1)-1988 RA: 2020
148.		Cold Bend Test on Insulation & Sheath	Cl. 15.4 (a) of IS:1554 (Part 1) - 1988 RA: 2020
149.		Cold Impact Test on Insulation & Sheath	Cl. 15.4 (b) of IS:1554 (Part 1) - 1988 RA: 2020
150.		Armour Resistance Test (for other than mining cable)	Cl. 15.4 (c) of IS:1554 (Part 1) - 1988 RA: 2020
151.		Conductor Resistance Test	Cl. 15.1 (a) (4) of IS:1554 (Part 1) - 1988 RA: 2020
152.		Test for Halogen Acid Gas Evolution	Cl. 16.9 of IS:1554 (Part 1) - 1988 RA: 2020
153.		Dimensions of Armouring Material	Cl. 13.3 of IS:1554 (Part 1) - 1988 RA: 2020
154.		Flame Retardance test on Bunched Cables	Cl. 16.7 of IS:1554 (PART 1)- 1988 RA: 2020
155.		Flame Retardance test on single Cables	Cl. 16.6 of IS:1554 (PART 1)-1988 RA: 2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
156.		Flammability Test	Cl. 16.4 of IS:1554 (Part 1) - 1988 RA: 2020
157.		Heat Shock Test on Insulation & Sheath	Cl. 15.1 (d) (6) of IS:1554 (Part 1) - 1988 RA: 2020 & IS:5831-1984 RA:2021
158.		High Voltage Test at Room Temperature	Cl. 16.2 of IS:1554 (Part 1) - 1988 RA: 2020
159.		Hot Deformation Test on Insulation & Sheath	Cl. 15.1 (d) (4) of IS:1554 (Part 1) - 1988 RA: 2020 & IS:5831-1984 RA:2021
160.	PVC Insulated (Heavy Duty) Electric cables for working voltages upto and including 1100V	Insulation Resistance	Cl. 15.1 (e) of IS:1554 (Part 1) - 1988 RA: 2020 & IS:5831-1984 RA:2021
161.		Loss of Mass on Insulation & Sheath	Cl. 15.1 (d) (5) of IS:1554 (Part 1) - 1988 RA: 2020 & IS:5831-1984 RA:2021
162.		Mass of Zinc Coating of Round/Formed Steel Wire	Cl. 13.6 (f) of IS:1554 (PART 1)-1988 RA: 2020
163.		Measurement of Temperature Index on Insulation & Sheath	Cl. 16.10 of IS:1554 (Part 1) - 1988 RA: 2020
164.		Oxygen Index Test on Insulation & Sheath	Cl. 16.5 of IS:1554 (Part 1) - 1988 RA: 2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
165.		Resistivity Test on Round/Formed Steel Wire	Cl. 13.6 (g) of IS:1554 (Part 1) - 1988 RA: 2020
166.		Shrinkage Test on Insulation & Sheath	Cl. 15.1 (d) (3) of IS:1554 (Part 1) - 1988 RA: 2020 & IS:5831-1984 RA:2021
167.		Smoke Density Rating on Insulation & Sheath	Cl. 16.11 of IS:1554 (Part 1)-1988 RA: 2020
168.		Tensile strength for Round/Formed Steel Wire	Cl. 13.6 (a) and (b) of IS:1554 (Part 1) - 1988 RA: 2020
169.	PVC Insulated (Heavy Duty) Electric cables for working voltages upto and including 1100V	Elongation at break for Round/Formed Steel Wire	Cl. 13.6 (a) and (b) of IS:1554 (Part 1) - 1988 RA: 2020
170.		Tensile Strength on Insulation & Sheath	Cl. 15.1 (d) (1) of IS:1554 (Part 1) - 1988 RA: 2020 & IS:5831-1984 RA:2021
171.		Elongation at Break on Insulation & Sheath	Cl. 15.1 (d) (1) of IS:1554 (Part 1) - 1988 RA: 2020 & IS:5831-1984 RA:2021
172.		Tensile Test (for Aluminium)	Cl. 15.1 (a) (2) of IS:1554 (Part 1) - 1988 RA: 2020
173.		Test for thickness of Insulation & Sheath	Cl. 15.1 (c) of IS:1554 (Part 1) - 1988 RA: 2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
174.		Thermal Stability Test on Insulation & Sheath	Cl. 15.1 (d) (7) of IS:1554 (Part 1) - 1988 RA: 2020 & IS:5831-1984 RA:2021
175.		Torsion Test for Round Wire	Cl. 13.6 (c) of IS:1554 (Part 1) - 1988 RA: 2020
176.	PVC Insulated (Heavy Duty) Electric cables for working voltages upto and including 1100V	Uniformity of Zinc Coating of Round/Formed Steel Wire	Cl. 13.6 (e) of IS:1554 (Part 1) - 1988 RA: 2020
177.		Volume Resistivity	Cl. 15.1 (e) of IS:1554 (Part 1) - 1988 RA: 2020
178.		Winding Test for Formed Wire	Cl. 13.6 (d) of IS:1554 (Part 1) - 1988 RA: 2020
179.		Wrapping Test (for Aluminium)	Cl. 15.1 (a) (3) of IS:1554 (Part 1) - 1988 RA: 2020
180.	PVC insulation and sheath of electric cables	Thermal Stability Test on Insulation & Sheath	IS:10810 (Part 60)-1988 RA: 2020
181.		Volume Resistivity	Cl. 4.1, Table 1 of IS 5831:1984 RA: 2021
182.	Thermoplastic and Elastomeric insulation and sheath of electric cables	Tensile Strength on Insulation & Sheath	IS:10810 (Part 7)-1984 RA: 2021
183.		Elongation at Break on Insulation & Sheath	IS:10810 (Part 7)-1984 RA: 2021
184.		Test for overall dimensions & thickness of Insulation & Sheath	IS:10810 (Part 6)-1984 RA: 2021
185.	Thermoplastic insulation and sheath of electric cables	Heat Shock Test on Insulation & Sheath	IS:10810 (Part 14)-1984 RA: 2021

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	<b>Cables and Wires</b>		
186.		Hot Deformation Test on Insulation & Sheath	IS:10810 (Part 15)-1984 RA: 2021
187.		Loss of Mass on Insulation & Sheath	IS:10810 (Part 10)-1984 RA: 2021
188.		Cold Bend Test on Insulation & Sheath	IS:10810 (Part 20)-1984 RA: 2021
189.	Thermoplastic insulation and sheath of electric cables	Cold Impact Test on Insulation & Sheath	IS:10810 (Part 21)-1984 RA: 2021
190.	Tinned copper conductor	Persulphate Test (for tinned copper conductor only)	IS:10810 (Part 4)-1984 RA: 2021
191.	Zinc coated articles	Uniformity of Zinc Coating	IS 2633:1986 RA: 2016
192.	Zinc coated iron and steel articles	Average Mass of Zinc Coating	IS 6745-1972 RA: 2016
193.	PVC Insulated (Heavy Duty) Electric cables for working	High Voltage test (Water immersion)	Cl. 16.3, Cl. 15.1 (f) of IS:1554 (Part 1) - 1988 RA: 2020
194.	Aerial Bunched Cables for working voltages upto and	Wrapping test	Cl. 10.1 of IS 14255:1995 RA: 2020
195.	Copper	Copper Purity	IS 191: 2007 / IS 440:1964
196.	Nonmetallic materials	UV Test	ASTM G151-19: 2019
197.	Nonmetallic materials	UV Test	ASTM G154-16: 2016

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	<b>Cables and Wires</b>		
198.	Overhead Distribution Cables	High Voltage Test	CENELAC HD 626 S1: 2002
199.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and incl. 1100V	Annealing Test (for copper)	Cl. 16.1 i) a) of IS:7098 (Part 1) - 2025
200.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and incl. 1100V	Tensile Test (for Aluminium)	Cl. 16.1 i) b) of IS:7098 (Part 1) - 2025
201.		Wrapping Test (for Aluminium)	Cl. 16.1 i) c) of IS:7098 (Part 1) - 2025
202.		Resistance Test	Cl. 16.1 i) d) of IS:7098 (Part 1) - 2025
203.		Dimensions of round steel wire/formed steel wire armour	Cl. 16.1 ii) a), Cl. 14.3, Table-6 of IS:7098 (Part 1) - 2025
204.		Tensile Strength of round steel wire/formed steel wire armour	Cl. 16.1 ii) b (1), Cl. 14.6 (a) of IS:7098 (Part 1) - 2025
205.		Elongation at break of round steel wire/formed steel wire armour	Cl. 16.1 ii) b (2), Cl. 14.6 (b) of IS:7098 (Part 1) - 2025
206.		Torsion Test for round steel wire armour	Cl. 16.1 ii) b (3), Cl. 14.6 (c) of IS:7098 (Part 1) - 2025
207.		Winding Test for formed steel wire armour	Cl. 16.1 ii) b (4), Cl. 14.6 (d) of IS:7098 (Part 1) - 2025

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
208.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and incl. 1100V	Uniformity of zinc coating of round steel wire/formed steel	Cl. 16.1 ii) b (5), Cl. 14.6 (e) of IS:7098 (Part 1) - 2025
209.		Mass of zinc coating of round steel wire/formed steel wire	Cl. 16.1 ii) b (6), Cl. 14.6 (f) of IS:7098 (Part 1) - 2025
210.		Resistivity Test for round steel wire/formed steel wire armour	Cl. 16.1 ii) b (7), Cl. 14.6 (g) of IS:7098 (Part 1) - 2025
211.		Resistance test for armour (other than mining cable)	Cl. 16.1 iv), Cl. 14.5.1 of IS:7098 (Part 1) - 2025
212.		Armoured Coverage Percentage	Cl. 14.1.2, Appendix C of IS:7098 (Part 1) - 2025
213.		Test for Thickness of Insulation & Sheath	Cl. 16.1 iii), Cl. 10, Cl. 13, Cl. 15, Table-3, Table-5 & Table-7 of IS:7098
214.		Tensile Strength of Insulation	Cl. 16.1 iv) a), Table-1 of IS:7098 (Part 1) - 2025
215.		Elongation at break of Insulation	Cl. 16.1 iv) a), Table-1 of IS:7098 (Part 1) - 2025
216.		Ageing in Air Oven of Insulation (Tensile Variation)	Cl. 16.1 iv) b), Table-1 of IS:7098 (Part 1) - 2025
217.		Ageing in Air Oven of Insulation (Elongation Variation)	Cl. 16.1 iv) b), Table-1 of IS:7098 (Part 1) - 2025
218.	Hot Set Test of Insulation	Cl. 16.1 iv) c), Table-1 of IS:7098 (Part 1) - 2025	
219.	Shrinkage Test of Insulation	Cl. 16.1 iv) d), Table-1 of IS:7098 (Part 1) - 2025	

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
220.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and incl. 1100V	Water absorption (Gravimetric)	Cl. 16.1 iv) e), Table-1 of IS:7098 (Part 1) - 2025
221.		Insulation Resistance (Volume Resistivity Test)	Cl. 16.1 vi), Table-1 of IS:7098 (Part 1) - 2025
222.		Tensile Strength of Sheath	Cl. 16.1 v) a (1), b (2) & c (1), Table-1A, Table-1B of IS:7098 (Part 1) –
223.		Elongation at break of Sheath	Cl. 16.1 v) a (1), b (2) & c (1), Table-1A, Table-1B of IS:7098 (Part 1) –
224.		Ageing in Air Oven (Tensile Strength of Sheath after ageing)	Cl. 16.1 v) a (2), b (2) & c (1), Table-1A, Table-1B of IS:7098 (Part 1) –
225.		Ageing in Air Oven (Elongation at break of Sheath after ageing)	Cl. 16.1 v) a (2), b (2) & c (1), Table-1A, Table-1B of IS:7098 (Part 1) –
226.		Loss of Mass in Air Oven of Sheath	Cl. 16.1 v) a (3) of IS:7098 (Part 1) – 2025 & IS:5831-1984 RA:2021
227.		Shrinkage Test on Sheath	Cl. 16.1 v) a (4), b (4) & c (4), Table-1B of IS:7098 (Part 1)–2025 &
228.		Hot Deformation Test of Sheath	Cl. 16.1 v) a (5), b (3) & c (2), Table-1A, Table-1B of IS:7098 (Part 1) –
229.		Heat Shock Test of Sheath	Cl. 16.1 v) a (6) of IS:7098 (Part 1) – 2025 & IS:5831-1984 RA:2021
230.		Thermal Stability Test of Sheath	Cl. 16.1 v) a (7) of IS:7098 (Part 1) – 2025 & IS:5831-1984 RA:2021
231.		Carbon Black Content of PE Sheath	Cl. 16.1 v) b (1), Table 1A of IS:7098 (Part 1) – 2025

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
232.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and incl. 1100V	Water absorption Test (for Type ST 8) Sheath	Cl. 16.1 v) c (3), Table 1B of IS:7098 (Part 1) – 2025
233.		Cold Bend Test for Outer Sheath	Cl. 16.4 i), Table 1B of IS:7098 (Part 1) – 2025 & IS:5831-1984 RA:2021
234.		Cold Impact for Outer Sheath	Cl. 16.4 ii), Table 1B of IS:7098 (Part 1) – 2025 & IS:5831-1984 RA:2021
235.		Cold elongation Test for LSHF Outer Sheath	Cl. 16.4 iii), Table 1B of IS:7098 (Part 1) – 2025
236.		High Voltage Test	Cl. 16.1 vii), Cl. 17.2 of IS:7098 (Part 1) – 2025
237.		Flammability Test	Cl. 16.1 viii), Cl. 17.3 of IS:7098 (Part 1) – 2025
238.		Oxygen Index Test	Cl. 16.1 ix) a (1), ix) b (1), ix) c (1), Cl. 17.4 of IS:7098 (Part 1) – 2025
239.		Temperature Index Test	Cl. 16.1 ix) a (2), ix) b (2), ix) c (2), Cl. 17.9 of IS:7098 (Part 1) – 2025
240.		Flame Retardance Test on Single Cable	Cl. 16.1 ix) a (3), ix) b (3), ix) c (3), Cl. 17.5 of IS:7098 (Part 1) – 2025
241.		Flame Retardance Test on Bunched Cable	Cl. 16.1 ix) a (4), ix) b (4), ix) c (4), Cl. 17.6 of IS:7098 (Part 1) – 2025
242.		Smoke Density Test	Cl. 16.1 ix) b (5), ix) c (5), Cl. 17.8 of IS:7098 (Part 1) – 2025
243.		Test for Halogen Acid Evolution	Cl. 16.1 ix) b (6), ix) c (6), Table-1B, Cl. 17.7 of IS:7098 (Part 1) – 2025

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
244.		Test for Light Transmission	Cl. 16.1 ix) c (7), Cl. 17.11 of IS:7098 (Part 1) – 2025
245.		Test for pH	Cl. 16.1 ix) c (8), Cl. 17.10, Table-1B of IS:7098 (Part 1) – 2025
246.		Test for Conductivity	Cl. 16.1 ix) c (8), Cl. 17.10, Table-1B of IS:7098 (Part 1) – 2025
247.		Mass of Zinc Coating	IS 3975 :1999 RA: 2021
248.		Resistivity Test	IS 3975 :1999 RA: 2021
249.		Torsion Test for Round Wire	IS 3975 :1999 RA: 2021
250.	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes	Uniformity of Zinc Coating	IS 3975 :1999 RA: 2021
251.		Adhesion Test	IS 3975:1999 RA: 2021
252.		Dimensions of Armouring Material	IS 3975:1999 RA: 2021
253.		Freedom from Defects	IS 3975:1999 RA: 2021
254.		Wrapping Test	IS 3975:1999 RA: 2021
255.		Winding Test for Formed Wire	IS 3975:1999 RA: 2021

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Cables and Wires</b>		
256.	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes	Tensile Strength for armouring material	IS 3975:1999 RA: 2021
257.		Elongation at break for armouring material	IS 3975:1999 RA: 2021
258.	Methods of test for polyethylene moulding materials and polyethylene compounds	Melt Flow Index	Cl. 7 of IS:2530 - 1963 RA: 2018
259.		Vicat Softening Point	Cl. 9 of IS:2530 - 1963 RA: 2018
260.		Determination of Carbon Black Content	Cl. 10 of IS:2530 - 1963 RA: 2018
261.		Determination of Carbon Black Dispersion	Cl. 16 of IS:2530 - 1963 RA: 2018



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wiring Accessories		
1.	Conduits for electrical installations	Verification of Classification, Marking, Construction	Cl. 5, Cl. 6, Cl. 8 of IS:9537 (Part 1)-1980 RA: 2020
2.		Checking of Dimensions	Cl. 7 of IS:9537 (Part 1)-1980 RA: 2020
3.		Bending	Cl. 9.2 of IS:9537 (Part 1)-1980 RA: 2020
4.		Compression Test	Cl. 9.3 of IS:9537 (Part 1)-1980 RA: 2020
5.		Impact Test	Cl. 9.4 of IS:9537 (Part 1)-1980 RA: 2020
6.		Collapse Test (Restricted for 20 mm & 25 mm)	Cl. 9.5 of IS:9537 (Part 1)-1980 RA: 2020
7.		Resistance to Heat	Cl. 10 of IS:9537 (Part 1)-1980 RA: 2020
8.		Resistance to Burning	Cl. 11 of IS:9537 (Part 1)-1980 RA: 2020
9.		Electrical Characteristics (Electrical Strength)	Cl. 12.1.1 of IS:9537 (Part 1)-1980 RA: 2020
10.		Insulation Resistance in Conduit	Cl. 12.1.2 of IS:9537 (Part 1)-1980 RA: 2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
11.	Rigid plain conduits of insulating materials	Bending	Cl. 9.2 of IS:9537 (Part 3)-1983 RA: 2017
12.		Checking of Dimensions	Cl. 7 of IS:9537 (Part 3)-1983 RA: 2017
13.		Collapse Test (Restricted for 20 mm & 25 mm)	Cl. 9.5 of IS:9537 (Part 3)-1983 RA: 2017
14.		Compression Test	Cl. 9.3 of IS:9537 (Part 3)-1983 RA: 2017
15.		Electrical Characteristics (Electrical Strength)	Cl. 12 of IS:9537 (Part 3)-1983 RA: 2017
16.		Impact Test	Cl. 9.4 of IS:9537 (Part 3)-1983 RA: 2017
17.		Insulation Resistance in Conduit	Cl. 12 of IS:9537 (Part 3)-1983 RA: 2017
18.		Resistance to Burning	Cl. 11 of IS:9537 (Part 3)-1983 RA: 2017
19.		Resistance to Heat	Cl. 10 of IS:9537 (Part 3)-1983 RA: 2017
20.		Verification of Classification, Marking, Construction	Cl. 5, Cl. 6 of IS:9537 (Part 3)-1983 RA: 2017
21.	Plug and Socket Outlet with Rated Voltage Upto and Including 250 Volts and with Rated Current up to and Including 16 Amperes	Additional Tests on pins provided with insulating sleeves	Cl. 30 of IS 1293:2019

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
22.	Plug and Socket Outlet with Rated Voltage Upto and Including 250 Volts and with Rated Current up to and Including 16 Amperes	Checking of Dimensions	Cl. 9 of IS 1293: 2019
23.		Classification	Cl. 7 of IS 1293: 2019
24.		construction of plugs and portable socket outlets	Cl. 14 of IS 1293:2019
25.		Constructional requirements of fixed socket outlets	Cl. 13 of IS 1293:2019
26.		Creepage distances, clearances and distance through sealing compound	Cl. 27 of IS 1293:2019
27.		Electric Strength	Cl. 17 of IS 1293:2019
28.		Flexible cables and their connection	Cl. 23 of IS 1293:2019
29.		Force Necessary to withdraw the plug	Cl. 22 of IS 1293:2019
30.		Insulation Resistance	Cl. 17 of IS 1293:2019
31.		Interlocked socket outlet	Cl. 15 of IS 1293:2019
32.		Making and breaking capacity	Cl. 20 of IS 1293:2019
33.		Marking	Cl. 8 of IS 1293:2019
34.		Mechanical Strength	Cl. 24 of IS 1293:2019

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
35.	Plug and Socket Outlet with Rated Voltage Upto and Including 250 Volts and with Rated Current up to and Including 16 Amperes	Normal Operation	Cl. 21 of IS 1293:2019
36.		Operation of Earthing Contacts	Cl. 18 of IS 1293:2019
37.		Protection against electric shock	Cl. 10 of IS 1293:2019
38.		Provision for Earthing	Cl. 11 of IS 1293:2019
39.		Rating	Cl. 6 of IS 1293:2019
40.		Resistance of insulation material to abnormal heat, to fire and to tracking - Glow wire Temperature	Cl. 28 of IS 1293:2019
41.		Resistance to ageing	Cl. 16.1 of IS 1293:2019
42.		Resistance to Harmful ingress water	Cl. 16 of IS 1293:2019
43.		Resistance to Heat - Ball pressure	Cl. 25 of IS 1293:2019
44.		Resistance to Humidity	Cl. 16.3 of IS 1293:2019
45.		Resistance to rusting	Cl. 29 of IS 1293:2019
46.		Screw, current carrying parts and connections	Cl. 26 of IS 1293:2019
47.		Temperature Rise	Cl. 19 of IS 1293:2019

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
48.		Terminals	Cl. 12 of IS 1293:2019
49.	Switches for Domestic and Similar Purpose	Checking of Dimensions	Cl. 9 of IS 3854:1997 RA: 2017
50.		Constructional requirements	Cl. 13 of IS 3854:1997 RA: 2017
51.		Insulation resistance and electric strength	Cl. 16 of IS 3854:1997 RA: 2017
52.		Making and breaking capacity	Cl. 18 of IS 3854:1997 RA: 2017
53.		Mechanical strength	Cl. 20 of IS 3854:1997 RA: 2017
54.		Mechanism	Cl. 14 of IS 3854:1997 RA: 2017
55.		Normal operation	Cl. 19 of IS 3854:1997 RA: 2017
56.		Protection against Electric Shock	Cl. 10 of IS 3854:1997 RA: 2017
57.	Provision for Earthing	Cl. 11 of IS 3854:1997 RA: 2017	
58.	Resistance to ageing, to harmful ingress of water and to humidity	Cl. 15 of IS 3854:1997 RA: 2017	
59.	Switches for Domestic and Similar Purpose	Temperature rise	Cl. 17 of IS 3854:1997 RA: 2017
60.		Terminals	Cl. 12 of IS 3854:1997 RA: 2017
61.		Marking	Cl. 8 of IS 3854:1997 RA: 2017
62.		Classification	Cl. 7 of IS 3854:1997 RA: 2017

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wiring Accessories		
63.	Switches for Domestic and Similar Purpose	Creepage distances, clearances and distance through sealing compound	Cl. 23 of IS 3854:1997 RA: 2017
64.		Rating	Cl. 6 of IS 3854:1997 RA: 2017
65.		Resistance to abnormal heat, to fire and to tracking - Glow wire	Cl. 24 of IS 3854:1997 RA: 2017
66.		Resistance to Heat - Ball pressure Force	Cl. 21 of IS 3854:1997 RA: 2017
67.		Resistance to rusting	Cl. 25 of IS 3854:1997 RA: 2017
68.		Screws, current carrying parts and connections	Cl. 22 of IS 3854:1997 RA: 2017
69.	Fittings for Rigid Non-Metallic Conduits	Construction	Cl. 5 of IS:3419-1988 RA:2017
70.		Dimensions	Cl. 6, Table 1 to 9 of IS:3419-1988 RA:2017
71.		Marking	Cl. 7 of IS:3419-1988 RA:2017
72.		Visual Examination	Cl. 8 of IS:3419-1988 RA:2017
73.		Checking of Dimensions	Cl. 9 of IS:3419-1988 RA:2017
74.		Test for Resistance to Heat	Cl. 10 of IS:3419-1988 RA:2017
75.		Resistance to Burning	Cl. 11 of IS:3419-1988 RA:2017
76.		Moisture Absorption Test	Cl. 12 of IS:3419-1988 RA:2017

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
77.	Fittings for Rigid Non-Metallic Conduits	Test for Resistance to chemical action	Cl. 13 of IS:3419-1988
78.		Copper Test	Cl. 14 of IS:3419-1988
79.		Test for Resistance to Oil	Cl. 15 of IS:3419-1988
80.		Resistance to Impact	Cl. 16 of IS:3419-1988
81.		Test for Electrical Characteristics	Cl. 17 of IS:3419-1988
82.	Switches for domestic and similar purpose	Rating	Cl. 6 of IS 3854:2023
83.		Classification	Cl. 7 of IS 3854:2023
84.		Marking	Cl. 8 of IS 3854:2023
85.		Checking of Dimensions	Cl. 9 of IS 3854:2023
86.		Protection against Electric Shock	Cl. 10 of IS 3854:2023
87.		Provision for Earthing	Cl. 11 of IS 3854:2023
88.		Terminals	Cl. 12 of IS 3854:2023
89.		Constructional Requirements	Cl. 13 of IS 3854:2023
90.		Mechanism	Cl. 14 of IS 3854:2023
91.		Resistance to Ageing	Cl. 15.1 of IS 3854:2023
92.		Resistance to Humidity	Cl. 15.3 of IS 3854:2023

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
93.	Switches for domestic and similar purpose	Test for Measuring the Insulation Resistance	Cl. 16.2 of IS 3854:2023
94.		Electric Strength Test	Cl. 16.3 of IS 3854:2023
95.		Temperature Rise	Cl. 17 of IS 3854:2023
96.		Making and Breaking Capacity	Cl. 18 of IS 3854:2023
97.		Normal Operation	Cl. 19, Cl. 19.1 of IS 3854:2023
98.		Test for Switches intended for self-ballasted lamp loads	Cl. 19.3 of IS 3854:2023
99.		Mechanical Strength	Cl. 20 of IS 3854:2023
100.		Resistance to Heat	Cl. 21 of IS 3854:2023
101.		Screws, Current Carrying Parts and Connections	Cl. 22 of IS 3854:2023
102.		Creepage distances, clearances and distance through sealing compound	Cl. 23 of IS 3854:2023
103.		Normal operation for fluorescent lamp circuits	Cl. 19.2 of IS 3854:2023
104.		Resistance to abnormal heat and fire	Cl. 24, Cl. 24.1 of IS 3854:2023
105.		Resistance to tracking	Cl. 24.2 of IS 3854:2023
106.		Resistance to rusting	Cl. 25 of IS 3854:2023

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	<b>Wiring Accessories</b>		
107.	Cable Trunking Systems and Cable Ducting Systems for Electrical Installations – Intended for Mounting on Walls or Ceilings	Classification	Cl. 6 of IS 14927 (Part 1):2023, IEC 61084-1:2017 and Cl. 6 of IS 14927 (Part 2/Sec 1):2023, IEC 61084-2-1:2017
108.		Marking and Documentation	Cl. 7 of IS 14927 (Part 1):2023, IEC 61084-1:2017 and Cl. 7 of IS 14927 (Part 2/Sec 1):2023, IEC 61084-2-1:2017
109.		Dimensions	Cl. 8 of IS 14927 (Part 1):2023, IEC 61084-1:2017 and Cl. 8 of IS 14927 (Part 2/Sec 1):2023, IEC 61084-2-1:2017
110.		Construction	Cl. 9 of IS 14927 (Part 1):2023, IEC 61084-1:2017 and Cl. 9 of IS 14927 (Part 2/Sec 1):2023, IEC 61084-2-1:2017
111.		Mechanical Strength	Cl. 10.1 of IS 14927 (Part 1):2023, IEC 61084-1:2017 and Cl. 10.1 of IS 14927 (Part 2/Sec 1):2023, IEC 61084-2-1:2017
112.		Cable Support Test	Cl. 10.2 of IS 14927 (Part 1): 2023, IEC 61084-1:2017 and Cl. 10.2 of IS 14927 (Part 2/Sec 1):2023, IEC 61084-2-1:2017

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	<b>Wiring Accessories</b>			
113.	Cable Trunking Systems and Cable Ducting Systems for Electrical Installations – Intended for Mounting on Walls or Ceilings	Impact Test	Cl. 10.3 of IS 14927 (Part 1): 2023, IEC 61084-1:2017 and Cl. 10.3 of IS 14927 (Part 2/Sec 1): 2023, IEC 61084-2-1:2017	
114.		Linear Deflection Test	Cl. 10.4 of IS 14927 (Part 1): 2023, IEC 61084-1:2017 and Cl. 10.4 of IS 14927 (Part 2/Sec 1): 2023, IEC 61084-2-1:2017	
115.		External Load Test	Cl. 10.5 of IS 14927 (Part 1):2023, IEC 61084-1:2017	
116.		System Access Cover Retention	Cl. 10.6 of IS 14927 (Part 1): 2023, IEC 61084-1:2017 and Cl. 10.6 of IS 14927 (Part 2/Sec 1):2023, IEC 61084-2-1:2017	
117.		Compression Test for CDS	Cl. 10.101 of IS 14927 (Part 2/ Sec 1):2023, IEC 61084-2-1: 2017	
118.		Electrical Continuity (Electrical Impedance Test)	Cl. 11.1, Cl. 11.1.3 of IS 14927 (Part 1):2023, IEC 61084-1: 2017 and Cl. 11 of IS 14927 (Part 2/Sec 1):2023, IEC 61084-2-1:2017	
119.		Electrical Insulation (Insulation Resistance Test)	Cl. 11.2, Cl. 11.2.3 of IS 14927 (Part 1):2023, IEC 61084-1: 2017 and Cl. 11 of IS 14927 (Part 2/Sec 1):2023, IEC 61084-2-1:2017	
120.		Cable Trunking Systems and Cable Ducting Systems for	Electrical Insulation (Dielectric Strength Test)	Cl. 11.2, Cl. 11.2.4 of IS 14927 (Part 1):2023, IEC 61084-1: 2017 and Cl.

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## Centre for International Accreditation

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### Scope of Accreditation

**TVS LABS**

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
	Electrical Installations – Intended for Mounting on Walls or Ceilings		11 of IS 14927 (Part 2/Sec 1):2023, IEC 61084-2-1:2017
121.		Resistance to Heat	Cl. 12.1 of IS 14927 (Part 1):2023, IEC 61084-1: 2017 and Cl. 12 of IS 14927 (Part 2/Sec 1):2023, IEC 61084-2-1: 2017
122.		Reaction to Fire	Cl. 13.1 of IS 14927 (Part 1):2023, IEC 61084-1: 2017 and Cl. 13 of IS 14927 (Part 2/Sec 1):2023, IEC 61084-2-1:2017
123.		External influences (Protection against access to hazardous parts)	Cl. 14.1.4 of IS 14927 (Part 1):2023, IEC 61084-1: 2017 and Cl. 14 of IS 14927 (Part 2/Sec 1):2023, IEC 61084-2-1:2017
124.	Boxes and Enclosures for Electrical Accessories for Household and Similar Fixed Electrical Installations — General Requirements	Ratings	Cl. 6 of IS 14772: 2020
125.		Classification	Cl. 7 of IS 14772: 2020
126.		Marking	Cl. 8 of IS 14772: 2020
127.		Dimensions	Cl. 9 of IS 14772: 2020
128.		Protection against Electric Shock	Cl. 10 of IS 14772:2020
129.		Provision for Earthing	Cl. 11 of IS 14772: 2020
130.		Construction	Cl. 12 of IS 14772: 2020

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
131.	Boxes and Enclosures for Electrical Accessories for Household and Similar Fixed Electrical Installations — General Requirements	Resistance to ageing	Cl. 13, Cl. 13.1 of IS 14772: 2020
132.		Insulation resistance and electric strength	Cl. 14 of IS 14772: 2020
133.		Mechanical Strength	Cl. 15 of IS 14772: 2020
134.		Resistance to Heat	Cl. 16 of IS 14772: 2020
135.		Creepage distance, clearance and distance through seating compound	Cl. 17 of IS 14772: 2020
136.		Resistance to insulating material to abnormal heat and fire	Cl. 18 of IS 14772: 2020
137.		Resistance to Tracking	Cl. 19 of IS 14772: 2020
138.		Resistance to Corrosion	Cl. 20 of IS 14772: 2020
139.	Bayonet Lampholders	Standard Ratings	Cl. 6 of IS 1258:2024 / IEC 61184:2017
140.		Classification	Cl. 7 of IS 1258:2024 / IEC 61184:2017
141.		Marking	Cl. 8 of IS 1258:2024 / IEC 61184:2017
142.		Dimensions	Cl. 9 of IS 1258:2024 / IEC 61184:2017

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wiring Accessories		
143.	Bayonet Lampholders	Protection against Electric Shock	Cl. 10 of IS 1258:2024 / IEC 61184:2017
144.		Terminals	Cl. 11 of IS 1258:2024 / IEC 61184:2017
145.		Provision of Earthing	Cl. 12 of IS 1258:2024 / IEC 61184:2017
146.		Construction	Cl. 13 of IS 1258:2024 / IEC 61184:2017
147.		Switched Lampholders	Cl. 14 of IS 1258:2024 / IEC 61184:2017
148.		Moisture Resistance, Insulation Resistance and Electrical Strength	Cl. 15 of IS 1258:2024 / IEC 61184:2017
149.		Mechanical Strength	Cl. 16 of IS 1258:2024 / IEC 61184:2017
150.		Screws, current-carrying parts and connections	Cl. 17 of IS 1258:2024 / IEC 61184:2017
151.		Creepage distances and clearances	Cl. 18 of IS 1258:2024 / IEC 61184:2017
152.		General resistance to heat	Cl. 19 of IS 1258:2024 / IEC 61184:2017
153.		Resistance to heat, fire and tracking	Cl. 20 of IS 1258:2024 / IEC 61184:2017



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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Wiring Accessories		
154.	Bayonet Lampholders	Resistance to excessive residual stresses (season cracking) and to rusting	Cl. 21, Annex. A of IS 1258:2024 / IEC 61184:2017
155.	Switched Socket-Outlets without Interlock for Fixed Installations – Particular Requirements	Ratings	Cl. 6 of IS 15787: 2025
156.		Classification	Cl. 7 of IS 15787: 2025
157.		Marking	Cl. 8 of IS 15787: 2025
158.		Checking of Dimensions	Cl. 9 of IS 15787: 2025
159.		Protection against Electric Shock	Cl. 10 of IS 15787: 2025
160.		Provision for Earthing	Cl. 11 of IS 15787: 2025
161.		Terminals and Terminations	Cl. 12 of IS 15787: 2025
162.		Construction of Fixed Socket-Outlets	Cl. 13 of IS 15787: 2025
163.		Construction of Plugs and Portable Socket Outlets	Cl. 14 of IS 15787: 2025
164.		Interlocked Socket Outlets	Cl. 15 of IS 15787: 2025

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
165.	Switched Socket-Outlets without Interlock for Fixed Installations – Particular Requirements	Resistance to Ageing	Cl. 16 of IS 15787: 2025
166.		Resistance to Humidity	Cl. 16 of IS 15787: 2025
167.		Insulation Resistance and Electric Strength	Cl. 17 of IS 15787: 2025
168.		Operation of Earthing Contact	Cl. 18 of IS 15787: 2025
169.		Temperature Rise	Cl. 19 of IS 15787: 2025
170.		Breaking Capacity	Cl. 20 of IS 15787: 2025
171.		Normal Operation	Cl. 21 of IS 15787: 2025
172.		Force necessary to Withdraw the Plug	Cl. 22 of IS 15787: 2025
173.		Flexible cables and their connection	Cl. 23 of IS 15787: 2025
174.		Mechanical Strength	Cl. 24 of IS 15787: 2025
175.		Resistance to Heat	Cl. 25 of IS 15787: 2025
176.		Screws, Current Carrying Parts and Connections	Cl. 26 of IS 15787: 2025

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Electrical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Wiring Accessories</b>		
177.	Switched Socket-Outlets without Interlock for Fixed Installations – Particular Requirements	Creepage distances, clearances and distance through sealing compound	Cl. 27 of IS 15787: 2025
178.		Resistance of Insulating Material to Abnormal, Heat, to Fire and to Tracking	Cl. 28 of IS 15787: 2025
179.		Resistance to Rusting	Cl. 29 of IS 15787: 2025

