

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5073 (in lieu of T-3227)

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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ELECTRICAL TESTING

I.	Cables			
1.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Annealing test for copper wire	IS:10810 (Part-1)-1984 IS 694:2010 Cl. 10.3.a.1	Up to 50%
	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V		IS:1554 (Part 1)-1988 Cl. 15.1.a.1	
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.a.1	
	Cables for Motor Vehicle		IS 2465:1984 Cl. 12.1.a	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.a.1	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.i).a	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT Manesar, Gurgaon, Haryana

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	Elastomer Insulated Cables for working voltages upto and including 1100V		IS:9968 (Part-1)-1988 Cl. 21.1.2	
	From 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.a.1)	
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.a.i	
	Winding Wires for Submersible Motors		IS 8783 (Part 1 to 4) Cl. 4.1.3) of IS 8783 (Part-3)	
	Welding Cables		IS 9857:1990 Cl. 10.1.a).1)	
	Flexible Cables for Lifts and Other Flexible Connections		IS:4289 (Part 1)-1984 Cl. 17.1.b) IS:4289 (Part 2)-2000 Cl. 18.1.a).i)	
	Conductors in insulated cables & cords		BS 6360:1991 Table 7	
2.	Multi Element Metallic Cables Used in Analogue And Digital Communication and Control	Conductor Elongation at Break	EN:50289-3-2:2001 BS EN 50288-7:2005 Cl. 5.2.1	Up to 50 %
	Conductors in insulated cables & cords		BS 6360 : 1991 Table 7	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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3.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Tensile strength for Aluminum Wires	IS:10810 (Pt. 2)-1984 IS 694:2010 Cl. 10.3.a.2	Up to 1000 N/mm ²
	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V		IS:1554 (Part 1)-1988 Cl. 15.1.a.2	
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.a.2	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.a.2	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.i).b)	
	Aerial Bunched Cables for working voltages upto and including 1100 V		IS 14255:1995 Cl. 10.1.a.1	
	Conductors for Insulated Conductors		BSEN:60228:2005 Cl.4.2,4.3 IEC:60228:2004-11 Cl. 4.2,4.3	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Elastomer Insulated Cables for working voltages upto and including 1100 V		IS:9968 (Part-1):1988 Cl. 21.1.3	
	From 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.a.2)	
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 Cl. 20.1.2	
4.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Wrapping test for Aluminum wires	IS:10810 (Pt. 3)-1984 IS 694:2010 Cl. 10.3.a.3	Qualitative test
	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V		IS:1554 (Part 1)-1988 Cl. 15.1.a.3,	
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.a.3	
	Cross Linked Polyethylene Insulated		IS:7098 (Part 1)-1988 Cl. 15.1.a.3	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Thermoplastic Sheathed cables for working voltages upto and including 1100V			
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.i).c)	
	Aerial Bunched Cables for working voltages upto and including 1100V		IS 14255:1995 Cl. 10.1.a.2	
	Elastomer Insulated Cables for working voltages upto and including 1100V		IS:9968 (Part-1):1988 Cl. 21.1.4	
	From 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.a.3)	
5.	Polyvinyl Chloride Insulated	Conductor Resistance	IS:10810 (Pt. 5)-1984	0-100 ohm/km
	unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V		IS 694:2010 Cl. 10.3.a.4	
	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V		IS:1554 (Part 1)-1988 Cl. 15.1.a.4,	
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.a.4,	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.a.4,	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.i).d)	
	Cables for Motor Vehicle		IS 2465:1984 Cl. 12.1.c	
	Aerial Bunched Cables for working voltages upto and including 1100V		IS 14255:1995 Cl. 10.1.a.3	
	Thermocouple Compensating cables		IS 8784:1987 (Cl.14.3)	
	Conductors for Insulated Conductors		BSEN:60228:2005 IEC:60228:2004-11	
	Test Method for DC Resistance		BS EN:50289-1-2:2001	
	Conductors in insulated cables & cords		BS 6360:1991	
	Polyvinyl Chloride Insulated cables		IEC 60227 (Part-1 to 6):2007 (Cl. 2.1)	
	Power Cables with extruded insulation and their accessories		IEC 60502-1 Edition 2.1 2009-11 Cl. 15.2	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	for rated voltages from 1kV to 3 kV			
	Cables for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl. 16.2	
	Thermosetting insulated, armored Fire Resistant cables having low emission of smoke and corrosive gases when affected by fire		BS 7846:2009 Cl. 16.2,	
	Thermosetting insulated, armoured cables having low emission of smoke and corrosive gases when affected by fire		BS 6724:1997 Cl. 16.2	
	Thermosetting insulated and Thermoplastic Sheathed cables for electric power, lighting and having low emission of		BS 7211:2012 Cl. 15.2,	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	smoke and corrosive gases when effected by fire			
	Single core PVC insulated flexible cable for switchgear and control gear wiring		BS 6231:2006 Cl. 10.2,	
	Thermosetting insulated, armored cables for voltages of 600/1000 V and 1900/3300 V		BS 5467:1997 Cl. 16.2,	
	PVC Insulated and PVC Sheathed cables for electric power and lighting		BS 6004:2012 Cl. 14.2,	
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-2:2011 Cl. 3.1, BS 7870-5:2011 Table-1 BS 7870-8.1:2003 Table-2 BS 7870-8.3:2003 Table-7 BS 7870-8.6:2003 Cl. 16.2	
	Control and Instrumentation Cables for Polyethylene Insulated Cables		PAS 5308-1:2009 Cl. 4, Table-1,	
	Control and Instrumentation		PAS 5308-2:2009 Cl. 4, Table-1,	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Cables for PVC Insulated cables			
	Single core unsheathed heat resisting cables		BS 6007:2006 Cl. 7.2,	
	Multi Element Metallic Cables Used in Analogue And Digital Communication and Control		BS EN 50288-7:2005 Cl. 5.1.1.1	
	Elastomer Insulated Cables for working voltages upto and including 1100V		IS:9968 (Part-1):1988 Cl. 21.1.5	
	From 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.a.4)	
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.a.ii	
	Winding Wires for Submersible Motors		IS 8783 (Part 1 to 4) Cl. 4.1.2) of IS8783 (Part-3)	
	Welding Cables		IS 9857:1990 Cl. 10.1.a).2)	
	Flexible Cables for Lifts and Other Flexible Connections		IS:4289 (Part 1)-1984 Cl. 17.1.c) IS:4289 (Part 2)-2000 Cl. 18.1.a).ii)	
	Electrical Test Methods for low voltage energy cables		BS EN 50395:2005 Cl. 5	
	300/500 V fire		BS 7629-1:2008 Cl. 13.2	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	resistant screened cables having low emission of smoke and corrosive gases when affected by fire - Part 1: Multicore and multipair cables			
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835:2007 Cl 16 Table 4	
	Low Voltage Energy Cables – Single Core non-sheathed cables with halogen-free cross-linked insulation and low emission of smoke		BS EN 50525- 3-41 Annex. A Table A.1,	
	Armoured Cables with Thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV		BS 6622: 2007 Cl . 17.3	
	Thermosetting		BS 7889: 2012, Cl. 14.2	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	insulated, non – armored cables for fixed installations			
	PVC insulated, armored cables for voltages of 600 / 1000 V and 1900 / 3300 V		BS 6346: 1997, Cl. 14 Table 2	
	Low voltage energy cables – Flexible cables with cross linked elastomeric insulation		BS EN 50525-2-21: 2011, Annex A, Table A-1	
	Rubber or silicon rubber insulated flexible cables & cords for coils & leads		BS 6195: 2006, Cl. 5, 10.2	
	Flexible cords for use with appliances and equipment intended for domestic, office & similar environments		BS 6500: 2000, Cl. 7.8.2	
	Flat Polyvinyl chloride sheathed flexible cables		BS EN 50214: 2006, Cl. 6.4, Table 6	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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6.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Test for eccentricity and Thickness of insulation and sheath / Overall Dimensions	IS:10810 (Pt.6)-1984, IS 694:2010 Cl. 10.3.b	Up to 25 mm Up to 150 mm
	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V		IS:1554 (Part 1)-1988 Cl. 15.1.c,	
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.c	
	Cables for Motor Vehicle		IS 2465:1984 Cl. 12.1.d	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.c	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.iv	
	Aerial Bunched Cables for working voltages upto and including 1100V		IS 14255:1995 Cl. 10.1.e	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Thermocouple Compensating cables		IS 8784:1987 Cl.14.4	
	Test Method for Measurement of Insulation Thickness		IEC/BS EN:60811 (Part 201): 2012	
	Test Method for Measurement of Thickness of non-metallic Sheath		IEC/BS EN 60811 (Part-202) : 2012	
	Test Method for Measurement of Overall Dimensions		IEC/BS EN 60811 (Part-203) :2012	
	Polyvinyl Chloride Insulated cables		IEC 60227 (Part-1 to 6):2007 (Cl 1.9)	
	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11, Cl. 18.1,	
	Cables for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl. 17.5	
	Thermosetting insulated, armoured cables having low emission of smoke and corrosive gases when affected by fire		BS 7846:2009 Cl. 6.2, 11.2	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Thermosetting insulated, armoured cables having low emission of smoke and corrosive gases when effected by fire		BS 6724:1997 Cl. 6.2, 11.2	
	Thermosetting insulated and Thermoplastic Sheathed cables for electric power, lighting and having low emission of smoke and corrosive gases when effected by fire		BS 7211:2012 Cl. 7.3	
	Non Electrical Test Methods for low voltage energy cables		BS EN 50396:2005 Cl. 4	
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-2:2011 Cl. 2.1, BS 7870-5:2011 Table-1 BS 7870-8.1:2003 Table-1 BS 7870-8.3:2003 Cl. 12 BS 7870-8.6:2003 Cl. 14	
	Single core unsheathed heat resisting cables		BS 6007:2006 Cl. 6.2.3	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Single core PVC insulated flexible cable for switchgear and Control gear wiring		BS 6231:2006 Cl. 6.3	
	Thermosetting insulated, armoured cables for voltages of 600/1000V and 1900/3300V		BS 5467:1997 Cl. 6.2, Cl. 9.2, Cl. 11.2	
	Control and Instrumentation Cables for Polyethylene Insulated Cables		PAS 5308-1:2009 Cl. 5, Table 1, 2, Cl. 10.1, 10.2, Table D.1 to D.10	
	Control and Instrumentation Cables for PVC Insulated cables		PAS 5308-2:2009 Cl. 5, Table-1, Cl. 10.1, 10.2, Table D.1 to D.12	
	Multi Element Metallic Cables Used in Analogue And Digital Communication and Control		BS EN 50288-7:2005 Cl. 4.2, 4.12, 4.16, Annex A.1, Annex C.5	
	Elastomer Insulated Cables for working voltages upto and including 1100V		IS:9968 (Part-1):1988 Cl. 21.1.6	
	From 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.c.1	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.c	
	Winding Wires for Submersible Motors		IS 8783 (Part 1 to 4) Cl. 4.2.1) of IS 8783 (Part-3)	
	Welding Cables		IS 9857:1990 Cl. 10.1.b	
	Flexible Cables for Lifts and Other Flexible Connections		IS:4289 (Part 1)-1984 Cl. 17.1.d IS:4289 (Part 2)-2000 Cl. 18.1.b	
	Flat Polyvinyl Chloride Sheathed Flexible Cables		BS EN 50214:2006 Cl. 5.3.5, Cl. 6.3.5 & Table – 3 & 5	
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 Cl. 10, 13 19.7, 19.15	
	Low Voltage Energy Cables – Single Core non-sheathed cables with halogen-free cross-linked insulation and low emission of smoke		BS EN 50525 -3-41 : 2011 Annex A, Annex B	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Armoured Cables with Thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV		BS 6622 : 2007 Cl 7, 9.2, 12	
	Thermosetting Insulated, non-armoured cables for fixed installations		BS 7889 : 2012, Cl. 6.3, 9, 10.3, Table 2-6	
	PVC Insulated, Armoured Cables for voltages of 600/1000V and 1900/3300V		BS 6346 : 1997 Cl. 6.2, 9.2, 11.2, Table 5 – 19	
	Low Voltage Energy Cables – Multicore Cables with cross-linked Silicon Rubber insulation		BS EN 50525-2-83 : 2011 Cl 4 Annex A, Annex B	
	Low Voltage Energy Cables – Flexible Cables with cross-linked elastomeric insulation		BS EN 50525 - 2 -21 : 2011 Cl. 4, 5, 6 Annex A, B	
	Rubber or Silicon Rubber insulated flexible cables & cords for coils & leads		BS 6195 : 2006 Cl. 6, 10, Table 2	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Flexible Cords for use with appliances and equipment intended for domestic, office & similar environments		BS 6500 : 2000 Cl. 6, 7 Table 11-21	
7.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Tensile strength and elongation at break on Insulation and Sheath	IS:10810 (Pt.7)-1984 IS 694:2010 Cl. 10.3.c.1	Up to 200 N/mm ² , 0-800%
	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V		IS:1554 (Part 1)-1988 Cl. 15.1.d.1	
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.d.1	
	Cables for Motor Vehicle		IS 2465:1984 Cl. 12.1.e.1	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.d.1	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.iii).a), Cl. 19.1.VI).a)	
	Aerial Bunched Cables for working voltages upto and including 1100V		IS 14255:1995 Cl. 10.1.c.1	
	Polyvinyl Chloride Insulated cables		IEC 60227 (Part-1 to 6):2007 Cl. 3	
	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11, Cl. 18.3	
	Cables for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl. 19.5,	
	Test Method for determining the mechanical properties of insulating and sheathing compounds		IEC/BS EN:60811 (Part 501)-2012	
	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by fire		BS 7846: 2009 Cl. 6.1.111.1.1,	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Thermosetting insulated, armoured cables having low emission of smoke and corrosive gases when affected by fire		BS 6724:1997 Cl. 6.1.1, 11.1.1	
	Thermosetting insulated and Thermoplastic Sheathed cables for electric power, lighting and having low emission of smoke and corrosive gases when effected by fire		BS 7211:2012 Cl. 7.1	
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-2:2011 BS 7870-5:2011 Cl. 12.2 BS 7870-8.1:2003 Table-5 BS 7870-8.3:2003 Cl. 16.3 BS 7870-8.6:2003 Cl 18.8, 18.10	
	Thermosetting insulated, armoured cables for voltages of 600/1000V and 1900/3300V		BS 5467:1997 Cl. 6.1, 9.1, 11.1	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Single core PVC insulated flexible cable for switchgear and control gear wiring		BS 6231:2006 Cl. 6.1	
	Control and Instrumentation Cables for Polyethylene Insulated Cables		PAS 5308-1:2009 Cl. 5, Cl. 7.1, 7.2.1, 7.2.3	
	Control and Instrumentation Cables for PVC Insulated cables		PAS 5308-2:2009 Cl. 5, Cl. 7.1, 7.2.1, 7.2.3,	
	Multi Element Metallic Cables Used in Analogue And Digital Communication and Control		BS EN 50288-7:2005 Cl. 4.2, 4.12, 4.16	
	Elastomer Insulated Cables for working voltages upto and including 1100V		IS:9968 (Part-1):1988 Cl. 21.7.a	
	From 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.c.2	
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.d.i	
	Winding Wires for Submersible Motors		IS 8783 (Part 1 to 4) Cl. 4.2.2) of IS 8783 (Part-3)	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Welding Cables		IS 9857:1990 Cl. 10.1.c).1	
	Flexible Cables for Lifts and Other Flexible Connections		IS:4289 (Part 1)-1984 Cl 17.1.e).1) and Cl 17.1.f).1) IS:4289 (Part 2)-2000 Cl. 18.1.c).i	
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 Cl. 8, 13	
	Low Voltage Energy Cables – Single Core non-sheathed cables with halogen-free cross-linked insulation and low emission of smoke		BS EN 50525 -3-41:2011, Cl. 4,	
	Armoured Cables with Thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV		BS 6622 : 2007 Cl. 7, 12	
	Thermosetting Insulated, non-armoured cables for fixed installations		BS 7889 : 2012 Cl. 6, 10	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	PVC Insulated, Armoured Cables for voltages of 600/1000V and 1900/3300V		BS 6346 : 1997 Cl. 6, 9, 11	
	Low Voltage Energy Cables – Multicore Cables with cross-linked Silicon Rubber insulation		BS EN 50525 -2-83 : 2011 Cl. 4	
	Low Voltage Energy Cables – Flexible Cables with cross-linked elastomeric insulation		BS EN 50525 -2-21 : 2011 Cl. 4, 5	
	Rubber or Silicon Rubber insulated flexible cables & cords for coils & leads		BS 6195 : 2006, Cl. 6,	
	Flexible Cords for use with appliances and equipment intended for domestic, office & similar environments		BS 6500 ; 2000 Cl. 6	
	Flat Polyvinyl Chloride Sheathed Flexible Cables		BS EN 50214 : 2006 Cl. 5, 6	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
8.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Loss of Mass test	IS:10810(Pt.10)-1984, IS 694:2010 Cl. 10.3.c.2,	Up to10 mg/cm ²
	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V		IS:1554 (Part 1)-1988 Cl. 15.1.d.5,	
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.d.5	
	Cables for Motor Vehicle		IS 2465:1984 Cl. 12.1.e.3,	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.e.3	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.vi).e	
	Polyvinyl Chloride Insulated cables		IEC 60227 (Part-1 to 6): 2007	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11, Cl. 18.6	
	Cables for rated voltages from 6kV to 30kV		IEC 60502-2:2014 19.8,	
	Test Method for Loss of Mass Test for Thermoplastic Insulations and Sheaths		IEC/BS EN:60811 (Part 409): 2012,	
	Single core PVC insulated flexible cable for switchgear and control gear wiring		BS 6231:2006 Cl. 6.1,	
	Thermosetting insulated, armoured cables for voltages of 600/1000V and 1900/3300V		BS 5467:1997 Cl. 11.1,	
	PVC Insulated and PVC Sheathed cables for electric power and lighting		BS 6004:2012 Cl. 6.2, 6.6,	
	Control and Instrumentation Cables for Polyethylene Insulated Cables		PAS 5308-1:2009, Cl. 7.1,	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Control and Instrumentation Cables for PVC Insulated cables		PAS 5308-2:2009 Cl. 5, 7.1, 7.2.1, 7.2.3	
	Multi Element Metallic Cables Used in Analogue And Digital Communication and Control		BS EN 50288-7:2005 Cl. 4.2, 4.12, 4.16	
	Elastomer Insulated Cables for working voltages from 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.c.10)	
	Flexible Cables for Lifts and Other Flexible Connections		IS:4289 (Part 2)-2000 Cl. 18.1.c).iii)	
	Armoured Cables with Thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV		BS 6622 : 2007 Cl. 12	
	Thermosetting Insulated, non-armoured cables for fixed installations		BS 7889 : 2012 Cl. 10	
	PVC Insulated, Armoured Cables for voltages of 600/1000V and 1900/3300V		BS 6346 : 1997 Cl. 11	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory

Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Flat Polyvinyl Chloride Sheathed Flexible Cables		BS EN 50214 ; 2006 Cl. 4.5	
9.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Thermal stability	IS 10810 (Part-60)-1988 IS 694:2010 Cl. 10.3.c.7	0-500 minutes
	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V		IS:1554 (Part 1)-1988 Cl. 15.1.d.7	
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.d.7	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.e.7	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.vi).g)	
	Polyvinyl Chloride Insulated cables		IEC 60227 (Part-1 to 6): 2007 Cl. 3	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11	
	Cables for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl. 19.19	
	Test Method for Thermal Stability Test of PVC Insulations and PVC Sheaths		IEC/BS EN:60811 (Part 405): 2012	
	PVC Insulated and PVC Sheathed cables for electric power and lighting		BS 6004:2012 Cl. 6.2, 6.6	
	Elastomer Insulated Cables for working voltages from 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.c.12)	
	Flexible Cables for Lifts and Other Flexible Connections		IS:4289 (Part 2)-2000 Cl. 18.1.c).vi)	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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Manesar, Gurgaon, Haryana

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10.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V	Ageing in air oven	IS: 10810 (Pt.11)-1984 IS 694:2010 Cl. 10.3.c.3,	Up to 200 N/mm ² , 0 to 800%
	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100V		IS:1554 (Part 1)-1988 Cl. 15.1.d.2	
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.d.2	
	Cables for Motor Vehicle		IS 2465:1984 Cl. 12.1.e.2,	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.d.2	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.iii).b) & 19.1.vi).b)	
	Aerial Bunched Cables for working voltages upto and including 1100V		IS 14255:1995 Cl. 10.1.c.2	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Polyvinyl Chloride Insulated cables		IEC 60227 (Part-1 to 6): 2007 Cl. 3	
	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11, Cl. 18.4	
	Cables for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl. 19.5	
	Test Method for Ageing in Air Oven		IEC/BS EN:60811 (Part 401): 2012	
	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by fire		BS 7846:2009 Cl. 6.1.2, 11.1.2	
	Thermosetting insulated, armoured cables having low emission of smoke and corrosive gases when affected by fire		BS 6724:1997 Cl. 6.1.2, 11.1.2	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Thermosetting insulated and Thermoplastic Sheathed cables for electric power, lighting and having low emission of smoke and corrosive gases when effected by fire		BS 7211:2012 Cl. 7.1	
	Single core PVC insulated flexible cable for switchgear and control gear wiring		BS 6231:2006 Cl. 6.1	
	Thermosetting insulated, armoured cables for voltages of 600/1000V and 1900/3300V		BS 5467:1997 Cl. 6.1, 11.1	
	PVC Insulated and PVC Sheathed cables for electric power and lighting		BS 6004:2012 Cl. 6.2, 6.6	
	Single core unsheathed heat resisting cables		BS 6007:2006 Cl. 6.2.1	
	Control and Instrumentation Cables for Polyethylene Insulated Cables		PAS 5308-1:2009, Cl. 7.1	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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	Control and Instrumentation Cables for PVC Insulated cables		PAS 5308-2:2009 Cl. 5, 7.1, 7.2.1, 7.2.3	
	Multi Element Metallic Cables Used in Analogue And Digital Communication and Control		BS EN 50288-7:2005 Cl. 4.2, 4.12, 4.16	
	Elastomer Insulated Cables for working voltages up to and including 1100V		IS:9968 (Part-1):1988 Cl. 21.1.7.b)	
	From 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.c.3)	
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.d.ii)	
	Winding Wires for Submersible Motors		IS 8783 (Part 1 to 4) Cl. 4.2.3) of IS 8783 (Part-3)	
	Welding Cables		IS 9857:1990 Cl. 10.1.c).2)	
	Flexible Cables for Lifts and Other Flexible Connections		IS:4289 (Part 1)-1984 Cl. 17.1.e).2) IS:4289 (Part 2)-2000 Cl. 18.1.c).ii)	
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-2:2011 BS 7870-5:2011 Cl. 12.2 BS 7870-8.1:2003 Table-5 BS 7870-8.3:2003 Cl. 16.3 BS 7870-8.6:2003 Cl 18.8, 18.10	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 Cl. 8, 13	
	Low Voltage Energy Cables – Single Core non-sheathed cables with halogen-free cross-linked insulation and low emission of smoke		BS EN 50525 -3 - 41 : 2011 Cl. 4	
	Armoured Cables with Thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV		BS 6622 : 2007 Cl. 7, 12	
	Thermosetting Insulated, non-armoured cables for fixed installations		BS 7889 : 2012 Cl. 6, 10	
	PVC Insulated, Armoured Cables for voltages of 600/1000V and 1900/3300V		BS 6346 : 1997 Cl. 6, 9, 11, Table 2, 4	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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	Low Voltage Energy Cables – Multicore Cables with cross-linked Silicon Rubber insulation		BS EN 50525 - 2 - 83 : 2011 Cl. 4	
	Low Voltage Energy Cables – Flexible Cables with cross-linked elastomeric insulation		BS EN 50525 -2-21 : 2011 Cl. 4, 5	
	Rubber or Silicon Rubber insulated flexible cables & cords for coils & leads		BS 6195 : 2006 Cl. 6	
	Flexible Cords for use with appliances and equipment intended for domestic, office & similar environments		BS 6500 : 2000 Cl. 6	
	Flat Polyvinyl Chloride Sheathed Flexible Cables		BS EN 50214 Cl. 4, 5	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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11.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Shrinkage Test	IS:10810 (Pt.12) -1984 IS 694:2010 Cl. 10.3.c.4	Up to 50%
	PVC Insulated (Heavy Duty) Electric cables for working voltages up to 1100V		IS 1554 (Part 1) – 1988 Cl. 15.1.d.3	
	From 3.3 kV to 11 kV		IS 1554 (Part 2) – 1988 Cl. 18.1.d.3	
	Cables for Motor Vehicle		IS 2465:1984 Cl. 12.1.e.6	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS 7098 (Part 1) Cl.15.1.d.4	
	From 3.3 kV to 33 kV		IS 7098 (Part 2) Cl. 19.1.iii).d), 19.1.VI).c)	
	Aerial Bunched Cables for working voltages up to and including 1100V		IS 14255:1995 Cl. 10.1.c.4	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11	
	Cables for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl. 18.16, 19.18	
	Test Methods for Shrinkage Test on Insulations and Sheaths		IEC 60811 (Part 502 & 503): 2012 BS EN 60811 (Part 502 & 503):2012	
	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by fire		BS 7846:2009 Cl. 18.3,18.6	
	Thermosetting insulated, armoured cables having low emission of smoke and corrosive gases when affected by fire		BS 6724:1997 Cl. 18.3,18.6	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Thermosetting insulated and Thermoplastic Sheathed cables for electric power, lighting and having low emission of smoke and corrosive gases when effected by fire		BS 7211:2012 Cl. 17.6	
	Thermosetting insulated, armoured cables for voltages of 600/1000V and 1900/3300V		BS 5467:1997 Cl. 18.3	
	Control and Instrumentation Cables for Polyethylene Insulated Cables		PAS 5308-1:2009 Cl. 5.7	
	Control and Instrumentation Cables for PVC Insulated cables		PAS 5308-2:2009 Cl. 5.7	
	Multi Element Metallic Cables Used in Analogue And Digital Communication and Control		BS 50288-7:2005 Cl. 4.2, 4.16	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Elastomer Insulated Cables for working voltages from 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.c.8)	
	Winding Wires for Submersible Motors		IS 8783 (Part 1 to 4) Cl. 4.3.4) of IS 8783 (Part-3)	
	Flexible Cables for Lifts and Other Flexible Connections		IS:4289 (Part 2)-2000 Cl. 18.1.c).v)	
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-5:2011 Cl. 12.2 BS 7870-8.3:2003 Cl. 16	
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 Cl. 20.18	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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12.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V	Heat Shock test on Insulation & Sheath	IS:10810 (Pt.14)-1984, IS 694:2010 Cl. 10.3.c.5,	Qualitative test
	PVC Insulated (Heavy Duty) Electric cables for working voltages up to 1100V		IS:1554 (Part 1)-1988 Cl. 15.1.d.6	
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.d.6	
	Cables for Motor Vehicle		IS 2465:1984 Cl. 12.1.e.5	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.e.6	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.vi.f)	
	Polyvinyl Chloride Insulated cables		IEC 60227 (Part-1 to 6): 2007 Cl. 3	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11 Cl. 18.9	
	Cables for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl. 19.11	
	Test Method for Heat Shock Test		IEC/BS EN:60811 (Part 509) -2012	
	Single core PVC insulated flexible cable for switchgear and control gear wiring		BS 6231:2006 Cl. 6.1	
	PVC Insulated and PVC Sheathed cables for electric power and lighting		BS 6004:2012 Cl. 6.2, 6.6	
	Control and Instrumentation Cables for Polyethylene Insulated Cables		PAS 5308-1:2009, Cl. 7.1	
	Control and Instrumentation Cables for PVC Insulated cables		PAS 5308-2:2009 Cl. 5, 7.1, 7.2.1, 7.2.3	
	Multi Element Metallic Cables Used in Analogue And Digital Communication and Control		BS EN 50288-7:2005 Cl. 4.2, 4.12, 4.16	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Thermocouple Compensating cables		IS 8784:1987 Cl.14.8	
	Elastomer Insulated Cables for working voltages from 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.c.11)	
	Winding Wires for Submersible Motors		IS 8783 (Part 1 to 4) Cl 4.2.4) of IS 8783 (Part-3)	
	Flexible Cables for Lifts and Other Flexible Connections		IS:4289 (Part 2)-2000 Cl. 18.1.c).iv)	
	Flat Polyvinyl Chloride Sheathed Flexible Cables		BS EN 50214:2006 Cl. 5, A.5	
	Armoured Cables with Thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV		BS 6622 : 2007 Cl. 12	
	Insulation & Sheathing Material for Cables		BS 7655 Sec. 4.2, 7655 Sec. 4.1	
	Thermosetting Insulated, non-armoured cables for fixed installations		BS 7889 : 2012 Cl. 10	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	PVC Insulated, Armoured Cables for voltages of 600/1000V and 1900/3300V		BS 6346 : 1997 Cl. 6, 11 BS	
	Rubber or Silicon Rubber insulated flexible cables & cords for coils & leads		BS 6195 : 2006 Table B.1	
	Flexible Cords for use with appliances and equipment intended for domestic, office & similar environments		BS 6500 : 2000 Cl. 6.2.1, 6.6.1	
13.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V	Hot deformation test / Pressure Test at High Temperature	IS:10810 (Pt.15)-1984 IS 694:2010 Cl. 10.3.c.6,	Up to 80%
	PVC Insulated (Heavy Duty) Electric cables for working voltages up to 1100V		IS:1554 (Part 1)-1988 Cl. 15.1.d.4,	
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.d.4,	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Cables for Motor Vehicle		IS 2465:1984 Cl. 12.1.e.4,	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages up to and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.e.5,	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.vi).d),	
	Polyvinyl Chloride Insulated cables		IEC 60227 (Part-1 to 6): 2007 Cl. 3	
	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11, Cl. 18.7	
	Cables for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl. 19.9	
	Test Method for Pressure Test at high temperature for insulations and sheaths		IEC / BS EN:60811 (Part 508):2012,	
	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases		BS 7846:2009 Cl. 11.1.5,	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	when affected by fire			
	Thermosetting insulated, armoured cables having low emission of smoke and corrosive gases when affected by fire		BS 6724:1997 Cl. 11.1.5	
	Thermosetting insulated and Thermoplastic Sheathed cables for electric power, lighting and having low emission of smoke and corrosive gases when effected by fire		BS 7211:2012 Cl. 11.1,	
	Single core PVC insulated flexible cable for switchgear and control gear wiring		BS 6231:2006 Cl. 6.1	
	PVC Insulated and PVC Sheathed cables for electric power and lighting		BS 6004:2012 Cl. 6.2, 6.6,	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Control and Instrumentation Cables for Polyethylene Insulated Cables		PAS 5308-1:2009, Cl. 7.1,	
	Control and Instrumentation Cables for PVC Insulated cables		PAS 5308-2:2009 Cl. 5, 7.1, 7.2.1, 7.2.3,	
	Multi Element Metallic Cables Used in Analogue And Digital Communication and Control		BS EN 50288-7:2005 Cl. 4.2, 4.12, 4.16	
	Thermocouple Compensating cables		IS 8784:1987 Cl.14.8)	
	Elastomer Insulated Cables for working voltages from 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.c.9)	
	Winding Wires for Submersible Motors		IS 8783 (Part 1 to 4) Cl.4.3.5) of IS 8783 (Part-3)	
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-8.1:2003 Table-5 BS 7870-8.6:2003 Cl. 18.10	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 Cl. 13	
	Low Voltage Energy Cables – Single Core non-sheathed cables with halogen-free cross-linked insulation and low emission of smoke		BS EN 50525 - 3 -41 : 2011 Cl. 4.1.1.3	
	Armoured Cables with Thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV		BS 6622 : 2007 Cl. 12	
	Thermosetting Insulated, non-armoured cables for fixed installations		BS 7889 : 2012 Cl. 10	
	PVC Insulated, Armoured Cables for voltages of 600/1000V and 1900/3300V		BS 6346 : 1997 Cl. 11	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Rubber or Silicon Rubber insulated flexible cables & cords for coils & leads		BS 6195 : 2006 Table B.1	
	Flat Polyvinyl Chloride Sheathed Flexible Cables		BS EN 50214 : 2006 Cl. 5,	
14.	PVC Insulated (Heavy Duty) Electric cables for working voltages from 3.3 kV to 11 kV	Water Absorption Test (Gravimetric)	IS 10810(Part-33)-1984 IS:1554 (Part 2)-1988 Cl. 18.1.d.8	Up to 20 mg/cm ²
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages up to and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.d.5,	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.iii.f)	
	Aerial Bunched Cables for working voltages up to and including 1100V		IS 14255:1995 Cl. 10.1.c.5,	
	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11 Cl. 18.13	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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	Cables for rated voltages from 6 kV to 30 kV		IEC 60502-2:2014 Cl. 19.15	
	Test Method for Water Absorption Test		IEC / BS EN 60811 (402): 2012	
	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by fire		BS 7846:2009 Cl. 6.1.3,	
	Thermosetting insulated, armoured cables having low emission of smoke and corrosive gases when affected by fire		BS 6724:1997 Cl. 6.1.3,	
	Thermosetting insulated and Thermoplastic Sheathed cables for electric power, lighting and having low emission of smoke and corrosive gases when effected by		BS 7211:2012 Cl. 7.1	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	fire Winding Wires for Submersible Motors		IS 8783 (Part 1 to 4) Cl.4.3.6) of IS 8783 (Part-3)	
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-5:2011 Cl. 12.2 BS 7870-8.3:2003 Cl. 16.2	
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 Cl. 8	
	Armoured Cables with Thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV		BS 6622: 2007 Cl. 7	
	Thermosetting Insulated, non-armoured cables for fixed installations		BS 7889 : 2012 Cl.6	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
15.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V	Insulation Resistance	IS:10810 (Pt.43)-1984, IS 694:2010 Cl. 10.3.e.3,	0-10 ¹⁷ Ohm-cm, 500V
	PVC Insulated (Heavy Duty) Electric cables for working voltages up to 1100V		IS:1554 (Part 1)-1988 Cl. 15.1.e,	
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.e	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.f,	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.xi)	
	Aerial Bunched Cables for working voltages up to and including 1100V		IS 14255:1995 Cl. 10.1.d.f,	
	Polyvinyl Chloride Insulated cables		IEC 60227 (Part-1 to 6): 2007 Cl. 2.4,	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11 Cl. 17.1.2,	
	Cables for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl 20.3,	
	Test Methods for measurement of Permittivity and D.C. Resistivity of filling compounds		IEC / BS EN 60811 (Part 301 & 302) :2012	
	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by fire		BS 7846:2009 Cl. 6.1.5,18.7	
	Thermosetting insulated, armoured cables having low emission of smoke and corrosive gases when affected by fire		BS 6724:1997 Cl. 6.1.5,18.7,	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Thermosetting insulated and Thermoplastic Sheathed cables for electric power, lighting and having low emission of smoke and corrosive gases when effected by fire		BS 7211:2012 Cl. 17.2,	
	Single core PVC insulated flexible cable for switchgear and control gear wiring		BS 6231:2006 Cl. 10.4,	
	Thermosetting insulated, armoured cables for voltages of 600/1000V and 1900/3300V		BS 5467:1997 Cl. 6.1	
	PVC Insulated and PVC Sheathed cables for electric power and lighting		BS 6004:2012 Cl. 6.2	
	Single core unsheathed heat resisting cables		BS 6007:2006 Cl. 7.5,	
	Control and Instrumentation Cables for Polyethylene Insulated Cables		PAS 5308-1:2009, Cl. 9.3	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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	Control and Instrumentation Cables for PVC Insulated cables		PAS 5308-2:2009 Cl. 9.3	
	Multi Element Metallic Cables Used in Analogue And Digital Communication and Control		BS EN 50288-7:2005 Cl. 5.1.4	
	Thermocouple Compensating cables		IS 8784:1987 (Cl. 14.5)	
	Elastomer Insulated Cables for working voltages upto and including 1100V		IS:9968 (Part-1):1988 Cl. 21.1.8	
	From 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.d	
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.e)	
	Winding Wires for Submersible Motors		IS 8783 (Part 1 to 4) Cl. 4.3.3 of IS 8783 (Part-3)	
	Flexible Cables for Lifts and Other Flexible Connections		IS:4289 (Part 1)-1984 Cl. 17.1.h) IS:4289 (Part 2)-2000 Cl. 18.1.e)	
	LV & MV polymeric insulated cables for use by distribution and		BS 7870-2:2011 Cl. 3.3 BS 7870-5:2011 Cl. 12.1.3 BS 7870-8.3:2003 Cl. 14.3 BS 7870-8.6:2003 Cl. 16.3	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	generation utilities			
	Electrical Test Methods for low voltage energy cables		BS EN 50395:2005 Cl. 8.1 & Cl. 9	
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835: 2007 Annex. O	
	Low Voltage Energy Cables – Single Core non-sheathed cables with halogen-free cross-linked insulation and low emission of smoke		BSEN 50525-3-41 Annex-A	
	PVC Insulated, Armoured Cables for voltages of 600/1000V and 1900/3300V		BS 6346 : 1997 Cl. 16.4 Annex L	
	Flexible Cords for use with appliances and equipment intended for domestic, office & similar		BS 6500 : 2000 Annex B, B 2.4, Annex C, C.4 ,	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	environments			
	Flat Polyvinyl Chloride Sheathed Flexible Cables		BSEN 50214:2006 Table 6,	
16.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V	High Voltage test (Water immersion)	IS: 10810 (Pt.45)-1984, IS 694:2010 Cl.10.1	Up to 80kV
	PVC Insulated (Heavy Duty) Electric cables for working voltages up to 1100		IS:1554 (Part 1)-1988 Cl.16.2	
	Cables for Motor Vehicle		IS 2465:1984 Cl. 14.1,	
	Single core PVC insulated flexible cable for switchgear and control gear wiring		BS 6231:2006 Cl. 11.2,	
	Polyvinyl Chloride Insulated cables		IEC 60227 (Part-1 to 6): 2007 Cl. 2.3	
	Test Methods for measurement of Permittivity and D.C. Resistivity of filling compounds		IEC/ BS EN 60811 (Part 301 & 302): 2012	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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	Elastomer Insulated Cables for working voltages upto and including 1100V		IS:9968 (Part-1):1988 Cl. 21.1.9	
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.k)	
	Winding Wires for Submersible Motors		IS 8783 (Part 1 to 4) Cl 4.3.2.a) of IS 8783 (Part3)	
	Welding Cables		IS 9857:1990 Cl. 10.1.d)	
	Flexible Cables for Lifts and Other Flexible Connections		IS:4289 (Part 1)-1984 Cl. 17.1.g) IS:4289 (Part 2)-2000 Cl. 18.1.d)	
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-2:2011 Cl. 3.2 BS 7870-8.1:2003 Cl. 14.6 BS 7870-8.3:2003 Cl. 14.4	
	Electrical Test Methods for low voltage energy cables		BS EN 50395:2005 Cl. 6 & Cl. 7	
	Low Voltage Energy Cables – Single Core non-sheathed cables with halogen-free cross-linked insulation and low emission of smoke		BS EN 50525 -3-41 : 2011 Annex A	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Low Voltage Energy Cables – Multicore Cables with cross-linked Silicon Rubber insulation		BS EN 50525-2-83 : 2011 Cl. 1.2 of Table A.1	
	Low Voltage Energy Cables – Flexible Cables with cross-linked elastomeric insulation		BS EN 50525 -2-21 : 2011 Annex A	
	Rubber or Silicon Rubber insulated flexible cables & cords for coils & leads		BS 6195 : 2006 Cl. 10.3 Annex G Annex F-2,	
	Flat Polyvinyl Chloride Sheathed Flexible Cables		BS EN 50214:2006 Table 6	
	Flexible Cords for use with appliances and equipment intended for domestic, office & similar environments		BS 6500:2000 Annex C 3.2	
17.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up	High Voltage test at room temperature	IS: 10810 (Pt.45)-1984, IS : 2071(P-2)-1974 IS 694:2010 Cl. 10.2,	Up to 80 kV

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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	to and including 1100V			
	PVC Insulated (Heavy Duty) Electric cables for working voltages up to 1100		IS 1554 (Part 1)-1988 Cl. 15.1.g,	
	From 3.3 kV to 11 kV		IS:1554 (Part 2) -1988 Cl. 18.1.m	
	Cables for Motor Vehicle		IS 2465:1984 Cl. 12.1.g	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages up to and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.g	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.xiv)	
	Aerial Bunched Cables for working voltages up to and including 1100V		IS:14255 Cl 10.1.g	
	Thermocouple Compensating cables		IS 8784:1987 Cl.14.7	
	Single core PVC insulated flexible cable for switchgear and control gear wiring		BS 6231:2006 Cl. 10.3	
	Control and		PAS 5308-1:2009 Cl. 9.2	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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	Instrumentation Cables for Polyethylene Insulated Cables			
	Control and Instrumentation Cables for PVC Insulated cables		PAS 5308-2:2009 Cl. 9.2	
	Polyvinyl Chloride Insulated cables		IEC 60227 (Part-1 to 6): 2007 Cl. 2.3	
	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11 Cl. 15.3	
	Cables for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl 18.2.9	
	Test Methods for measurement of Permittivity and D.C. Resistivity of filling compounds		IEC/BS EN 60811 (301 & 302):2012	
	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by fire		BS 7846:2009 Cl. 16.3	
	Thermosetting insulated,		BS 6724:1997 Cl. 16.3	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	armoured cables having low emission of smoke and corrosive gases when affected by fire			
	Thermosetting insulated and Thermoplastic Sheathed cables for electric power, lighting and having low emission of smoke and corrosive gases when effected by fire		BS 7211:2012 Cl. 17.3	
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-2:2011 Cl. 3.2 BS 7870-8.1:2003 14.6 BS 7870-8.3:2003 Cl. 14.4	
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 Cl. 19.18, 21.8	
	Low Voltage Energy Cables –		BS EN 50525 -3-41 : 2011 Annex A	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Single Core non-sheathed cables with halogen-free cross-linked insulation and low emission of smoke			
	Armoured Cables with Thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV		BS EN 6622 : 2007 Cl. 18.16, 20.8	
	Thermosetting Insulated, non-armoured cables for fixed installations		BS 7889 : 2012 Cl. 14.3.2	
	PVC Insulated, Armoured Cables for voltages of 600/1000V and 1900/3300V		BS 6346 : 1997 Cl. 16.3 Annex K	
	Low Voltage Energy Cables – Multicore Cables with cross-linked Silicon Rubber insulation		BS EN 50525-2-83 : 2011, Cl. 1.2 of Table A.1	
	Electrical Test Methods for low voltage energy cables		BS 50395 : 2005 Cl.6	
	Low Voltage Energy Cables –		BS EN 50525-2-21 : 2011 Annex A	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Flexible Cables with cross-linked elastomeric insulation			
	Rubber or Silicon Rubber insulated flexible cables & cords for coils & leads		BS 6195 : 2006, Cl. 10.3 Annex G Annex F-2	
	Flat Polyvinyl Chloride Sheathed Flexible Cables		BS EN 50214 : 2006 Table 6, 1.2	
	Flexible Cords for use with appliances and equipment intended for domestic, office & similar environments		BS 6500 : 2000 Annex B 2.3	
18.	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire	Bending Test at low Temperature	IEC/ BSEN:60811 (Part-504): 2012 (Cl.4.2, 4.3) BS 7835 : 2007	Qualitative test
	Thermosetting Insulated, non-armoured cables for fixed installations		BS 7889 : 2012 Cl. 6.10	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	PVC Insulated, Armoured Cables for voltages of 600/1000V and 1900/3300V		BS 6346 : 1997, Cl. 11	
	Flexible Cords for use with appliances and equipment intended for domestic, office & similar environments		BS 6500 : 2000 Cl. 7.9.6	
	Flat Polyvinyl Chloride Sheathed Flexible Cables		BS EN 50214:2006 Cl 6.3.2, Table 11	
19.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V	Cold bend Test	IS:10810 (Part 20)-1984, IS 694:2010 Cl. 10.3.c.8,	Qualitative test
	PVC Insulated (Heavy Duty) Electric cables for working voltages up to 1100 V		IS 1554 (Part 1) Cl. 15.4.a,	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables		IS 7098 (Part 1) Cl. 15.4.a	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	for working voltages up to and including 1100V			
	Polyvinyl Chloride Insulated cables		IEC 60227 (Part-1 to 6): 2007 Cl. 3.2	
	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11 Cl. 18.8	
	Cables for rated voltages from 6kV to 30 kV		IEC 60502-2:2014 Cl. 19.10	
	Test Method for Bending Test at low temperature for insulations & sheaths		IEC / BS EN 60811 (Part 504):2012,	
	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by fire		BS 7846:2009 Cl. 11.1	
	Thermosetting insulated, armoured cables having low emission of smoke and corrosive gases		BS 6724:1997 Cl. 11.1	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	when affected by fire			
	Thermosetting insulated and Thermoplastic Sheathed cables for electric power, lighting and having low emission of smoke and corrosive gases when effected by fire		BS 7211:2012 Cl. 7.1, 11.1	
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-2:2011 Cl. 2.4.1.8	
20.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100 V	Cold Impact Test	IS:10810 (Pt.21)-1984 IS 694:2010 Cl. 10.3.c.9	Qualitative test
	PVC Insulated (Heavy Duty) Electric cables for working voltages up to 1100 V		IS:1554 (Part 1)-1988 Cl. 15.4.b	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.4	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.4.b	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.4	
	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11, Cl. 18.8	
	Cables for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl 19.10	
	Test Method for Impact Test at low temperature for insulations and sheaths		IEC/BS EN 60811 (Part 506):2012	
	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by fire		BS 7846:2009 Cl. 11.1	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Thermosetting insulated, armoured cables having low emission of smoke and corrosive gases when affected by fire		BS 6724:1997 Cl. 11.1	
	Thermosetting insulated and Thermoplastic Sheathed cables for electric power, lighting and having low emission of smoke and corrosive gases when effected by fire		BS 7211:2012 Cl. 11.1	
	Elastomer Insulated Cables for working voltages from 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.4.b	
	Flat Polyvinyl Chloride Sheathed Flexible Cables		BS EN 50214:2006 Cl. 6.3.5, Table 11, A.3	
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases		BS 7835 : 2007 Cl. 13.1	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	when affected by fire			
	Low Voltage Energy Cables – Single Core non-sheathed cables with halogen-free cross-linked insulation and low emission of smoke		BS EN 50525-3-41 : 2011 Anex – A	
	Armoured Cables with Thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV		BS 6622 : 2005 Cl. 12.2	
	Thermosetting Insulated, non-armoured cables for fixed installations		BS 7889 : 2012 Cl. 10.1	
	PVC Insulated, Armoured Cables for voltages of 600/1000V and 1900/3300V		BS 6346 : 1997 Cl. 11.1	
	Low Voltage Energy Cables – Multicore Cables with cross-linked Silicon Rubber insulation		BS EN 50525-2-83 : 2011, Annex A Table A.1 Sec. 2.6,	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Flexible Cords for use with appliances and equipment intended for domestic, office & similar environments		BS 6500 : 2000 Cl. 6.6.1	
21.	Polyvinyl Chloride Insulated cables	Elongation Test at low Temperature	IEC/BSEN 60811 (Part-505): 2012 Cl. 4.2 & 4.3 IEC 60227 (Part-1 to 6): 2007 Cl. 3,	Up to 600 %
	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11	
	Cables for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl. 18.8, 19.10,	
	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by fire		BS 7846:2009 Cl. 6.1, 11.1	
	Thermosetting insulated, armoured cables having low		BS 6724:1997 Cl. 6.1, 11.1	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	emission of smoke and corrosive gases when affected by fire			
	Thermosetting insulated and Thermoplastic Sheathed cables for electric power, lighting and having low emission of smoke and corrosive gases when effected by fire		BS 7211:2012 Cl. 7.1, 11.1	
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835: 2007 Cl. 8, 13.1,	
	Low Voltage Energy Cables – Single Core non-sheathed cables with halogen-free cross-linked insulation and low emission of smoke		BS EN 50525-3-41:2011 Cl. 4	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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	Armoured Cables with Thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV		BS 6622 : 2007 Cl. 12,	
	Thermosetting Insulated, non-armoured cables for fixed installations		BS 7889 : 2012 Cl. 10	
	PVC Insulated, Armoured Cables for voltages of 600/1000V and 1900/3300V		BS 6346: 1997 Cl. 11	
	Low Voltage Energy Cables – Multicore Cables with cross-linked Silicon Rubber insulation		BS EN 50525 -2-83 : 2011 Cl. 4.2.1.3, 4.2.1.3,	
	Low Voltage Energy Cables – Flexible Cables with cross-linked elastomeric insulation		BS EN 50525-2-21 :2011 Cl. 4.1.1.3, 4.1.1.5	
	Flat Polyvinyl Chloride Sheathed Flexible Cables		BSEN 50214 : 2006 Cl. 5.3.2	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
22.	PVC Insulated (Heavy Duty) Electric cables for working voltages up to 1100	Dimension for armouring material	IS 10810 (Part 36)-1984 IS:1554 (Part 1)-1988 Cl. 15.1.b.1	Up to 25 mm
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.b	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.b.1	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.2	
	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables		IS 3975:1999 Cl. 7	
	Thermosetting insulated, armoured cables having low emission of smoke and corrosive gases when affected by fire		BS 6724:1997 Cl. 10.3.a	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by fire		BS 7846:2009 Cl. 10.3.a	
	Thermosetting insulated, armoured cables for voltages of 600/1000V and 1900/3300V		BS 5467:1997 Cl. 10.2, 10.3	
	Control and Instrumentation Cables for Polyethylene Insulated Cables		PAS 5308-1:2009, Cl. 7.2	
	Control and Instrumentation Cables for PVC Insulated cables		PAS 5308-2:2009, Cl. 7.2	
	Multi Element Metallic Cables Used in Analogue And Digital Communication and Control		BS 50288-7:2005, Cl. 4.14	
	Elastomer Insulated Cables for working voltages from 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.b.1	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory

Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.b.i	
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 Cl. 19.14 Table 3, 4	
	PVC Insulated, Armoured Cables for voltages of 600/1000V and 1900/3300V		BS 6346:1997 Cl. 10 Table 1	
23.	PVC Insulated (Heavy Duty) Electric cables for working voltages Up to 1100 V	Tensile strength & Elongation at break for armouring material	IS: 10810 (Pt.37)-1984 IS:1554 (Part 1)-1988 Cl. 15.1.b.2.1,	Up to 2000 N/mm ²
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.b	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages up to and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.b.2.1,	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables		IS 3975:1999 Cl. 8,	
	Thermosetting insulated, armoured cables for voltages of 600/1000V and 1900/3300V		BS 5467:1997, Cl. 10.2, 10.3	
	Control and Instrumentation Cables for Polyethylene Insulated Cables		PAS 5308-1:2009, Cl. 7.2	
	Control and Instrumentation Cables for PVC Insulated cables		PAS 5308-2:2009, Cl. 7.2	
	Multi Element Metallic Cables Used in Analogue And Digital Communication and Control		BS 50288-7:2005, Cl. 4.14	
	Elastomer Insulated Cables for working voltages from 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.b.2.i & ii)	
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.b.ii)	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 Cl. 20.12,	
	PVC Insulated, Armoured Cables for voltages of 600/1000V and 1900/3300V		BS 6346 : 1997 Cl. 10	
24.	PVC Insulated (Heavy Duty) Electric cables for working voltages up to 1100 V	Torsion Test on Galvanized steel wire for Armouring	IS: 10810(Pt.38)-1984 IS:1554 (Part 1)-1988 Cl. 15.1.b.2.3,	0 to 200 Turns
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.b	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages up to and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.b.2.3,	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.II)	
	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of		IS 3975 Cl. 8.2,	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Cables			
	Thermosetting insulated, armoured cables for voltages of 600/1000V and 1900/3300V		BS 5467:1997, Cl. 10.2, 10.3	
	Control and Instrumentation Cables for Polyethylene Insulated Cables		PAS 5308-1:2009, Cl. 7.2	
	Control and Instrumentation Cables for PVC Insulated cables		PAS 5308-2:2009, Cl. 7.2	
	Multi Element Metallic Cables Used in Analogue And Digital Communication and Control		BS 50288-7:2005, Cl. 4.14	
	Elastomer Insulated Cables for working voltages from 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.b.2.iii)	
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.b.iii)	
25.	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100	Winding/ Wrapping Test on Galvanized steel strip for Armouring	IS: 10810(Pt.39)-1984 IS:1554 (Part 1)-1988 Cl. 15.1.b.2.4,	Qualitative test

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.b	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.b.2.4,	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.II)	
	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables		IS 3975:1999 Cl. 8.3	
	Thermosetting insulated, armoured cables having low emission of smoke and corrosive gases when affected by fire		BS 6724:1997 Cl. 10.3.c	
	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by		BS 7846:2009 Cl. 10.3.c	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	fire Thermosetting insulated, armoured cables for voltages of 600/1000V and 1900/3300V		BS 5467:1997, Cl. 10.2, 10.3	
	Control and Instrumentation Cables for Polyethylene Insulated Cables		PAS 5308-1:2009, Cl. 7.2	
	Control and Instrumentation Cables for PVC Insulated cables		PAS 5308-2:2009, Cl. 7.2	
	Multi Element Metallic Cables Used in Analogue And Digital Communication and Control		BS 50288-7:2005, Cl. 4.14	
	Elastomer Insulated Cables for working voltages from 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.b.2.iv)	
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-2:2011 Cl. 2.3.2	
	Armoured Cables with Thermosetting		BS 7835 : 2007 Cl. 20.10,	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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Manesar, Gurgaon, Haryana

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	Insulation having low emission of smoke and corrosive gases when affected by fire			
	PVC Insulated, Armoured Cables for voltages of 600/1000V and 1900/3300V		BS 6346 : 1997 Cl. 10 Annex G.3	
26.	PVC Insulated (Heavy Duty) Electric cables for working voltages up to 1100	Uniformity of Zinc coating (Dip Test)	IS: 10810 (Pt.40)-1984 IS:1554 (Part 1)-1988 Cl. 15.1.b.2.5,	Qualitative test
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.b	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.b.2.5,	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.II)	
	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables		IS 3975:1999 Cl. 9..2	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT Manesar, Gurgaon, Haryana

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	Thermosetting insulated, armoured cables for voltages of 600/1000V and 1900/3300V		BS 5467:1997, Cl. 10.2, 10.3	
	Control and Instrumentation Cables for Polyethylene Insulated Cables		PAS 5308-1:2009, Cl. 7.2	
	Control and Instrumentation Cables for PVC Insulated cables		PAS 5308-2:2009, Cl. 7.2	
	Multi Element Metallic Cables Used in Analogue And Digital Communication and Control		BS 50288-7:2005, Cl. 4.14	
	Elastomer Insulated Cables for working voltages from 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.b.2.v)	
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.b.iv)	
27.	PVC Insulated (Heavy Duty) Electric cables for working voltages up to 1100	Mass of Zinc coating	IS: 10810(Pt.41)-1984 IS:1554 (Part 1)-1988 Cl. 15.1.b.2.6	Up to 400 g/m ²

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.b	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.b.2.6	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.II	
	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables		IS 3975:1999 Cl. 9.1	
	Thermosetting insulated, armoured cables having low emission of smoke and corrosive gases when affected by fire		BS 6724:1997 Cl. 10.3.b	
	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by		BS 7846:2009 Cl. 10.3.b,	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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	fire Thermosetting insulated, armoured cables for voltages of 600/1000V and 1900/3300V		BS 5467:1997, Cl. 10.2, 10.3	
	Control and Instrumentation Cables for Polyethylene Insulated Cables		PAS 5308-1:2009, Cl. 7.2	
	Control and Instrumentation Cables for PVC Insulated cables		PAS 5308-2:2009, Cl. 7.2	
	Multi Element Metallic Cables Used in Analogue And Digital Communication and Control		BS 50288-7:2005, Cl. 4.14	
	Elastomer Insulated Cables for working voltages from 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.b.2.vi)	
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.b.iv)	
	LV & MV polymeric insulated cables for use by distribution and		BS 7870-2:2011 Cl. 2.5.1	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT Manesar, Gurgaon, Haryana

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	generation utilities Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007, Cl. 20.9	
	PVC Insulated, Armoured Cables for voltages of 600/1000V and 1900/3300V		BS 6346:1997 Cl. 10 Table1	
28.	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100	Resistivity & Conductance test of Armour (Wires/strips)	IS: 10810(Pt.42)-1984, IS:1554 (Part 1)-1988 Cl. 15.1.b.2.7	Up to 17×10^{-6} ohm cm
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.b	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.b.2.7	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.II)	
	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes		IS 3975:1999 Cl. 8.4,	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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	for Armouring of Cables			
	Thermosetting insulated, armoured cables for voltages of 600/1000V and 1900/3300V		BS 5467:1997, Cl. 10.2, 10.3	
	Control and Instrumentation Cables for Polyethylene Insulated Cables		PAS 5308-1:2009, Cl. 7.2	
	Control and Instrumentation Cables for PVC Insulated cables		PAS 5308-2:2009, Cl. 7.2	
	Multi Element Metallic Cables Used in Analogue And Digital Communication and Control		BS 50288-7:2005, Cl. 4.14	
	Elastomer Insulated Cables for working voltages from 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.b.2.vii)	
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.b.v)	
	PVC Insulated, Armoured Cables for voltages of 600/1000V and		BS 6346 : 1997 Cl. 10.5	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
29.	1900/3300V PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100	Armour Coverage Percentage Test	IS:1554 (Part-1)-1988 Cl. 13.1.2	Up to 100%
	From 3.3 kV to 11 kV		IS:1554 (Part-2)-1988 Cl. 16.1.2	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS:7098 (Part-1)-1988 Cl. 13.1.2	
	From 3.3 kV to 33 kV		IS:7098 (Part-2)-2011 Cl. 17.1.1	
30.	Low Carbon Galvanized Steel Wires, Formed Wires and Tapes for Armouring of Cables	Adhesion Test	IS 3975:1999 Cl. 9.3	Qualitative test
31.	Test Method for Oxygen Index	Oxygen Index Test / Temperature Index Test	IS:10810 (Part 58)-1988,	Up to 40% / Up to 500 °C
	Test Method for Measurement of Temperature Index		IS:10810 (Part-64)-2003,	
	Test Method for Measuring the Oxygen Index		ASTM- D2863-2000,	
	Polyvinyl Chloride Insulated unsheathed and		IS 694:2010, Cl. 10.3.c.11, 12,	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V			
	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100		IS:1554 (Part 1)-1988 Cl. 15.1.ag	
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.3.C1.a), d) & Cl. 18.1.3.C2.a), g)	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.1.ag,	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.3.C1.a), d) & Cl. 19.1.3.C2.a), f)	
	Method for determination of flammability temperature of materials		BS 2782-1 :1989	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
32.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Halogen Acid Gas Evolution / Corrosive & halogen acid gas	IS:10810 (Pt.59)-1988, IEC 60754 (Part-1):2011, BSEN:50267-2-1:1999 IS 694:2010 Cl. 10.3.c.13,	0.1% to 40% by weight
	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100		IS:1554 (Part 1)-1988 Cl. 15.1.1.f,	
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl.18.1.3.C2.e)	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages up to and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.1.f,	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.3.C2.e),	
	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by		BS 7846:2009 Cl. 9.3, 8.2, 6.4	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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	fire Thermosetting insulated, armoured cables having low emission of smoke and corrosive gases when affected by fire		BS 6724:1997 Cl. 6.4, 11.4	
	Thermosetting insulated and Thermoplastic Sheathed cables for electric power, lighting and having low emission of smoke and corrosive gases when effected by fire		BS 7211:2012, Cl. 10.2, 11.5	
	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11	
	300/500 V fire resistant screened cables having low emission of smoke and corrosive gases when affected by fire - Part 1:		BS 7629-1:2008 Cl. 6.5, Cl. 8.3 & Cl. 10.5	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT Manesar, Gurgaon, Haryana

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	Multicore and multipair cables			
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 Cl. 20.2	
	Low Voltage Energy Cables – Single Core non-sheathed cables with halogen-free cross-linked insulation and low emission of smoke		BS 50525-3-41:2011 Table A.1	
	Thermosetting Insulated, non-armoured cables for fixed installations		BS 7889 : 2012 Cl. 6	
	Halogen Free Cross-linked Insulating Compounds		BS EN 50363 - 5 Table 2	
33.	Test Method to determine density of smoke from the burning or decomposition of plastics	Smoke Density Rating	ASTM-D 2843-99/ IS:13360 (P-6) Sec-9:2001	Up to 100%

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT Manesar, Gurgaon, Haryana

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34.	Test Method for Flame Retardant Test	Flame Retardant Test on Single cable (Swedish Chimney)	IS:10810 (Pt.61)-1988,	Up to 850 mm
	Testing of Flame Propagation Characteristics		SS-424-1475,	
	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100		IS:1554 (Part 1)-1988 Cl. 15.1.1.b,	
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.3.C1.b) & Cl. 18.1.3.C2.b),	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.1.b,	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.3.C1.b) & Cl. 19.1.3.C2.b),	
	PVC Insulated, Armoured Cables for voltages of 600/1000V and 1900/3300V		BS 6346:1997	
35.	Test Method for Flame Retardance or vertical flame spread on Bunched Cables	Flame Retardance Test on Bunched cable	IS:10810 (Pt.62)-1993 IEC: 60332-3-22:2000-10, IEC 60332-3-23:2000-10, IEC 60332-3-24:2000-10, BS 4066-3:1994 BS EN:50266-2-4:2007	Up to height of 3.5 m

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100		IS:1554 (Part 1)-1988 Cl. 15.1.1.c,	
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.3.C1.c) & Cl. 18.1.3.C2.c),	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.1.c,	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.3.C1.c) & Cl. 19.1.3.C2.c),	
	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11, Cl. 18.14,	
	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by fire		BS 7846:2009 Cl. 18.5	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Thermosetting insulated, armoured cables having low emission of smoke and corrosive gases when affected by fire		BS 6724:1997 Cl. 18.5,	
	Thermosetting insulated and Thermoplastic Sheathed cables for electric power, lighting and having low emission of smoke and corrosive gases when effected by fire		BS 7211:2012 Cl. 17.5	
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 Cl. 20.15	
36.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible	Flammability test	IS:10810 (Pt.53)1984 IEC-60332 (Part 1 & 2): 2004 BS 4066-1:1980 IS 694:2010 Cl. 10.3.e.5,	Up to 650 mm, 0 to 60 second

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	conductor for rated voltages upto and including 1100V			
	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100		IS:1554 (Part 1)-1988 Cl. 15.1.h,	
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 18.1.n	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V		IS:7098 (Part 1)-1988 Cl. 15.1.h,	
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.XV,	
	Polyvinyl Chloride Insulated cables		IEC 60227 (Part-1 to 6): 2007 Cl. 3	
	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11, Cl. 18.14	
	Cables for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl 19.16	
	Thermosetting insulated, armoured Fire Resistant cables		BS 7846:2009 Cl. 17.2	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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	having low emission of smoke and corrosive gases when affected by fire			
	Thermosetting insulated, armoured cables having low emission of smoke and corrosive gases when affected by fire		BS 6724:1997 Cl. 17.2,	
	Thermosetting insulated and Thermoplastic Sheathed cables for electric power, lighting and having low emission of smoke and corrosive gases when effected by fire		BS 7211:2012 Cl. 16.5	
	Elastomer Insulated Cables for working voltages upto and including 1100V		IS:9968 (Part-1):1988 Cl. 21.1.10	
	From 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.n)	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Flexible Cables for Lifts and Other Flexible Connections		IS:4289 (Part 1)-1984 Cl. 17.1.k) IS:4289 (Part 2)-2000 Cl. 18.1.g)	
	300/500 V fire resistant screened cables having low emission of smoke and corrosive gases when affected by fire - Part 1: Multicore and multipair cables		BS 7629-1:2008 Cl. 13.4	
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 Cl. 19.16,	
	Low Voltage Energy Cables – Single Core non-sheathed cables with halogen-free cross-linked insulation and low emission of smoke		BS EN 50525-3-41 Table A.1 Sr. 5.1	
	Thermosetting Insulated, non-armoured cables for fixed		BS 7889 : 2012 Cl. 15.2	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	installations PVC Insulated, Armoured Cables for voltages of 600/1000V and 1900/3300V		BS 6346 : 1997 Cl. 17.2	
	Low Voltage Energy Cables – Flexible Cables – with cross-linked elastomeric insulation		BS EN 50525-2-21 ; 2011 Table A.2 Sr. 8,	
	Rubber or Silicon Rubber insulated flexible cables & cords for coils & leads		BS 6195 : 2006 Table B.1 Cl. 11.2,	
	Flexible Cords for use with appliances and equipment intended for domestic, office & similar environments		BS 6500 : 2000 Cl. 8.6,	
	Flat Polyvinyl Chloride Sheathed Flexible Cables		BS EN 50214 : 2006 Table 6 Sr. 9	
37.	Test Method for Vertical Tray Flame Test	Flammability test (Vertical tray flame test)	As Per ANSI/IEEE:383:1974	Up to 8 feet

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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38.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages upto and including 1100V	Hot Set Test	IS 10810(Part-30) 1984 IS:7098 (Part 1)-1988 Cl. 15.1.d.3	Up to 200%
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.III).c)	
	Aerial Bunched Cables for working voltages upto and including 1100V		IS 14255:1995 Cl. 10.1.c.3,	
	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11 Cl. 18.11	
	Cables for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl.19.13	
	Test Method - Hot Set Test for cross-linked materials		IEC/BS EN 60811 (507): 2012	
	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by		BS 7846:2009 Cl. 6.1.4	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	fire Thermosetting insulated, armoured cables having low emission of smoke and corrosive gases when affected by fire		BS 6724:1997 Cl. 6.1.4	
	Thermosetting insulated and Thermoplastic Sheathed cables for electric power, lighting and having low emission of smoke and corrosive gases when effected by fire		BS 7211:2012 Cl. 7.1	
	Elastomer Insulated Cables for working voltages upto and including 1100V		IS:9968 (Part-1):1988 Cl. 21.1.7.e)	
	From 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.c.5)	
	Winding Wires for Submersible Motors		IS 8783 (Part 1 to 4) Cl. 4.2.5) of IS 8783 (Part-3)	
	Welding Cables		IS 9857:1990 Cl. 10.1.c).5)	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 Cl. 19.6	
	Low Voltage Energy Cables – Single Core non-sheathed cables with halogen-free cross-linked insulation and low emission of smoke		BS EN 50525-3-41: 2011 Cl. 19.6 & Table A.1	
	Armoured Cables with Thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV		BS 6622 : 2007 Cl. 18.6	
	Thermosetting Insulated, non-armoured cables for fixed installations		BS 7889 : 2012 Cl. 6	
	Low Voltage Energy Cables – Multicore Cables with cross-linked Silicon Rubber insulation		BS EN 50525-2-83:2011 Cl.4	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Low Voltage Energy Cables – Flexible Cables with cross-linked elastomeric insulation		BS EN 50525-2-21:2011 Cl. 4, Cl. 5	
	Rubber or Silicon Rubber insulated flexible cables & cords for coils & leads		BS 6195 : 2006 Cl. 6.1	
	Flexible Cords for use with appliances and equipment intended for domestic, office & similar environments		BS 6500 : 2000 Cl, 6	
39.	Thermocouple compensating cables	Thermal emf Test	IS 8784:1987 (Cl. 14.2) ANSI MC-96.1	0 to 1 Volt
40.	Multi Element Metallic Cables Used in Analogue And Digital Communication and Control	Environmental stress cracking	IS:10810 (P-29)-1984 ASTM:D1693-01, IEC/BS EN 60811 (Part-406): 2012 BS EN 50288-7:2005 Cl. 4.2	Qualitative test
41.	Test Method – Tensile Test of Aluminum Wires	Breaking load on Messenger Conductor	IS:10810 (Pt. 2)-1984	Up to 25kN
	Aerial Bunched Cables for working voltages up to and including 1100V	Elongation on Messenger Conductor	IS 14255:1995, Cl. 6.5	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-5:2011 Table-1	
42.	Aerial Bunched Cables for working voltages up to and including 1100V		IS 14255:1995 Cl. 11.3	Up to 50 %
43.	Multi Element Metallic Cables Used in Analogue And Digital Communication and Control	Melt Flow Index	IS:10810 (Part-23)-1984 IEC/BS EN 60811 (Part-511) : 2012 BS EN 50288-7:2005 Cl. 4.2	Up to 5 g/s
	Methods of Test for Polyethylene Moulding Materials and Polyethylene Compounds		IS:2530-1963 Cl. 7	
44.	Aerial Bunched Cables for working voltages up to and including 1100V	Vicat softening Point	IS 10810 (Part-22) 1984 IS 14255:1995 Cl. 10.1.d.4	Up to 150 °C, L.C. 0.1°C,
	Methods of Test for Polyethylene Moulding Materials and Polyethylene Compounds		IS:2530-1963 Cl. 9	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
45.	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages from 3.3 kV to 33 kV	Carbon Content Test	IS 10810 (Part 32)-1984, IEC/BS EN 60811 (Part-605) :2012 IS:7098 (Part 2)-2011 Cl. 19.1.VI).h)	Up to 8 %
	Aerial Bunched Cables for working voltages upto and including 1100V		IS 14255:1995 Cl. 10.1.d.3	
	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11, Cl. 18.15	
	Cables for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl. 19.17	
	Methods of Test for Polyethylene Moulding Materials and Polyethylene Compounds		IS:2530-1963 Cl. 10	
46.	Aerial Bunched Cables for working voltages upto and including 1100V	Bending Test	IS 10810 (Pt-50)-1984, IS 14255:1995 Cl. 11.4	Qualitative test
	Polyvinyl Chloride Insulated cables		IEC 60227 (Part-1 to 6): 2007 Cl. 3.2	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-2:2011 Cl. 2.4.1	
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 Cl. 21.3	
47.	Power Cables for the distribution of electrical energy	Accelerated Water Absorption Test (Electrical)	IS:10810(P-28)-1984, NEMA WC-70:2009, NEEMA WC-5:1973 / NEMA WC-57:2014 NEMA WC- 53:2008	Up to 20%
	Standard for Control, Thermo Couple Extension and Instrumentation Cables			
	Test Methods for Thermoplastic Insulations and Jacket for Wires & Cables		ASTM D2633-02	
	Power Cables with extruded insulation and their accessories for rated voltages		IEC 60502-1 Edition 2.1 2009-11 Cl. 18.13	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT Manesar, Gurgaon, Haryana

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	from 1kV to 3 kV Cables for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl. 19.15	
	Elastomer Insulated Cables for working voltages up to and including 1100V		IS:9968 (Part-1):1988 Cl. 21.1.11	
	From 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.m	
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.m)	
	Winding Wires for Submersible Motors		IS 8783 (Part 1 to 4) Cl. 4.3.6) of IS 8783 (Part-3)	
48.	Test Methods for Thermoplastic Insulations and Jacket for Wires & Cables	Dielectric Strength Retention Test	ASTM-D 2633-02	Up to 90 %
	Power Cables for the distribution of electrical energy		NEMA WC-5:1973, ANSI/NEMA WC-70:2009 / NEMA WC-57:2014	
	Standard for Control, Thermo Couple Extension and Instrumentation Cables		NEMA WC- 53:2008	
49.	Control and Instrumentation Cables for Polyethylene	Capacitance Test	EN:50289-1-5:2001 PAS 5308-1:2009 Cl.9.1	Up to 250pF/m

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Insulated Cables			
	Control and Instrumentation Cables for PVC Insulated cables		PAS 5308-2:2009 Cl.9.1	
	Multi Element Metallic Cables Used in Analogue And Digital Communication and Control		BS EN 50288-7:2005 Cl. 5.1.1.5, 5.1.6	
	Cables for Motor Vehicle		IS 2465:1984 Cl. 12.1.h	
50.	Control and Instrumentation Cables for Polyethylene Insulated Cables	Inductance Test	BS EN 50289-1-12:2005 PAS 5308-1:2009(Cl.9.6)	Up to 1000 H/Km
	Control and Instrumentation Cables for PVC Insulated cables		PAS 5308-2:2009(Cl.9.6)	
	Multi Element Metallic Cables Used in Analogue And Digital Communication and Control		BS 50288 - 7 : 2005 Cl. 5.1.1.5	
51.	Control and Instrumentation Cables for Polyethylene Insulated Cables	L/R Ratio Test	PAS 5308-1:2009(Cl.9.6)	Up to 100 μ H/ Ω
	Control and Instrumentation Cables for PVC		PAS 5308-2:2009(Cl.9.6)	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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	Insulated cables Multi Element Metallic Cables Used in Analogue And Digital Communication and Control		BS 50288 - 7 : 2005 Cl. 5.1.1.8	
52.	Thermocouple Compensating cables	Drain Wire Continuity Test	IS 8784:1987 Cl.14.6	Qualitative test
53.	Test Method for resistance to fire of cables	Resistance to fire alone (Protocol C)	BS 6387:2013 Cl. 6,	Qualitative test
	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by fire		BS 7846:2009 Cl. 17.4.2	
	300/500 V fire resistant screened cables having low emission of smoke and corrosive gases when affected by fire - Part 1: Multicore and multipair cables		BS 7629-1:2008 Cl. 14.4	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
54.	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by fire	Resistance to fire to with water (Protocol W)	BS 6387:2013 Cl. 7 BS 7846:2009 Cl. 17.4.2	Qualitative test
	300/500 V fire resistant screened cables having low emission of smoke and corrosive gases when affected by fire - Part 1: Multicore and multipair cables		BS 7629-1:2008 Cl. 14.4	
55.	Fire Alone at a Flame Temperature of at least 750°C	Test for electric cables under fire conditions- Circuit Integrity	IEC:60331-11:1999-04, IEC:60331-21:1999-04	Qualitative test
56.	Test Method for resistance to fire of cables	Resistance to fire with mechanical shock (Category Z)	BS 6387:2013 Cl. 8	Qualitative test
	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by		BS 7846:2009 Cl. 17.4.2	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	fire 300/500 V fire resistant screened cables having low emission of smoke and corrosive gases when affected by fire - Part 1: Multicore and multipair cables		BS 7629-1:2008 Cl. 14.4	
57.	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by fire	Resistance to Fire (Category F30)	BS 7846:2009 Cl. 17.4.3	Qualitative test
	Method for assessment of fire integrity of large diameter power cables		BS 8491:2008	
58.	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by fire	Resistance to Fire (Category F60)	BS 7846:2009 Cl. 17.4.4	Qualitative test

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Method for assessment of fire integrity of large diameter power cables		BS 8491:2008	
59.	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by fire	Resistance to Fire (Category F120)	BS 7846:2009 Cl. 17.4.5	Qualitative test
	Method for assessment of fire integrity of large diameter power cables		BS 8491:2008	
60.	Test Method for fire with shock at a temperature of at least 830°C for cables of rated voltages upto & including 0.6/1.0 kV and with an overall diameter exceeding 20 mm	Resistance to fire with mechanical shock	IEC 60331-1	Qualitative test
61.	Method of test for resistance to fire of unprotected small cables for use in emergency circuits	Resistance to fire with mechanical shock and water spray (Classification PH15, PH30, PH60, PH90, PH120)	BS EN 50200:2006 BS 8434:2003	Qualitative test

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	300/500 V fire resistant screened cables having low emission of smoke and corrosive gases when affected by fire - Part 1: Multicore and multipair cables		BS 7629-1:2008 Cl. 13.5 & Cl. 14.4	
62.	Test Method for fire with shock at a temperature of at least 830°C for cables of rated voltages upto & including 0.6/1.0 kV and with an overall diameter not exceeding 20 mm	Resistance to fire with mechanical shock	IEC 60331-2	Qualitative test
63.	Determination of acidity (by pH measurement) and conductivity	pH and Conductivity Test	IEC 60754-2:2011	0-10 µs/mm 0-14 pH
	Determination of degree of acidity of gases for materials by measuring pH and conductivity		BS EN 50267-2-2	
	Thermosetting Insulated, non-armoured cables for fixed installations		BS 7889 : 2012 Cl. 6.1	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Low Voltage Energy Cables – Single Core non-sheathed cables with halogen-free cross-linked insulation and low emission of smoke		BS EN 50525-3-41:2011 Cl.4	
	Halogen-free, cross-linked insulating compounds		BS EN 50363-5 Table 2 Sr. 7	
64.	Aluminium Conductors for Overhead Transmission Purposes	Diameter of Aluminium wires	IS 398 (Part-1):1996 Cl.12.2	Up to 25mm
		Lay ratio	IS 398 (Part-1):1996 Cl.12.6	Lay ratio: 8 to 20
		Breaking load of Individual wires	IS 398 (Part-1):1996 Cl.12.3	Up to 25 kN
		Wrapping test for Aluminum wires	IS 398 (Part-1):1996 Cl.12.4	Qualitative test
		Resistance test of Aluminium wires	IS 398 (Part-1):1996 Cl.12.5	0-100 ohm/km
65.	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors, galvanized steel-reinforced	Diameter of Aluminium & Steel wires	IS 398 (Part-2):1996 Cl.13.2	Up to 25mm
		Lay ratio	IS 398 (Part-2):1996 Cl.13.8	Lay ratio: 8 to 50
		Breaking load of Individual wires	IS 398 (Part-2):1996 Cl.13.8	0-25 kN L.- 2N
		Ductility test (Torsion test and Elongation test)	IS 398 (Part-2):1996 Cl.13.4	0 - 200 Turns & 50%
		Wrapping test for Aluminum wires	IS 398 (Part-2):1996 Cl.13.5	Qualitative test
		Surface condition Test	IS:398 (P-2) 1996 (cl. 13.9)	Qualitative test
		Resistance test of Aluminium wires	IS 398 (Part-2):1996 Cl.13.6	0-100 ohm/km

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection		
66.	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages upto and including 1100V	Persulphate Test/ Tinning Test	IS: 10810 (Pt. 4)-1984 IS 694:2010 Cl. 10.2.q,	Up to 5 g/m ²		
			Cables for Motor Vehicle	IS 2465:1984 Cl. 12.1.b,		
			Conductors in insulated cables & cords	BS 6360:1991 Appendix B		
			Elastomer Insulated Cables for working voltages up to and including 1100V	IS:9968 (Part-1):1988 Cl. 21.1.1		
			From 3.3 kV to 33 kV	IS:9968 (Part-2)-2002 Cl. 22.1.a.5)		
			Flexible Cables for Lifts and Other Flexible Connections	IS:4289 (Part 1)-1984 Cl. 17.1.a)		
				Additional Ageing Test	IS 694:2010 (Cl. 10.9)	Qualitative test
				Copper Purity Test	IS 191:2007 & IS 440:1964	0-100%
				Durability & Legibility of Marking	IS 694:2010 Cl. 11.1,	Qualitative test
				Polyvinyl Chloride Insulated cables	IEC 60227 (Part-1 to 6): 2007 Cl. 1.8	
	Ageing in Air Oven	Compatibility Test IEC/BS EN 60811 (Part 401): 2012	Up to 200 N/mm ² , 0 - 800 %			

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by fire		BS 7846:2009 Cl. 18.2	
	Thermosetting insulated, armoured cables having low emission of smoke and corrosive gases when affected by fire		BS 6724:1997 Cl. 18.2	
	Thermosetting insulated and Thermoplastic Sheathed cables for electric power, lighting and having low emission of smoke and corrosive gases when effected by fire		BS 7211:2012 Cl. 17.4	
	PVC Insulated, Armoured Cables for voltages of 600/1000V and 1900/3300V		BS 6346 : 1997 Cl. 18.2 M2	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Armoured Cables with Thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV		BS 6622 : 2007 19.13	
	Airport Authority of India	Anti Rodent & Anti Turmite test	Airport Authority of India specification dated 18-04-2010	Qualitative test
67.	UV Exposure of non-metallic materials	UV Test	ASTM G-154-06, ASTM G-151	Up to 200 N/mm ² , 0 - 800 %
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-2:2011 Cl. 2.4.20	
	Plastics – Method of exposure to laboratory light sources		BS EN ISO 4892	
68.	Cables for Motor Vehicle	Oil Resistance Test	IS:10810(P-31)-1984, IS 2465:1984 Cl. 12.1.m	Up to 200 N/mm ² , 0 - 800 %
	Mineral oil immersion tests for sheaths		IEC/BS EN:60811 (Part 404) :2012,	
	Elastomer Insulated Cables for working voltages up to and including 1100V		IS:9968 (Part-1):1988 Cl. 21.1.7.f)	
	From 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.c.6)	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.d.v)	
	Welding Cables		IS 9857:1990 Cl. 10.1.c).4)	
	Flexible Cables for Lifts and Other Flexible Connections		IS:4289 (Part 1)-1984 Cl. 17.1.f).3)	
	Tear Resistance for Heavy Duty Sheaths	Tear Resistance	IS:10810-(P-17)-1986	Up to 20 N/mm
	Thermosetting insulated, armoured Fire Resistant cables having low emission of smoke and corrosive gases when affected by fire		BS 7846:2009 Cl. 11.1.6,	
	Thermosetting insulated, armoured cables having low emission of smoke and corrosive gases when affected by fire		BS 6724:1997 Cl. 11.1.6,	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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Manesar, Gurgaon, Haryana

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Thermosetting insulated and Thermoplastic Sheathed cables for electric power, lighting and having low emission of smoke and corrosive gases when effected by fire		BS 7211:2012 Cl. 11.1, BS 6469-99.1:1992	
	Elastomer Insulated Cables for working voltages upto and including 1100V		IS:9968 (Part-1):1988 Cl. 21.1.7.g)	
	From 3.3 kV to 33 kV		IS:9968 (Part-2)-2002 Cl. 22.1.c.7)	
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.d.vi)	
	Flexible Cables for Lifts and Other Flexible Connections		IS:4289 (Part 1)-1984 Cl. 17.1.f).4)	
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-2:2011 Cl. 2.2.2	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT Manesar, Gurgaon, Haryana

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70.	Specification for PVC Insulation and Sheath of Electric Cables	Bleeding and Blooming Test	IS:10810(P-19)-1984 & IS 5831:1984 (Table-2)	Qualitative test
	PVC Insulation and Sheath of Electric Cables		BS:6746:1990 Appendix C,	
	Methods of Test for Polyethylene Moulding Materials and Polyethylene Compounds		IS:2530-1963 Cl. 12	
		Colour fastness to Water	IS 5831:1984 (Appendix-A) IS:2530-1963 Cl. 13	Qualitative test
		Density and Specific Gravity (Relative Density) of Plastics by displacement	ASTM D792-91, IEC/BS EN 60811 (Part 606) :2012	0.5 to 10 g/cm ³
		Colour fastness to day light	IS:10810(P-18)-1984 & IS 5831:1984 (Table-2) IS:2530-1963 Cl. 15	Qualitative test
	Cables for Motor Vehicle	Effect of lubricating oil, break fluid, diesel, petrol (for general wiring cables)	IS 2465:1984 Cl. 12.1.n	Up to 2.2 mm
71.	PVC Insulated (Heavy Duty) Electric cables for working voltages upto 1100	Resistance Test for Armour (for Mining Cables)	IS:1554 (Part 1)-1988 Cl. 13.5, 15.3	Up to 100 ohm/km
	From 3.3 kV to 11 kV		IS:1554 (Part 2)-1988 Cl. 16.5, 18.3	
	Cross Linked Polyethylene Insulated		IS:7098 (Part 1)-1988 Cl. 13.5, 15.3	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT Manesar, Gurgaon, Haryana

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	Thermoplastic Sheathed cables for working voltages upto and including 1100V			
	From 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 17.5, 19.3.d)	
72.	Accelerated Ageing Test by Air Pressure Method	Ageing in Air Bomb	IS 10810 (P-56)-1987	Up to 200 N/mm ² , 0 - 800 %
	Elastomer Insulated Cables for working voltages upto and including 1100V		IS:9968 (Part-1):1988 Cl. 21.1.7.c)	
	From 3.3 kV to 33 kV		IS:9968 (Part-2):2002 Cl. 22.1.c.4)	
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.d.iii)	
	Welding Cables		IS 9857:1990 Cl. 10.1.c).3)	
	Flexible Cables for Lifts and Other Flexible Connections		IS:4289 (Part 1)-1984 Cl. 17.1.f).2)	
	Test Method – Ageing in Air Bomb		IEC/BS EN 60811 (Part-412) :2012	
	Accelerated Ageing Test by Air Pressure Method		IS 10810 (P-16)-1986	
	Elastomer Insulated Cables for working voltages up to and		IS:9968 (Part-1):1988 Cl. 21.1.7.d)	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT Manesar, Gurgaon, Haryana

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	including 1100V Flexible Cables for Lifts and Other Flexible Connections		IS:4289 (Part 1)-1984 Cl. 17.1.e.3)	
73.	Elastomer Insulated Cables for working voltages upto and including 1100V	Flexing Test	IS 10810 (P-57)-1987	Qualitative test
	Polyvinyl Chloride Insulated unsheathed and sheathed cables/cords with rigid and flexible conductor for rated voltages up to and including 1100V		IS:9968 (Part-1):1988 Cl. 21.4.a) IS 694:2010 Cl. 10.10 & Table-1	
	Flat Polyvinyl Chloride Sheathed Flexible Cables		BS EN 50214:2006 A.7	
74.	Elastomer Insulated Cables for working voltages from 3.3 kV to 33 kV	Ozone Resistance	IS 10810 (P-13)-1984 IS:9968 (Part-2)-2002 Cl. 22.4.a	Qualitative test
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.d.vii)	
	Cables for Motor Vehicle		IS 2465 Cl. 12.1.j)	

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	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11, Cl. 18.10,	
	Cables for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl. 19.12	
	Ozone Resistance Test on Cross-linked compounds		IEC/BSEN 60811 (Part-403)	
	Thermosetting Insulated, non-armoured cables for fixed installations		BS 7889 : 2012 Cl. 6.1	
	Low Voltage Energy Cables – Multicore Cables with cross-linked Silicon Rubber insulation		BS EN 50525 -2-83 : 2011 Cl. 4	
	Low Voltage Energy Cables – Single Core non-sheathed cables with halogen-free cross-linked insulation and low emission of smoke		BS EN 50525-3-41 : 2011	
	Low Voltage Energy Cables – Flexible Cables with cross-linked		BS EN 50525-2-21 : 2011 Cl 4, 5	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	elastomeric insulation			
75.	Winding Wires for Submersible Motors	Conductor Diameter	IS 8783 (Part 1 to 4) Annex-A & Cl. 4.1.1 of IS 8783 (Part-3)	0 -25 mm 0 -150 mm
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-2:2011 Table-1	
		Overall Dimension	IS 8783(Part 1 to 4) Annex-A & Cl. 4.3.1 of IS 8783 (Part-3)	0 -150 mm
	Winding Wires for Submersible Motors	Spark Test	IS 10810 (P-44)-1984 IS 8783 (Part 1 to 4) Cl. 4.2.7) and Cl. 4.3.2.b) of IS 8783 (Part-3)	Qualitative test
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-2:2011 Cl. 3.6 BS 7870-5:2011 Cl. 10.2.2	
		Hydrolytic Stability Test	ASTM -D 3137 -98 -2004	Up to 200 N/mm ² , 0 - 800 %
	Welding Cable	Static Flexibility	IS 10810 (P-54)-1984 IS 9857:1990 Cl. 10.1.e	0 -1000 mm
	Flexible Cables for Lifts and Other Flexible Connections		IS:4289 (Part 1)-1984 Cl. 17.1.j) IS:4289 (Part 2)-2000 Cl. 18.1.f)	
	Flat Polyvinyl Chloride Sheathed Flexible Cables		BS EN 50214:2006 A.6	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT Manesar, Gurgaon, Haryana

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	Flat Polyvinyl Chloride Sheathed Flexible Cables	Two pulley Flexing Test	BSEN 50214 : 2006 A-7,	Qualitative test
	Non Electrical Test Methods for Low Energy Cables		BS EN 50396 :2005,	
	Flexible Cords for use with appliances and equipment intended for domestic, office & similar environments		BS EN 6500 :2005, Annex D	
77.	Measurement of Smoke Density of electrical cables under fire conditions	Smoke Density under Fire Conditions	IS 10810 (P-63)-1984	0 -100 %
	Measurement of smoke density of cables burning under defined conditions		BS 61034-1 BS 61034-2	
	300/500 V fire resistant screened cables having low emission of smoke and corrosive gases when affected by fire - Part 1: Multicore and multipair cables		BS 7629-1:2008 Cl. 13.6	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 CL. 19.17, 20.16	
	Low Voltage Energy Cables – Single Core non-sheathed cables with halogen-free cross-linked insulation and low emission of smoke		BS EN 50525 -3-41 : 2011 Cl 4.3, 4.4 Table 1 Annex A	
	Thermosetting insulated and Thermoplastic Sheathed cables for electric power, lighting and having low emission of smoke and corrosive gases when effected by fire		BS 7211 :2012 Cl. 16.6	
	Thermosetting insulated, armoured cables having low emission of smoke and		BS 6724 : 1997 Cl. 17.3	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	corrosive gases when affected by fire			
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages from 3.3 kV to 33 kV	Test on extruded semi conducting screens-Test for Strippability of semiconducting strippable insulation screen	IS:7098 (Part 2)-2011 Cl. 19.1.v).a)	Up to 2.5 kN
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Annex. B	
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-2:2011 Cl. 2.2.8	
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages from 3.3 kV to 33 kV	Test on extruded semi conducting screens-Volume Resistivity	IS:7098 (Part 2)-2011 Cl. 19.1.v).b)	Up to 5000 Ω .m
	Armoured Cables with Thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV		BS 6622 : 2007 Cl. 19.4	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages from 3.3 kV to 33 kV	Thermal ageing test for complete cable/ Additional Ageing Test on pieces of Completed Cables	IS:7098 (Part 2)-2011 Cl. 19.1.vii)	Up to 200 N/mm ² , 0 - 800 %
	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11 Cl. 18.5,	
	Cables for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl. 19.5,	
	PVC Insulated (Heavy Duty) Electric cables for working voltages from 3.3 kV to 11 kV	Bending Test	IS 10810 (Part-50)-1984 IS 1554 (Part-2)-1988 Cl. 18.1.g)	Qualitative test
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages from 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.ix)	
	Elastomer Insulated Cables for working voltages from 3.3 kV to 33 kV		IS 9968 (Part-2):2002 Cl. 22.1.f	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.g	
	Power Cables with extruded insulation and their accessories for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl. 18.2.4	
	Armoured Cables with Thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV		BS 6622 : 2007, Cl. 20.3	
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 Cl. 21.3,	
78.	PVC Insulated (Heavy Duty) Electric cables for working voltages from 3.3 kV to 11 kV	Dielectric Power Factor Test as a function of voltage	IS 10810 (Part-48)-1984 IS 1554 (Part-2)-1988 Cl. 18.1.h) 1)	Up to 100 pF
	Cross Linked Polyethylene Insulated Thermoplastic		IS:7098 (Part 2)-2011 Cl. 19.1.x).a)	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Sheathed cables for working voltages from 3.3 kV to 33 kV			
	Elastomer Insulated Cables for working voltages from 3.3 kV to 33 kV		IS 9968 (Part-2):2002 Cl. 23.1.g).1)	
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.h).i)	
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-2:2011 Cl. 3.11.3	
	Armoured Cables with Thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV		BS 6622 :2007 Cl. 20.4	
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 :2007 Cl. 21.4	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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79.	PVC Insulated (Heavy Duty) Electric cables for working voltages from 3.3 kV to 11 kV	Dielectric Power Factor Test as a function of temperature	IS 10810 (Part-48)-1984 IS 1554 (Part-2)-1988 Cl. 18.1.h) 2)	Up to 100pF
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages from 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.x).b)	
	Elastomer Insulated Cables for working voltages from 3.3 kV to 33 kV		IS 9968 (Part-2):2002 Cl. 22.1.g).2)	
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.h).ii)	
	Power Cables with extruded insulation and their accessories for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl. 18.2.6	
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-2:2011 Cl. 3.11.1	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

Laboratory Rajasthan Test & Research Centre, Plot No. 296, Sector-7, IMT
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	Armoured Cables with Thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV		BS 6622 : 2007 Cl. 20.5	
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 Cl. 21.5	
80.	PVC Insulated (Heavy Duty) Electric cables for working voltages from 3.3 kV to 11 kV	Heat Cycle Test	IS 10810 (Part-49)-1984 IS 1554 (Part-2)-1988 Cl. 18.1.j)	Qualitative test
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages from 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.xii)	
	Elastomer Insulated Cables for working voltages from 3.3 kV to 33 kV	Heat Cycle Test	IS 9968 (Part-2):2002 Cl. 22.1.h)	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.j)	
	Power Cables with extruded insulation and their accessories for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl. 18.2.7	
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-2:2011 Cl. 3.8	
	Armoured Cables with Thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV		BS 6622 : 2007 Cl. 20.6	
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 Cl. 21.6	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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81.	PVC Insulated (Heavy Duty) Electric cables for working voltages from 3.3 kV to 11 kV	High Voltage Test (4 hour Test)	IS 10810(P-45)-1984 IS : 2071(P-2)-1974 IS 1554 (Part-2)-1988 Cl. 19.7	Up to 100 kV
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages from 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 20.7	
	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11, Cl. 17.3	
	Cables for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl. 16.4, 17.9, 18.2.9, 18.3.4	
	Elastomer Insulated Cables for working voltages from 3.3 kV to 33 kV		IS 9968 (Part-2):2002 Cl. 23.7	
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 26.6	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-2:2011 Cl. 3.2.5	
	Armoured Cables with Thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV		BS 6622 : 2007 Cl. 20.8	
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 Cl. 19.18, 21.8	
	PVC Insulated (Heavy Duty) Electric cables for working voltages from 3.3 kV to 11 kV	Partial Discharge Test	IS 10810 (Part-46)-1984 IEC 60885-2, IS/IEC 60270-2000 IS 1554 (Part-2)-1988 Cl. 18.1.f)	1 pC to 100000 pC Sensitivity > 1pC (± 1 pC)
	Cross Linked Polyethylene Insulated Thermoplastic Sheathed cables for working voltages from 3.3 kV to 33 kV		IS:7098 (Part 2)-2011 Cl. 19.1.viii)	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Elastomer Insulated Cables for working voltages from 3.3 kV to 33 kV		IS 9968 (Part-2):2002 Cl. 22.1.e	
	Elastomer Insulated Flexible Cables used in Mines		IS 14494:1998 Cl. 25.1.f	
	Power Cables with extruded insulation and their accessories for rated voltages from 6kV to 30kV		IEC 60502-2 :2014 Cl. 16.3, 18.2.5	
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-2:2011 Cl. 3.10	
	Armoured Cables with Thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV		BS 6622 : 2007 Cl. 17.5, 20.2	
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 Cl. 21.2,	
	PVC Insulated (Heavy Duty) Electric cables for working voltages from 3.3 kV to 11 kV	Impulse Withstand Test	IS 10810 (Part-47)-1984 IS 1554 (Part-2)-1988 Cl. 18.1.k)	
	Cross Linked Polyethylene Insulated Thermoplastic		IS:7098 (Part 2)-2011 Cl. 19.1.xiii)	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director

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	Power Cables with extruded insulation and their accessories for rated voltages from 1kV to 3 kV		IEC 60502-1 Edition 2.1 2009-11 Cl. 17.4	
	Cables for rated voltages from 6kV to 30kV		IEC 60502-2:2014 Cl.18.2.8	
	Elastomer Insulated Cables for working voltages from 3.3 kV to 33 kV		IS 9968 (Part-2):2002 Cl. 22.1.j)	
	LV & MV polymeric insulated cables for use by distribution and generation utilities		BS 7870-2:2011 Cl. 3.2.4	
	Armoured Cables with Thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV		BS 6622 : 2007 Cl. 20.6	
	Armoured Cables with Thermosetting Insulation having low emission of smoke and corrosive gases when affected by fire		BS 7835 : 2007 Cl. 21.7	

Neeraj Verma
Convenor

N. Venkateswaran
Program Director