

Laboratory	Honeywell Electrical Devices and Systems Test Center- India, 780/1-A-1, 782/2B, Chennai-Bangalore Highway, Kuthambakkam Village, Tiruvallur District, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Electrical Testing	Issue Date	23.12.2014
Certificate Number	T-0514	Valid Until	22.12.2016
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S.No.	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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I. WIRING ACCESSORIES

1.	Switches Upto 20 A rating	Verification of Ratings, Classification, Marking	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Qualitative
		Dimension	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 150 mm
		Protection Against Electric Shock	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	40 V to 50 V
		Provision for Earthing	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 32 A Upto 200 mV
		Terminals & screws	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	0.1 Nm to 2.0 Nm
		Constructional Requirements	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Qualitative
		Mechanism	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 5 kV
		Resistance to Ageing	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 200 °C
		Resistance to Humidity	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	10 °C to 80 °C 20 % to 98 % R.H.
		Insulation Resistance	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	100 MΩ to 5 GΩ 500 V DC

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Switches Upto 20 A rating	Electric Strength	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 5 kV
		Temperature Rise Test	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 50 A Upto 150 °C
		Making and Breaking Capacity	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 25 A 280 V AC
		Normal Operation	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 20 A 250 V AC
		Normal Operation for Fluorescent Test	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 20 A 250 V AC
		Mechanical Strength	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Qualitative
		Resistance to Heat	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Ambient to 200 °C Ball Pressure diameter upto 10mm
		Screws, current carrying parts and connections	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	0.1 Nm to 2.0 Nm
		Creepage Distance and clearances	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 150 mm
		Resistance to Abnormal Heat and Fire	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 1000 °C
		Résistance to Tracking	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 600 V 1A
		Resistance to Rusting	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Qualitative

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	Plugs and Socket outlets of rated voltage upto and including 16 A	Verification of Ratings, Classification , Marking	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Qualitative
		Checking of Dimension	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 150 mm and gauges (Qualitative)
		Protection Against Electric Shock	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	40 V to 50 V
		Provision for Earthing	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 200 mV
		Terminals	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	0.1 Nm to 2.0 Nm
		Verification of Construction of fixed socket outlets (Upto 16A) (Except Membrane)	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Qualitative
		Resistance to Ageing	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 200 °C
		Resistance to Humidity	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	10 °C to 80 °C 20 % to 98 % R.H.
		Insulation Resistance and Electric Strength	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	100 MΩ to 5 GΩ 500 V DC

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	Plugs and Socket outlets of rated voltage upto and including 16 A	Operation of Earthing contacts	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 16 A
		Temperature Rise Test	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 50 A Upto 150 °C
		Making and Breaking Capacity	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	6 A to 16 A 280 V AC
		Normal Operation	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	6 A to 16 A 280 V AC
		Withdrawal force	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 54 N
		Flexible cables and their connection	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 60 N
		Mechanical Strength	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 2 N
		Resistance to Heat	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Ambient to 200 °C Ball Pressure diameter upto 10 mm
		Screws, current carrying parts and connections	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	0.1 Nm to 2.0 Nm
		Creepage Distance, clearances and distance through sealing compound	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 150 mm
		Resistance of insulating material to abnormal heat fire and tracking	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Upto 1000 °C Upto 600V Upto 1A
		Resistance to Rusting	IS 3854: 1997 (RA 2002) BS EN 60669-1: 1999 + A2: 2008	Qualitative

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Mallika Gope
Convenor

N. Venkateswaran
Program Manager