

<b>Laboratory</b>	<b>Associated Electronics Research Foundation, C-53, Phase-II, Noida, Uttar Pradesh</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Electronics Testing</b>	<b>Issue Date</b>	<b>10.09.2014</b>
<b>Certificate Number</b>	<b>T-0463</b>	<b>Valid Until</b>	<b>09.09.2016</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>I.</b>	<b>CABLES AND ACCESSORIES</b>			
<b>1.</b>	<b>PVC insulated cables for working Voltage upto &amp; including 1100V</b>	High Voltage test	CI No 16.2 of IS: 694:1990 / IS:1554(part 1)-1988	0 to 30kV <sub>rms</sub> & DC
		Additional ageing test	CI No 16.6 of IS: 694:1990 / IS:1554(part 1)-1988	80 °C ± 2 °C
		Tests for conductor		
		Annealing test (for copper)	IS: 10810 Part 1-1984 Reaffirmed 2006	250 mm
		Tensile test (for Aluminum)	IS: 10810 Part 2-1984 Reaffirmed 2006	0 to 500 N
		Wrapping test (for Aluminum)	IS: 10810 Part 3-1984 Reaffirmed 2006	Qualitative
		Resistance Test	IS: 10810 Part 5-1984 Reaffirmed 2006	1 mΩ to 2000 Ω
		Overall dimensions of Insulation and Sheath	IS : 10810 Part 6-1984 Reaffirmed 2006	0.01 mm to 300 mm
		Physical Test on Insulation & sheath		
		Tensile strength & elongation at break	IS: 10810 part 7-1984 Reaffirmed 2007	0 to 500N
		Ageing in air oven	IS:10810 : Part 11-1984 Reaffirmed 2006	0 to 200°C
		Shrinkage test	IS:10810 : Part 12-1984 Reaffirmed 2006	Upto 200 mm

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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
		Heat shock test	IS:10810 : Part 14-1984 Reaffirmed 2006	0 to 200°C
		Insulation Resistance	IS:10810 : Part 43-1984 Reaffirmed 2006	10 MΩ to 150 GΩ at 500V DC
		Hot deformation Test	IS:10810 : Part 14-1984 Reaffirmed 2006	Qualitative
		High Voltage Test(Water immersion test)	IS:10810 : Part 45-1984 Reaffirmed 2006	0 to 30kV <sub>rms</sub> & DC
<b>II. DOMESTIC ELECTRICAL APPLIANCES</b>				
<b>1.</b>	<b>Propeller Type AC Ventilating Fans IS 2312 : 1967</b>	Starting	Cl 10.1 of IS: 2312-1967 Reaffirmed 2005	Qualitative
		Power factor	Cl 14.6 of IS: 2312-1967 Reaffirmed 2005	-0.02 to 1 and &.02 to 1
		AC leakage	Cl 14.7 of IS: 2312-1967 Reaffirmed 2005	100 μA to 10A
		Test for capacitors	IS: 7305-1984 & 4317-1983 2009	Qualitative
		Capacitance	Cl 8.3.2 of IS: 7305-1984	2 nF to 100 μF
		Leakage current	Cl 1 4.7 of of IS: 2312-1967 Reaffirmed 2005	0.4 mA to 10 mA Upto 500 V DC

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		Voltage proof	Cl 1 4.8 of IS: 2312-1967 Reaffirmed 2005	0 to 30kV <sub>rms</sub> & DC
		Insulation resistance	Cl 1 4.9 of of IS: 2312-1967 Reaffirmed 2005	10 MΩ to 150 GΩ
		Characteristics at low and high temperature	Cl 8.6b of IS: 4317-1983	2 nF to 100 μF
		High voltage	Cl 14.8 of IS: 2312-1967 Reaffirmed 2005	0 to 30kV <sub>rms</sub> & DC
		Fan speed	Cl 14.12 of IS: 2312-1967 Reaffirmed 2005	100 RPM to 2000RPM
		Electrical Input	Cl 14.11 of IS: 2312-1967 Reaffirmed 2005	Upto 2.5 kW

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