



# ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

(Accredited by the National Accreditation Board for Testing and Calibration Laboratories, Govt. of India)

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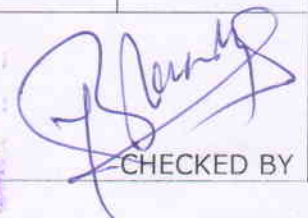
DATE : 19-07-2011

Sr. No.	Cl.No.	Tests	Requirement as per Specification	Obtained Value	Remarks
1.	15.2.d	Conductor resistance (corrected at 20 °C),ohm/km	Max. 12.1	11.5	Conforms
2.	15.2.e	Test for thickness of insulation -Thickness, mm	Nom. / Min. 0.7 / 0.53	0.8/0.57	Conforms
3.	15.2.f	Tensile strength and elongation at break of insulation -Tensile strength, N/mm <sup>2</sup> -Elongation at break, %	Min. 12.5 Min. 150	17.8 225	Conforms Conforms
4.	15.2.g	Insulation resistance test			
	A]	Volume resistivity, Ohm-cm -at 27 °C -at 70 °C	Min. 1 x 10 <sup>13</sup> Min. 1 x 10 <sup>10</sup>	2 x 10 <sup>13</sup> 1 x 10 <sup>11</sup>	Conforms Conforms
	B]	Insulation resistance constant, M ohm- km -at 27 °C -at 70 °C	Min. 36.7 Min. 0.037	80.2 0.476	Conforms Conforms
5.	15.2.j	Flammability test - Period of burning after removal of flame,seconds  - Unaffected portion from the lower edge of the top clamp, mm	Max. 60  Min. 50	Nil  325	Conforms  Conforms
6.	IS:191- 2007	Copper purity test Purity of copper -Copper, % (Copper + Silver)	Min. 99.90	99.94	Conforms

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