

Laboratory	APAR Industries Limited, Conductors Division, Survey No. 148/1, Rakholi Road, Village : Kudacha, Silvassa, Dadra and Nagar Haveli		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Electrical Testing	Issue Date	07.06.2014
Certificate Number	T-2251	Valid Until	06.06.2016
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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. CABLES & WIRES

1.	Bare Aluminium Conductor AAC, AAAC, ACSR, AAAC, for EHV Application	Wire Diameter / Size	IS 398 (Part 1):1996, IS 398 (Part 2):1996, IS 398 (Part 4): 1994, IS 398 (Part 5): 1992, IEC 1089:1991, EN 50182:2001, ASTM B-232:2011, ASTM B-399:2010, ASTM B-524:2011, ASTM B-711:2005, SS 4240814:1989, BS 215 (Part 1):1970, BS 215 (Part 2):1970	Upto 25 mm
		Elongation	IS 398 (Part 1):1996, IS 398 (Part 2):1996, IS 398 (Part 4): 1994, IS 398 (Part 5): 1992, IEC 1089:1991, EN 50182:2001, ASTM B-232:2011, ASTM B-399:2010, ASTM B-524:2011, ASTM B-711:2005, SS 4240814:1989, BS 215 (Part 1):1970, BS 215 (Part 2):1970	Upto 40 %

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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
		Breaking Load / UTS on Wire	IS 398 (Part 1):1996, IS 398 (Part 2):1996, IS 398 (Part 4): 1994, IS 398 (Part 5): 1992, IEC 1089:1991, EN 50182:2001, ASTM B-232:2011, ASTM B-399:2010, ASTM B-524:2011, ASTM B-711:2005, SS 4240814:1989, BS 215 (Part 1):1970, BS 215 (Part 2):1970	Upto 30 kN
		Breaking Load / UTS on Complete Conductor	IS 398 (Part 1):1996, IS 398 (Part 2):1996, IS 398 (Part 4): 1994, IS 398 (Part 5): 1992, IEC 1089:1991, EN 50182:2001	Upto 500 kN
		Lay Length	IS 398 (Part 1):1996, IS 398 (Part 2):1996, IS 398 (Part 4): 1994, IS 398 (Part 5): 1992, IEC 1089:1991, EN 50182:2001, ASTM B 232:2011, ASTM B-399:2010, ASTM B-524:2011, ASTM B-711:2005, SS 4240814:1989, BS 215 (Part 1):1970, BS 215 (Part 2):1970	Upto 500 mm

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		Lay Ratio	IS 398 (Part 1):1996, IS 398 (Part 2):1996, IS 398 (Part 4): 1994, IS 398 (Part 5): 1992, IEC 1089:1991, EN 50182:2001, ASTM B-232:2011, ASTM B-399:2010, ASTM B-524:2011, ASTM B-711:2005, SS 4240814:1989, BS 215 (Part 1):1970, BS 215 (Part 2):1970	9 to 30
		Wrap Test	IS 398 (Part 1):1996, IS 398 (Part 2):1996, IS 398 (Part 4): 1994, IS 398 (Part 5): 1992, IEC 1089:1991, EN 50182:2001, ASTM B-232:2011, ASTM B-399:2010, ASTM B-524:2011, ASTM B-711:2005, SS 4240814:1989, BS 215 (Part 1):1970, BS 215 (Part 2):1970	1 D to 6 D

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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
		Torsion Test	IS 398 (Part 1):1996, IS 398 (Part 2):1996, IS 398 (Part 4): 1994, IS 398 (Part 5): 1992, IEC 1089:1991, EN 50182:2001, BS 215 (Part 1):1970, BS 215 (Part 2):1970	10 to 50 twist
		Uniformity of Coating Test (On Galvanized Steel Wire – Dip Test/ preece test)	IS 2633:1986, IEC 888:1987, BS 215 (Part 1):1970, BS 215 (Part 2):1970, EN 50182:2001	1 to 5 Dips
		Mass of Zinc Coating On HTGS Wire	IS 6745:1972, IEC 888:1987, BS 215 (Part 1):1970, BS 215 (Part 2):1970, EN 50182:2001, ASTM B 711:2005, ASTM B232:2010	100 to 450 gm/m ²
		Resistance and Resistivity	IS 398 (Part 1):1996, IS 398 (Part 2):1996, IS 398 (Part 4): 1994, IS 398 (Part 5): 1992, IEC 1089:1991, EN 50182:2001, ASTM B-711:2005	Upto 200 mΩ