



Hangzhou Easy Electric Wire and Cable Co.,LTD

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TEST REPORT

Products		AAC 91x4.21		Size		2212057	
NO.	Item	UNIT	Standards and Requirements		Test Results	Evaluation	
1	Structure						
	Number of aluminum single wires	root	91		91	√	
	Number of steel single wires	root	-		-	-	
	Aluminum single wire diameter	mm	4.21±0.04		4.21 4.212	√	
	Diameter of steel single wire	mm	-		-	-	
	Conductor OD	mm	46.3		46.34	√	
2	Pitch diameter ratio						
	Outermost layer (AL)	times	10~14		11.32	√	
	Secondary outer layer (AL)	times	10~16		12.48	√	
	Inner layer (AL)	times	10~16		13.21	√	
		times	10~16		14.58	√	
3	Twist direction		The outermost twist direction should be right		pass	√	
			The stranding direction of adjacent layers shall be opposite		pass	√	
4	appearance		The surface of the strand shall be free of visible defects, such as obvious scratches, indentations, etc., and shall not have any defects that are not commensurate with the good goods.		pass	√	
5	Properties of AL wire						
	20°C Max D.C Resistance	nΩ.m	≅ 28.172		27.258	√	
	Minimum tensile strength (before stranding)	Mpa	≅ 165		172 175	√	
	Elongation at break of 250mm	%	≅ 2.0		2.5	√	
	Winding test		The aluminum wire shall be tightly wound at 1D core at a speed of no more than 60r/min, and the aluminum wire shall not be broken		pass	√	
6	Steel wire properties						
	Minimum tensile strength (before stranding)	Mpa	-		-	-	
	1% elongation stress	Mpa	-		-	-	
	Zinc coating	g/m ²	-		-	-	
	Elongation of 250mm gauge length	%	-		-	-	
	Winding test		-		-	-	
7	Oiled weight	kg/km	-		-	-	
	Oiling - except for the outer single line, the inner layer is fully oiled		-		-	-	
	Oil drop point	°C	-		-	-	
8	Overall performance						
	Weight per unit length	kg/km	≅ 3519		3519	√	
	Breaking load	kn	≅ 186		192	√	
	20 °C DC resistance	Ω/km	≤ 0.0229		0.02206	√	

Note: "√" means that the project is qualified "×" Indicates that the item is unqualified "-" indicates that the item does not require testing

Conclusion: The tested test items meet the requirements of the technical agreement and are qualified.

Tested by Feng Mei Zhang

Checked by Mei Shuai Liu

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