Hangzhou Easy Electric Wire and Cable Co.,LTD
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TEST REPORT

Model specification	ACAR 30*4.227+7*4.227	Inspection number	2302047

NO.	Inspection Item	Unit	Standard Requirement	Test Result	Determi
1	Structure size				
	Number of aluminum single wires	Root	30	30	√
	Number of aluminum alloy	Root	7	7	√
	Aluminum single wire diameter	mm	4.227	4.229 4.225 4.227	√
	Aluminum alloy single wire diameter	mm	4.227	4.224 4.228 4.226	√
	Wire outer diameter	mm	29.59	29.61	√
2	aspect ratio				
	Outermost layer (aluminum	Times	10-16	11.93	√
	Middle Layer	Times	10-16	13.24	-
	Inner layer (alloy)	Times	10-16	15.02	√
3	*Twist*		The outermost twist should be right-hand	Pass	√
			Adjacent layers should be twisted in the opposite direction	Pass	√
4	Appearance		There should be no visible defects on the surface of the stranded wire, such as obvious scratches, indentations, etc., and there should be no defects that are not commensurate with good products.	Pass	√
5	Aluminum wire properties				
	20℃ single-line DC resistance	nΩ•m	≦28.264	27.868	√
	Minimum tensile strength	Mpa	≧152	168 159 165	√
	250mm elongation at break	%	≧1.9	2.5	
	Winding test		At a speed not exceeding 60r/min, wind 8 turns on the 1D core, back 6 turns, and then tightly wind 8 turns. The duralumin wire should not break.	Pass	√
6	Properties of Alloy Wire				
	20℃ single-line DC resistance	nΩ•m	≦32.841	31.854	√
	Minimum tensile strength	Mpa	≧305	319 324 327	√
	250mm elongation at break	%	≧3	4.4	√
	Winding test		Wind the 1D core tightly for 8 turns at a speed not exceeding 60r/min, and the alloy wire should not break.	Pass	√
7	Overall performance				
	Weight per unit length	kg/km	1431	1431	√
	Breaking load	kN	≧93	96.72	√
	DC resistance at 20°C	Ω/km	≤0.0570	0.0561	√

Note: "√" indicates that the item is qualified "×" indicates that the item is not qualified "—" indicates that the item does not require testing

Conclusion: The tested test items meet the requirements of ASTM B524 and pass the inspection.

Inspector: Zhang Fengmei Reviewer: Liu Meishuai Date： 2023.2.27