



Hangzhou Easy Electric Wire and Cable Co.,LTD

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www.eescable.com

Inspection Report

Model	ACSR 30*3.2+7*3.2		Number	2209015	
NO.	Test items	unit	standard requirement	test result	single judgment
1	structure size				
	Number of aluminum single wires	root	30	30	√
	Number of steel single wires	root	7	7	√
	Aluminum single wire diameter	mm	3.2+ $\sqrt{-0.03}$	3.205 3.207 3.203	√
	Steel single wire diameter	mm	3.2+ $\sqrt{-0.05}$	3.209 3.205 3.201	√
	Wire outer diameter	mm	22.4	22.25	√
2	Pitch ratio				
	outermost layer (aluminum)	times	10-13	11.02	√
	Proximal outer layer (aluminum)	times	10-16	12.91	√
	inner layer (aluminum)	times	10-16	14.23	√
	inner layer (steel)	times	16-26	18.55	√
3	twist		The outermost layer should be twisted to the right	pass	√
			Adjacent layers should be twisted in opposite directions	pass	√
4	Exterior		The surface of the stranded wire shall not have visible defects, such as obvious scratches, indentations, etc., and shall not have any defects that are disproportionate to good goods.	pass	√
5	Aluminum wire performance				
	20° C single wire DC resistance	n Ω • m	≦27.889	26.892	√
	Tensile strength before	Mpa	60-95	72 69 81	√
	winding test		At a speed not exceeding 60r/min, the 1D core is wound for 8 turns, backed up by 6 turns, and then tightly wound for 8 turns. The duralumin wire should not break.	pass	√

6	Steel wire properties				√
	Minimum tensile strength	Mpa	1410	1582	√
	1% Elongation Stress	Mpa	1240	1305	√
	250mm gauge length elongation	%	≧4	4.5	√
	Zinc coating	g/m ²		-	√
	winding test		The galvanized steel wire is tightly wound on the mandrel (1 times the diameter of the conductor) for 8 turns at a speed not exceeding 15r/min, and the galvanized steel wire does not break	pass	√
7	Oiled weight	kg/km	-	-	-
	Oiled - except for the single line of the outer layer, the inner layer is fully oiled		-	-	-
	oil drop point	°C	-	-	-
8	Overall performance				
	Weight per unit length	kg/km	1110	1110	√
	breaking load	kN	93.41	97.13	√
	20°C DC resistance	Ω/km	≦0.1147	0.1092	√
Note: "√" means that the item is qualified "×" means that the item is unqualified "-" means that the item does not require testing					
Conclusion: The tested test items meet the requirements of the technical agreement and pass the inspection.					
Inspectors: Fengmei Zhang		audit: Meishuai Liu		Date: 2022.9.9	

杭州益睿电线电缆有限公司
HANGZHOU EASY ELECTRIC WIRE AND CABLE CO., LTD.