



Hangzhou Easy Electric Wire and Cable Co.,LTD

Add: Room 305, Building 2, No. 380 Fengxin Road, Hangzhou, China

[www.eescable.com](http://www.eescable.com)

## TEST REPORT

Products	ACSR    Penguin		Size	4/0AWG    6+1*4.77	
Standard	ASTM   B232   -01	Invoice No.	20230102002	Date	2023.01.02
NO.	Item	Standards and Requirements		Test Results	Evaluation
1	Structure				
1-1	Number Of AL Wire	6		6	Qualified
1-2	Number Of Steel Wire	1		1	Qualified
1-3	Diameter Of Conductor	14.31mm+0.15		14.32	Qualified
1-4	20℃   Max D.C Resistance	≤0.2667 Ω /km		0.2642	Qualified
1-5	The direction of outer layer	Right- handed		Right- handed	Qualified
1-6	Calculated breaking load	≥37.16KN		37.89	Qualified
1-7	Weight of the finished cable without grease	433±8.7Kg/km		435	Qualified
1-8	Grease	IEC Case 3		IEC Case 3	Qualified
2	Surface Of Conductor				
2-1	Surface Quality	The Surface Shall Be Smooth, Stranded Compactly, No Missing, Broken, Jumping or Loosing Strands.		Smooth, Compact	Qualified
3	Aluminum Wire Properties				
3-1	Material	Hard drawn aluminum wire		Hard drawn aluminum wire	Qualified
3-2	Diameter Of AL Wire	4.77mm±0.048		6/4.77	Qualified
3-3	Min. Tensile Strength	165N/mm2		175	Qualified
3-4	Resistivity at 20℃	≤0. 028172		0.028139	Qualified

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3-5	Elongation in 10 in	2.1%	2.5%	Qualified
4	Steel Wire Properties			
4-1	Diameter Of Steel Wire	4.77mm(-0.08,+0.10)	4.77	Qualified
4-2	Min. Tensile Strength	1380N/mm <sup>2</sup>	1410	Qualified
4-3	Min.stress at 1% elongation	≥1170N/mm <sup>2</sup>	1220	Qualified
4-4	Elongation	≥4%	4.5%	Qualified
4-5	Weight of zinc coating	≥300g/m <sup>2</sup>	370	Qualified

Tested by: Shaoqiong He

Checked by: Guohui Xu

**杭州益睿电线电缆有限公司**  
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