



中国认可
国际互认
检测
TESTING
CNAS L0207

报告编号
Reference No

CT25-01381

检测报告

Test Report

样品名称 Name of sample	钢芯铝绞线 Aluminum Conductor Steel Reinforced
样品型号 Type of sample	ACSR
委托方 Consigner	郑州锦水实业有限公司 Zhengzhou Jinshui Industry And Commerce Co., Ltd.
试验类型 Kind of test	委托试验 Commission test

上海国缆检测股份有限公司
SHANGHAI NATIONAL CENTER OF TESTING AND INSPECTION
FOR ELECTRIC CABLE AND WIRE CO.,LTD

国家电线电缆质量检验检测中心
CHINA NATIONAL CENTRE OF TESTING AND INSPECTION
FOR ELECTRIC CABLE AND WIRE



地址：上海市宝山区真陈路888号 邮编：200444
电话：021-65493333 传真：021-65490171
电子邮箱：ewec@ticw.com.cn
报告查询网站：www.ticw.com.cn

上海国缆检测股份有限公司
国家电线电缆质量检验检测中心
检测报告

Shanghai National Center of Testing and Inspection for Electric Cable and Wire Co.,Ltd
China National Centre of Testing and Inspection for Electric Cable and Wire
Test Report

共 4 页 第 1 页
Page 1 of 4

试验类型 Kind of test		委托试验 Commission test		报告编号 Reference No.		CT25-01381	
样品名称 Name of sample		钢芯铝绞线 Aluminum Conductor Steel Reinforced					
型号规格 Type and Size		ACSR 336.4MCM (Linnet)		检测日期 Date of test		2025-04-17 ~ 2025-05-15	
委托方 Consigner	名称 Name	郑州锦水实业有限公司 Zhengzhou Jinshui Industry And Commerce Co., Ltd.					
	地址 Address	郑州市高新技术产业开发区石楠路56号金兰西景苑1号楼2单元20楼 20F, 2 Unit, Building 1, Jinlanxijing Yuan, No.56 Shinan Road, High-New Zone, Zhengzhou, China					
	电话号码 Tel.	0371-6505 9867	邮政编码 P.C.	450001	单位编号 Unit No.	450214	
生产单位 Manufacturer	名称 Name	郑州锦水实业有限公司 Zhengzhou Jinshui Industry And Commerce Co., Ltd.					
	地址 Address	郑州市高新技术产业开发区石楠路56号金兰西景苑1号楼2单元20楼 20F, 2 Unit, Building 1, Jinlanxijing Yuan, No.56 Shinan Road, High-New Zone, Zhengzhou, China					
	电话号码 Tel.	0371-6505 9867	邮政编码 P.C.	450001	单位编号 Unit No.	450214	
来样方式 Delivering mode		送样 Supplied by	接收状态 Sample state at receiving	正常 Normal	收样日期 Receiving date	2025-04-08	
检测依据 Test standard		ASTM B232/B232M-22 同心绞钢芯铝绞线标准规范(ACSR) ASTM B232/B232M-22 Standard Specification for Concentric-Lay-Stranded Aluminum Conductors, Coated Steel Reinforced (ACSR)					
判定依据 Verdict standard		ASTM B232/B232M-24 同心绞钢芯铝绞线标准规范(ACSR) ASTM B232/B232M-24 Standard Specification for Concentric-Lay-Stranded Aluminum Conductors, Coated Steel Reinforced (ACSR)					
检测结论 Conclusion		该样品“绞线单位长度质量”和“绞线 20°C直流电阻”提供检测结果,其余所测项目符合 ASTM B232/B232M-24 标准要求。 “Mass per unit length of the conductor” and “DC resistance at 20°C of the conductor” are provided with test results, and other items tested for the sample comply with the requirements of ASTM B232/B232M-24.					
备注 Note		样品名称及型号规格由委托方提供并负责,委托方要求按照ASTM B232/B232M-24标准中 ACSR/GA2的要求进行判定。 The consigner supplied name, type and size of the sample and is responsible for them, and requested to verdict according to the requirements of ACSR/GA2 in ASTM B232/B232M-24.					
主检 Tested by	徐睿 Xu Rui	审核 Checked by	吴旻 Wu Min	批准 Approved by	王煦 Wang Xu		
日期 Date	2025.05.15	日期 Date	2025.5.15	日期 Date	2025.05.16		

型号和规格 Type and size		ACSR 336.4MCM (Linnet)		报告编号 Reference No.	CT25-01381	
序号 No.	检测项目 Test Items	单位 Unit	技术要求 Requirements	检测结果 Test Results	单项评定 Verdict	
1	结构 Structure					
1.1	铝线根数 Number of Al wires	根 No.	26	26	P	
1.2	钢线根数 Number of steel wires	根 No.	7	7	P	
2	绞线直径 Diameter of conductor	mm	18.29±0.18	18.45	P	
3	铝截面积 Cross-sectional area of Aluminum	mm ²	≥167.0 (170.5×0.98)	172.8	P	
4	表面质量 Appearance		表面应光洁，并不得有与良好商品不相称的任何缺陷。 The conductor shall be clean and free of imperfections not consistent with good commercial practice.	通过 Pass	P	
5	绞制 Lay					
5.1	绞向 Direction of lay		相邻层绞向应相反，最外层绞向应向右。 Adjacent wire layers shall be stranded with reverse lay directions, the direction of lay of the external layer shall be "right-hand".	相反，右向 Reverse, "right-hand"	P	
5.2	均匀紧密性 Inertness		每层单线应均匀、紧密地绞合在下层中心线芯或内绞层上。当切断时，各线端应保持在原位或容易用手复位。 The wires in each layer shall be evenly and closely stranded around the underlying wire or wires; where the core is cut, the wires shall remain in position or be readily replaced by hand and then remain approximately in position.	均匀紧密，未松散。 Evenly and Closely.	P	
5.3	节径比 Lay ratio		任何层的节径比应不大于紧邻内层的节径比。 Lay ratio of every layer shall not greater than the lay ratio of the layer immediately beneath it.	通过 Pass	P	
5.3.1	钢芯 Steel core layer		16~26	18.0	P	
5.3.2	铝线 Al wires layer					
5.3.2.1	内层 Inner layer		10~16	14.5	P	

注：“单项评定”符号含义：P：检测结果符合要求；F：检测结果不符合要求；N：检测结果不要求判定。

Note: "P" means this item does meet the requirement, "F" means this item does not meet the requirement, "N" means this item does not require to the verdict.

型号和规格 Type and size		ACSR 336.4MCM (Linnet)		报告编号 Reference No.	CT25-01381	
序号 No.	检测项目 Test Items	单位 Unit	技术要求 Requirements	检测结果 Test Results	单项评定 Verdict	
5.3.2.2	外层 Outer layer		10~13	11.3	P	
6	钢线性能 (绞后) Properties of steel wires (stranded)					
6.1	直径 Diameter	mm	2.25±0.051	2.248	P	
6.2	抗拉强度 Tensile strength	MPa	≥1378 (1450×0.95)	1543	P	
6.3	1%伸长时的应力 Stress at 1% extension	MPa	≥1310	1372	P	
6.4	断后伸长率 (L ₀ =250mm) Elongation after fracture (L ₀ =250 mm)	%	≥3.0	4.4	P	
6.5	卷绕 (2d, 8 圈) Wrapping (2d, 8turns)		不断裂 No fracture shall occur	未断裂 No fracture occurred	P	
6.6	镀锌层 Zinc coating					
6.6.1	锌层重量 Mass of zinc coating	g/m ²	≥214	283	P	
6.6.2	锌层附着性 (3d) Adherence of zinc coating (3d)		镀锌层应不开裂, 或用手指摩 擦锌层不会产生脱落的起皮。 The wire shall be wrapped without cracking or flaking the zinc coating to such an extent that any zinc can be removed by rubbing with the bare fingers.	未开裂, 未起皮。 No cracking, no flaking.	P	
7	铝线性能 (绞后) Properties of Al wires (stranded)					
7.1	直径 Diameter	mm	2.89±0.030	2.909	P	
7.2	抗拉强度 Tensile strength					
7.2.1	平均值 Average for a Lot	MPa	≥166 (175×0.95)	170	P	
7.2.2	最小值 Individual tests	MPa	≥157 (165×0.95)	164	P	
7.3	20℃时直流电阻率 DC resistivity at 20℃					
7.3.1	平均值 Average for a Lot	Ω·mm ² /m	≤0.028172	0.028103	P	
7.3.2	最大值 Individual tests	Ω·mm ² /m	≤0.028265	0.028126	P	

注：“单项评定”符号含义：P：检测结果符合要求；F：检测结果不符合要求；N：检测结果不要求判定。

Note: “P” means this item does meet the requirement, “F” means this item does not meet the requirement, “N” means this item does not require to the verdict.

型号和规格 Type and size		ACSR 336.4MCM (Linnet)		报告编号 Reference No.	CT25-01381	
序号 No.	检测项目 Test Items	单位 Unit	技术要求 Requirements	检测结果 Test Results	单项评定 Verdict	
7.4	卷绕 (1d, 6 圈) Wrapping (1d, 6 turns)		不断裂 No fracture shall occur.	未断裂 No fracture occurred.	P	
8	绞线单位长度质量 Mass per unit length of the conductor	kg/km	/	692.2	N	
9	绞线 20°C 直流电阻 DC resistance at 20°C of the conductor	Ω/km	/	0.1511	N	
			以下空白 End of report			

注：“单项评定”符号含义：P：检测结果符合要求；F：检测结果不符合要求；N：检测结果不要求判定。

Note: “P” means this item does meet the requirement, “F” means this item does not meet the requirement, “N” means this item does not require to the verdict.