



TEST REPORT

Product name: ACSR Batch

Quantity: 1 piece

Specification Model: ACSR 4AWG

Batch Quantity: 5000m

No: PUO.20230321002

Date of report: April 15, 2023

| No | Test items | Unit | Standard requirement | Inspection result |
|-----|--------------------------------------|-------------------|---|---------------------|
| 1 | Structure size | | | |
| 1.1 | root count Aluminum wire diameter | root mm | 6 2.12±0.02mm | 6 2.12 2.11 2.11 |
| 1.2 | Aluminum wire twisted | | right | right |
| 1.3 | pitch ratio of aluminum wire | times | 10-14 | 13.1 |
| 1.4 | root count Steel wire diameter | root mm | 1 2.12±0.02mm | 1 2.11 2.11 2.10 |
| 1.5 | Strand direction of steel wire | | / | / |
| 1.6 | steel wire pitch ratio times | times | / | / |
| 2 | inear density | Kg/Km | / | / |
| 3 | Workmanship quality | | Smooth and clean Tightly twisted | accord |
| 4 | Aluminum wire properties | | | |
| 4.1 | The average tensile strength | MPa | The average tensile strength170 | 187 |
| 4.2 | Winding test | | 1d 8 turns forward and 6 turns reversed, rewinding without breakage | PASS |
| 4.3 | Conductor DC resistance(20℃) | Ω/km | not greater than1.3501Ω/km | 1.3217 |
| 5 | Steel wire properties | | | |
| 5.1 | Tensile strength | N/mm ² | not less than1410 | 1544 |
| 5.2 | Stress at 1% elongation | N/mm ² | Not less than 1280 | 1306 |
| 5.3 | Elongation | % | Not less than 3.5% | 5.2 |
| 5.4 | winding test | | (1d, 8 circles) no break | PASS |
| 5.5 | Zinc layer weight test | g/m ² | 220 | 244 |
| 5.6 | Zinc layer adhesion test | | No cracks, no falling off | accord |
| 6 | Breaking force | KN | Not less than 8.30 | 9.12 |
| 7 | Stranded wire outer diameter | mm | 6.36 | 6.36 |

Conclusion: After inspection, the above items are in line with the standard requirements of the technical agreement.

Inspection: Zhang Xuedian

Reviewer: Zhao Youyou

Approval: Wang Aihong