



TEST REPORT

Product name: ACSR Batch

Quantity: 1 piece

Specification Model: ACSR 4.77/6+4.77/1

Batch Quantity: 1500m

No: PUO.20230321002

Date of report: April 11, 2023

| No | Test items | Unit | standard requirement | Inspection result |
|-----|--------------------------------------|-------------------|---|----------------------|
| 1 | structure size | | | |
| 1.1 | The number of Aluminum wire diameter | root mm | 6 4.77±0.03mm | 6 4.76 4.76 4.755 |
| 1.2 | Aluminum wire twist | | right | right |
| 1.3 | Aluminum pitch ratio | times | 12-14.5 | 13.3 |
| 1.4 | The number of Wire diameter | root mm | 1 4.77±0.05mm | 1 4.75 4.76 4.77 |
| 1.5 | Strand direction | | / | / |
| 1.6 | Steel wire pitch ratio | times | / | / |
| 2 | Theoretical kilometer weight | Kg/Km | / | / |
| 3 | Workmanship quality | | Bright and clean. Twisted tightly | accord |
| 4 | Aluminum wire properties | | | |
| 4.1 | Tensile strength (before stranding) | MPa | Average not less than160 | 180 |
| 4.2 | winding experiment | | 1d, 8 turns, 6 turns, rewinding without breaking | PASS |
| 4.3 | Conductor DC Resistance (20℃) | Ω/km | Not more than0.2667Ω/km | 0.2452 |
| 5 | Steel wire properties | | | |
| 5.1 | tensile strength | N/mm ² | Not less than1380 | 1465 |
| 5.2 | Stress at 1% elongation | N/mm ² | Not less than1170 | 1210 |
| 5.3 | Elongation | % | Not less than3.5% | 4.4 |
| 5.4 | winding test | | 1d, 8 turns, 6 turns, rewinding without breaking | PASS |
| 5.5 | Zinc layer weight test | g/m ² | 305 | 316 |
| 5.6 | Zinc layer adhesion test | | No cracks, no falling off | accord |
| 6 | Stranded wire outer diameter | mm | 14.31 | 14.32 |

Conclusion: After inspection, the above items all meet the standard requirements of the technical agreement.

Inspection: Zhang Xuedian

Reviewer: Zhao Youyou

Approval: Wang Aihong

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