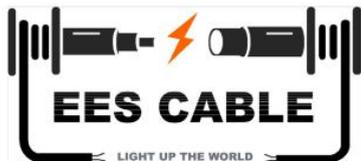


TEST REPORT

| Products | ACSR Penguin | | Size | 4/0AWG | |
|----------|--|--|-------------|-----------------|------------|
| Standard | ASTM B232 | Invoice No. | 20230518009 | Date | 2023.05.18 |
| 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°C Max D.C Resistance | ≤0.2667 Ω /km | | 0.2645 | Qualified |
| 1-5 | Calculated breaking load | 37.16KN | | 39.18 | Qualified |
| 1-6 | Weight of the finished cable without greas | 433±8.7Kg/km | | 434.4 | 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 | Structure Performance | | | | |
| 3-1 | Outer Stranding Direction Of Conductor | Rightward | | Rightward | Qualified |
| 3-2 | Lay Ratio Of Conductor | 12-14 | | 13.1 | Qualified |
| 3-3 | Grease | IEC Case 3 | | IEC Case 3 | Qualified |
| 4 | Aluminum Wire Properties | | | | |
| 4-1 | Diameter Of AL Wire | 4.77mm±0.048 | | 4.77 | Qualified |



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| | | | | |
|-----|------------------------|---|-----------|-----------|
| 4-2 | Min. Tensile Strength | 160N | 178 | Qualified |
| 4-3 | Resistivity at 20°C | ≤ 0.028172 | 0.027564 | Qualified |
| 4-4 | Wrapping Test | The wire shall be wrapped around 8 times the diameter of the wire, from a close helix 6 turns, wire shall not crack | Not crack | Qualified |
| 5 | Steel Wire Properties | | | |
| 5-1 | Diameter Of Steel Wire | 4.77mm(+0.1,-0.08) | 4.77 | Qualified |
| 5-2 | Min. Tensile Strength | 1380N | 1430 | Qualified |
| 5-3 | Mass of Zinc Coating | ≥ 300 g/mm ² | 330 | Qualified |
| 5-4 | Elongation(250mm) | $\geq 4\%$ | 7% | Qualified |

Tested by: Shaoqiong He

Checked by: Guohui Xu

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