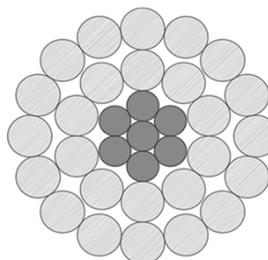


TECHNICAL DATA SHEET

CONDUCTOR: 136-AL1/ 22-ST1A
Description: ACSR 160 - Partridge



MECHANICAL AND ELECTRICAL PROPERTIES

| PARAMETER | | VALUE |
|--|--------------------|-----------|
| Cross section (mm ²) | Aluminium | 135.9 |
| | Galvanized Steel | 22.0 |
| | Complete conductor | 157.9 |
| Diameter (mm) | Aluminium | 2.58 |
| | Galvanized Steel | 2.00 |
| Wires number | Aluminium | 26 |
| | Galvanized Steel | 7 |
| Lay direction | External layer | 'Z'-Right |
| Conductor Diameter (mm) | Total | 16.32 |
| Weight (kg/km) ** | Aluminium | 375.4 |
| | Galvanized Steel | 172.0 |
| | Complete conductor | 551.8 |
| Ultimate Tensile Strength (kN) | Complete conductor | 48.84 |
| DC Electrical resistance (20°C) cc (Ω/km) | Complete conductor | 0.2125 |
| Coefficient of linear expansion (x 10 ⁽⁻⁶⁾ /°C) | Complete conductor | 18.9 |
| Final Modulus of Elasticity (N/mm ²) | Complete conductor | 73800 |
| Ampacity (A)* | Complete conductor | 443.1 |

According to Standards: EN 50182 DMA-C34-120/N - EN 60889 - EN 50189

* Air Temp.: 35 °C; Conductor Temp.: 80 °C; Wind Speed: 0.61 m/s; Solar radiation: 1035 W/m²

** Greased conductor. Case 1; nominal grease weight (kg/km): 4.4

| REV. | Date | Performed: |
|------|------------|---|
| 2 | 2020-06-27 | CUNEXT COPPER INDUSTRIES, SL. Quality Department |