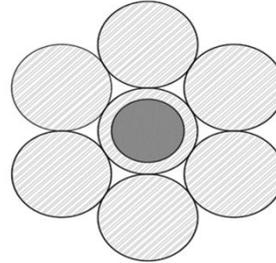


TECHNICAL DATA SHEET

CONDUCTOR: 107-AL1/ 18-A20SA
Description: LARL 125 PENGUIN



MECHANICAL AND ELECTRICAL PROPERTIES

PARAMETER		VALUE
Cross section (mm ²)	Aluminium	107.2
	Aluminium clad-steel	17.9
	Complete conductor	125.1
Diameter (mm)	Aluminium	4.77
	Aluminium clad-steel	4.77
Wires number	Aluminium	6
	Aluminium clad-steel	1
Lay direction	External layer	'Z'-Right
Conductor Diameter (mm)	Total	14.3
Weight (kg/km)	Aluminium	293.8
	Aluminium clad-steel	117.8
	Complete conductor	411.6
Ultimate Tensile Strength (kN)	Complete conductor	35.03
DC Electrical resistance (20°C) cc (Ω/km)	Complete conductor	0.2530
Coefficient of linear expansion (x 10 ⁽⁻⁶⁾ /°C)	Complete conductor	19.5
Final Modulus of Elasticity (N/mm ²)	Complete conductor	70286
Ampacity (A)*	Complete conductor	393.4

According to Standards: UNE-EN 50182 - UNE-EN 60889 - UNE-EN 61232

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

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