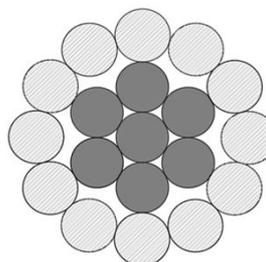


TECHNICAL DATA SHEET

CONDUCTOR: 80-AL1/ 47-ST1A
Description: ACSR 130 - Guinea



MECHANICAL AND ELECTRICAL PROPERTIES

PARAMETER		VALUE
Cross section (mm ²)	Aluminium	80.4
	Galvanized Steel	46.9
	Complete conductor	127.2
Diameter (mm)	Aluminium	2.92
	Galvanized Steel	2.92
Wires number	Aluminium	12
	Galvanized Steel	7
Lay direction	External layer	'Z'-Right
Conductor Diameter (mm)	Total	14.60
Weight (kg/km) **	Aluminium	221.9
	Galvanized Steel	366.6
	Complete conductor	597.8
Ultimate Tensile Strength (kN)	Complete conductor	67.10
DC Electrical resistance (20°C) cc (Ω/km)	Complete conductor	0.3594
Coefficient of linear expansion (x 10 ⁽⁻⁶⁾ /°C)	Complete conductor	15.3
Final Modulus of Elasticity (N/mm ²)	Complete conductor	104737
Ampacity (A)*	Complete conductor	331.7

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): 9.3

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