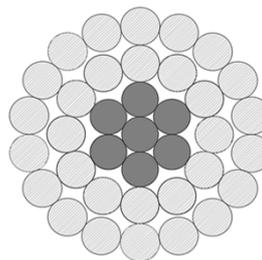


TECHNICAL DATA SHEET

CONDUCTOR: 147-AL1/ 34-ST1A

Description: LA 180



MECHANICAL AND ELECTRICAL PROPERTIES

PARAMETER		VALUE
Cross section (mm ²)	Aluminium	147.3
	Galvanized Steel	34.4
	Complete conductor	181.6
Diameter (mm)	Aluminium	2.50
	Galvanized Steel	2.50
Wires number	Aluminium	30
	Galvanized Steel	7
Lay direction	External layer	'Z'-Right
Conductor Diameter (mm)	Total	17.50
Weight (kg/km)	Aluminium	407.0
	Galvanized Steel	268.7
	Complete conductor	675.8
Ultimate Tensile Strength (kN)	Complete conductor	64.94
DC Electrical resistance (20°C) cc (Ω/km)	Complete conductor	0.1963
Coefficient of linear expansion (x 10 ⁽⁻⁶⁾ /°C)	Complete conductor	17.9
Final Modulus of Elasticity (N/mm ²)	Complete conductor	80541
Ampacity (A)*	Complete conductor	468.8

According to Standards: EN-50182 - EN-60889 - EN-50189

* 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, SL. Quality Department