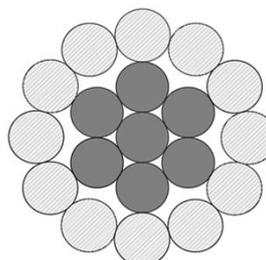


## TECHNICAL DATA SHEET

**CONDUCTOR:** 59-AL1/ 34-ST1A

**Description:** LA 93,3



**MECHANICAL AND ELECTRICAL PROPERTIES**

PARAMETER		VALUE
Cross section (mm <sup>2</sup> )	Aluminium	58.9
	Galvanized Steel	34.4
	Complete conductor	93.3
Diameter (mm)	Aluminium	2.50
	Galvanized Steel	2.50
Wires number	Aluminium	12
	Galvanized Steel	7
Lay direction	External layer	'Z'-Right
Conductor Diameter (mm)	Total	12.50
Weight (kg/km)	Aluminium	162.7
	Galvanized Steel	268.7
	Complete conductor	431.4
Ultimate Tensile Strength (kN)	Complete conductor	49.48
DC Electrical resistance (20°C) cc (Ω/km)	Complete conductor	0.4902
Coefficient of linear expansion (x 10 <sup>(-6)</sup> /°C)	Complete conductor	15.3
Final Modulus of Elasticity (N/mm <sup>2</sup> )	Complete conductor	104737
Ampacity (A)*	Complete conductor	273.7

**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/m<sup>2</sup>

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