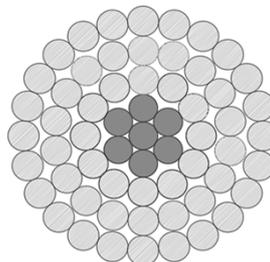


## TECHNICAL DATA SHEET

**CONDUCTOR:** 402-AL1/ 52-ST1A

**Description:** LA 455 CONDOR



**M ECHANICAL AND ELECTRICAL PROPERTIES**

PARAMETER		VALUE
Cross section (mm <sup>2</sup> )	Aluminium	402.3
	Galvanized Steel	52.2
	Complete conductor	454.5
Diameter (mm)	Aluminium	3.08
	Galvanized Steel	3.08
Wires number	Aluminium	54
	Galvanized Steel	7
Lay direction	External layer	'Z'-Right
Conductor Diameter (mm)	Total	27.72
Weight (kg/km)	Aluminium	1112.6
	Galvanized Steel	407.9
	Complete conductor	1520.5
Ultimate Tensile Strength (kN)	Complete conductor	123.75
DC Electrical resistance (20°C) cc (Ω/km)	Complete conductor	0.0719
Coefficient of linear expansion (x 10 <sup>(-6)</sup> /°C)	Complete conductor	19.4
Final Modulus of Elasticity (N/mm <sup>2</sup> )	Complete conductor	70492
Ampacity (A)*	Complete conductor	866.2

**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