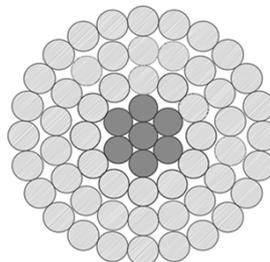


TECHNICAL DATA SHEET

CONDUCTOR: 485-AL1/ 63-ST1A
Description: LA 545 CARDINAL



M ECHANICAL AND ELECTRICAL PROPERTIES

PARAMETER		VALUE
Cross section (mm ²)	Aluminium	484.5
	Galvanized Steel	62.8
	Complete conductor	547.3
Diameter (mm)	Aluminium	3.38
	Galvanized Steel	3.38
Wires number	Aluminium	54
	Galvanized Steel	7
Lay direction	External layer	'Z'-Right
Conductor Diameter (mm)	Total	30.42
Weight (kg/km)	Aluminium	1339.9
	Galvanized Steel	491.2
	Complete conductor	1831.1
Ultimate Tensile Strength (kN)	Complete conductor	149.04
DC Electrical resistance (20°C) cc (Ω/km)	Complete conductor	0.0597
Coefficient of linear expansion (x 10 ⁽⁻⁶⁾ /°C)	Complete conductor	19.4
Final Modulus of Elasticity (N/mm ²)	Complete conductor	70492
Ampacity (A)*	Complete conductor	972.5

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