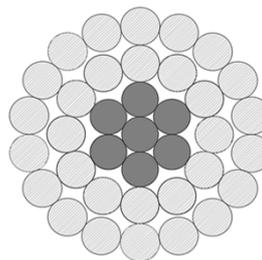


TECHNICAL DATA SHEET

CONDUCTOR: 119-AL1/ 28-ST1A

Description: LA 145



M E C H A N I C A L A N D E L E C T R I C A L P R O P E R T I E S

PARAMETER		VALUE
Cross section (mm ²)	Aluminium	119.3
	Galvanized Steel	27.8
	Complete conductor	147.1
Diameter (mm)	Aluminium	2.25
	Galvanized Steel	2.25
Wires number	Aluminium	30
	Galvanized Steel	7
Lay direction	External layer	'Z'-Right
Conductor Diameter (mm)	Total	15.75
Weight (kg/km)	Aluminium	329.7
	Galvanized Steel	217.7
	Complete conductor	547.4
Ultimate Tensile Strength (kN)	Complete conductor	54.03
DC Electrical resistance (20°C) cc (Ω/km)	Complete conductor	0.2423
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	411.4

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