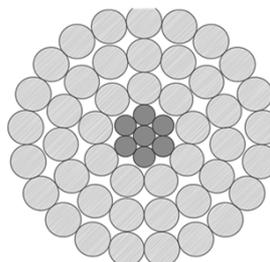


## TECHNICAL DATA SHEET

**CONDUCTOR:** 484-AL1/ 34-ST1A

**Description:** LA 517 RAIL



**M ECHANICAL AND ELECTRICAL PROPERTIES**

PARAMETER		VALUE
Cross section (mm <sup>2</sup> )	Aluminium	483.8
	Galvanized Steel	33.5
	Complete conductor	517.4
Diameter (mm)	Aluminium	3.70
	Galvanized Steel	2.47
Wires number	Aluminium	45
	Galvanized Steel	7
Lay direction	External layer	'Z'-Right
Conductor Diameter (mm)	Total	29.61
Weight (kg/km)	Aluminium	1337.0
	Galvanized Steel	262.3
	Complete conductor	1599.3
Ultimate Tensile Strength (kN)	Complete conductor	115.65
DC Electrical resistance (20°C) cc (Ω/km)	Complete conductor	0.0597
Coefficient of linear expansion (x 10 <sup>(-6)</sup> /°C)	Complete conductor	20.8
Final Modulus of Elasticity (N/mm <sup>2</sup> )	Complete conductor	63752
Ampacity (A)*	Complete conductor	965.8

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

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