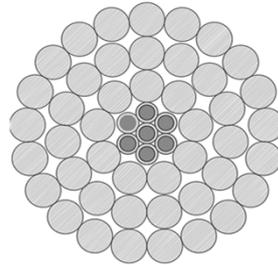


## TECHNICAL DATA SHEET

**CONDUCTOR:** 484-AL1/ 34-A20SA  
**Description:** LARL 517 RAIL



### MECHANICAL AND ELECTRICAL PROPERTIES

PARAMETER		VALUE
Cross section (mm <sup>2</sup> )	Aluminium	483.8
	Aluminium clad-steel	33.5
	Complete conductor	517.4
Diameter (mm)	Aluminium	3.70
	Aluminium clad-steel	2.47
Wires number	Aluminium	45
	Aluminium clad-steel	7
Lay direction	External layer	'Z'-Right
Conductor Diameter (mm)	Total	29.6
Weight (kg/km)	Aluminium	1337.0
	Aluminium clad-steel	222.2
	Complete conductor	1559.2
Ultimate Tensile Strength (kN)	Complete conductor	117.66
DC Electrical resistance (20°C) cc (Ω/km)	Complete conductor	0.0583
Coefficient of linear expansion (x 10 <sup>-6</sup> )/°C)	Complete conductor	21.2
Final Modulus of Elasticity (N/mm <sup>2</sup> )	Complete conductor	61937
Ampacity (A)*	Complete conductor	977.0

**According to Standards:** UNE-EN 50182 - UNE-EN 60889 - UNE-EN 61232

\* 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, S.L. Quality Department