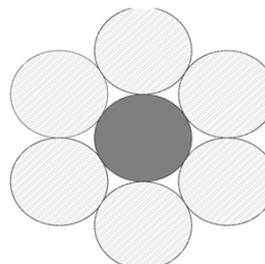


TECHNICAL DATA SHEET

CONDUCTOR: 42-AL1/ 7-ST1A
Description: ACSR 50 - Robin



MECHANICAL AND ELECTRICAL PROPERTIES

PARAMETER		VALUE
Cross section (mm ²)	Aluminium	42.4
	Galvanized Steel	7.1
	Complete conductor	49.5
Diameter (mm)	Aluminium	3.00
	Galvanized Steel	3.00
Wires number	Aluminium	6
	Galvanized Steel	1
Lay direction	External layer	'Z'-Right
Conductor Diameter (mm)	Total	9.00
Weight (kg/km) **	Aluminium	116.2
	Galvanized Steel	55.0
	Complete conductor	172.5
Ultimate Tensile Strength (kN)	Complete conductor	15.27
DC Electrical resistance (20°C) cc (Ω/km)	Complete conductor	0.6757
Coefficient of linear expansion (x 10 ⁽⁻⁶⁾ /°C)	Complete conductor	18.6
Final Modulus of Elasticity (N/mm ²)	Complete conductor	76714
Ampacity (A)*	Complete conductor	215.7

According to Standards: EN 50182 DMA-C34-120/N - EN 60889 - EN 50189

* Air Temp.: 35 °C; Conductor Temp.: 80 °C; Wind Speed: 0.61 m/s; Solar radiation: 1035 W/m²

** Greased conductor. Case 4; nominal grease weight (kg/km): 1.3

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