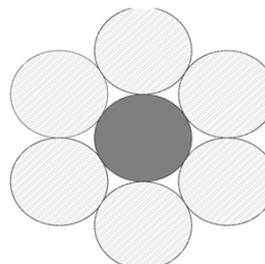


## TECHNICAL DATA SHEET

**CONDUCTOR:** 75-AL1/ 13-ST1A  
**Description:** ACSR 90 - Beaver



**MECHANICAL AND ELECTRICAL PROPERTIES**

PARAMETER		VALUE
Cross section (mm <sup>2</sup> )	Aluminium	75.4
	Galvanized Steel	12.6
	Complete conductor	88.0
Diameter (mm)	Aluminium	4.00
	Galvanized Steel	4.00
Wires number	Aluminium	6
	Galvanized Steel	1
Lay direction	External layer	'Z'-Right
Conductor Diameter (mm)	Total	12.00
Weight (kg/km) **	Aluminium	206.6
	Galvanized Steel	97.8
	Complete conductor	306.7
Ultimate Tensile Strength (kN)	Complete conductor	25.89
DC Electrical resistance (20°C) cc (Ω/km)	Complete conductor	0.3801
Coefficient of linear expansion (x 10 <sup>(-6)</sup> /°C)	Complete conductor	18.6
Final Modulus of Elasticity (N/mm <sup>2</sup> )	Complete conductor	76714
Ampacity (A)*	Complete conductor	307.8

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

\*\* Greased conductor. Case 4; nominal grease weight (kg/km): 2.3

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