

**ICAL-CAA/RA - ALUMINIUM CONDUCTORS WITH ALUMINIUM CLAD STEEL CORE (ACSR/AW)**

ICAL-101,8-CAA/RA-PETREL

**Description**

ACSR/AW is suitable for energy transmission in urban and rural overhead lines. The CAA/RA aluminum cable is an aluminum conductor, alloy 1350 (H19 temper) stranded (class 2), concentric with an aluminum coated steel core ALUMOSTEEL, which ensures greater mechanical performance compared to bare aluminum cables and higher resistance to corrosion compared to cables with zinc plated steel core.



**Datasheet**

<b>International Code</b>	Petrel
<b>Cross Section (AWG/MCM)</b>	101,8
<b>Area</b>	
Al (mm <sup>2</sup> )	51,610
Aço (mm <sup>2</sup> )	30,100
Total (mm <sup>2</sup> )	81,710
<b>Formation</b>	
Al (fios/Ømm)	12 / 2,34
Aço (fios/Ømm)	7 / 2,34
<b>Nominal Diameter of Steel Core (mm)</b>	
<b>Nominal Diameter of Cable (mm)</b>	11,70
<b>Nominal Mass</b>	
Al (kg/km)	143
Aço (kg/km)	199
Total (kg/km)	342
<b>Breaking Load (kN / kgf)</b>	44,06
<b>Maximum Resistance to 20°C in DC (ohms/km)</b>	0,4684
<b>Modulus of Elasticity to 20°C Final (Mpa)</b>	
<b>Coef. of Linear Thermal Expansion (1/°C)</b>	
<b>Ampacity (A)</b>	
<b>Characteristics of Aluminium Wires</b>	
Seção Nominal (mm <sup>2</sup> )	
Condutividade Mínima (%IACS)	

Resistência à Tração Média - Mín. (MPa)

Along. à Ruptura Média Mín. (%)

### **Characteristics of Aluminium-Steel Wires**

Seção Nominal (mm<sup>2</sup>)

Condutividade Mínima - 20°C (%IACS)

Resistividade Máxima - 20°C (ohms.mm<sup>2</sup>/km)

Resist. à Tração Média - Mín. (MPa)

Resist. à Tração a 1% de Alongamento (MPa)

Along. à Ruptura Média Mín. (%)

### **Package**

Tipo de Bobina

Lance Nominal (m)

Massa Líq. por Bobina (kg)

Massa Bruta da Bobina com Fechamento (kg)