

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

ICAL-4-/CAA/RA-SWAN

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

International Code	Swan
Cross Section (AWG/MCM)	4
Area	
Al (mm ²)	21,180
Aço (mm ²)	3,530
Total (mm ²)	24,710
Formation	
Al (fios/Ømm)	6 x 2,12
Aço (fios/Ømm)	1 x 2,12
Nominal Diameter of Steel Core (mm)	
Nominal Diameter of Cable (mm)	6,36
Nominal Mass	
Al (kg/km)	58
Aço (kg/km)	23
Total (kg/km)	81
Breaking Load (kN / kgf)	7,95
Maximum Resistance to 20°C in DC (ohms/km)	1,2822
Modulus of Elasticity to 20°C Final (Mpa)	
Coef. of Linear Thermal Expansion (1/°C)	
Ampacity (A)	
Characteristics of Aluminium Wires	
Seção Nominal (mm ²)	
Condutividade Mínima (%IACS)	

Resistência à Tração Média - Mín. (MPa)

Along. à Ruptura Média Mín. (%)

Characteristics of Aluminium-Steel Wires

Seção Nominal (mm²)

Condutividade Mínima - 20°C (%IACS)

Resistividade Máxima - 20°C (ohms.mm²/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)