

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

ICAL-1590-0-CAA/RA-FALCON

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	Falcon
Cross Section (AWG/MCM)	1590
Area	
Al (mm ²)	806,230
Aço (mm ²)	102,430
Total (mm ²)	908,660
Formation	
Al (fios/Ømm)	54 x 4,36
Aço (fios/Ømm)	19 x 2,62
Nominal Diameter of Steel Core (mm)	
Nominal Diameter of Cable (mm)	39,26
Nominal Mass	
Al (kg/km)	2229
Aço (kg/km)	679
Total (kg/km)	2918
Breaking Load (kN / kgf)	235,90
Maximum Resistance to 20°C in DC (ohms/km)	0,0345
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)