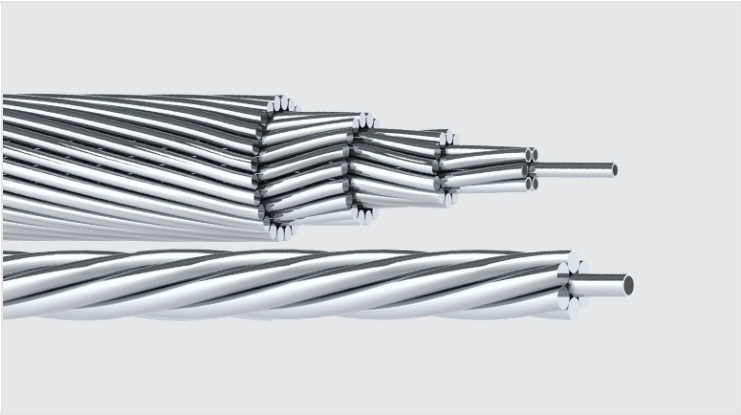


ICAL-CAA/RA - ALUMINUM CONDUCTORS WITH ALUMINUM CLAD STEEL CORE (ACSR/AW)

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

International Code	Petrel
Cross Section (AWG/MCM)	101,8
Area	
Al (mm²)	51,610
Steel (mm²)	30,100
Total (mm²)	81,710
Formation	
Al (wires/Ø)	12 / 2,34
Steel (wires/Ømm)	7 / 2,34
Nominal Diameter of Steel Core (mm)	-
Nominal Diameter of Cable (mm)	11,70
Nominal Mass	
Al (kg/km)	143,00
Steel (kg/km)	199,00
Total (kg/km)	342,00
Breaking Load (kN / kgf)	44,06
Maximum Resistance to 20°C in DC (ohms/km)	0,4684
Modulus of Elasticity to 20°C Final (Mpa)	-
Coef. of Linear Thermal Expansion (1/°C)	-
Ampacity (A)	-
Characteristics of Aluminum Wires	
Nominal Cross Section (mm²)	-
Minimum Conductivity (%IACS)	-

Average Tensile Strength - Min. (MPa)	-
Average Elongation to Breaking - Min (%)	-
Characteristics of Aluminum-Steel Wires	
Nominal Cross Section (mm ²)	-
Minimum Conductivity - 20°C (%IACS)	-
Maximum Resistivity - 20°C (ohms.mm ² /km)	-
Average Tensile Strength - Min. (MPa)	-
Tensile Strength at 1% elongation (MPa)	-
Average Elongation to Breaking - Min (%)	-
Package	
Reel Type	-
Nominal Length (m)	-
Net Weight per Reel (kg)	-
Gross Weight per Reel With Packing (kg)	-