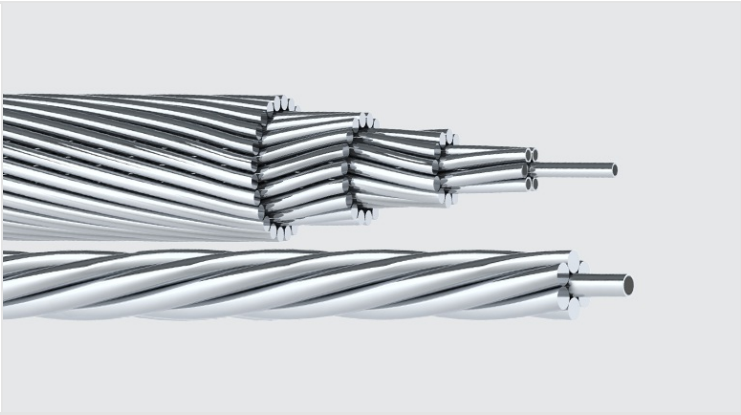


ICAL-CAA/RA - ALUMINUM CONDUCTORS WITH ALUMINUM CLAD STEEL CORE (ACSR/AW)

ICAL-556,5-CAA/RA-DOVE

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	Dove
Cross Section (AWG/MCM)	556,5
Area	
Al (mm²)	282,590
Steel (mm²)	45,920
Total (mm²)	328,510
Formation	
Al (wires/Ø)	26 x 3,72
Steel (wires/Ømm)	7 x 2,89
Nominal Diameter of Steel Core (mm)	8,67
Nominal Diameter of Cable (mm)	23,55
Nominal Mass	
Al (kg/km)	783,00
Steel (kg/km)	304,00
Total (kg/km)	1087,00
Breaking Load (kN / kgf)	97,58 / 9950
Maximum Resistance to 20°C in DC (ohms/km)	0,0971
Modulus of Elasticity to 20°C Final (Mpa)	80x10³
Coef. of Linear Thermal Expansion (1/°C)	20,61x10^-6
Ampacity (A)	867
Characteristics of Aluminum Wires	
Nominal Cross Section (mm²)	10,9
Minimum Conductivity (%IACS)	61

Average Tensile Strength - Min. (MPa)	169
Average Elongation to Breaking - Min (%)	1,9
Characteristics of Aluminum-Steel Wires	
Nominal Cross Section (mm²)	2,89
Minimum Conductivity - 20°C (%IACS)	20,3
Maximum Resistivity - 20°C (ohms.mm²/km)	84,8
Average Tensile Strength - Min. (MPa)	1344
Tensile Strength at 1% elongation (MPa)	1206
Average Elongation to Breaking - Min (%)	1,5
Package	
Reel Type	170/80
Nominal Length (m)	2100
Net Weight per Reel (kg)	2285,43
Gross Weight per Reel With Packing (kg)	2580,43