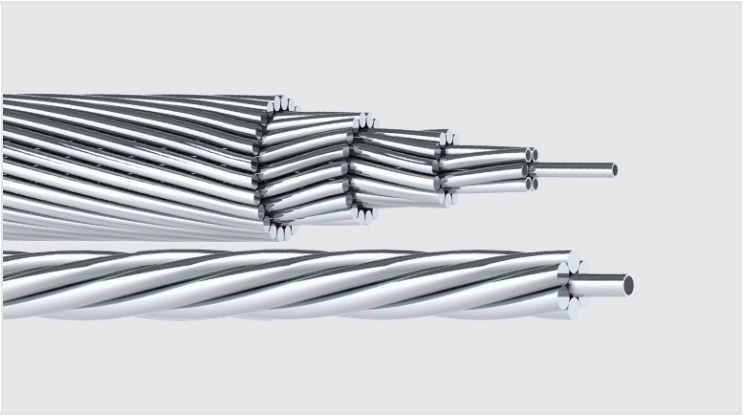
ICAL-CAA/RA - ALUMINIUM CONDUCTORS WITH ALUMINIUM CLAD STEEL CORE (ACSR/AW)

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
Aço (mm²)	45,920
Total (mm²)	328,510
Formation	
Al (fios/Ømm)	26 x 3,72
Aço (fios/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
Aço (kg/km)	304
Total (kg/km)	1087
Breaking Load (kN / kgf)	97,58 / 9950
Maximum Resistance to 20°C in DC (ohms/km)	0,0971
Modulus of Elasticity to 20ºC Final (Mpa)	80x10³
Coef. of Linear Thermal Expansion (1/°C)	20,61x10^-6
Ampacity (A)	867
Characteristics of Aluminium Wires	
Seção Nominal (mm²)	10,9
Condutividade Mínima (%IACS)	61

Resistência à Tração Média - Mín. (MPa)	169
Along. à Ruptura Média Mín. (%)	1,9
Characteristics of Aluminium-Steel Wires	
Seção Nominal (mm²)	2,89
Condutividade Mínima - 20°C (%IACS)	20,3
Resistividade Máxima - 20°C (ohms.mm²/km)	84,8
Resist. à Tração Média - Mín. (MPa)	1344
Resist. à Tração a 1% de Alongamento (MPa)	1206
Along. à Ruptura Média Mín. (%)	1,5
Package	
Tipo de Bobina	170/80
Lance Nominal (m)	2100
Massa Líq. por Bobina (kg)	2285,43
Massa Bruta da Bobina com Fechamento (kg)	2580,43