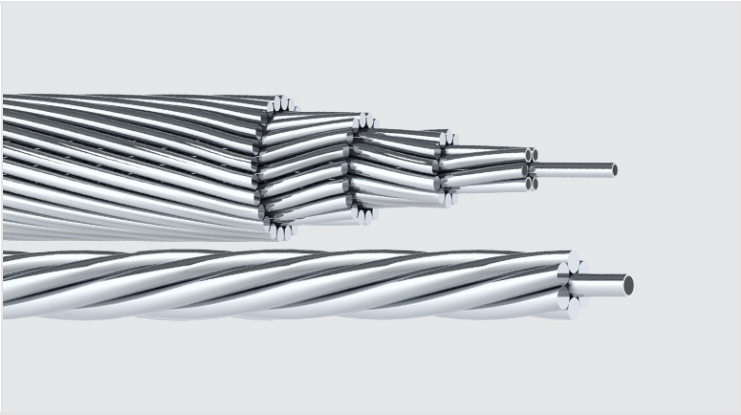


ICAL-CAA/RA - ALUMINUM CONDUCTORS WITH ALUMINUM CLAD STEEL CORE (ACSR/AW)

ICAL-795-CAA/RA-DRAKE

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	Drake
Cross Section (AWG/MCM)	795
Area	
Al (mm²)	402,840
Steel (mm²)	65,510
Total (mm²)	468,350
Formation	
Al (wires/Ø)	26 x 4,44
Steel (wires/Ømm)	7 x 3,45
Nominal Diameter of Steel Core (mm)	10,35
Nominal Diameter of Cable (mm)	28,11
Nominal Mass	
Al (kg/km)	1115,00
Steel (kg/km)	433,00
Total (kg/km)	1548,00
Breaking Load (kN / kgf)	135,4 / 13807
Maximum Resistance to 20°C in DC (ohms/km)	0,0682
Modulus of Elasticity to 20°C Final (Mpa)	80x10³
Coef. of Linear Thermal Expansion (1/°C)	20,61x10^-6
Ampacity (A)	1085
Characteristics of Aluminum Wires	
Nominal Cross Section (mm²)	15,48
Minimum Conductivity (%IACS)	61,0

Average Tensile Strength - Min. (MPa)	165
Average Elongation to Breaking - Min (%)	2,0
Characteristics of Aluminum-Steel Wires	
Nominal Cross Section (mm²)	9,35
Minimum Conductivity - 20°C (%IACS)	20,3
Maximum Resistivity - 20°C (ohms.mm²/km)	-
Average Tensile Strength - Min. (MPa)	1275
Tensile Strength at 1% elongation (MPa)	1137
Average Elongation to Breaking - Min (%)	1,5
Package	
Reel Type	170/80
Nominal Length (m)	1500
Net Weight per Reel (kg)	2322,00
Gross Weight per Reel With Packing (kg)	2617,00