

ICAL-CAA/RA - ALUMINIUM CONDUCTORS WITH ALUMINIUM 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 (mm ²)	402,840
Aço (mm ²)	65,510
Total (mm ²)	468,350
Formation	
Al (fios/Ømm)	26 x 4,44
Aço (fios/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)	1115,0
Aço (kg/km)	433,0
Total (kg/km)	1548,0
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)	80x10 ³
Coef. of Linear Thermal Expansion (1/°C)	20,61x10 ⁻⁶
Ampacity (A)	1085
Characteristics of Aluminium Wires	
Seção Nominal (mm ²)	15,48
Condutividade Mínima (%IACS)	61,0

Resistência à Tração Média - Mín. (MPa)	165
Along. à Ruptura Média Mín. (%)	2,0
Characteristics of Aluminium-Steel Wires	
Seção Nominal (mm ²)	9,35
Condutividade Mínima - 20°C (%IACS)	20,3
Resistividade Máxima - 20°C (ohms.mm ² /km)	
Resist. à Tração Média - Mín. (MPa)	1275
Resist. à Tração a 1% de Alongamento (MPa)	1137
Along. à Ruptura Média Mín. (%)	1,5
Package	
Tipo de Bobina	170/80
Lance Nominal (m)	1500
Massa Líq. por Bobina (kg)	2322,00
Massa Bruta da Bobina com Fechamento (kg)	2617,00