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ALUMOSTEEL® WIRES AND CABLES - 30%IACS

AS30-2-3F

Description

ALUMOSTEEL is a bimetallic conductor that combines the properties of steel and aluminum to form a material with the best of both metals.

Obtained from a continuous extrusion process, ALUMOSTEEL can be manufactured with different proportions between the two metals, according to the application and the demands of mechanical strength and electrical conductivity, it can vary among 13%, 20%, 27%, 30% and 40% IACS.

The 13% and 20% IACS versions, for example, are smartest choices to replace hot dip galvanized steel cables on applications such as support wire ropes, stays for towers or ACSR core (ACSR/AW).

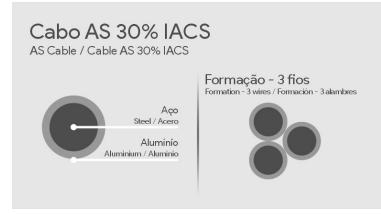
Used as phase and neutral conductors, ALUMOSTEEL are an excellent alternative for power distribution, both in phase and in neutral, and it can be dimensioned according to the utility power distribution lines requirements with the advantage of operating in a higher thermal regime than other CAA cables.

Used as grounding conductor (earth wire), the high mechanical strength and the low weight of ALUMOSTEEL cables allows its traction with minimal sags. The aluminum coating offers an excellent protection against atmospheric corrosion, while providing excellent conductivity.

Used as messenger and neutral cable of protected power distribution lines (stay wire rope), the high breaking load of ALUMOSTEEL provides the messenger cable with the strength necessary to support the weight of other conductors, while its aluminum cover ensures efficient performance as a neutral cable.

Used as wires for OPGW cable the ALUMOSTEEL are used to support OPGW (Overhead Power Ground Wire) cables, the different aluminum thickness of ALUMOSTEEL versions provides a greater flexibility of electrical and mechanical design.





Datasheet

Cádina INTELLI

Área do Alumínio (%)

Codigo INTELLI	A53U-2-3F
Nominal Cross Section (AWG/MCM)	2
Conductor Characteristics	
Qtd. De Fios	3
Diâmetro dos Fios (mm)	3,67
Diâmetro do Cabo (mm)	7,91
Seção Efetiva (mm²)	31,99
Physical Parameters	

Área do Aço (%)	58
Massa Específica (g/cm³)	5,65
Mechanical Characteristics	
Peso Nominal (kg/km)	179,00
Módulo de Elasticidade (GPa)	145
Coef. de Dilatação Linear (1/°C)	1,60 E-5
Carga de Ruptura - EHS (daN)	2529
Electrical Characteristics	
Coef. de Variação de Resistência (1/ºC)	0,0038
Reatância Indutiva - 60Hz (ohms/km)	-
Reatância Capacitiva - 60Hz (ohms/km)	-
Capacidade de Corrente em Regime Permanente - 75ºC (A)	1,825
Capacidade de Corrente em CC - 50ms (A)	-
Capacidade de Corrente em CC - 100ms (A)	-
Capacidade de Corrente em CC - 0,5s (A)	-
Resistência Máxima à 20°C em CC (ohms/km)	135
Package	
Tipo de Bobina	-
Lance Nominal (m)	-
Massa Líq. por Bobina (kg)	-
Massa Bruta da Bobina com Fechamento (kg)	-