

ICALI-XP - INSULATED ALUMINUM CABLE WITH XLPE/PVC (UP 0.6 TO 1KV)

ICALI-XP-50

Description

Suitable to transmitting energy with solar farms, the aluminum cable insulated with XLPE/PVC has many applications and can be used in aerial or underground systems.

Its external insulation has high mechanical resistance, allowing the conductor to be directly installed underground. It is also resistant to UV rays what results in longer lifespan when used in aerial installations. The cable ICALi-XP is manufactured with aluminum alloy 1350, compacted, class 2. It has an insulation made with cross-linked polyethylene and covered by polyvinil chloride (PVC) type ST2 with flame retardant properties.



Datasheet

Conductor Characteristics

Cross Section (mm ²)	50
Formation	7 fios
Stranding Type	Classe 2 Compacto
Diameter of Wires (mm)	3,00
Diameter of Cable (mm)	8,30

Characteristics of the Insulating Layer

Insulation Type / Operating Temperature	XLPE / 90°C
Insulation Thickness (mm)	1,00
Diameter With Insulation (mm)	10,3

Characteristics of the Covering Layer

Covering Layer Type	PVC ST2
Coverage Thickness (mm)	1,20
Cable Diameter with Covered Layer (mm)	12,70

Nominal Weight (kg/km)

225,10

Electrical Characteristics

Maximum Resistance to 20°C in DC (ohms/km)	0,6410
Maximum Resistance at 90°C in DC - Conductor (ohms/km)	0,7383
Maximum Resistance at 20°C in AC 60Hz (ohms/km)	0,6422
Maximum Resistance at 90°C in AC 60Hz (ohms/km)	0,7387
Current Capacity (3 Loaded Conductors)	

In open air	165 A
Buried Conduit	112 A
Package	
Reel Type	100/60
Nominal Length (m)	1000
Net Weight per Reel (kg)	225,10
Gross Weight per Reel With Packing (kg)	300,10