

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

ICALI-XP-240

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) | 240 |
| Formation | 37 fios |
| Stranding Type | Classe 2 Compacto |
| Diameter of Wires (mm) | 2,87 |
| Diameter of Cable (mm) | 18,20 |

Characteristics of the Insulating Layer

| | |
|---|-------------|
| Insulation Type / Operating Temperature | XLPE / 90°C |
| Insulation Thickness (mm) | 1,75 |
| Diameter With Insulation (mm) | 21,70 |

Characteristics of the Covering Layer

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|--|---------|
| Covering Layer Type | PVC ST2 |
| Coverage Thickness (mm) | 1,60 |
| Cable Diameter with Covered Layer (mm) | 24,90 |

Nominal Weight (kg/km)

900,00

Electrical Characteristics

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|--|--------|
| Maximum Resistance to 20°C in DC (ohms/km) | 0,1250 |
| Maximum Resistance at 90°C in DC - Conductor (ohms/km) | 0,1569 |
| Maximum Resistance at 20°C in AC 60Hz (ohms/km) | 0,1257 |
| Maximum Resistance at 90°C in AC 60Hz (ohms/km) | 0,1595 |
| Current Capacity (3 Loaded Conductors) | |

| | |
|---|--------|
| In open air | 492 A |
| Buried Conduit | 272 A |
| Package | |
| Reel Type | 125/70 |
| Nominal Length (m) | 500 |
| Net Weight per Reel (kg) | 450,0 |
| Gross Weight per Reel With Packing (kg) | 575,0 |