

sofamel

Product Technical Specifications

Aluminum cables for grounding equipment



Functionality

The purpose of aluminum wiring for grounding equipment is to transmit the energy from the power lines to the ground, diverting the current in the event of a short circuit, thus discharging the energy.

These wirings must withstand current discharges for short periods of time, in addition to withstand dynamic fatigue due to the discharge.

Product Features

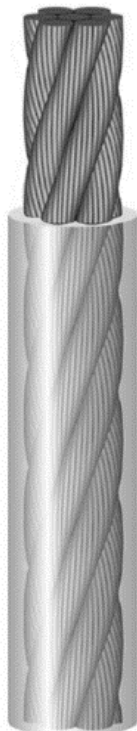
The cable is extra-flexible to withstand the dynamic impulses created during the short circuit. They are sheathed in transparent PVC to check that it does not have any problems in the braided wiring.

Raw Material Characteristics

Flexible multi-strand aluminum cable according to EN 61138.

PVC insulation type TM6 according to EN 50363-4-1, Transparent color.

Temperature range: -25 to +55 °C.





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Electrical and Physical Characteristics

Nominal section (mm ²)	I _{cc} (kA /1s at 400°C)	Resistance (Ω/km a 20°C)	Isolation Thickness (mm)	Ø Ext. (mm)		Weight (Kg/m)
				Min	Max	
35	5	0.886	1,20	9,70	11,70	0,154
50	7	0.616	1,50	11,70	14,20	0,228
70	10	0.440	1,80	13,40	16,20	0,307
95	13,5	0.326	1,80	15,50	18,70	0,412
120	17,5	0.254	1,80	17,10	20,60	0,502

Certificates

Manufactured according to **EN-61138:2007**: Portable earthing and short-circuiting cable according to **IEC 61138**: Cables for portable earthing and short-circuiting equipment.

Cables comply with the requirements of **REACH** Regulation and **RoHS** Directive.

Insulation complies with **EN 50360-4-2**: Insulating, sheathing, and covering materials for low-voltage energy cables - Part 4-2: PVC sheathing compounds.