ALUMINUM CABLES – For grounding equipment





Designation: H00V3-D

H	Harmonized Standard
OO	Grounding
V3	PVC insulation
AD	Aluminum conductor

Functionality

Cable for EXCLUSIVE use for portable grounding equipment (IEC61230 Standard).
Its purpose is to transmit the energy from the power lines to the ground, diverting the current in case of short-circuit, thus producing the energy discharge.
This cable withstands current discharges for short periods of time, in addition to withstanding dynamic fatigue due to the discharge.

Product Features

The cable is extra flexible to withstand the electrodynamic forces created during the short circuit.
They are coated with transparent PVC to check that there are no problems in the stranded wiring (oxidation, stranding of stranded wire, etc...).
Temperature range: for overhead and indoor conditions in temperature ranges from -25ºC to +55ºC.

Aluminum cables for grounding equipment

Raw material characteristics

Aluminum multi-stranded conductor according to **IEC 60228:2005**: "Insulated cable conductors". Class 6

Thermoplastic PVC insulation type TM6 according to **UNE-EN 50363-4-1:2006**: "Insulating, sheathing and covering materials for low voltage power cables. Part 4-1: PVC sheath compounds, transparent color".

ALUMINUM CABLES – For grounding equipment

Electrical and Physical characteristics

Nomial sections (mm^2)	Icc (kA /0,5s a 350ºC)	Icc (kA /1s a 350°C)	Resistence (Ω/km a 20°C)	Insulation thickness (mm)	Ø Ext.		Weight (Kg/m)
					Mix.	Max.	
35	7	5	0,886	1,20	9,70	11,70	0,154
50	10	7	0,616	1,50	11,70	14,20	0,228
70	14	10	0,440	1,80	13,40	16,20	0,307
95	19	13,5	0,326	1,80	15,50	18,70	0,412
120	25	17,5	0,254	1,80	17,10	20,60	0,502
150	30	21,4	0,208	1,80	18,60	25,50	0,623

Certificates/Applicable standards

- **UNE-EN 61138:2008**: "Cables for portable grounding and short-circuit equipment".
- **UNE-EN 50363-4-1:2006**: "Insulating, sheathing and covering materials for low voltage power cables. Part 4-1: PVC sheathing compounds".
- **IEC 60228:2005**: "Insulated cable conductors".
- Complies with **Directive 1907/2006/EU REACH**: Registration, Evaluation, Authorization and Restriction of Chemical Substances and Mixtures.
- Complies with **Directive 2011/65/EU ROHS**: Restriction of certain Hazardous Substances in electrical and electronic equipment.

Data subject to change

© 2026 Sofamel S.L.U.
All rights reserved.

Version: R2 07/09/26

Specifications are subject to change without prior notice.