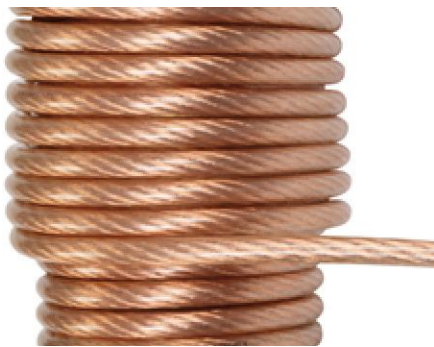


# sofamel

Technical Product Specifications



## Copper Cables for grounding equipment

Designation: H00V3-D

H- Harmonized Standard

OO- Grounding

V3- PVC Insulation

D- Copper 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 discharge of energy.

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 -25°C to +55°C.



# Copper Cables for grounding equipment

## Raw material characteristics

Copper multi-stranded conductor, type Cu- ETP1 according to **EN 13602:2013** : "Copper and copper alloys. Round and drawn copper wires for the manufacture of electrical conductors".

Class 6 according to **IEC 60228:2005**: "Insulated cable conductors".

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".

## Electrical and Physical Characteristics

Nominal section (mm <sup>2</sup> )	Icc (kA/0,5 s)	Icc (kA/1 s)	Resistance (Ω/km a 20 °C)	Insulation thickness (mm)	Ø Wire (mm)	Ø ext. (mm)	Weight (Kg/m)
16	6	4,3	1,21	1,2	0,21	8,6	0,18
25	9,4	6,7	0,780	1,2	0,21	10,6	0,26
35	13,2	9,4	0,554	1,2	0,21	11,7	0,36
50	18,9	13,4	0,386	1,5	0,21	14,2	0,52
70	26,4	19	0,272	1,8	0,21	16,2	0,71
95	35,9	25,4	0,206	1,8	0,21	18,7	0,95
120	45,4	32,1	0,161	1,8	0,21	20,6	1,17
150	56,7	40,2	0,129	1,8	0,21	22,5	1,45

## Certificates/Applicable standards

- **UNE-EN 61138:2008**: "Cables for portable grounding and short-circuiting equipment".
- **EN 13602:2013**: "Copper and copper alloys. Round and drawn copper wires for the manufacture of electrical conductors".
- **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.