

PRODUCT DATASHEET

EQUIPOTENTIAL BONDING KITS (EARTHING KITS)

UV-resistant Equipotential Bonding Kit for PV systems

Product Description:

This Equipotential Bonding Kit ensures safe and reliable grounding of photovoltaic (PV) installations, maintaining equipotential bonding as required by IEC 60364. Its tinned copper construction with UV-resistant insulation provides optimal corrosion resistance and longevity.

Features & Benefits:

- Ensures compliance with IEC 60364.
- UV-resistant insulation suitable for outdoor PV installations.
- Corrosion-resistant (tinned copper cable, stainless steel hardware).
- Quick installation (pre-assembled cable with connectors).
- RoHS compliant, suitable for international markets.



CONDUCT

TECHNICAL SOLUTIONS

*Only intended for professional PV installers. All values nominal unless tolerances provided; information contained in the present datasheet is subject to confirmation at time of ordering.

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TECHNICAL FEATURES

STRUCTURE

Parameter	Specification
<i>Product type</i>	Equipotential Bonding Kit
<i>Cable type</i>	UV-resistant stranded copper (tinned)
<i>Cable cross-section</i>	6 mm ² or 16 mm ²
<i>Cable insulation</i>	UV-stabilized, weatherproof
<i>Conductor material</i>	Tinned Copper (Cu)
<i>Connector types</i>	Cable lug, Earthing Block, UNiclamp
<i>Screws/Washers</i>	Stainless steel, serrated washer

MECHANICAL SPECIFICATIONS

Parameter	Value
<i>Cable length</i>	30 cm / 50 cm / 100 cm
<i>Cable insulation color</i>	Green/Yellow
<i>Temperature rating</i>	-40°C to +90°C
<i>UV-resistance</i>	Yes, per DIN EN ISO 4892-2
<i>Corrosion resistance</i>	High (Stainless steel, tin-plated)
<i>Sealing Class (installed)</i>	IP67 equivalent
<i>Lug attachment</i>	Factory attached (crimped lug)
<i>Earthing Block material</i>	Zinc-Nickel plated steel
<i>UNiclamp material</i>	Stainless steel

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ELECTRICAL SPECIFICATIONS

Parameter	Value
Rated Voltage	up to 1500 V DC
Impulse withstand	Tested acc. IEC 60364
Conductivity	High (tinned copper)
Max fault current	Tested at 50kA/20µs impulse (lightning test standard)

PRODUCT VARIANTS (Selection Guide)

Kit Type	Cable size	Ends	Lengths
SR1 AB	6 or 16 mm ²	Cable lug + Earthing Block	30/50/100 cm
SR1 UNi	16 mm ²	Cable lug + UNiclamp	30/50/100 cm
SR1 SR1	6 or 16 mm ²	Cable lug + Cable lug	30/50/100 cm
AB-UNi	16 mm ²	Earthing Block + UNiclamp	30/50/100 cm
AB-AB	6 or 16 mm ²	Earthing Block + Earthing Block	30/50/100 cm

PACKAGING INFORMATION

Parameter	Value
Package Quantity	1
Weight per piece	200 g
Statistical number	85441110

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PRODUCT INFORMATION

Conductor

Stranded copper conductor, cross-section 6 mm² or 16 mm² (as specified per kit variant), tinned for corrosion resistance. Insulation is weather- and UV-resistant for outdoor installation. Standard color is green/yellow (earthing colors).

Connections

- *Cable Lug (SRI type)*: Tinned copper lug with matching ferrule for the conductor size, includes a stainless steel self-tapping screw (e.g. 4.2 × 13 mm) and serrated washer for making a secure connection to steel or aluminum structures. The screw thread cuts into the mounting surface, ensuring a solid electrical bond.
- *Earthing Block (AB type)*: Mechanical clamp block (often zinc-nickel plated steel) that attaches to wire mesh cable tray (roof cable management) by clamping onto a tray wire. Accommodates the copper conductor via set screws – e.g. blocks for 6 mm² or 16 mm² cables with stainless steel screws that tighten onto the cable strands. Provides a convenient bonding point on the tray (typically connecting to the tray cross-wires).
- *UNIClamp*: Stainless steel universal clamp designed to connect to circular conductors (like lightning protection rods or round down conductors, typically 6–10 mm diameter). One side of the clamp grips the round rod; the other side provides a bolt or attachment where the kit's cable (usually via a lug or directly under the clamp's bolt) is connected. Ensures a low-impedance link between the cable and the lightning/earthing rod.

Materials

All metal components are corrosion-resistant. The cable is copper with tin plating; lugs are tin-plated copper. Earthing blocks have galvanized or zinc-nickel plated bodies with stainless steel hardware. UNIClamps are stainless steel. The self-tapping screws and serrated washers are stainless steel to prevent rust and ensure long-term conductivity.

Standards Compliance

The kits meet the equipotential bonding requirements of NEN1010 (Dutch electrical code) and IEC 603640 for protective equipotential bonding. They are intended as protective bonding (not as the main grounding electrode conductor) – they must be installed in addition to a proper earth connection of the PV system. The use of 6 mm² or 16 mm² conductor aligns with standards (minimum 6 mm² copper for bonding per NEN1010; larger cross-section used when bonding to lightning protection)

Product Range and Ordering

All equipotential bonding kits are sold as single units (each kit pre-assembled with the specified cable length, cross-section, and end fittings). *Table 1* below summarizes the available variants:

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***Table 1** – Equipotential bonding kit variants.

Article Number	Configuration	Cable Size	Cable Length	Ends / Connectors	GTIN
30.SR1.AB	SR1 AB kit	6 mm ²	30 cm	Lug + Earthing Block	8718819220336
30.SR1.AB-16mm	SR1 AB kit	16 mm ²	30 cm	Lug + Earthing Block	8718819220343
50.SR1.AB	SR1 AB kit	6 mm ²	50 cm	Lug + Earthing Block	8718819220350
50.SR1.AB-16mm	SR1 AB kit	16 mm ²	50 cm	Lug + Earthing Block	8718819220367
100.SR1.AB	SR1 AB kit	6 mm ²	100 cm	Lug + Earthing Block	8718819220374
100.SR1.AB-16mm	SR1 AB kit	16 mm ²	100 cm	Lug + Earthing Block	8718819220381
30.SR1.UNi-16mm	SR1 UNi kit	16 mm ²	30 cm	Lug + UNiClamp	8718819220404
50.SR1.UNi-16mm	SR1 UNi kit	16 mm ²	50 cm	Lug + UNiClamp	8718819220428
100.SR1.UNi-16mm	SR1 UNi kit	16 mm ²	100 cm	Lug + UNiClamp	8718819220442
30.SR1.SR1	SR1 SR1 kit	6 mm ²	30 cm	Lug + Lug	8718819220459
30.SR1.SR1-16mm	SR1 SR1 kit	16 mm ²	30 cm	Lug + Lug	8718819220466
50.SR1.SR1	SR1 SR1 kit	6 mm ²	50 cm	Lug + Lug	8718819220473
50.SR1.SR1-16mm	SR1 SR1 kit	16 mm ²	50 cm	Lug + Lug	8718819220480
100.SR1.SR1	SR1 SR1 kit	6 mm ²	100 cm	Lug + Lug	8718819220497
100.SR1.SR1-16mm	SR1 SR1 kit	16 mm ²	100 cm	Lug + Lug	8718819220503
30.AB.UNi-16mm	AB–UNi kit	16 mm ²	30 cm	Earthing Block + UNiClamp	8718819223108
50.AB.UNi-16mm	AB–UNi kit	16 mm ²	50 cm	Earthing Block + UNiClamp	8718819223115
100.AB.UNi-16mm	AB–UNi kit	16 mm ²	100 cm	Earthing Block + UNiClamp	8718819223122
30.AB.AB	AB–AB kit	6 mm ²	30 cm	Earthing Block + Earthing Block	8718819223139
30.AB.AB-16mm	AB–AB kit	16 mm ²	30 cm	Earthing Block + Earthing Block	8718819223146
50.AB.AB	AB–AB kit	6 mm ²	50 cm	Earthing Block + Earthing Block	8718819223153
50.AB.AB-16mm	AB–AB kit	16 mm ²	50 cm	Earthing Block + Earthing Block	8718819223160
100.AB.AB	AB–AB kit	6 mm ²	100 cm	Earthing Block + Earthing Block	8718819223177
100.AB.AB-16mm	AB–AB kit	16 mm ²	100 cm	Earthing Block + Earthing Block	8718819223184

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Figure. 1:

SRI AB kit (30 cm, 6 mm²) – one end has a tinned copper cable lug with stainless self-tapping screw and serrated washer, the other end an earthing block for clamping to cable tray



Figure. 2:

SRI UNI kit (30 cm, 16 mm²) – UV-resistant cable with tinned copper lugs on both ends (for connection to a PV frame). The kit includes a stainless UNIClamp (center) which can be attached to a lightning protection rod, allowing one lug to be bolted to the clamp. The serrated washers (under the screw heads) ensure good contact with metal surfaces.

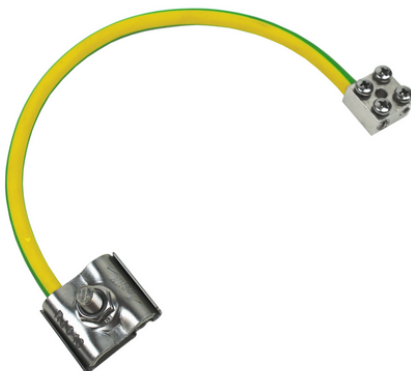


Figure. 3:

AB-UNI kit (30 cm, 16 mm²) – one end has a RoofSupport earthing block (right) that clamps onto wire mesh tray, and the other end a UNIClamp (left) for bonding to a round down-conductor or rod. The copper cable's 16 mm² strands are tinned and secured by the screws in the block, and attached under the UNIClamp's bolt.

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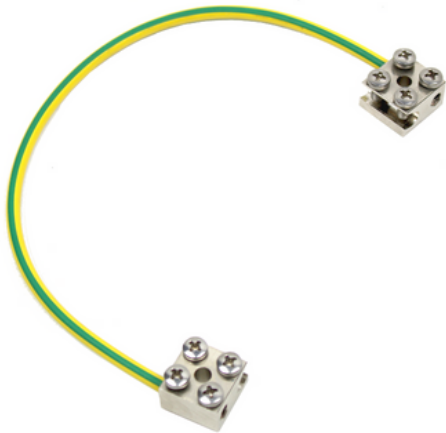


Figure. 4:

SRI AB kit (30 cm, 6 mm²) – one end has a tinned copper cable lug with stainless self-tapping screw and serrated washer, the other end an earthing block for clamping to cable tray



Figure. 5:

SRI-SRI kit (30 cm, 6 mm²) – both ends feature a cable lug with factory-attached conductor end ferrule, stainless steel self-tapping screw and serrated washer (for frame-to-frame or frame-to-inverter bonding). The green/yellow insulated copper conductor is tinned for corrosion resistance. All hardware is stainless steel for long-term durability.

COMPLIANCE & STANDARDS

- IEC 60364-5-54 (Protective Equipotential Bonding)
- NEN 1010:2020 (Dutch standard, equivalent IEC 60364)
- RoHS (EU 2011/65/EU compliant)
- UV-resistance according DIN EN ISO 4892-2 (Plastics – Laboratory exposure methods)
- Ozone resistance according to DIN 53509 (Resistance to ozone cracking)

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