

# DIGITUS® Solar cable installation 50m, 6mm<sup>2</sup>, black, PV cable 1500V DC, UV-resistant & weatherproof

DK-SCIC6B-0500  
EAN 4016032490753



**Solar Installation cable, H1Z2Z2-K, 6sqmm, PV 50m, black, solarpanel, inverter, chargecontroller**

The high-quality solar cable with 6mm<sup>2</sup> cross-section and 50m length is the ideal connection solution for photovoltaic systems and solar systems. It is ideal for use between solar modules, inverters and other components thanks to its high dielectric strength of DC 1500V / AC 1kV. The tinned copper conductor offers optimum conductivity and excellent corrosion protection. The robust XLPO insulation provides reliable protection against UV radiation, heat, ozone and moisture. The cable is flexible, abrasion-resistant and temperature-resistant from -40°C to +90°C. It meets the requirements of the EN 50618:2014 standard and is flame-retardant, which ensures additional safety. With a conductor resistance of 3.39Ω/k and an insulation resistance of 500 MΩ·km, it enables low power losses and high operational safety. The solar cable is weatherproof, durable and environmentally friendly - ideal for long-term outdoor use in professional and private PV projects.

**Safe, efficient and flexible - this solar cable is the ideal solution for all indoor and outdoor photovoltaic projects.**

- Tinned copper wire
- Flexible conductor structure (TS 84/0.285 mm)
- Diameter of the conductor: 3.0 mm
- XLPO jacket (outer shell)
- Diameter of the insulation: 4.4 mm ±0.1 mm
- Outer diameter: 6.1 mm ±0.2 mm
- Rated voltage: DC 1500V / AC 1kV
- Conductor resistance: 3.39 Ω/km (at 20°C)
- Insulation resistance: 500 MΩ·km (at 20°C)
- Dielectric strength: AC 6.5kV / DC 15kV (5 minutes)
- Spark test: 7kV
- Operating temperature: -40°C to +90°C
- Flame retardant according to EN50618:2014
- Coat color: Black

**Package contents**

- Cable ring 50m, black

Logistics						
	Number (pcs)	Weight (kg)	Depth (cm)	Width (cm)	Height (cm)	cm <sup>3</sup>
Packaging Unit Carton	4	15.80	29.00	25.00	24.00	17,400.00
Packaging Unit Inside	1	3.95	0.00	0.00	0.00	0.00
Packaging Unit Single	1	3.95	23.00	23.00	7.00	3,703.00
Net single without Packaging	1	3.85	23.50	23.50	7.50	0.00

**More images:**



**Product parameter**

Product name	Solar installation cable
Cable specifications	20m 6mm <sup>2</sup> / 50m 6mm <sup>2</sup>
Conductor	Tinned copper
Rated current	30A
Rated voltage	DC 1500V / AC 1kV
Insulation material	XLPO
Weather resistance	UV
Conductor resistance	≤3.39 Ω/km (at 20°C)
Temperature range	-40°C to +90°C
Life time	25 years



**Safety notes**

- Only operate the device indoors. Avoid exposure to moisture, dust, sunlight or other sources of heat.
- The socket outlet is part of the building installation. The relevant national standards and directives must be observed during planning and installation.
- The appliance may only be operated on the 230V/50 Hz AC mains supply. Work on the 230V mains may only be carried out by a qualified electrician certified in your country.
- Observe the applicable accident prevention regulations during installation.
- To avoid electric shock to the appliance, please disconnect the mains voltage (e.g. switch off the circuit breaker).
- Failure to observe the installation instructions may result in fire or other hazards.
- Installation may only be carried out in commercially available flush-mounted boxes (appliance boxes) in accordance with DIN 49073-1, with a minimum depth of 40 mm.
- When connecting to the device terminals, observe the permissible cables and cable cross-sections.
- Mandatory information in accordance with the appliance safety standard
- Note!
- Installation only by persons with relevant electrical knowledge and experience!
- Improper installation puts your own life and the lives of the users of the electrical system at risk.
- You risk serious damage to property if the installation is not carried out correctly. You may be personally liable for personal injury and damage to property.
- Specialist knowledge required for installation:
  - The following specialist knowledge in particular is required for installation:
    - The application of the 5 safety rules 1. Disconnect 2. Secure against reconnection 3. Ensure there is no voltage 4. Earth and short-circuit 5. Cover or isolate neighboring live parts.
  - Selection of suitable tools, measuring equipment and, if necessary, personal protective equipment.
  - Selection of the electrical installation material to ensure the switch-off conditions.
  - Check the electrical system after installation.
  - Observing the IP protection classes
  - Installation only with suitable electrical installation material
  - Check and observe the respective specifications of the type of supply network (TN system, TT system or IT system) and the resulting connection conditions (zeroing, protective earthing, or any additional measures required, etc.).
- Maintenance and cleaning:
  - The socket is maintenance-free.
  - Leave repairs to a qualified electrician.
  - Only clean the device with a soft, clean, dry and lint-free cloth.
  - Do not use cleaning agents containing solvents. This can damage the plastic housing.
  - Do not use wet cloths or sponges to clean the appliance.

**EU responsible person**

EU based economic operator ensuring the product complies with the required regulations.

ASSMANN Electronic GmbH  
 Auf dem Schüffel 3  
 Lüdenscheid, Germany  
<https://www.assmann.com>  
[info@assmann.com](mailto:info@assmann.com)