HIS CU

■ PV Connectors for Copper Conductors

For copper conductors with cross-sections of 4, 6, and 10 mm² and system voltages up to 1,500V DC

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Product Description

The HIS CU is a PV connector designed for copper PV cables with conductor cross-sections of 4, 6, and 10 mm². With a rated voltage of up to 1,500V DC and a rated current of up to 70 A at an ambient temperature of 85 °C, it is suitable for demanding PV and approved battery energy storage applications.

The connector uses crimp termination to provide a reliable, low-resistance electrical connection. When fully mated, it provides IP65 and IP68 protection, with IP68 verified at a water depth of 1 m for 1 hour. A mechanical locking mechanism protects against accidental disconnection.

The HIS CU is part of the HISkon+ system and, together with the HIS AL, forms part of the HISkon+ ALU connection system.

Your Benefits

- **High Current-Carrying Capacity**
  Up to 70 A with a 10 mm² conductor at an ambient temperature of 85 °C
- **Rated Voltage up to 1,500V DC**
  For PV and approved energy storage applications
- **Protection Ratings IP65 and IP68**
  When fully mated; IP68 test conditions: 1 m, 1 h
- **Low contact resistance**
  ≤ 0.3 mΩ for low electrical losses at the contact point
- **Ammonia resistance**
  TÜV-tested for ammonia resistance
- **Mechanical locking**
  Protects the connector from accidental disconnection
- **Flame-retardant insulation**
  Insulating material with a UL 94V-0 flammability rating
- **Wide operating range**
  Operating ambient temperature from -40 °C to +85 °C; upper limiting temperature: 120 °C
- **TÜV Rheinland Certification**
  Certified in accordance with IEC 62852 and EN 62852

Applications

Ground-Mounted PV Systems

Roof-mounted PV Systems (C&I)

Energy Storage (DC)

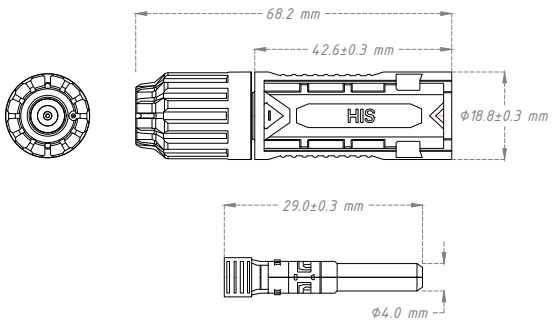
String and DC Cabling

Agri-PV and Agriculture

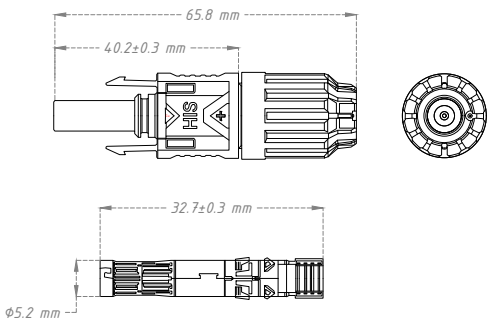
HISkon+ System

Dimensions

Male connector



Female connector



Technical Data

Electrical Specifications

Rated Voltage	1,500V DC
Rated Current at 85 °C Ambient Temperature	41 A (4 mm^2)/50 A (6 mm^2)/70 A (10 mm^2)
Rated Impulse Voltage	16 kV
Contact Resistance	≤ 0,3 mΩ
Overvoltage Category	III
Pollution Degree	2

Mechanical Specifications and Materials

Conductor Material	Copper
Conductor Cross-Sections	4, 6, 10 mm^2
Contact Material	Tin-plated copper alloy
Insulation material	PA66
Connection Type	Crimp connection
Locking Mechanism	Mechanical lock
Mating Cycles	100

Environmental Conditions

Operating Ambient Temperature	-40 °C to +85 °C
Upper Limiting Temperature	120 °C
Protection Rating When Mated	IP65/IP68 (1 m, 1 h)
Protection Rating When Unmated	IP2X
Fire Behavior of the Insulation Material	UL94V-0
Ammonia Resistance	TÜV-tested for ammonia resistance

Standards and Certification

Applicable Standards	IEC 62852:2014 + A1:2020; EN 62852:2015 + A1:2020
Certification Body	TÜV Rheinland

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