HIS AL

■ PV Connector for Aluminum Conductors

For aluminum conductors with cross-sections of 6, 10, 16, and 25 mm²; rated for up to 1,500V DC

scan me



Product Description

The HIS AL is a PV connector designed for the direct connection of aluminum PV cables with conductor cross-sections of 6, 10, 16, and 25 mm². Its engineered Al/Cu contact system provides a reliable transition between aluminum conductors and copper-based system components.

The connector is rated for DC systems up to 1,500V. When fully mated, it provides IP65 and IP68 protection, with IP68 verified at a water depth of 1 m for 1 hour. Crimp termination provides a durable, low-resistance electrical connection, while the mechanical locking mechanism protects against accidental disconnection.

Together with the HIKRA SOL AL aluminum PV cable and the HIS Cu connector, the HIS AL forms the HISkon+ ALU connection system.

Your Benefits

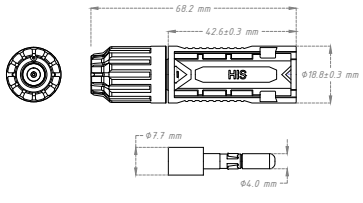
- **Direct Connection of Aluminum Conductors**
  For conductor cross-sections of 6, 10, 16, and 25 mm²
- **Engineered Al/Cu Transition**
  Provides a reliable transition between aluminum PV conductors and copper-based system components
- **Designed for Aluminum Cabling**
  Compatible with aluminum PV cables, including HIKRA SOL AL
- **Rated Voltage and Current**
  Rated up to 1,500V DC; 41 A for 6 mm² and 50 A for 10 mm² conductors at an ambient temperature of 85 °C
- **IP65 and IP68 Protection Ratings**
  When fully mated; IP68 verified at a water depth of 1 m for 1 h
- **Low Contact Resistance**
  ≤ 0.3 mΩ to minimize resistive losses at the contact interface
- **Flame-Retardant Insulation**
  PA66 insulating material with a UL 94V-0 flammability rating
- **Mechanical Locking**
  Protects against accidental disconnection
- **TÜV Rheinland Certification**
  Tested and certified in accordance with IEC 62852 and 2 PfG 2915/07.2023

Applications

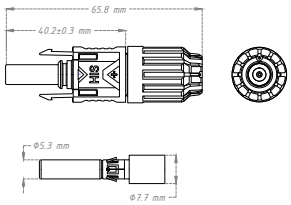
- Ground-Mounted PV Systems
- Roof-Mounted PV Systems (C&I)
- Battery Energy Storage (DC)
- String and DC Cabling
- Aluminum Cabling
- HISkon+ ALU System

Dimensions

Male connector

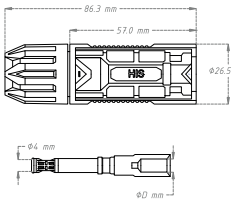


Female connector

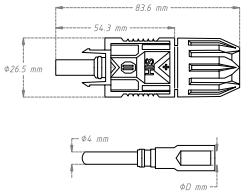


Rated for AL 6/10 mm² D:6-8.7mm

Male connector



Female connector



Rated for AL 16/25 mm² D: 9.1-12 mm

Technical Data

Electrical Specifications

Rated Voltage	1,500V DC
Rated Current at 85 °C Ambient Temperature	41 A (6 mm²)/50 A (10 mm²)/70 A (16 mm²)/90 A (25 mm²) at 85 °C
Rated Impulse Voltage	16 kV
Contact Resistance	≤ 0,3 mΩ
Overvoltage Category	III
Pollution Degree	2 (within the connector housing)

Mechanical Specifications and Materials

Conductor material	Aluminum
Conductor cross-sections	6, 10, 16, 25 mm²
Contact material	Tin-plated Al/Cu contact system
Insulation material	PA66
Connection type	Crimp connection
Locking Mechanism	Mechanical locking
Mating Cycles	100

Environmental Conditions

Operating Ambient Temperature	-40 °C to +85 °C
Upper Limiting Temperature (ULT)	120 °C
Protection Rating When Mated	IP65/IP68 (1 m, 1 h)
Protection Rating When Unmated	IP2X
Flammability Rating	UL94V-0

Standards and Certification

Applicable Standard	IEC 62852:2014+A1
Additional Test Specification	2 PfG 2915/07.2023
Certificate	TÜV Rheinland Certificate of Conformity, AK 50734287

10 | 2026

Copyright © 2026 HIS Technology GmbH | Subject to change. No liability accepted for typographical errors or misprints.

HIS.0139.10.2026

German Headquarters
HIS Technology GmbH
Siemensstraße 4
64760 Oberzent
T +49 6068 9314 430
E info@his-technology.com

France
HIS Technologie SARL
45 Impasse Louis
Ferdinand Hérold
34070 Montpellier
T +33 4 67 56 67 54
E info.fr@his-technology.com

Spain
HIS Tecnología S.L.
Avenida de Brasil 17
28020 Madrid
T +34 916 620 493
E info.es@his-technology.com

Turkey
HIS Teknoloji A.S.
Yenisehir mah. Osmanli Bulvari No:11,
Aeropark, D:A28 Kat 5, Kurtkoy,
34912 Pendik, Istanbul
T +90 232 422 0931
E info.tr@his-technology.com

Bosnia and Herzegovina
HIS Tehnologija d.o.o.
Prvomajska bb
79260 Sanski Most
T +38 737 307 650
E info.bh@his-technology.com

Poland
HIS Technologia sp. z o.o.
Juliana Tuwima 48/11, 90-021 Łódź
T +48 576 030 900
E info.pl@his-technology.com

Benelux
T +31 641 248 141
E info.nl@his-technology.com