

# HISkon<sup>®</sup>

PV cabling components  
part of HIS CONNECT

## HISkon<sup>®</sup> Splitter

1000 V / 1500 V DC

TÜV 2PFG1913:03-21

DATA SHEET



**HIS**  
the power behind re:energy

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# HISkon® SPLITTER



PV cabling and switching professionals frequently work under time pressure and as a result want cables and components which they can install on site quickly and without too high cost. For such requirements, there is our assembly service: here, you get just the right cable at the right length with the right properties and connections. Obviously at the right time and the right place.

## OFF THE SHELF PRODUCTS. TAILOR MADE FOR YOU.

By using innovative technology and the most modern machines and plant, we provide maximum efficiency in cable fabrication and testing, completely secure processes and a high plant availability. For almost 20 years, we have interacted intensively with customers, suppliers and partners on the subject of photovoltaics. This experience flows into every single assembly



### HUGE WEALTH OF EXPERIENCE

Benefit from our many years of experience in numerous projects in the world.



### INTERNATIONAL SUPPORT

With a multilingual engineering and sales team. HIS is managing several country-specific standards.



### COST OPTIMIZED CONCEPTS

Smart design to save costs (CapEx) helps to avoid extensive work during installation and operations (OpEx).



### EASY TO INSTALL

Well thought out. Ready to use. Including necessary accessories to make installation safe, simple and quick.



### QUALITY & TESTING

Engineering, manufacturing and testing under one roof. Additional testing for special requirements.



### REDUCE COST. RAISE PROFIT

Tailored concepts by comprehensive expert knowledge. Cost effective and sustainable solution for PV projects.

## APPLICATION

These cable splitters are intended for use in PV installations at the DC-side. Connect PVmodules with the PV array cable in PV plants outdoor and on the roof and BIPV easy and quick. Most modern welding technology guarantees minimum transfer losses.

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## YOUR ADVANTAGES

- + Easy and quick installation for efficient and smooth commissioning
- + Supremely solid compound of insulation materials due to high quality vulcanisation process.
- + The most modern welding technology guarantees minimum transfer losses by bundling the DC output on the cable
- + Reduction of DC cables
- + Flexible splitter concept to meet your requirement



Construction	
Cable	HIKRA TECH 1500V, H1Z2Z2-K acc. EN50618:2014 ; certificate Nr. R 60154895 Minimum length between splitters and connector: 200mm
Molding insulation	Cable and molding made of one material, specialized compound; UV-stabile ULT 120°C, 20.000h, acc. to certificate Nr. R 60154895
Connector*	Can be delivered plain or with solar connectors compliant to IEC 62852:2014 +A1:2020: Stäubli MC4: PV-KST4/xy/H PV-KBT4/xy/H Stäubli EVO2: PV-KST4-EVO 2/xy-UR PV-KBT4-EVO 2/xy-UR Stäubli MC4 Evo ready: PV-KST4-EVO READY (male) PV-KBT4-EVO READY (female) Canadian Solar T4: T4-PC-1 Trina TS4: TS4-xy(x=1,y=1 or 2) Amphenol UTX: UTXC345678, HH4Pabcdef, HH4Zabcdef, H4Pabcdef, H4Zabcdef TE: PV4-S a b cc, SLK-zz-y-BL-XX Weidmüller: WM4 C BOX WM4 C Phoenix Contact: PV-C4F-S 2,5-6(+), PV-C4M-S 2,5-6(-), PV-C3F-S2,5-6(+), PV-C3M-S2,5-6(-), "PV-FT-CF-C-w-x-y-zPV-FT-CM-C-w-x-y-zPV-FT-C2F-C-w-x-y-zPV-FT-C2M-C-w-x-y-z, PV-FT-C4F-C-w-x-y-zPV-FT-C4M-C-w-x-y-z, PV-C4F-S6-16(+), PV-C4M-S6-16(-), PV-C1F-C-2,5-4PV-C1F-C-6PV-C1M-C-2,5-4PV-C1M-C-6 Other on request If delivered plain: Connectors for PV-Array-Interconnection-System must comply with IEC 62852:2014 +A1:2020
Termination of splitter	Monitored resistance welding process
Configuration U-Splitter	U-SPLITTER-M-B1-B2 mm² -> See Table HISkon® U-SPLITTER
Configuration E-Splitter	E-SPLITTER-M-B1-B2-B3 mm² -> See Table HISkon® E-SPLITTER
Options*	Delivery possible as complete cabling system including plugs and other HISkon®* products
Standard	TÜV Rheinland certificate acc. to 2PFG1913:03-21, Certificate number R 60176988 0001  *TÜV certification does not include other connected products, please refer to certification of those products.

Technical characteristics	
Rated Voltage U0/U	1500 V DC

Acc. to EN 50618:2014

	Cross section	Single cable, free in air	Single cable on an surface	Two loaded cables touching, on a surface
Max. current ampacity	4 mm²	55 A	52 A	44 A
	6 mm²	70 A	67 A	57 A
	10 mm²	89 A	93 A	79 A
	16 mm²	132 A	125 A	107 A

\*for higher temperatures see Conversion Factor acc. EN 50618:2014 Table A.4

IP-class of cable splitter	IP65 / IP68 (1 m/24 h) (Take note of connector 's IP-protection!)
Contact resistance	≤ 0,1 mΩ (Single HISkon SPLITTER (without connector)
Protection class	II (reinforced Insulation) acc. IEC 61140
Flammability	Glow Wire 750°C acc. to IEC 60695-2-10 , IEC 60695-2-11
Ambient temperature	-40 °C to +90 °C

### TABLE U-SPLITTER

Main Cable	Branch Cables	
	B1	B2
4	4	4
6	4	4
	6	4
10	6	10
	6	6
16	10	6

### TABLE E-SPLITTER

Main Cable	Branch Cables		
	B1	B2	B3
4	4	4	4
6	4	6	4
	6	6	6
10	6	6	6
16	6	10	6

### CONVERSION FACTOR

Ambient Temp	Derating
to 60 °C	1
70	0,92
80	0,84
90	0,75

\*see EN50618:2014 Table A.4

