

HISkon

■ PV cabling components

HISkon Splitter

1000 V / 1500 V DC



scan me

Connecting energy.

Professionals working in PV cabling and installation often operate under significant time pressure. They therefore need cables and components that can be installed quickly, reliably and cost-effectively on site.

This is exactly where our custom cable assembly service comes in: We supply the right cable in the exact length required, with the appropriate technical properties and connectors – delivered on time and to the right location.

Standard products. Tailored to your needs.

By using innovative technologies as well as state-of-the-art machinery and production systems, we ensure maximum efficiency in cable assembly and testing, highly reliable processes and excellent system availability.

For almost 20 years, we have been working closely with customers, suppliers and partners in the photovoltaic industry. This extensive experience is reflected in every single assembly we produce.

Your advantages

- (+)**Fast and easy installation**
for efficient and trouble-free commissioning
- (+)**Highly robust insulation compound**
achieved through a high-quality vulcanization process
- (+)**State-of-the-art welding technology**
ensures minimal transmission losses by combining the DC output on a single cable
- (+)**Reduction**
of DC cabling
- (+)**Flexible distribution concept**
tailored to your specific requirements

Application

This inline fuse is designed for use in photovoltaic systems, for example in accordance with IEC 60364-7-712.

Please observe the HISkon installation guidelines.



Extensive experience

Benefit from our long-standing expertise gained from numerous PV projects around the world.



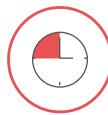
International support

A multilingual engineering and sales team, combined with in-depth knowledge of country-specific standards and regulations.



Cost-optimized solutions

Intelligent design helps reduce capital expenditure (CapEx) and minimizes installation and operating costs (OpEx).



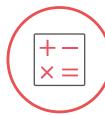
Easy installation

Well-thought-out, ready-to-use solutions including all necessary accessories for safe, simple and fast installation.



Quality and testing

Development, production and testing under one roof. Additional testing available for special requirements..



Reduce costs. Increase returns.

Customized solutions based on comprehensive expert knowledge – cost-effective and sustainable for PV projects of any size.

Technical Data

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-stable
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-xy-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-xy-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

LONGi: PV-LR5

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 tested

Technical characteristics

Rated Voltage U0/U

1500 V DC

Max. current ampacity

Acc. to EN 50618:2014

Cross section	Single cable, free in air	Single cable on a surface	Two loaded cables touching, on a surface
4 mm ²	55 A	52 A	44 A
6 mm ²	70 A	67 A	57 A
10 mm ²	89 A	93 A	79 A
16 mm ²	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

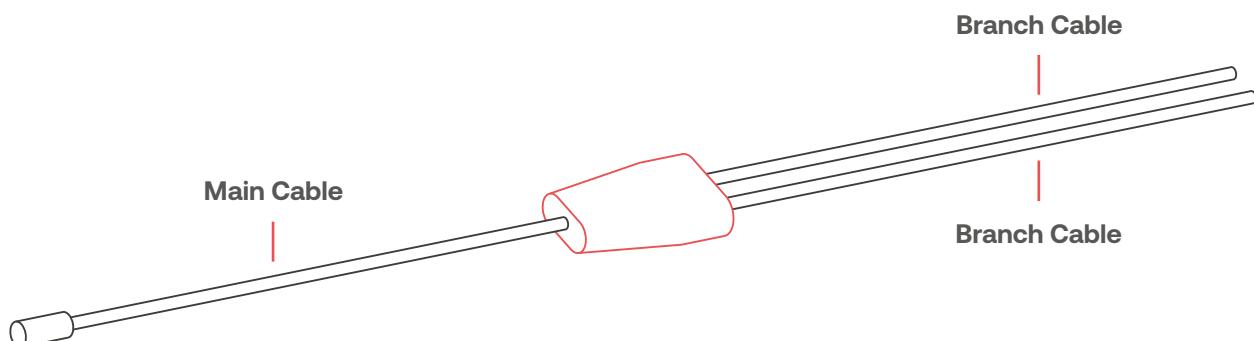


Table U-SPLITTER

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

Table E-SPLITTER

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

Conversion factor

Ambient Temp	Derating
to 60 °C	1.0
70	0.92
80	0.84
90	0.75

* see EN50618:2014 Table A.4

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