

KRÜGER^E Werke GmbH

Solar Portfolio

Anytime and anywhere, KRÜGER-Werke GmbH.
The partner who connects.



AUTHORIZED DISTRIBUTOR



About KRÜGER^E Werke GmbH

KRÜGER-Werke GmbH is one of the leading master distributors for cable fittings and electronic components. We offer you the complete range, from series production to special parts.

KRÜGER-Werke GmbH is your contact when it comes to combining innovation, speed and quality. You can connect with us, we are TE Master Distributor and Johnson Controls Distributor. This makes us your specialist for Energy, Entelec, Industrial, Potting, KNX, Refrigeration and Air Conditioning.

Our competences are diverse and leading back to one point:
Your safe contact for the quality and stability of your products.

Our highlights at a glance

- Proficient in the areas of construction, mold-flow and adaptive manufacturing
- Over 20 years of experience in high-throughput serial production of components such as connectors, sleeves, kitting products and much more.
- Member of the IEC and VDE Solar standardization groups
- Product development for solar applications
- Design and development of prototype, mold and mass production tools
- 10,000 sqm location area, 4,000 sqm production area and 2,000 sqm storage area
- 24/7 year-round production capability
- ISO 9001 certified
- Production at Falkenberg according to ISO 9001, ISO 14001, ISO 45001 and IATF 16949 certified

We are your reliable partner to help you achieve your product goals.

Solar cable

Our highlights at a glance

- More quality through tests that go beyond the requirements of the respective product standard
- Certified according to the standards: : IEC 60228, IEC 60332-1-2, IEC 60754, IEC 60811, IEC 61034, IEC 62930
UL 44, UL 854, UL 1581, UL 2556, UL 4703
EN 50618 ; ROHS 2011/65/EU
- Halogen-free, weather / abrasion / UV-resistant cable for photovoltaic systems
- Flame retardant according to IEC 60332-1-2 and direct burial according to UL 44 / UL 854
- A complete cable solution for internationally successful EPC & installation firms who expect more from their suppliers

Technical characteristics

UL 4703	AC: 1000V, 2000 V (at +20°C)
EN 50618 / IEC 62930	AC: 1000V; DC: max. 1500V (at +20°C)
Ambient temperature	-40°C to 105°C, 90°C wet
Insulation resistance	≥ 1000 MΩ.km

Cable structure

Material	stranded, tin-plated copper
Size	4mm ² /12AWG & 6mm ² /10AWG
Outer diameter	6,35 mm± 0,2mm bei 4mm ² /12AWG 6,97 mm± 0,2mm bei 6mm ² /10AWG

Further specifications

Bending radius, moved	≥5 X OD
Bending radius, static	≥4 X OD
Flammability	VW, IEC 60332-1-2

Item name

Item number

SOLARCABLE 6353D IEC & UL 6mm ² /10AWG 100m	8007076
SOLARCABLE 6353D IEC & UL 6mm ² /10AWG 500m	8006152
SOLARCABLE 6353D IEC & UL 6mm ² /10AWG 5000m	8007077
SOLARCABLE 6353D IEC & UL 6mm ² /10AWG Cutting length	8007078
SOLARCABLE 6352D IEC & UL 4mm ² /12AWG 100m	8007079
SOLARCABLE 6352D IEC & UL 4mm ² /12AWG 500m	8006638
SOLARCABLE 6352D IEC & UL 4mm ² /12AWG 5000m	8007080
SOLARCABLE 6352D IEC & UL 4mm ² /12AWG Cutting length	8007081



SOLARLOK[®] 2.0



Video tutorial

Our highlights at a glance

- SOLARLOK 2.0 is equipped with the „Standard Solar Interface“ (commonly called MC4[®] interface)
- The installation is done in **ONLY** 3 steps
- Connectors are using Insulation Displacement Contact (IDC) - **WITHOUT** stripping and crimping
- Reduction of total costs within the value chain
- Reduction of installation time by 80% compared to traditional available PV DC connectors
- No special tool required
- Thanks to the CE certification allows the processing by non-expert personnel
- Unique gel filling ensures IPX8 water ingress protection (1m/24 hours)
- Equipped with a „dove tail“ device to chain them together side by side
- Mating connector for PV4-S and PV4-M



Mechanical characteristics

2,5 mm² / 14 AWG

4,0 mm² / 12 AWG

6,0 mm² / 10 AWG

Applicable for solar cables with an Outer diameter from 5.5 mm up to 7.2 mm

Specification

Certified to UL6703 - 1500V

Certified to IEC62852 - 1500V

CE certification

Technical characteristics

UL 15 A and TÜV 25 A: 2,5 mm² / 14 AWG (at 85°C)

UL 20 A and TÜV 30 A: 4,0 mm² / 12 AWG (at 85°C)

UL 30 A and TÜV 35 A: 6,0 mm² / 10 AWG (at 85°C)

Item name

Item number

SOLARLOK 2.0 Pin

8005406

SOLARLOK 2.0 Socket

8005407

SOLARLOK 2.0 Starter KIT KW

8006256

SOLARLOK 2.0 Hand Tool

8005408

SOLARLOK 2.0 Open Tool

8005409

SOLARLOK Dust Cover

8005980

SOLARLOK Dust Cover

8005981



SOLARLOK 2.0 Pin
8005406



SOLARLOK 2.0 Socket
8005407



SOLARLOK 2.0 Hand Tool
8005408



SOLARLOK
Dust Cover
8005980



SOLARLOK
Dust Cover
8005981



SOLARLOK 2.0
Open Tool
8005409

SOLARLOK[®] 2.0 Splice

The SOLARLOK 2.0 Splice is a connector that can be installed on site without tools. Connectors are using Insulation Displacement contact (IDC) **WITHOUT** stripping and crimping. It provides the installer with a simple, fast and reliable connection from PV cable to PV cable. This satisfies the latest solar PV requirements. SOLARLOK 2.0 Splice can be applied in a range from 2.5mm² (AWG14) to 6mm² (AWG10) and is filled with gel, which is a unique feature in the solar market, to ensure IPX8 water ingress protection.

Our highlights at a glance

- The installation is done in **ONLY** 3 steps
- Reduction of installation time by 80%
- Unique gel filling ensures IPX8 water ingress protection (1m/24 hours)
- Durable, fast, flexible and simple → SOLARLOK 2.0 Splice
- Equipped with a „dove tail“ device to chain them together side by side

Mechanical characteristics

2,5 mm² / 14 AWG

4,0 mm² / 12 AWG

6,0 mm² / 10 AWG

Applicable for solar cables with an Outer diameter from 5.5 mm up to 7.2 mm

Specification

Certified to UL6703- 1500V

Certified to IEC62852- 1500V

CE certification

Technical characteristics

UL 15 A and TÜV 25 A: 2,5 mm² / 14 AWG (at 85°C)

UL 20 A and TÜV 30 A: 4,0 mm² / 12 AWG (at 85°C)

UL 30 A and TÜV 35 A: 6,0 mm² / 10 AWG (at 85°C)



Item name

Item number

SOLARLOK 2.0 Splice

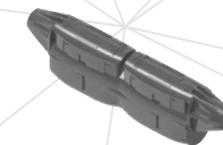
8006438

SOLARLOK 2.0 Hand Tool

8005408



SOLARLOK 2.0
Hand Tool
8005408

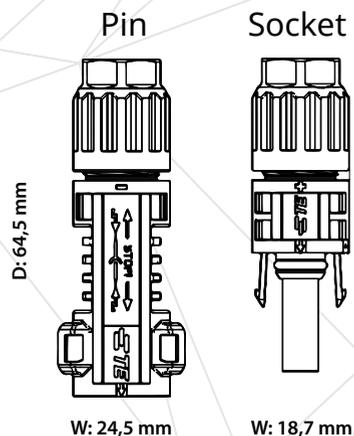


SOLARLOK 2.0
Splice
8006438

SOLARLOK® PV4-S

Our highlights at a glance

- Suitable for 1000 V DC and 1500 V DC
- For cable cross-sections from 2.5 mm² (AWG 12) to 6 mm² (AWG 10)
- High certification standards – IEC and UL
- IP68 protection rating (1m/24 hours)
- Minimised line losses due to reduced contact resistance
- Individual packaging possible
- Durable, fast, flexible and simple



Mechanical characteristics

63mm x 24,5mm (Pin)
59,5mm x 18,7mm (Socket)
IP68 protection class (1m/24h)

Specification

Certified to IEC62852 - 1000V DC / 1500 V DC
Certified to UL6703 - 1000V DC / 1500 V DC

Technical characteristics

UL 15 A and TÜV 30 A	2,5mm ² / 14 AWG (at 85°C)
UL 20 A and TÜV 40 A	4,0mm ² / 12 AWG (at 85°C)
UL 30 A and TÜV 45 A	6,0mm ² / 10 AWG (at 85°C)

Item name

Item number

SOLARLOK PV4-S DC Connector - Socket	8006139
SOLARLOK PV4-S DC Connector - Pin	8006138
SOLARLOK PV4-S DC Connector - Pin 100er Pack	8006458
SOLARLOK PV4-S DC Connector - Socket 100er Pack	8006459
SOLARLOK PV4 Open Tool	8006444
SOLARLOK PV4 Hand Tool	8006123



SOLARLOK PV4-S Socket
8006139



SOLARLOK PV4-S Pin
8006138



SOLARLOK PV4-S Hand Tool
8006123



SOLARLOK PV4-S
Open Tool
8006444

SOLARLOK SlimLine Connector



Our highlights at a glance

- The smallest connector on the market
- SlimLine connector with click connection system
- Positive, negative and neutral all coded
- IP67 protection rating

Application

- Solar panels for Building Integrated Photovoltaics (BIPV) and Vehicle Integrated Photovoltaics (VIPV)
- Architectural applications
- Situations with limited installation space

Mechanical characteristics

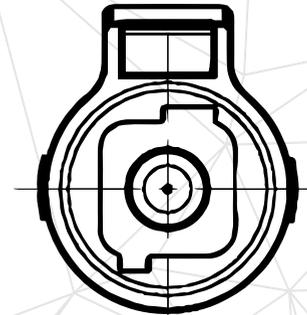
Temperature: -40°C to +85°C
wire size: 2,5mm² - 4mm²
IP67 protection class

Technical characteristics

UL 15 A and TÜV 30 A 2,5mm² / 14 AWG (at 85°C)
UL 20 A and TÜV 40 A 4,0mm² / 12 AWG (at 85°C)



Positive coding



Negativ coding

Item name

Item number

SlimLine Pin Negativ coding	8006300
SlimLine Socket Negativ coding	8006301
SlimLine Pin Positive coding	8006480
SlimLine Socket Positive coding	8006481
SOLARLOK Slimline Crimping Tool	8001973



SlimLine Pin
Plus/Minus coding



SlimLine Socket
Plus/Minus coding



SOLARLOK Slimline
Crimping Tool
8001973

Cable manufacture

PV cabling and wiring professionals are often under time pressure in their work and therefore want cables and components that they can and components that they can install quickly on site without much effort.

For requirements like these, there is our service:

With us you get exactly the right cable, in the desired length, with the desired properties and connections.

In line with our slogan, of course. **Anytime and anywhere, KRÜGER-Werke GmbH.**

Individually tailored and adapted to them.

Thanks to state-of-the-art machinery and equipment and the use of innovative technologies, we ensure smooth operations and maximum efficiency in wire processing and testing, absolutely safe processes and high plant availability.

We are always in contact with our customers, suppliers and partners.

This experience flows into every single assembly.



KRÜGER^E Werke GmbH

We offer you:

- ✓ short delivery times
- ✓ large stock with an availability of more than 10.000 products from stock
- ✓ professional competence with personal advice
- ✓ free shipping from 100,00€ within Germany



Anytime and anywhere, KRÜGER-Werke GmbH.

We look forward to a good cooperation and are happy to answer any questions you may have.



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