Photovoltaic connectors

Product overview 2016/2017

PHOENIX CONTACT
INSPIRING INNOVATIONS

Photovoltaic connectors for DC and AC cabling

Are you looking for innovative and reliable connection technology for your photovoltaic panels, inverters or the complete photovoltaic system? Then Phoenix Contact is the right partner for you!

We offer the perfect and consistent solution for cabling your photovoltaic system.

Web code: #0353

Find out more with the web code

You can find web codes in this brochure: a pound sign followed by a four-digit number combination.

Web code: #1234 (example)

This allows you to access information on our website quickly.

It couldn't be simpler:

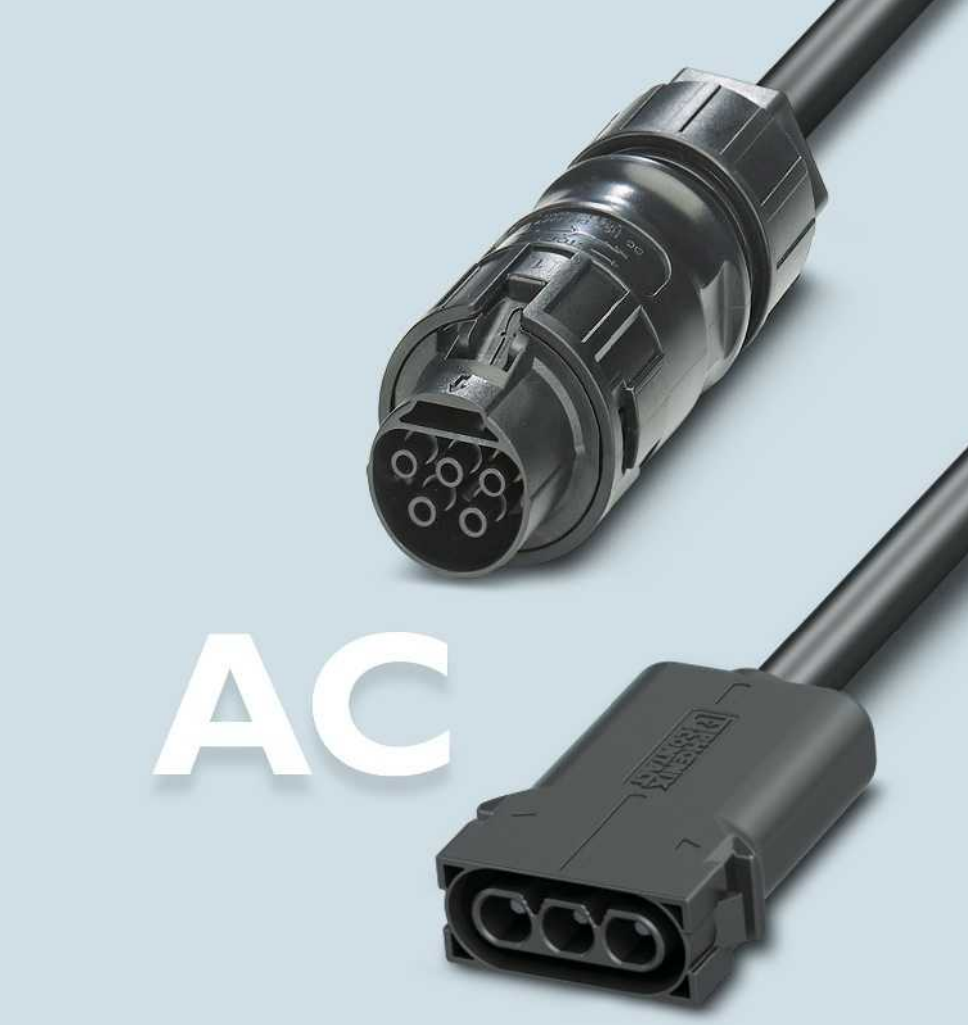
1. Go to the Phoenix Contact website
2. Enter # and the number combination in the search field
3. Get more information and product versions

#1234 **Search**

Or use the direct link:
phoenixcontact.net/webcode/#1234

DC connectors

- Currents up to 65 A
- Voltages up to 1500 V
- Conductor cross sections from 2.5 to 16 mm²
- Connection technology for building-integrated photovoltaics (BIPV)



AC connectors

- Currents up to 70 A
- Voltages up to 690 V
- Conductor cross sections from 1.5 to 16 mm²
- Circular and rectangular connectors
- Connection technology for micro inverters

Contents

The right connection technology for every application

Building-integrated photovoltaics (BIPV)

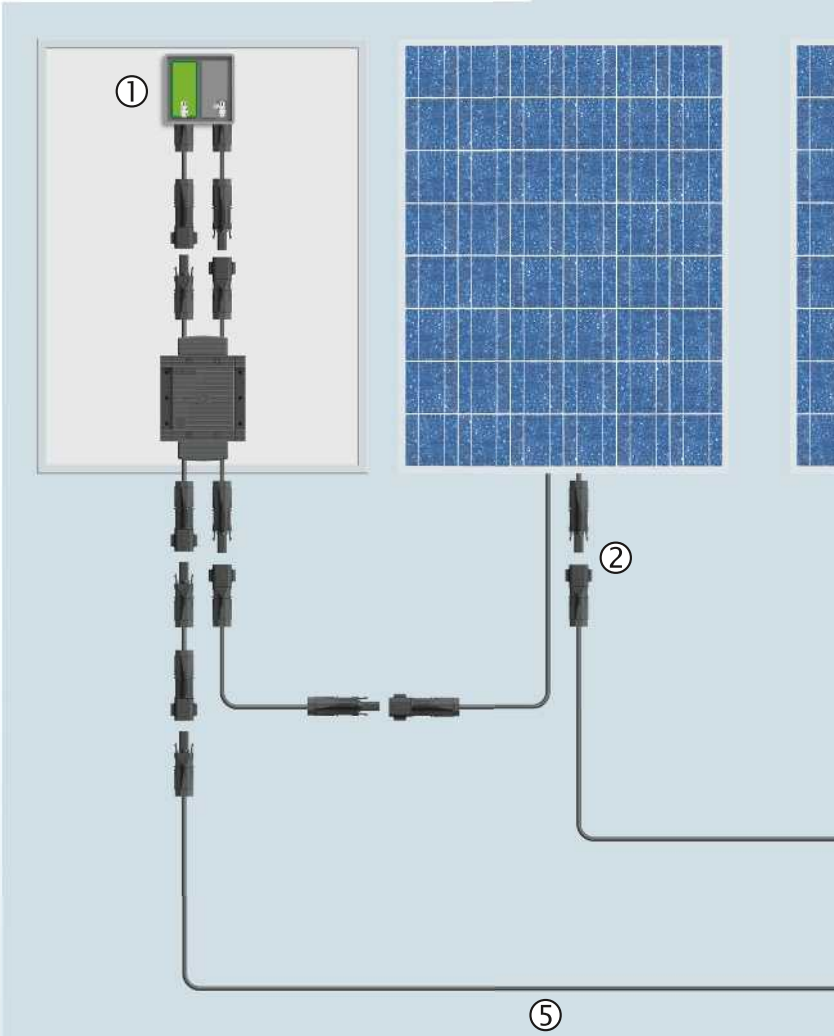
Rooftop systems

Free-standing systems

Product range overview
Photovoltaic connectors

We have the right connection solution for you – from connection technology for photovoltaic panels to DC connectors for field cabling and device connection for signals, data, and power.

The tailored, high-quality components contribute to the long-term and increased availability of your system.



Web code:
#0353

Seamless connection technology from the photovoltaic panel to the supply

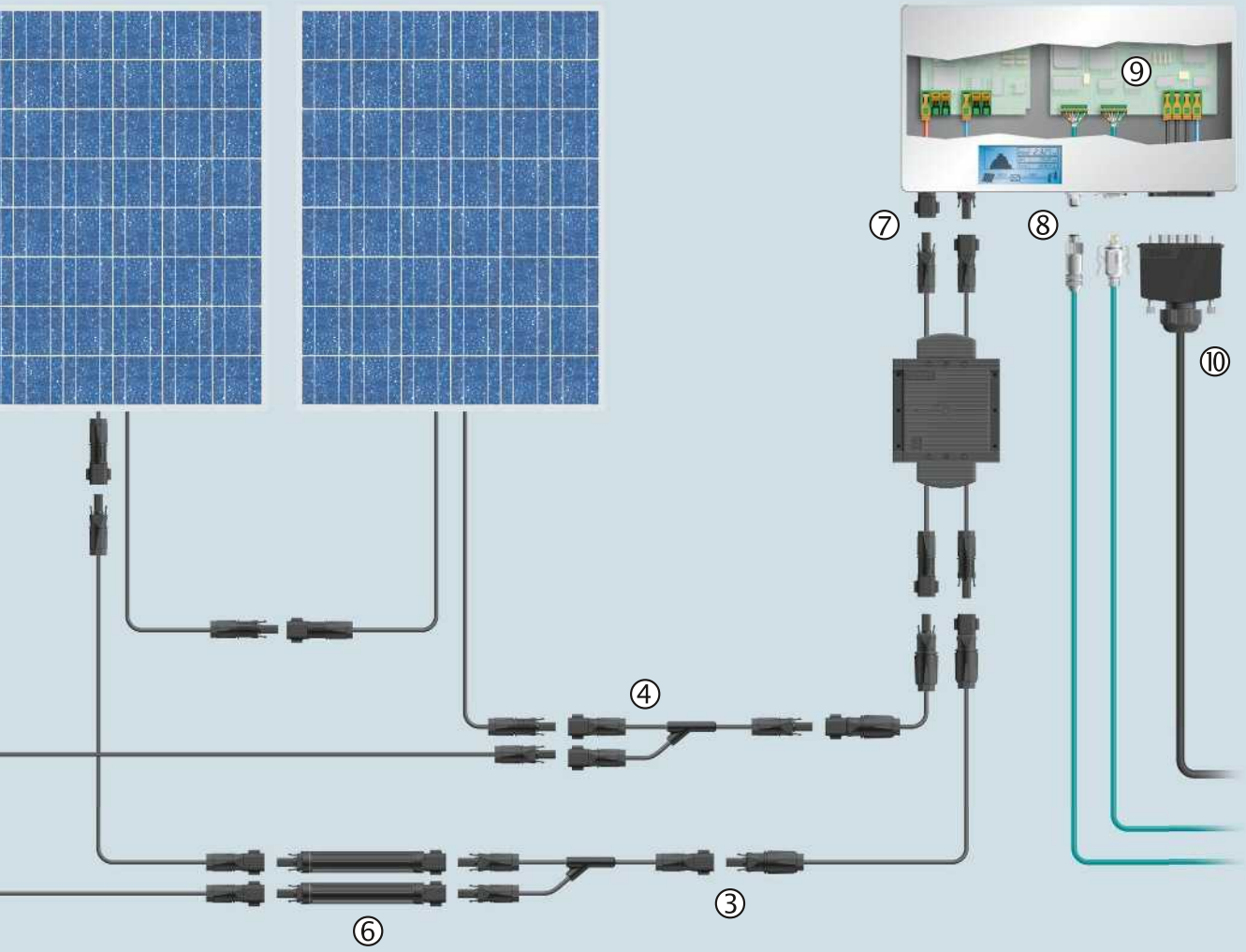
PCB terminal blocks for module junction boxes

Connector with crimp connection for module junction boxes

DC connectors with SUNCLIX spring connection

Y-distributors

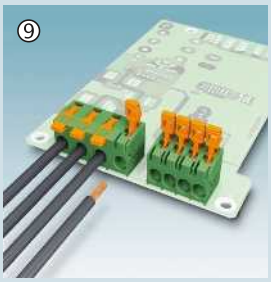
Photovoltaic cables



DC fuse adapters

DC panel feed-throughs

Data and signal connectors



PCB connections

AC connectors

DC connection technology for photovoltaic panels

Using cost-optimized PCB terminal blocks without insulating bodies, you can connect circular and flat conductors to the module junction box quickly and safely.

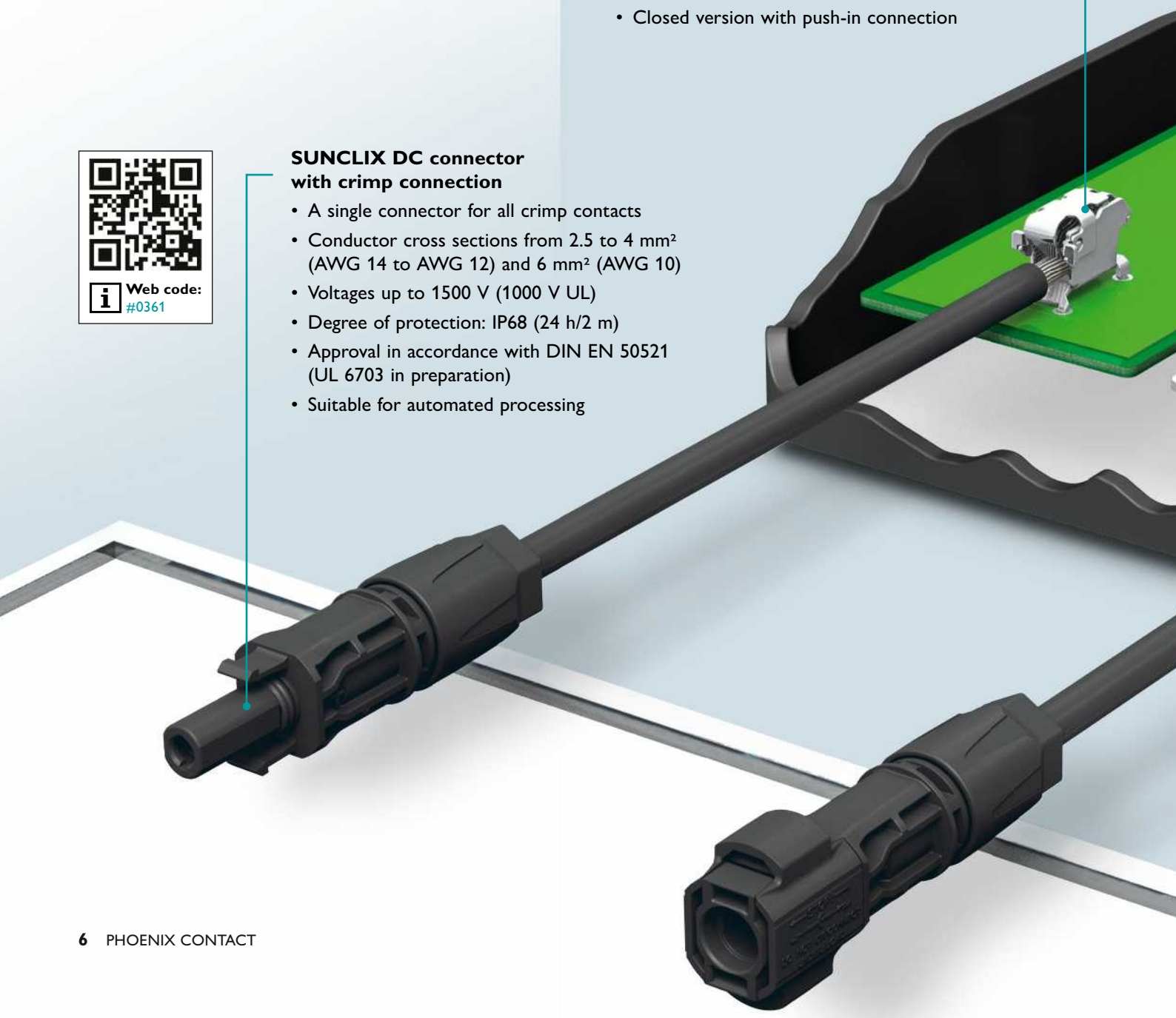
PTSPL 6 PCB terminal block with solder connection

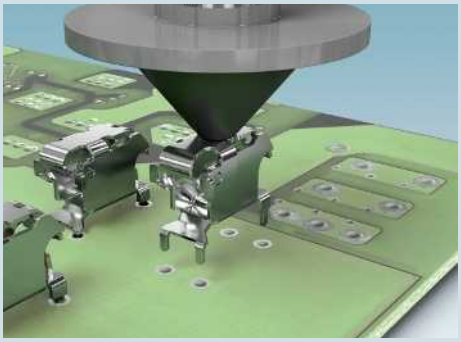
- Currents up to 41 A
- Designed for automated THR soldering processes
- Available with a solder pin length of 2.1 or 2.9 mm
- SUNCLIX spring connection for conductor cross sections from 2.5 to 6 mm²
- Closed version with push-in connection

Web code: #0361

SUNCLIX DC connector with crimp connection

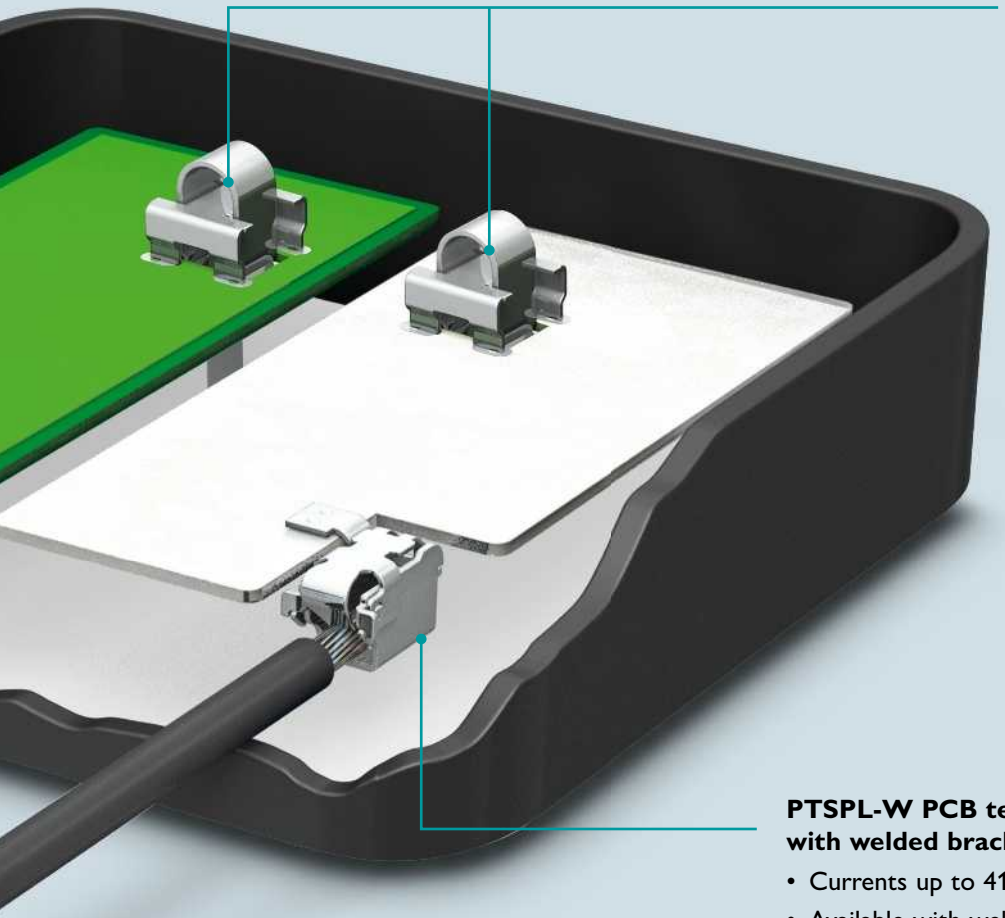
- A single connector for all crimp contacts
- Conductor cross sections from 2.5 to 4 mm² (AWG 14 to AWG 12) and 6 mm² (AWG 10)
- Voltages up to 1500 V (1000 V UL)
- Degree of protection: IP68 (24 h/2 m)
- Approval in accordance with DIN EN 50521 (UL 6703 in preparation)
- Suitable for automated processing





Optimized for SMT and THR mounting thanks to integrated suction areas

Insert the stripped conductor, snap in the spring, and you're done!



PT-SG 1 PCB terminal block for contacting flat-ribbon conductors

- Currents up to 41 A
- Flat-ribbon conductor: up to 8 x 0.1 to 2 mm²
- Suitable for fully automated PCB assembly
- THR item for reflow soldering

PTSPL-W PCB terminal block with welded bracket

- Currents up to 41 A
- Available with welded bracket right or left for spot-welding procedures
- SUNCLIX spring connection for conductor cross sections from 2.5 to 6 mm²
- Delivery with closed spring in bulk or in the tray for automated processes

DC connection technology for field cabling

When installing photovoltaic systems, there is now a more efficient way of wiring cables of various lengths from the panel to the inverter – with the SUNCLIX connection system from Phoenix Contact.

The one-piece DC connectors can be connected quickly and easily without using special tools thanks to spring technology. The unique spring technology ensures that contact to the conductors is always reliable and stable.

Fuse adapters

- Robust, easy-to-install fuse element for outdoor use
- High-quality Littelfuse fuse link
- Nominal currents of the fuse link: 6 to 30 A
- 1000 V/1500 V (EN) or 600 V/1000 V (UL) system voltage
- Degree of protection: IP68 (24 h/2 m)
- UL 6703 in preparation

Connectors with crimp connection

- For conductor cross sections from 2.5 to 6 mm²
- Voltages up to 1500 V
- Degree of protection: IP68 (24 h/2 m)
- Approval in accordance with DIN EN 50521 (UL 6703 in preparation)

Web code: #0543

Panel feed-throughs

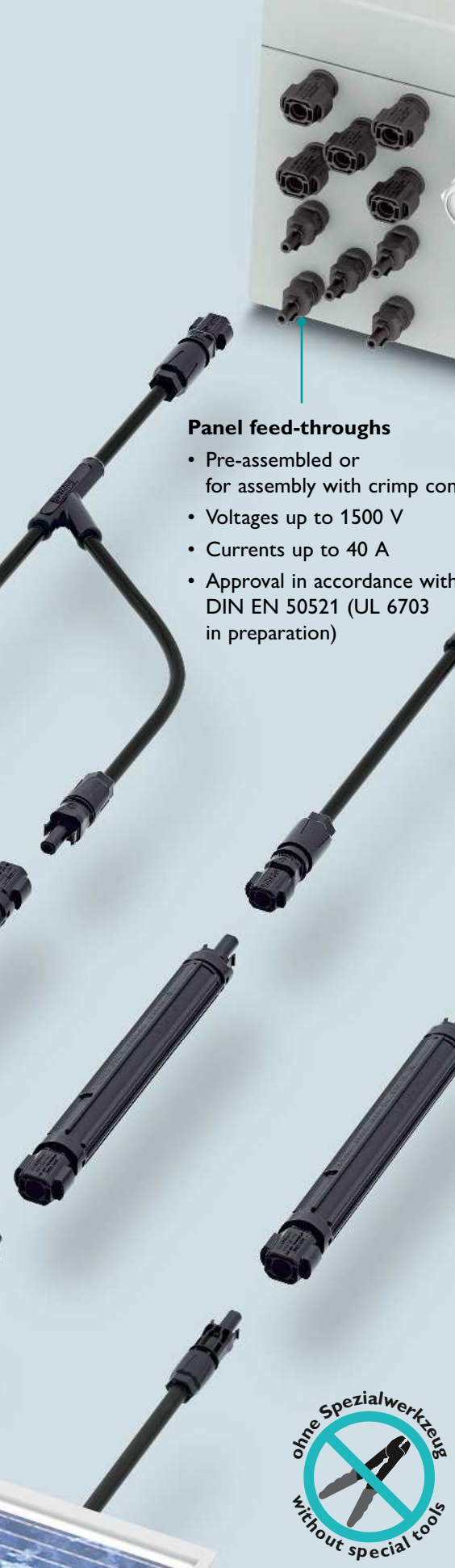
- Pre-assembled or for assembly with crimp connection
- Voltages up to 1500 V
- Currents up to 40 A
- Approval in accordance with DIN EN 50521 (UL 6703 in preparation)

Connectors for field assembly

- Only two versions for conductor cross sections from 2.5 to 16 mm²
- Patented SUNCLIX spring connection
- Voltages up to 1100 V or 1500 V
- Degree of protection: IP68 (24 h/2 m)
- Approval in accordance with DIN EN 50521 and UL 6703

Y-distributors

- For the parallel connection of panels and strings
- Voltages up to 1100 V
- Customer-specific pre-assembly possible
- Choice of 4 or 6 mm² conductor cross section for the trunk line
- According to DIN EN 50521



SUNCLIX spring connection

Insert the stripped photovoltaic conductor

Press down on the spring and snap it in place

Tighten the screw connection - you're done!

DC panel shutdown – intelligent and autonomous

Photovoltaic rooftop systems generate DC voltages of up to 1000 volts and cannot be disconnected easily on the DC side. This presents a problem if the system is damaged. SOLARCHECK RSD automatically shuts down your system safely. You are protected from the risk of fatal electric shock during installation and maintenance or in dangerous situations.

Photovoltaic panel shutdown with Auto Rapid Shutdown

SOLARCHECK RSD analyzes the current and voltage conditions on the DC side in the system. Deviations from the normal state or shutdown of the inverter result in automatic shutdown of the photovoltaic panels. The system is restarted automatically when a technically safe environment is present.

New

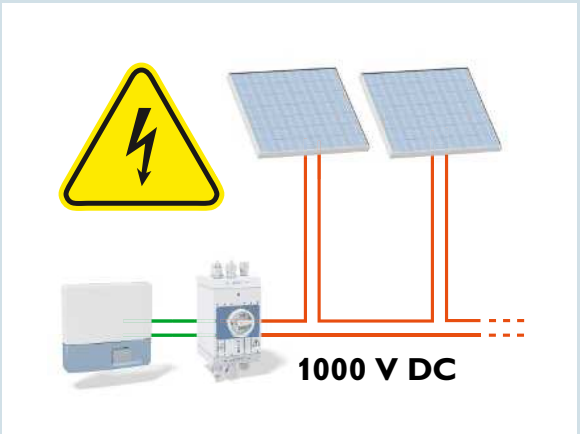
Web code: #0609

Auto Rapid Shutdown

Your advantages

- Safe connections which are stable over the long term thanks to tried-and-tested SUNCLIX components
- Safety as a result of patented fault detection and safe photovoltaic panel shutdown
- Controlled restart via safe autostart
- No additional communication is necessary via cables or wirelessly
- Easy to install in new and existing systems using existing DC cables
- Simple startup: no programming or manual set-up

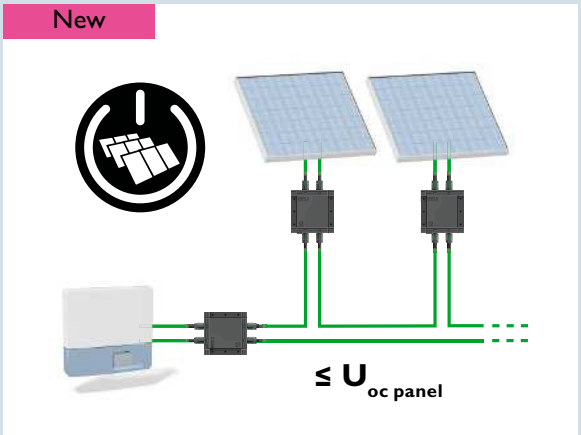
Intelligent photovoltaic panel shutdown with SOLARCHECK RSD



Danger to life without panel shutdown

The series connection of photovoltaic panels to strings generates voltages of up to 1000 volts. Disconnection at the inverter is not safe, as the DC cables continue to carry high voltages.

New

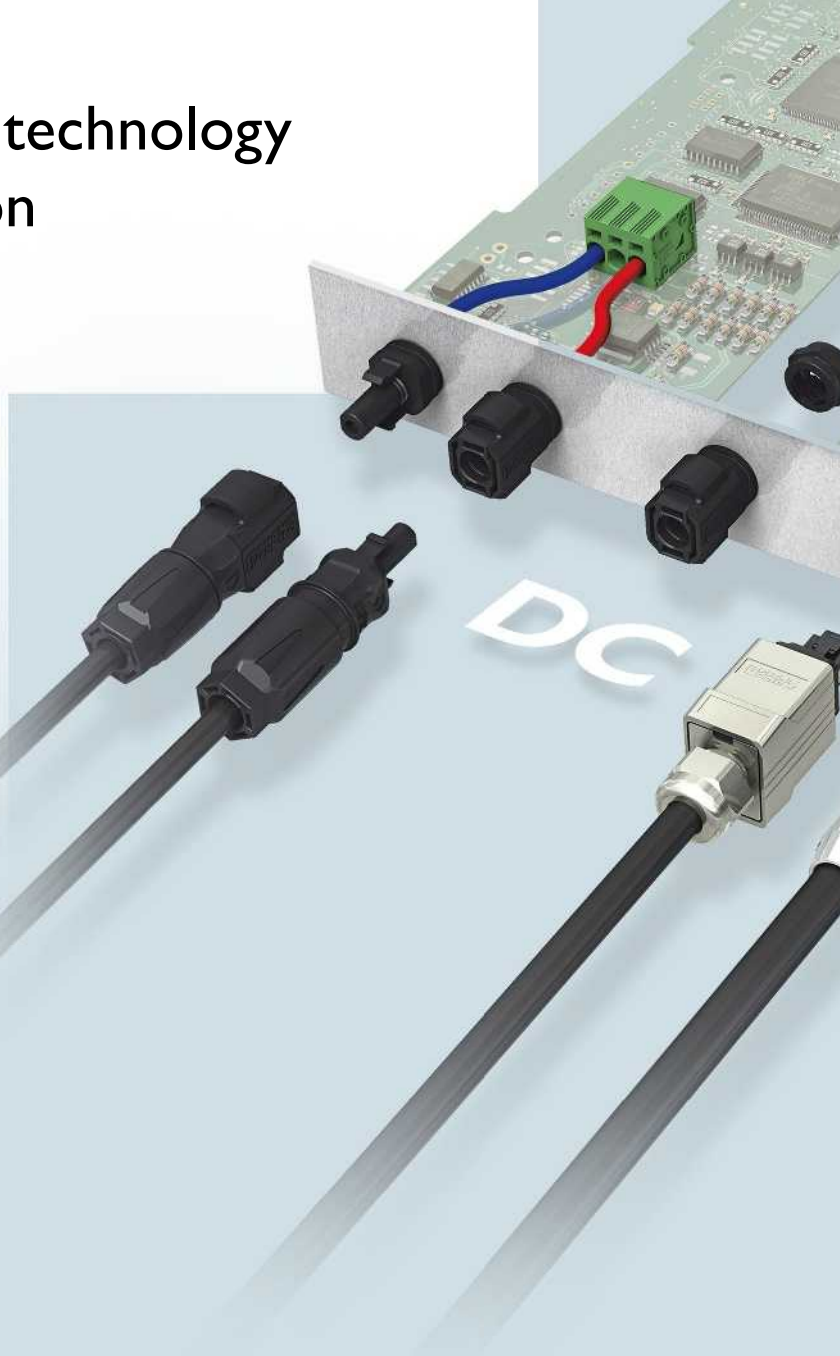


Electrical safety with panel shutdown

Each shutdown unit disconnects the corresponding photovoltaic panel from the string group. There is no risk of electric shock posed by the system.

AC and DC connection technology for the device connection

Phoenix Contact provides a comprehensive range for connection to inverters of all performance classes. Whether AC or DC, circular or rectangular, for signals, data or power – the connectors cover a wide range of requirements. Device connectors, PCB connection technology and accessories complete the comprehensive portfolio.



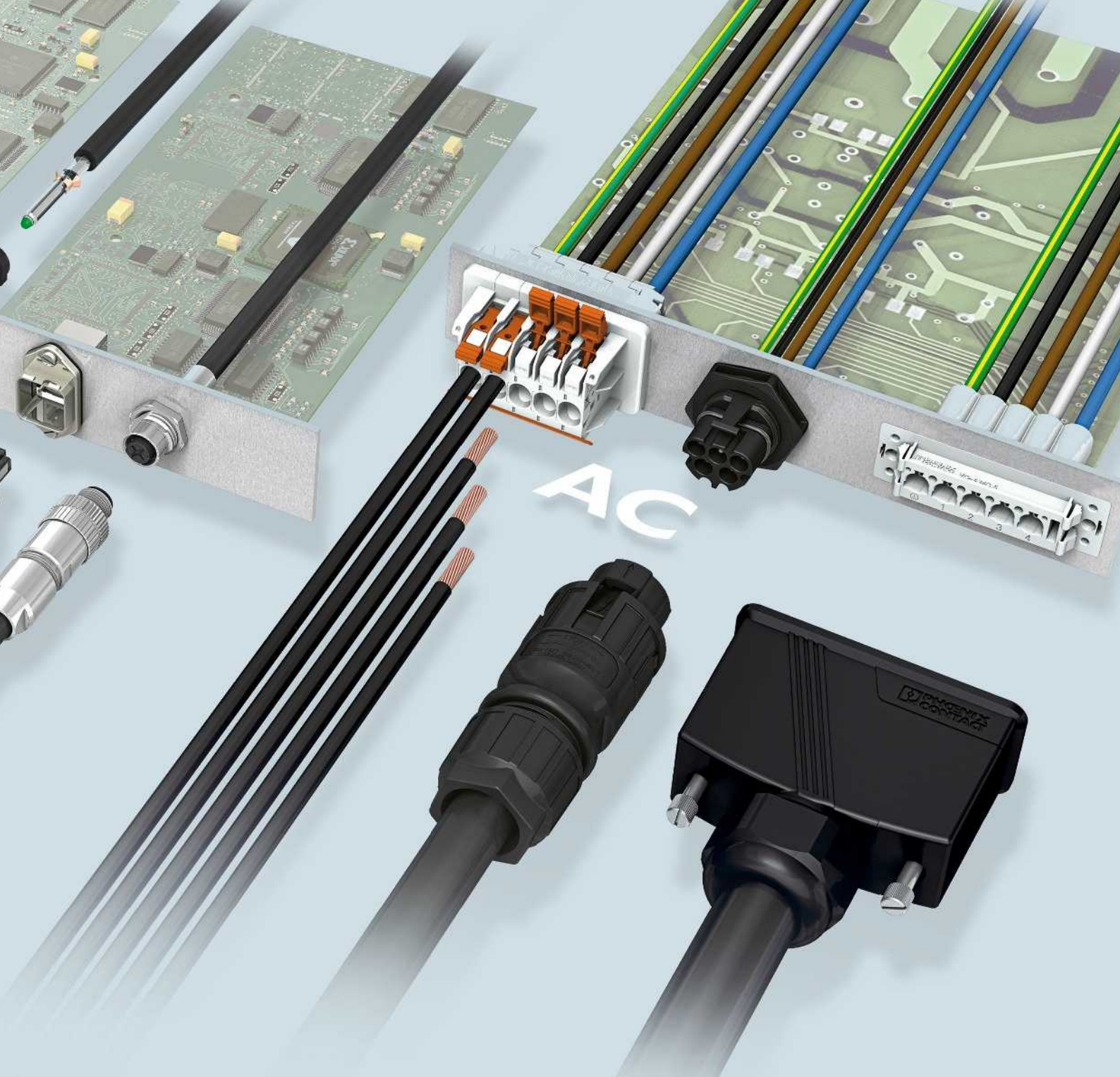
Web code: #0353

SUNCLIX DC connectors with spring connection

- Currents up to 65 A
- Voltages up to 1500 V
- Conductor cross section of 2.5 to 16 mm²
- Degree of protection: IP66/IP68 (24 h/2 m)

Signal and data connectors

- Copper and fiber optic-based data connectors
- M5 to M23 signal connectors
- 3- to 19-pos. signal connectors
- Connector systems for assembly and pre-assembled connector systems
- Solutions for IP20, IP65/IP67 and IP69K



PLW 16 panel feed-through terminal block with push-lock spring connection

- For 1-phase and 3-phase devices
- Easy connection and removal of conductors using a push-in spring connection on the outside
- Fast push-in spring connection on the inside
- Currents up to 41 A
- Voltages up to 1000 V
- Conductor cross section of 2.5 to 16 mm²
- Can be sealed

AC PRC connectors with screw connection

- For 1-phase and 3-phase devices
- Currents up to 35 A
- Voltages up to 630 V
- Conductor cross section of 1.5 to 6 mm²
- Degree of protection: IP68 (24 h/2 m)
- Can be sealed

VARIOCON AC connectors with screw connection

- For 1-phase and 3-phase devices
- Currents up to 70 A
- Voltages up to 690 V
- Conductor cross section of 1.5 to 16 mm²
- Degree of protection: IP65/IP68 (24 h/2 m)

AC connection technology for micro inverters

Are you looking for an innovative, universal, and easy-to-install connection technology for your micro inverters?

SUNCLIX micon, the new connection system from Phoenix Contact, was developed to meet your requirements. This connection system is user-friendly and can be pre-assembled according to your requirements to enable "Plug and Play" at the installation site.

Unlocking tool

The locking mechanism on the connectors is extremely robust and prevents unintentional release. The lock is opened quickly and easily using the unlocking tool. Thanks to an additional latch, it does not fall out of the connector housing once it has been released.

Web code: #0354

AC-Y connectors

The AC-Y connector consists of two 3-pos. connections, which are connected to each other via the trunk line without the risk of polarity reversal. In addition to accommodating the trunk line, the coupling side also accommodates the drop line, which serves as a connection to the inverter.

Protective caps

Dust protective caps, made from biodegradable plastic, protect the pin connector pattern from contamination during transport. When it comes to installation, they can be easily removed from the connector without any special tools. During installation, the IP protective caps are inserted as end caps on the last connector, in order to protect the connector from atmospheric influences.

Main features

- Three-pos., coded pin connector pattern (protection against polarity reversal)
- Maximum reliability, thanks to SUNCLIX contacts
- Trunk line:
  - Nominal currents up to 600 A
  - Voltages up to 20 V
- Drop line:
  - Nominal currents up to 5 A (use of micro inverters with 500 W output power possible)
- Degree of protection: IP67
- Connection system for the AC and DC side of your micro inverters from a single source
- Approval in accordance with UL 6703

DC connectors with spring connection

With the SUNCLIX DC connectors as a device connector or for field assembly, you can also impress with performance and quality on the panel side.

Mains connectors

The mains connectors provide the connecting link between the photovoltaic system and mains. Depending on the system structure, the mains can be connected via the connector or coupling side of the AC-Y connector. The free cable end is either connected in a distributor box or fed into a service panel via a cable sleeve.

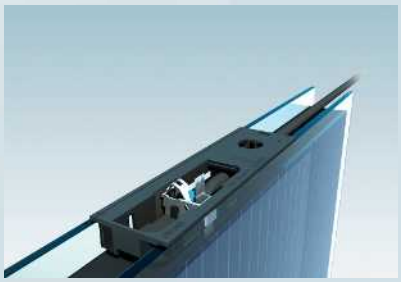
DC connection technology for building-integrated photovoltaics (BIPV)

Phoenix Contact is offering a particularly compact DC connection system, SUNCLIX mini, which is designed to meet the trend of producing energy using photovoltaics integrated into buildings. For a permanently safe and secure connection from panel to inverter.

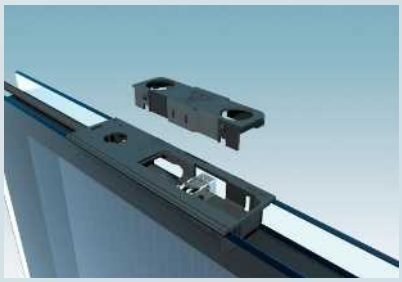
Web code: #0357

Installation of the module junction box

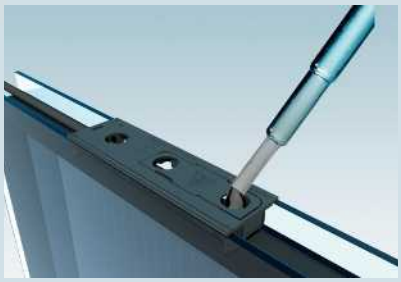
1. Position the module junction box above the ribbon



2. Remove the adhesive strip and position the module junction box on the edges of the glass



3. Insert the ribbon into the spring case and snap in the spring. Close the connection area with the cover



4. Fill the module junction box with sealant using the special openings one after the other

Single-position module junction box

One module junction box is used per ribbon (right and left module junction box). Both module junction boxes are integrated into the building-integrated panel and sealed with sealant.

- Current: 15 A
- Voltage: 1000 V DC
- Qualified ribbon:
  Width: 5 mm/thickness: 0.05 to 0.2 mm
- Conductor cross section: 2.5 mm²
- Spring connection

Miniature DC connectors for assembly

The compact design of the connectors enables concealed installation behind the photovoltaic panels or direct installation within building-integrated frames.

- Current: 15 A
- Voltage: 1000 V
- Conductor cross section: 2.5 mm²
- Compact design: Ø only 11 mm
- Pierce connection
- Degree of protection: IP67
- Approval in accordance with DIN EN 50521

Compact DC string diode

The stable housing and flat design of the DC string diode protects the panels from return currents created as a result of shading.
The optimized design ensures effective heat dissipation and, as a result, the long service life of the components.

- Current: 5 A
- Voltage: 1000 V
- Reverse voltage: 2200 V
- Conductor cross section: 2.5 mm²
- Degree of protection: IP67
- Approval in accordance with DIN EN 50548 (VDE 126-3)

Technical data and ordering information

The following tables contain selected components together with their key technical properties. Thanks to integrated web codes, you can find more information about the products listed in our web portal.

DC connection technology for photovoltaic panels

Web code: #0361

PCB connection for photovoltaic applications




Description	Push-lock PCB terminal block with spring connection for circular conductors				Push-lock terminal block with spring connection and welded bracket		Push-lock terminal block with spring connection for flat-ribbon conductors	
	Solder pin length	Order No.	Solder pin length	Order No.	Version	Order No.	Solder pin length	Order No.
	2.1 mm	1704836	2.1 mm	1705081	Welded bracket right	1705624	2.1 mm	1841830
	2.9 mm	1704837	2.9 mm	1705085	Welded bracket left	1705625	2.9 mm	1841843
Design	Closed		Open		Closed		Closed	
Cross section	max. 6 mm²							
Number of positions	1							
Nominal current	max. 41 A							

Web code: #0674

SUNCLIX DC connectors
For assembly with crimp connection




Description	Housings for male (-) crimp connectors	Housings for female (+) crimp connectors	Contacts for crimp connection		Contacts for crimp connection	
Type	Pin (-)	Socket (+)	Pin contact		Socket contact	
Order No.	1622661	1622662	1704927	1704928	1704930	1704931
Cross section	-	-	2.5 / 4 mm² 14 AWG/12 AWG	6 mm² 10 AWG	2.5 / 4 mm² 14 AWG/12 AWG	6 mm² 10 AWG
External cable diameter	5 mm … 8 mm	5 mm … 8 mm	-	-	-	-
Rated voltage	1500 V (1000 V UL)	1500 V (1000 V UL)	-		-	
Nominal current	-	-	max. 30 A		max. 30 A	
Degree of protection	IP68 (24 h / 2 m)	IP68 (24 h / 2 m)	-		-	
Product information	Temperature range: -40 °C … +90 °C, Protection class II, approval in accordance with UL 6703 and DIN EN 50521 (in preparation).		Pcs./Pkt.: 1000 pcs./roll		Pcs./Pkt.: 1000 pcs./roll.	

DC connection technology for field cabling

Web code: #0358

SUNCLIX DC connectors

For assembly with SUNCLIX spring connection

Type	Pin (-)	Socket (+)	Pin (-)	Socket (+)	Pin (-)	Socket (+)
Order No.	1774687	1774674	1789834	1789821	1790797	1790784
Cross section	2,5 mm² … 6 mm²		2,5 mm² … 6 mm²		6 mm² … 16 mm²	
Rated voltage	1100 V		1500 V		1500 V	
Nominal current	max. 40 A		max. 40 A		max. 65 A	
Degree of protection	IP65/68 (24 h/2 m)		IP66/68 (24 h/2 m)		IP66/68 (24 h/2 m)	
Product information	Temperature range: -40 °C … +85 °C, protection class II, approval in accordance with UL 6703 and DIN EN 50521.		Temperature range: -40 °C … +85 °C, protection class II, approval in accordance with DIN EN 50521.			

SUNCLIX

Description	Solar cable				Fuse adapter				Y-distributors (cable-based)		
Product information	Tin-plated single litz wires, suitable for permanent and flexible installation; double insulation, voltage 1800 V DC; insulating and sheath material offers excellent resistance to weather, UV rays, and wear; TÜV and VDE-certified cable in accordance with DIN EN 50618				Fuse adapters for securing panels and devices in photovoltaic systems				Connection set with branch line (4 mm²) for fast parallel interconnection of photovoltaic panels. Length of the individual cables: 120 mm each; other lengths possible on customer request.		
	Cross section	100 m ring	500 m drum	1000 m drum	Nominal voltage 1000 V	I_{nom}	1500 V	I_{nom}	Trunk line cross section	Design	Order No.
Order No.	2.5 mm²	1459509	1459540	1459566	1622788	6	1622787	5	4 mm²	Pin to 2x socket (-/++)	1795019
Order No.	4 mm²	1459511	1787700	1459579	1622153	8	1622146	7	4 mm²	Socket to 2x pin (+/--)	1795022
Order No.	6 mm²	1459524	1787713	1459582	1622154	10	1622147	10	6 mm²	Pin to 2x socket (-/++)	1787726
Order No.	10 mm²	1459537	1459553	1459595	1622155	12	1622148	11	6 mm²	Socket to 2x pin (+/--)	1787739
Order No.					1622156	15	1622149	13			
Order No.					1622157	20	1622150	17			
Order No.					1622158	25	1622151	23			
Order No.					1622159	28	1622152	25			
Degree of protection		–							IP66/IP68 (24 h/2 m)		
Ambient temperature (operating)		-40 °C … +90 °C							-40 °C … +85 °C		
Accessories					A spacer for improved heat dissipation is available as an option (see Accessories on page 20)						

SOLARCHECK RSD DC panel shutdown

Web code: #0609

SOLARCHECK RSD

	Shutdown unit	Startup unit, autonomous	Startup unit, externally supplied
Type	SCK-RSD-100	SCK-RSD-400	SCK-RSD-600
Order No.	2905029	2905030	2906273
Input voltage range	20 V DC ... 50 V DC	40 V DC ... 800 V DC	40 V DC ... 800 V DC
System voltage	≤ 1000 V DC	≤ 1000 V DC	≤ 1000 V DC
Max. input current	10 A	10 A	10 A

DC connection technology for the device connection

Web code: #0359

SUNCLIX
DC device connector
130 mm litz wire length; other lengths available on request



Type	Pin	Socket	Pin	Socket	Pin	Socket
Order No.	1805148	1805135	1805164	1805151	1805180	1805177
Cross section	2.5 mm²		4 mm²		6 mm²	
Rated voltage	1500 V		1500 V		1500 V	
Nominal current	max. 27.5 A		max. 40 A		max. 40 A	
Degree of protection	IP65/66/68 (24 h / 2 m)		IP65/66/68 (24 h / 2 m)		IP65/66/68 (24 h / 2 m)	
Properties	Temperature range: -40 °C … +85 °C, approval in accordance with DIN EN 50521 and UL 6703 (in preparation), Required accessories: 1775880.					

SUNCLIX
DC device connector
For user assembly



Description	Plastic housings		Contacts for crimp connection		Contacts for crimp connection	
Type	Pin	Socket	Pin	Socket	Pin	Socket
Order No.	1704925	1704926	1704927	1704930	1704928	1704931
Cross section			2.5 mm² / 4 mm² (14 AWG/12 AWG)		6 mm² (10 AWG)	
Rated voltage	1500 V					
Nominal current			max. 40 A		max. 40 A	
Degree of protection	IP66 / IP68 (24 h / 2 m)					
Properties	Temperature range: -40 °C … +85 °C, approval in accordance with DIN EN 50521 and UL 6703 (in preparation), required accessories: 1775880.		Temperature range: -40 °C … +85 °C, approval in accordance with DIN EN 50521. Pcs./Pkt.: 1000 pcs./roll.			

Accessories and tools

Web code: #0362




Description	Fastening nut	Protective cap	Filler plug	Spacer
Order No.	1775880	1785430	1775631	1623253
Properties	Nut for securing the SUNCLIX device connectors to the housing.	IP67 protective cap for SUNCLIX connectors; transport protection for the pin connector pattern; for sealing and protecting unused device inputs and for transport protection.	Filler plug for SUNCLIX connectors, IP67 in the cable gland.	Spacer for fuse adapters ensure better heat dissipation if multiple fuses are bundled in one application.





0.6 x 3.5 x 100 mm


Description	Crimping pliers	Mounting pliers	Test pin	SZF 1 screwdriver	Wirefox stripping tool
Order No.	1212755	1200137	1705589	1204517	1212511
Properties	For PV-CF(M) contacts 2.5, 4, and 6 mm² (AWG 14/12/10).	To snap the crimp contacts into the plastic housing. Suitable for conductor diameters of 4.2 … 6.0 mm.	For SUNCLIX device connectors, to check correct positioning of contacts during user assembly.	Actuation tool, for unlocking the SUNCLIX connectors as well as opening the SUNCLIX spring connection, also suitable for use as a flat-bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component handle, with non-slip grip.	For standard 2.5, 4, and 6 mm² solar cables, with 15 mm longitudinal stop, for SUNCLIX field connectors.

AC connection technology

Web code: #0356

PRC





Description		Field connectors	Device connectors	Device connectors	Device connectors	Test plugs
Order No.	3-pos.	1410661	1409219	1409220	1409221	1621326
Order No.	5-pos.	1410656	1409211	1409212	1409213	1621325
Conductor cross section		1,5 mm² … 6 mm²	2,5 mm²	4 mm²	6 mm²	
Cable length			150 mm	150 mm	150 mm	
Screw connection			M25	M25	M25	
Connection method		Screw connection	Crimp connection	Crimp connection	Crimp connection	Screw connection

PRC





Description	Holders	Contacts	Protective cap	PRC crimping tool	Nut
Order No.	3-pos.: 1409218	2.5 mm²: 1409207		2.5 mm²: 1867419	1457937
Order No.	5-pos.: 1409206	4 mm²: 1409208		4 mm²: 1867419, 1205859	
Order No.		6 mm²: 1409209		6 mm²: 1205859	
Order No. device connector protective cap			1409237		
Order No. field connector protective cap			1409236		

Web code: #0365

PLUSCON device

Modular rectangular connectors for the AC connection




Description		Panel feed-through with screw connection and panel mounting frame	Panel feed-through with conductor connection	Field connector sleeve housing	Field connector contact inserts
Type	Order No.				
Design: VC 2	4-pos.	1607745 + 1852985	1583877	1852948 + 1855107	1607467
Design: VC 3	5-pos.	1607748 + 1852998	1583878	1852961 + 1855120	1607474
Crimp contacts	4 mm²		1761467		
Crimp contacts	10 mm²		1761470		
Crimp contacts	16 mm²		1761483		
Rated voltage		690 V	690 V		690 V
Nominal current		63 A	70 A		70 A
Number of positions		4 – 7	4 – 5		4 – 7
Contact/contact surface material		Cu alloy/Ag	Cu alloy/Ag		Cu alloy/Ag
Connection method		Solder connection	Crimp connection		Screw connection

AC connection technology for micro inverters

Web code: #0354

SUNCLIX micon

Description	AC-Y connectors for PV micro inverters		Mains connector for the coupling side of the AC-Y distributor		Mains connectors for the connector side of the AC-Y distributor	
Order No.	1706518		1706517		1706609	
Cross section	Trunk	12 AWG	12 AWG		12 AWG	
	Drop	18 AWG				
Cable length	Trunk	1150 mm	Trunk	1000 mm	Trunk	1000 mm
	Drop	500 mm				
Rated voltage	600 V					
Nominal current	Trunk	20 A	20 A		20 A	
	Drop	5 A				
Degree of protection	IP67		IP67		IP67	
Product information	Version for the North American market. Approval in accordance with UL 6703.					

Accessories

Description	Dust protective caps for protecting the pin connector pattern during transport		IP protective caps for safe operation of the connection system		Unlocking tool for releasing the connectors
Order No.	For connector	1706608	For connector	1706610	1706514
	For coupling	1706599	For coupling	1706515	
Degree of protection	IP20		IP67		
Properties	Biodegradable plastic, can be removed without an unlocking tool.		Can only be removed with an unlocking tool.		After releasing the connector, the tool does not fall off, instead it remains on the connector housing.

SUNCLIX mini

Description	Miniature DC connectors for assembly		Single-position module junction box		Compact DC string diode	
Type	Pin (-)	Socket (+)	Left	Right	with SUNCLIX mini connectors	without connector, free cable ends
Order No.	1795336	1795323	1705132	1705131	1463065	1811239
Cross section	2.5 mm²		2.5 mm²		2.5 mm²	
Rated voltage	1000 V		1000 V		1000 V	
Nominal current	15 A		15 A		5 A	
Product information	Protection class II, Ø 11 mm, degree of protection: IP67, temperature range: -40°C … +85°C, approval in accordance with DIN EN 50521.		The width of the module junction box can be adapted by the customer (width from 18.3 mm … 34.3 mm). Ribbon width: < 5 mm, 0.05 … 0.2 mm thick, temperature range: -40°C … +85 °C.		Protection class II, 100 x 38 x 11 mm (L x W x H), temperature range: -40 °C … +85 °C, approval in accordance with DIN EN 50548.	

COMBICON power

PCB terminal blocks and PCB connectors for power electronics up to 125 A




Description		Push-in PCB terminal block up to 6 mm²	Push-in PCB terminal block up to 10 mm²	Push-lock PCB terminal block with lever-type actuation up to 16 mm²	Push-lock/ push-in panel feed-through terminal block up to 16/6 mm²
5-pos.	Order No.	1719341	1735817	1770490	1821083
Cross section		6 mm²	16 mm²	16 mm²	16/6 mm²
Pitch		7.5 mm	10 mm	10 mm	-
Number of positions		2 – 12	2 – 9	2 – 8	3 – 5
IEC/UL rated voltage		1000 V/600 V	1000 V/600 V	1000 V/600 V	1000 V/600 V
IEC/UL nominal current		41 A/35 A	76 A/66 A	76 A/51 A	41 A/–
Comment		1-pos. on request	1-pos. on request	1-pos. on request	UL/CUL on request

COMBICON control

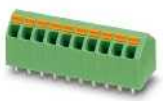
PCB connectors for data and power transmission in MCR technology




Description		TWIN bus connector with push-in spring connection up to 1.5 mm²	Flat connector with push-in spring connection up to 1.5 mm²	Flat connector with push-in spring connection up to 2.5 mm²	Inverted connector with screw connection up to 2.5 mm²
5-pos.	Order No.	1713868	1952050	1732771	1858905
Cross section		1.5 mm²	1.5 mm²	2.5 mm²	2.5 mm²
Pitch		5 mm	3.5 mm	5 mm/5.08 mm	7.62 mm
Number of positions		2 – 20	2 – 20	2 – 18	2 – 12
IEC/UL rated voltage		320 V/250 V	160 V/150 V	320 V/250 V	630 V/250 V
IEC/UL nominal current		10 A/8 A	8 A/8 A	12 A/10 A	12 A/12 A

COMBICON control / compact

PCB terminal blocks and connectors for signal transmission in MCR technology




Description		PCB terminal block with push-in spring connection with 35° angle up to 1.5 mm²	PCB terminal block with push-in spring connection up to 2.5 mm²	PCB terminal block with push-in double spring connection up to 2.5 mm²	PCB terminal block with push-in spring connection for SMD application up to 0.5 mm²
5-pos.	Order No.	1751503	1792892	1725341	1771059
Cross section		1.5 mm²	1.5 mm²	2.5 mm²	0.5 mm²
Pitch		3.81 mm	5 mm	5 mm	2.5 mm
Number of positions		2 – 12	2 – 12	2 – 16	2 – 8
IEC/UL rated voltage		160 V/300 V	400 V/300 V	400 V/300 V	160 V/150 V
IEC/UL nominal current		9 A/10 A	12 A/10 A	13.5 A/13.5 A	6 A/5 A

For more connectors, please visit phoenixcontact.com

PLUSCON circular

Circular connectors
for sensor/actuator applications




Description		M8 flush-type connectors with halogen-free litz wires, front mounting	M12 flush-type connectors with halogen-free litz wires, front mounting	M12 flush-type connectors for wave soldering processes, two-piece, rear mounting	M12 flush-type connectors, for reflow processes, two-piece, rear mounting
Type	Order No.				
Pin	5-pos.	1440119	1520068	1436602	1551752
Socket	5-pos.	1440106	1520042	1436563	1542622
Number of positions		4/5	4/5	4/5	4/5
Rated voltage		30 V	60 V	60 V	60 V
Nominal current		2 A	4 A	4 A	4 A
Contact carrier material		PA 66	PA 66	PA 66	PPA
Contact/contact surface material		Cu alloy/Au	Cu alloy/Au	Cu alloy/Au	Cu alloy/Au
Connection method		Individual litz wires	Individual litz wires	Solder pins	THR solder connection

PLUSCON data

Connectors with standard interfaces
such as RJ45, USB and M12
for data transmission




Description		RJ45 socket inserts and panel mounting frames, for Freenet system	RJ45 socket inserts and panel mounting frames, for PCB connection	USB socket inserts and panel mounting frames, for flat-ribbon cable connection	M12 flush-type connector for wave soldering processes, one-piece
Socket insert	CAT5	1652936	1688586	1653854	
Socket insert	CAT6	1652949	1653090	1653867	
Panel mounting frame		1653744	1689446	1653744	
Flush-type connector	4-pos., socket				1551503
Flush-type connector	8-pos., socket				1553860
Rated voltage		50 V	150 V	30 V	250 V
Nominal current		1 A	1.5 A	1 A	4 A
Number of positions		8	8	4	4-pos./8-pos.
Contact material		Cu alloy	Cu alloy	Cu alloy	Cu alloy
Connection method		IDC	Solder connection	Flat-ribbon cable connection	Solder pins

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PHOENIX CONTACT
INSPIRING INNOVATIONS

Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

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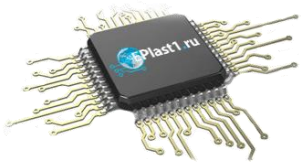
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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