

New products for 2013 – plug-in connectors and housing systems for your devices

As a leading provider of plug-in connectors and housing systems, we always work to meet the growing requirements of your applications and markets in new innovations.

Even when it comes to the topics of the future, such as photovoltaics and e-mobility, we aim to be pathfinders in the field of technology and to set standards across the globe.

Discover our new products for the transmission of signals, data, and power.













Small plug-in connectors for flexible LED PCBs

The new plug-in connectors from the PTF series enable you to quickly and easily connect LED PCBs with the smallest external dimensions for 8 mm LED strips.



Your advantages



Soldering connection litz wires onto the contact surfaces is no longer necessary

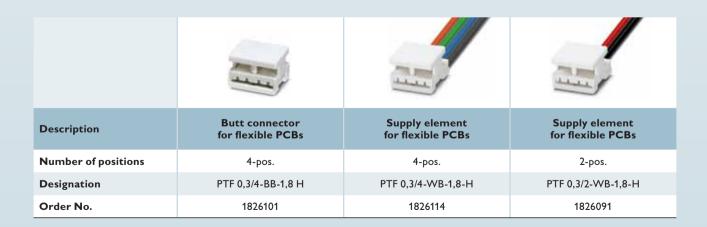


Secure hold on the PCB, thanks to integrated locking mechanism



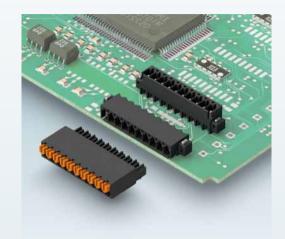
Smallest external dimensions of the connection technology for 8 mm LED strips

- Currents up to 10 A per plug
- Voltages up to 25 V
- 22 AWG cables for the supply
- 2- and 4-pos. supply version
- Operating temperature between -30°C and



Compact PCB plug-in connectors for SMT soldering processes

The new plug-in connectors from the FMC 0,5 series set new standards for the 2.54 mm pitch and are suitable for the SMD as well as the THR soldering processes. Despite the compact design height of just 5.4 mm, the plug offers the full convenience of the push-in connection with an integrated spring opener.



Your advantages

- Gold-plated contact system for maximum contact reliability
- Smallest push-in connection in 2.54 mm pitch
- Headers in horizontal and vertical design tailored to SMT processes
- Headers in tape-on-reel packing for automatic PCB assembly
- Compliant with railway and household-device standards

- Currents up to 6 A
- Voltages up to 160 V
- 2- to 16-pos.
- 2.54 mm pitch
- 5.4 mm design height

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Description	Horizontal plug-in connector	Horizontal header	Vertical header	Horizontal header	Vertical header
Soldering method	-	THR	THR	SMD	SMD
Designation	FMC 0,5/ST-2,54	MC 0,5/G-2,54 P20THRR	MCV 0,5/G-2,54 P20THRR	MC 0,5/G-2,54 SMDR	MCV 0,5/G-2,54 SMDR
Order No. 10-pos. version	1821177	1821326	1821478	1821779	1821627

PCB terminal block with push-in connection for power electronics

The new SPTA 16 PCB terminal block offers a 30° angled cable connection funnel for optimum conductor connection. The corresponding insulated plug-in bridges enable the easy and convenient connection of multiple positions.



Your advantages

- Fast push-in connection
- Unlimited 600 V UL approval, thanks to compact zigzag pinning
- Angled connection direction for optimum conductor access
- Convenient connection of positions, thanks to insulated bridges

Main features

- Currents up to 76 A
- Voltages up to 600 V
- \bullet Conductor cross sections from 0.75 to 16 mm^2
- 1 to 9-pos.
- 10 mm pitch
- Bridgeable



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Feed-through terminal blocks with push-in connection for power electronics

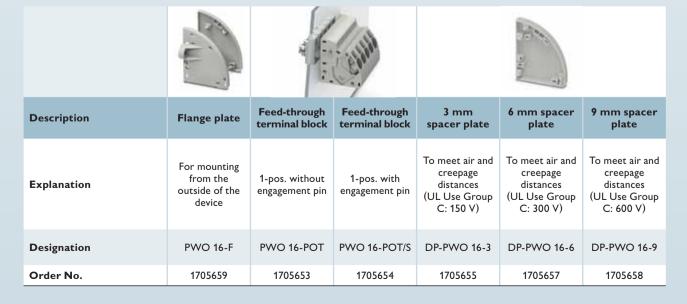
A feed-through terminal block with angled push-in connection, which supports 16 mm² cables and is sealed using sealing compounds - that is the new PWO 16 for transmitting currents up to 76 A.



Your advantages

- Space-saving 45° conductor connection
- Maximum tightness of seal even with low-viscosity sealing compounds
- Easy grouping with engagement pin version
- Automatic panel thickness compensation
- Additional fixing options that can be screwed or riveted in
- Fast push-in connection

- Currents up to 76 A
- Voltages up to 1000 V
- Conductor cross sections from 1.5 to 16 mm²
- 1-pos. modular design for alignment



IP-protected circular plug-in connectors for power electronics

The new 3 and 5-pos. AC plug-in connectors in the PRC series enable you to reliably and conveniently connect AC cables to your inverters. The device plug-in connectors with crimp connection are supplied pre-assembled with punched-on litz wires.



Your advantages



Suitable for stranded and solid cables

Snaps in automatically when inserted

Can only be separated using tools

Sealing option

UV resistant

- Currents up to 35 A (3-pos.) and up to 30 A (5-pos.)
- Voltages up to 600 V
- Conductor cross sections from 1.5 mm² to
- Cable diameters from 9 to 21 mm
- · M25 panel cutout
- IP65/IP68 degree of protection



IP-protected rectangular plug-in connectors for power electronics

The new black VARIOCON plug-in connectors provide high-performance and IP-protected device connection for currents up to 70 A. Furthermore, the range provides extremely high flexibility, thanks to the modular design of contact inserts offering screw, crimp or direct PCB connection.



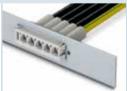
Your advantages

- Modular contact inserts for transmitting signals, data, and power
- Screw connection for all cable diameters from 10 to 25 mm
- Optional cylinder or knurled head interlocking
- Optional sealing
- Optional panel mounting plug with crimp connection for efficient series production

- Currents up to 70 A
- Voltages up to 690 V
- Conductor cross sections from 1.5 to 16 mm²
- Modular contact inserts from 4- to 32-pos.
- IP65, IP67, IP68 protection
- · Straight cable outlet









Description	Sleeve housing	Contact insert set	Device plug-in connector	Device plug-in connector
Connection method	-	Screw connection	Crimp connection	Screw connection
Order No. size VC2: 19.5 x 47.4 mm	1583880	1607467 (4×16 mm²)		1607745 (4×16 mm²)
		1607154 (6 x 4 mm²)	1583877 (4×4-16 mm²)	1607311 (6 x 4 mm²)
		1607250 (24×1.5 mm²)		1607407 (24×1.5 mm²)
Order No. size VC3: 19.5 x 62.4 mm	1424368	1607474 (5 x 16 mm²)		1607748 (5×16 mm²)
		1607167 (8 x 4 mm²)	1583878 (5×4 - 16 mm²)	1607322 (8 x 4 mm²)
		1607263 (32×1.5 mm²)	,	1607418 (32×1.5 mm²)

Compact AC connection system for PV microinverters

You can now connect your photovoltaic modules easily and reliably with SUNCLIX micon, the new compact AC connection system for microinverters.



Your advantages



 $\label{lem:compact} \mbox{Compact design} - \mbox{connection technology is hidden behind the module frame}$



Permanent safety and reliability, thanks to high-quality materials and user-friendly handling



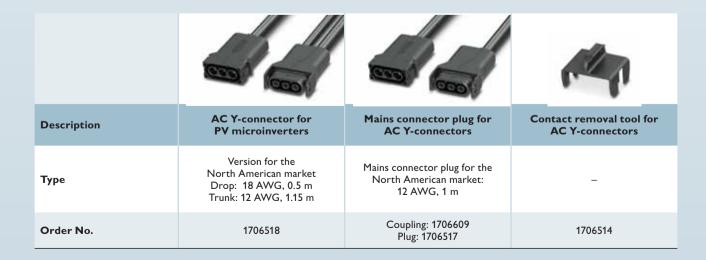
High degree of flexibility – cable lengths and assembly as per customer requirements



Two versions cover the requirements for worldwide use of the product

Main features

- Currents up to 20 A
- Voltages up to 600 V
- Conductor cross sections:
 - Drop line: 18 AWG
 - Trunk line: 12 AWG
- IP67 degree of protection
- Operating temperature: -40°C to +90°C



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M12 device plug-in connectors for signal transmission

For the first time, 12- and 17-pos. device plug-in connectors are available with angled solder-in contacts for PCB assembly. Thanks to the two-piece design, the device plug-in connectors are suitable for the automated reflow process, which makes efficient assembly possible.



Your advantages

Up to 17 positions in compact M12 format



Available with straight and angled solder-in contacts



Available with optional shield connection



Uses the existing two-part housing screw connections



Straight versions for automated assembly processes available in tapeon-reel or tray packaging

- Currents up to 1.5 A
- Voltages up to 30 V
- 4- to 17-pos.
- IP65/67 degree of protection









Description		Device plug-in connector	Device plug-in connector	Device plug-in connector	Device plug-in connector
Version		Angled	Angled, shielded	Straight	Straight, shielded
Order No.	Socket:	1424195	1424199	1441970	1457584
12-pos.	Pin:	1424194	1424198	1441985	1457704
Order No.	Socket:	1424197	1424201	1441998	1457720
17-pos.	Pin:	1424196	1424200	1442007	1457607

Plastic-molded circular plug-in connectors for signal and power transmission

With the M17 to M40 circular plug-in connectors, Phoenix Contact has rounded off its range of plasticmolded plug-in connectors for signal, data, and power transmission. As such, the M5 to M40 circular plug-in connectors are now all available with 360° shielding.



Your advantages



360° shielding to protect against interference signals



With SPEEDCON rapid interlock system as an option for safe interlocking with just half a turn



Optimum cable routing: the angled M23 circular plug-in connector can be turned more than 240°



Customer-specific color coding, design, and logo possible

- Currents up to 70 A
- Voltages up to 630 V
- IP65/67 degree of protection
- Customer-specific versions and lengths
- UV resistant



Assembled zip cord fiberglass cable for interference-free data transmission

Use the new zip cord fiberglass cable from Phoenix Contact for flexible and interruption-free data networking with fiber optic technology.



Your advantages

Test report with each product delivered

Assembled cables in customer-specific lengths

LC duplex with push/pull technology

High data rates up to 10 Gbps

UL approval type OFNR (riser) for USA and Canada

Main features

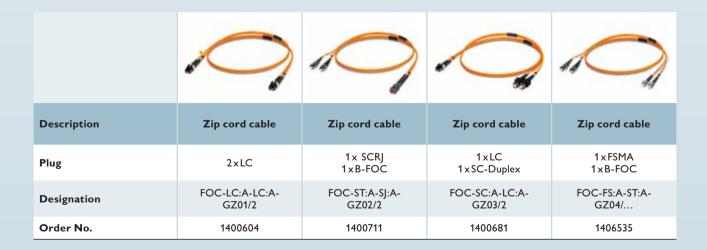
• Fiber type: 50/125 μm

• Low attenuation: 2.5 dB/km (at 850 nm) 0.7 dB/km (at 1300 nm)

• 2.8 mm individual elements

• Data rate: 10 Gbps up to 550 m

· Low-bend fiber



RJ45 plug-in connector for assembly for data transmission at 10 Gbps

Use the new RJ45 plug-in connectors with push/pull interlocking for fast data transmission at 10 Gbps according to CAT6_A. This means that even in an industrial environment, there is nothing in your way when it comes to safe communication.



Your advantages



Available with straight and angled RJ45 socket insert



Compact design in version 4



Compact plastic housing for easy handling



High data rate up to 10 Gbps

- Plug-in connectors: 10 Gbps (CAT6_A)
- Conductor cross section: 28...24 AWG (stranded)
- Crimp connection
- Operating temperature between -40°C and
- IP65/67 degree of protection



Universal housing system with front connection and rail connector

The new ME-PLC housing system from Phoenix Contact won't leave you wishing for more. It provides convenient connection options in the front area, easy communication from device to device with the DIN rail connector, and lots of space on the PCB.



Your advantages

- Plenty of space for your electronics
- Convenient insertion and removal, thanks to lever technology at the front connection
- Individual housing printing also with barcodes
- With bus connector as an option for customer-specific bus PCBs
- Error-free housing assembly, thanks to mechanical coding

- Functionally designed with front connection technology and DIN rail connector
- · Can be used universally
- Width: 40 mm • Height: 180 mm • Depth: 145 mm
- Housing color: light gray (RAL 7035)







Description	Housing	Front connection module	Bus connector set
Order No.	For bus connector mounting kit, 50/40-pos.: 2201500	Consists of 2×FKCN 10-pos.: 2201493	With plug-in connector version 50/40-pos.: 2201502
Order No.	For bus connector mounting kit, 10/10-pos.: 2201499	Consists of 2×FKCN 18-pos.: 2201494	With plug-in connector version 2 x 10-pos.: 2201503
Order No.	-	Consists of 1×FKCN 10-pos.: 2201492	-
Order No.	-	Consists of 2×RJ45: 2201495	-
Order No.	-	Universal cover: 2201505	-

Type 2 AC and DC connectors for electric vehicles and charging stations

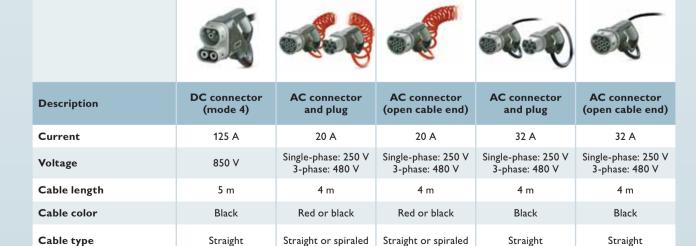
With the ergonomically designed AC and DC connectors which conform to the European type 2 standard, you can charge electric vehicles quickly, safely, and conveniently. Use charging systems from Phoenix Contact for modern mobility with electric vehicles.



Your advantages

- The AC connector and the DC connector are both compatible with the combined AC/DC vehicle inlet
- The combined DC connector supports fast DC charging for short downtimes
- Safe charging process, thanks to a special interlocking system which prevents premature removal of the charging plug
- Intelligent monitoring of the charging process via communication and control electronics

- · AC charging:
- Currents up to 32 A
- Voltages up to 480 V
- · DC charging:
 - Currents up to 125 A
 - Voltages up to 850 V
- IEC 62196



More than just standard Our service - added value for you

In addition to this year's new products, we are also offering a comprehensive standard range. If desired, this can be individually customized. From color versions, to special imprinting, right through to special packaging, we can provide you with almost anything - even brand new product developments.

Unique variety in the standard

With more than 50,000 products, we offer you a full range of device connection technology for signals, data, and power from miniature plug-in connectors right through to high-current feed-through terminal blocks.



Flexible versions

Whether it's individual colors, modern special imprinting, a specific number of contacts or complete cable assembly our service center would be happy to support you in implementing your requirements.





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Innovation expertise

Benefit from our extensive development and manufacturing expertise for your individual solution - right from the initial idea through to series production.





Product range

- Cables and connectors
- Controllers and PLCs
- DIN rail power supplies and UPS
- Electronic reversing contactors and motor control
- Electronics housing
- Ethernet networks
- Fieldbus components and systems
- Functional safety
- HMIs and industrial PCs

- I/O systems
- Industrial communication technology
- · Industrial lighting
- Installation and mounting material
- Marking and labeling
- Measurement and control technology
- Modular terminal blocks
- Monitoring and signaling
- PCB terminal blocks and PCB connectors

- Plug-in connectors
- Protective devices
- Relays
- Sensor cables and connectors
- Software
- Surge protection devices
- System cabling for DCS and PLC
- Tools
- · Wireless data communication

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