

New products for 2013

Plug-in connectors and housing systems

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.



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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

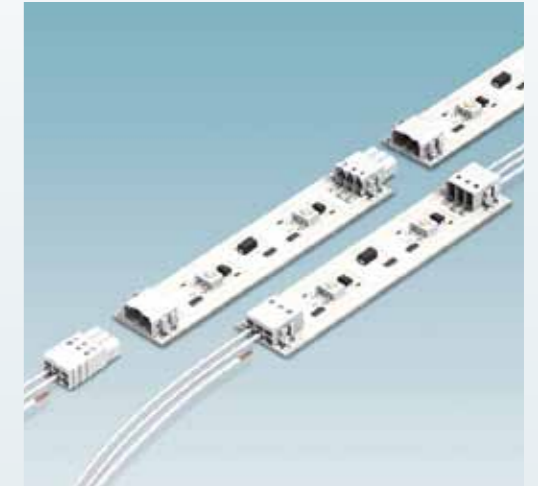
Main features

- 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 70°C

			
Description	Butt connector for flexible PCBs	Supply element for flexible PCBs	Supply element for flexible PCBs
Number of positions	4-pos.	4-pos.	2-pos.
Designation	PTF 0,3/4-BB-1,8 H	PTF 0,3/4-WB-1,8-H	PTF 0,3/2-WB-1,8-H
Order No.	1826101	1826114	1826091

PCB terminal blocks with push-in connection for LED applications

Benefit from the advantages of the just 5 mm high PTSM series plug-in connectors, which are optimized for LED applications. This means that more components and functions fit into the PCB's compact space and time is saved when connecting thanks to the push-in connection.








Your advantages

- ✓ Complete product range for wire-to-wire and board-to-board connections
- ✓ Horizontal and vertical versions are available
- ✓ Stable, lateral solder anchor for optimum connection to the PCB
- ✓ For the SMD and THR process, delivery is in taped form
- ✓ Fast push-in connection
- ✓ High performance with a compact design

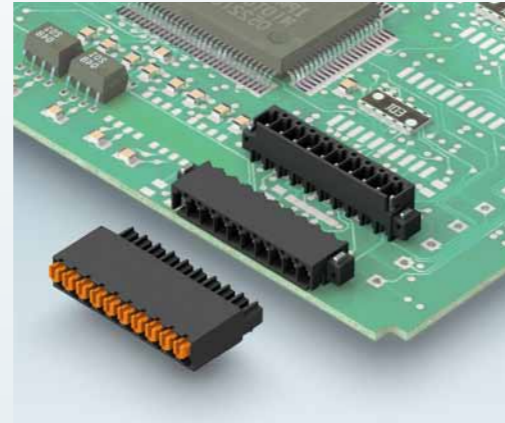
Main features

- Currents up to 6 A
- Voltages up to 320 V
- Conductor cross sections up to 0.75 mm²
- 2- to 8-pos.
- 5 mm design height
- 2.5 mm pitch
- White and black versions available

					
Description	PCB terminal block	PCB terminal block	Header	Plug-in connector	Inverted header
Soldering method	SMD	THR	SMD	–	SMD
Alignment	Horizontal	Vertical	Horizontal	–	Vertical
Order No. 3-pos., white	1814647	1814579	1814922	1704854	1815206
Order No. 3-pos., black	1771033	1770966	1778777	1778845	1810722

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

Main features

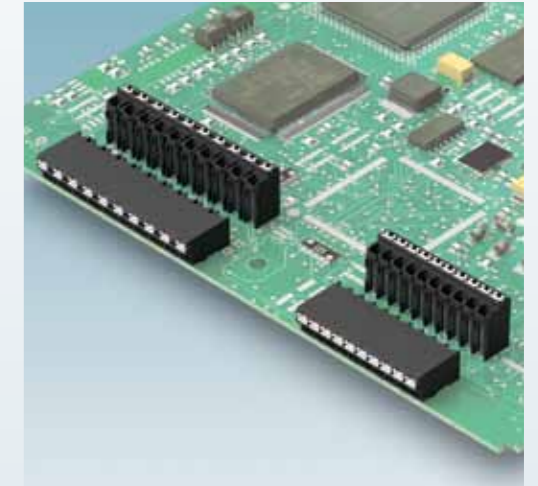
- Currents up to 6 A
- Voltages up to 160 V
- 2- to 16-pos.
- 2.54 mm pitch
- 5.4 mm design height

					
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

Compact PCB terminal blocks for SMT soldering processes

The new compact SPT-THR PCB terminal blocks have been specifically developed for the reflow process and industrial applications.

In addition to the usual market variance of the connection direction and voltage level, they also offer all the convenient features of the push-in connection with integrated spring lever for conductors up to 1.5 mm².







Your advantages

- ✓ Push-in connection for solid and stranded conductors
- ✓ Suitable for use in SMT reflow processes
- ✓ Two solder pins for a high level of stability on the PCB
- ✓ Horizontal and vertical design in four pitches
- ✓ Standard pin length of 2.6 mm also suitable for wave soldering processes
- ✓ Supplied in tape-on-reel packing for automated mounting in the reflow process with pin length of 2.0 mm

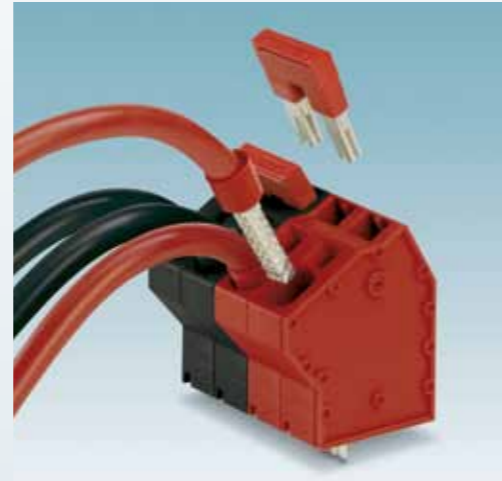
Main features

- Currents up to 13.5 A
- Voltages up to 320 V
- Conductor cross sections from 0.2 to 1.5 mm²
- 2 to 12-pos.
- LCP insulation material
- 3.50 / 3.81 / 5.00 / 5.08 mm pitch

				
Description	PCB terminal block, horizontal	PCB terminal block, vertical	PCB terminal block, horizontal	PCB terminal block, vertical
Pin length	2.6 mm	2.6 mm	2.0 mm	2.0 mm
Designation	SPT-THR 1,5/10-H-3,5 P26	SPT-THR 1,5/10-V-3,5 P26	SPT-THR 1,5/10-H-3,5 P20 R72	SPT-THR 1,5/10-V-3,5 P20 R72
Packaging	Box	Box	Tape	Tape
Order No. 10-pos. version	1822833	1822396	1823719	1823272

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
- Conductor cross sections from 0.75 to 16 mm²
- 1 to 9-pos.
- 10 mm pitch
- Bridgeable

			
Description	PCB terminal block, 1-pos.	PCB terminal block, 5-pos.	Bridge
Designation	SPTA 16/1-10,0	SPTA 16/5-10,0 ZB	FBSK 2-10/ZFKDS 10
Version	Double pinning	Zigzag pinning	2-pos.
Pcs. / Pkt.	50	50	50
Order No.	1819192	1819231	1986644

Cost-effective PCB terminal blocks without insulating bodies

Over 1000 V and 41 A on the PCB – cost-effective and without an insulating body. The PTSPL 6 PCB terminal block enables this, which is suitable for the THR soldering process as well as for automatic PCB assembly. Thanks to the compact dimensions, it sets no limits when creating PCBs.







Your advantages

- ✓ Cost-effective PCB terminal block without insulating body
- ✓ Convenient conductor connection, thanks to SUNCLIX spring
- ✓ Suitable for fully automatic PCB assembly
- ✓ Reconnectable contact

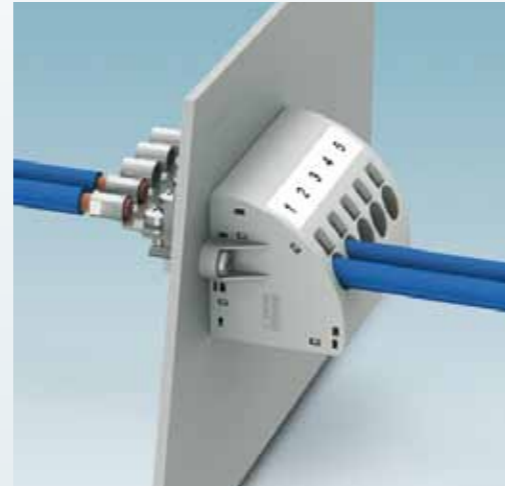
Main features

- Currents up to 41 A
- Conductor cross sections from 2.5 to 6 mm²
- 1-pos. version
- Solder pin length 2.1 or 2.9 mm
- Delivery possible in both open and closed state

				
Description	PCB terminal block closed	PCB terminal block closed	PCB terminal block open	PCB terminal block open
Pin length	2.1 mm	2.9 mm	2.1 mm	2.9 mm
Designation	PTSPL-6/1-2X2 2,1 R32	PTSPL-6/1-2X2 2,9 R32	PTSPLO-6/1-2X2 2,1 R32	PTSPLO-6/1-2X2 2,9 R32
Order No.	1704836	1704837	1705081	1705085

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

Main features

- 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

						
Description	Flange plate	Feed-through terminal block	Feed-through terminal block	3 mm spacer plate	6 mm spacer plate	9 mm spacer plate
Explanation	For mounting from the outside of the device	1-pos. without engagement pin	1-pos. with engagement pin	To meet air and creepage distances (UL Use Group C: 150 V)	To meet air and creepage distances (UL Use Group C: 300 V)	To meet air and creepage distances (UL Use Group C: 600 V)
Designation	PWO 16-F	PWO 16-POT	PWO 16-POT/S	DP-PWO 16-3	DP-PWO 16-6	DP-PWO 16-9
Order No.	1705659	1705653	1705654	1705655	1705657	1705658

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

The new PLW 16 high-current feed-through terminal block with push-lock spring connection from Phoenix Contact has one objective - to safely, quickly, and conveniently feed high currents up to 41 A through the wall.





Your advantages

- ✓ Fast push-in connection on the inside
- ✓ Easy connection and removal of conductors using a push-lock connection on the outside
- ✓ Sealing option for AC supply in the field
- ✓ Additional contact surfaces in the cable funnel

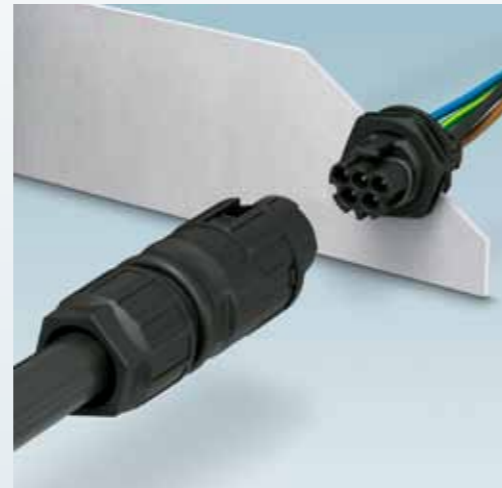
Main features

- Currents up to 41 A
- Voltages up to 1000 V
- Conductor cross sections up to 16 mm² with push-lock connection (outdoors)
- Conductor cross sections up to 6 mm² with push-in connection (indoors)
- 3- to 5-pos.

		
Description	Feed-through terminal blocks with push-lock connection	Spacer
Designation 3-pos. Order No.	PLW 16-6/ 3-10 1821067	DP-PLW 16-6/3 3MM 1705937
Designation 4-pos. Order No.	PLW 16-6/ 4-10 1821070	DP-PLW 16-6/4 3MM 1705937
Designation 5-pos. Order No.	PLW 16-6/ 5-10 1821083	DP-PLW 16-6/5 3MM 1705937

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

- ✓ Easy conductor connection using universal screw connection technology
- ✓ Suitable for stranded and solid cables
- ✓ Snaps in automatically when inserted
- ✓ Can only be separated using tools
- ✓ Sealing option
- ✓ UV resistant

Main features

- 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 6 mm²
- Cable diameters from 9 to 21 mm
- M25 panel cutout
- IP65/IP68 degree of protection

					
Description	Plug-in connector, 3-pos.	Device plug, 3-pos.	Plug-in connector, 5-pos.	Device plug, 5-pos.	Nut (SW 34)
Connection method	Screw	Crimp	Screw	Crimp	–
Order No.	1409217	–	1409205	–	1457937
Order No. 2.5 mm ² /150 mm cable	–	1409219	–	1409211	–
Order No. 4 mm ² /150 mm cable	–	1409220	–	1409212	–
Order No. 6 mm ² /150 mm cable	–	1409221	–	1409213	–

IP-protected circular plug-in connectors for power electronics

The SUNCLIX AC plug-in connector offers a convenient and tool-free spring connection for connecting 3-pos. AC cables to devices such as solar inverters. You can therefore connect your device right up to the supply using the unique SUNCLIX system.



Your advantages

- ✓ Easy conductor connection, thanks to SUNCLIX spring connection
- ✓ Suitable for stranded and solid cables
- ✓ Snaps in automatically when inserted
- ✓ Sealing option
- ✓ UV resistant

Main features

- Currents up to 25 A
- Voltages up to 300 V
- Conductor cross sections from 2.5 to 6 mm²
- Cable diameters from 9 to 18 mm
- 3-pos.
- M25 panel cutout
- IP65/IP68 degree of protection

			
Description	Plug-in connector	Device plug-in connector	Nut (SW 34)
Connection method	SUNCLIX spring connection	Crimp	–
Order No.	1446142	–	1457937
Order No. 2.5 mm ² /100 mm cable	–	1406548	–
Order No. 4 mm ² /100 mm cable	–	1406547	–

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

Main features

- 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 (4x16 mm ²) 1607154 (6x4 mm ²) 1607250 (24x1.5 mm ²)	1583877 (4x4 - 16 mm ²)	1607745 (4x16 mm ²) 1607311 (6x4 mm ²) 1607407 (24x1.5 mm ²)
Order No. size VC3: 19.5 x 62.4 mm	1424368	1607474 (5x16 mm ²) 1607167 (8x4 mm ²) 1607263 (32x1.5 mm ²)	1583878 (5x4 - 16 mm ²)	1607748 (5x16 mm ²) 1607322 (8x4 mm ²) 1607418 (32x1.5 mm ²)

Device plug-in connectors for photovoltaics for assembly

With the new device plug-in connectors for photovoltaics that are designed for assembly, you can benefit from maximum production flexibility – the coordinated components can be mounted independently of one another and combined at the end.



Your advantages

- ✓ Plastic housing including anti-rotation protection and coding
- ✓ Crimp contacts on a roll
- ✓ High degree of production flexibility
- ✓ Compatible with the standard DC plug-in connectors from the SUNCLIX series

Main features

- Currents up to 40 A
- Voltages up to 1500 V
- Conductor cross sections from 2.5 to 6 mm²
- IP68 degree of protection (2 m/24 h)

Description	SUNCLIX device plug-in connector	SUNCLIX crimp contact	SUNCLIX device plug-in connector	SUNCLIX crimp contact	SUNCLIX nut
Version	Pin (-)	Pin (-)	Socket (+)	Socket (+)	M12 thread
Designation	PV-FT-C2M-HSG	PV-FT-CCM-2,5-4-R1000	PV-FT-C2F-HSG	PV-FT-CCF-2,5-4-R1000	PV-FT-C NUT BK
Order No.	1704925	1704927	1704926	1704930	1775880

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

- ✓ Compact design – 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

Description	AC Y-connector for PV microinverters	Mains connector plug for AC Y-connectors	Contact removal tool for AC Y-connectors
Type	Version for the North American market Drop: 18 AWG, 0.5 m Trunk: 12 AWG, 1.15 m	Mains connector plug for the North American market: 12 AWG, 1 m	-
Order No.	1706518	Coupling: 1706609 Plug: 1706517	1706514

Consistent connection system for building-integrated photovoltaics (BIPV)

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



Your advantages

- ✓ Hidden contact – module junction box for insulating glass elements with spring connection and pre-assembled cable
- ✓ Reliable protection – the diode box prevents reverse currents up to a reverse voltage of 2.2 kV
- ✓ Compact design – connection technology is hidden from view
- ✓ High flexibility – cable lengths and assembly as per customer requirements

Main features

- Currents of 15 A (5 A diode box)
- Voltages up to 1000 V
- Conductor cross section 2.5 mm²
- Plug-in connector diameter just 11 mm
- IP67 degree of protection
- DIN EN 50521 (plug)
- DIN EN 50548 (diode box)
- Operating temperature -40°C to +85°C

Description	DC plug-in connector with pierce connection		Diode box		Module junction box	
	Socket (+)	Pin (-)	With plug-in connector	Open cable end	Left cable outlet	Right cable outlet
Order No.	1795323	1795336	1463065	1811239	1705132	1705131

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 tape-on-reel or tray packaging

Main features

- 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. 12-pos.	Socket:	1424195	1424199	1441970	1457584
	Pin:	1424194	1424198	1441985	1457704
Order No. 17-pos.	Socket:	1424197	1424201	1441998	1457720
	Pin:	1424196	1424200	1442007	1457607

M12 device plug-in connectors for power transmission

For the first time, you can transmit 12 A and 630 V to the PCB using the M12 size. The specially developed S- and T-coding prevent incorrect connection in AC and DC applications. The new device plug-in connectors from the M12 POWER series are also suitable for the automated THR soldering process.









Your advantages

- ✓ Consistent PE and shield connection
- ✓ Optimized for the automated reflow process
- ✓ Uses the existing two-part housing screw connections
- ✓ No risk of mismatching, thanks to two different codings for AC and DC applications

Main features

- Currents up to 12 A
- Voltages up to 630 V
- with S- and T-coding
- suitable for the THR soldering process
- IP65/IP67 degree of protection

							
Description		Pin	Socket	Shielded pin	Shielded socket	Pin	Socket
Coding		T-coded	T-coded	T-coded	T-coded	S-coded	S-coded
Number of positions		4-pos.	4-pos.	4-pos.	4-pos.	3-pos. + PE	3-pos. + PE
Current		12 A	12 A	12 A	12 A	12 A	12 A
Voltage		60 V	60 V	60 V	60 V	630 V	630 V
Order No.		1406396	1406411	1406397	1406412	1406410	1406409

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 plastic-molded 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

Main features

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

				
Description	M17 plug-in connector Signal	M23 plug-in connector Signal, angled, rotatable	M23 plug-in connector Power	M40 cable plug-in connector Power
Number of positions	17-pos.	12-pos.	5+PE	4+3+PE
Current	9 A	9 A	26 A	61 A
Voltage	60 V	150 V	630 V	630 V
Cable structure	3x2x0.14 + 2x0.5 + 4x0.14 + 4x0.22	4x2x0.25 + 2x0.5	4x2.5 + 2x1.5	4x10.0 + 2x1.5 + 2x1.0
Cable color	Green	Orange	Orange	Orange
Order No.	1624780	1619285	1618396	1620342

M23 circular plug-in connectors for power and signal transmission

Transmit signals and power safely to your device with the new circular plug-in connectors from the M23 ADVANCE series – and do so consistently, thanks to EMC protection.




Your advantages

- ✓ Consistent shield connection
- ✓ Color coding prevents mismatching
- ✓ Compatible with all former M23 circular plug-in connectors
- ✓ Different connection methods: solder or crimp connection, device plug-in connectors also with solder-in connection
- ✓ With SPEEDCON rapid interlock system as an option for safe interlocking with just half a turn

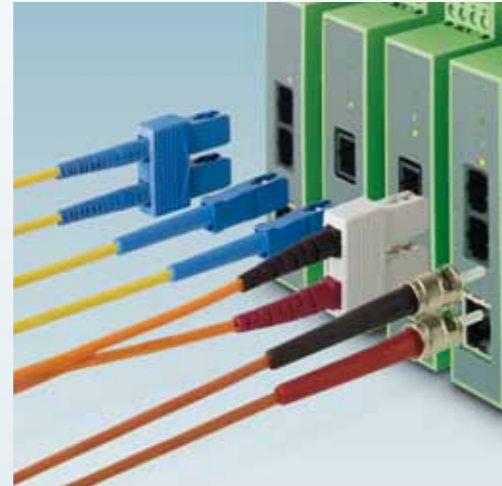
Main features

- Currents up to 20 A
- Voltages up to 300 V
- 6- to 19-pos.
- IP65/67 degree of protection

								
Description	M23 device plug-in connector		M23 device plug-in connector with flange		Cable plug-in connector		Coupler plug-in connector	
Transmission mode	Power	Signal	Power	Signal	Power	Signal	Power	Signal
Number of positions	6-pos.	17-pos.	6-pos.	17-pos.	6-pos.	17-pos.	6-pos.	17-pos.
Current	20 A	8 A	20 A	8 A	20 A	8 A	20 A	8 A
Voltage	300 V	150 V	300 V	150 V	300 V	150 V	300 V	150 V
Connection method	Solder	Solder	Solder	Solder	Solder	Solder	Solder	Solder
Order No.	1619876	1619856	1619992	1619960	1619605	1619585	1620171	1620150

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

				
Description	Zip cord cable	Zip cord cable	Zip cord cable	Zip cord cable
Plug	2xLC	1x SCRJ 1xB-FOC	1xLC 1xSC-Duplex	1xFSMA 1xB-FOC
Designation	FOC-LC:A-LC:A-GZ01/2	FOC-ST:A-SJ:A-GZ02/2	FOC-SC:A-LC:A-GZ03/2	FOC-FS:A-ST:A-GZ04/...
Order No.	1400604	1400711	1400681	1406535

Fiber optic tools for easy on-site assembly

For safe data transmission with fiber optic technology, precise assembly of the plug-in connector is required. With our tools specially designed for this purpose, you can process fiber optic cables precisely, quickly, and reliably. The ideal choice for safe connection – even on site.



Your advantages

- ✓ Simple and safe on-site assembly
- ✓ Tools for stripping the fiber cladding
- ✓ Tools for preparing for assembly
- ✓ Cleaning tools for optimum connections

Tools

- Ceramic blades
- Stripping tools
- Solvent dispensers
- Polishing foils
- Cleaning components

				
Description	Polishing disc	1-hole fiber stripper	Ferrule cleaner	Polishing film
Designation	FOC-POLISHING-DISC-2.50	FOC-TOOL-STRIPPING-1HOLE-250	FOC-TOOL-FERRULECLEANER-1.25	FOC-POLISHINGFILM-AO-03.0
Order No.	1407021	1407004	1407032	1407039

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

Main features

- Plug-in connectors: 10 Gbps (CAT6_A)
- Conductor cross section: 28...24 AWG (stranded)
- Crimp connection
- Operating temperature between -40°C and +70°C
- IP65/67 degree of protection

				
Description	RJ45 plug-in connector, with push/pull interlocking	Panel mounting frame	RJ45 contact insert	Panel mounting frame with socket to socket
Version	–	Vertical alignment	Angled solder pins	RJ45 to RJ45
Designation	CUC-V04-RJ45-POBK-8	CUC-V04-F-POBK-90	CUC-V04-BU-90	CUC-V04-F-BU/BU-RJ45
Order No.	1407413	1407411	1407408	1407412

Modular distribution panel for computer centers and control cabinets

Cabling 19" server cabinets is clean and easy with the new modular distribution panel and the pre-assembled modules.



Your advantages

- ✓ RJ45 sockets with opposite interlocking – for optimum insertion
- ✓ Plug & Play – can be used immediately, thanks to pre-assembled modules
- ✓ Different cable lengths available as per customer requirements
- ✓ Class I_o cabling paths in line with ISO IEC 11801 AM 2: 2010-04 with data rates up to 10 Gbps
- ✓ Future-proof, as modules can be changed separately

Main features

- 48xRJ45 per 19" frame
- 6xRJ45 per module
- 23 AWG single-sheath cable
- Housing material:
 - Distribution panel frame: galvanized sheet steel
 - Individual module: stainless steel
- Cable diameter: 18 mm

				
Description	19" mounting frame gray	19" mounting frame black	19" jumpering panel black	Assembled RJ45 modules
Designation	CUC-PP-FRAME-19	CUC-PP-FRAME-19 BK	CUC-PP-PATCHBAY-MH BK	CUC-PP-MODUL-RJ45:6-RJ45:6/...
Order No.	1407986	1409140	1409284	1407995

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

Main features

- 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 2xFKCN 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 2xFKCN 18-pos.: 2201494	With plug-in connector version 2 x 10-pos.: 2201503
Order No.	–	Consists of 1xFKCN 10-pos.: 2201492	–
Order No.	–	Consists of 2xRJ45: 2201495	–
Order No.	–	Universal cover: 2201505	–

Modular housing system for installation distributors

Complete flexibility of form – that is the central idea behind the new, modular BC series electronics housing. Whether you need room for your electronics or space for connection technology – the BC 161.1 electronics housing can be tailored to your particular design specifications.







Your advantages

- ✓ Various side panel arrangements:
 - For numerous assembly areas inside the housings: 0 mm
 - For space inside the housings and connection technology: 11 mm
 - For plenty of assembly space for connection technology: 22 mm
- ✓ Optimized for installation distributors through the design according to DIN 43880
- ✓ Contacting from device to device by means of rail connectors in the DIN rail

Main features

- Application-specific separation of PCB assembly areas
- Free selection of PCB connection technology
- Customer-specific labeling

				
Description	Upper housing part	Lower housing part	DIN rail bus connector	Cover
Version	With vents, 1 x terminal installation depth of 22 mm, other locations closed	For DIN rail mounting	16-pos., one 18-pos. slot to the PCB	Firmly locked with the upper housing part
Designation	BC 161,6 OT 000020 KMGY	BC 161,6 UT HBUS BK	BC 161,6 OT 000022 KMGY	BC 161,6 DKL R KMGY
Order No.	2201450	2278500	2278555	2278539

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

Main features

- 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

Description	DC connector (mode 4)	AC connector and plug	AC connector (open cable end)	AC connector and plug	AC connector (open cable end)
Current	125 A	20 A	20 A	32 A	32 A
Voltage	850 V	Single-phase: 250 V 3-phase: 480 V	Single-phase: 250 V 3-phase: 480 V	Single-phase: 250 V 3-phase: 480 V	Single-phase: 250 V 3-phase: 480 V
Cable length	5 m	4 m	4 m	4 m	4 m
Cable color	Black	Red or black	Red or black	Black	Black
Cable type	Straight	Straight or spiraled	Straight or spiraled	Straight	Straight

Type 2 charging interfaces for electric vehicles and charging stations

Phoenix Contact provides innovative components for integrating a charging interface into electric vehicles and charging stations. As such, the universal pin connector pattern on the vehicle-side combined AC/DC vehicle inlet supports charging with both AC and DC.



Your advantages

- ✓ Only one vehicle inlet for charging with DC and AC current
- ✓ Safe charging process, thanks to special interlocking systems
- ✓ Low insertion and withdrawal forces
- ✓ Integrated signal contacts for the intelligent charging controller
- ✓ Socket outlet suitable for front and rear mounting

Main features

- Currents up to 125 A
- Voltages up to 850 V
- IP44 protection when plugged in

Description	Combined AC/DC vehicle inlet Type 2*	Socket outlet Type 2 with actuator	Hinged cover and panel mounting frame
Current	Up to 125 A (DC) Up to 32 A (AC)	Up to 32 A	–
Voltage	Up to 850 V (DC) Up to 480 V (AC)	Up to 480 V	–

*For further information on the products, please contact Phoenix Contact E-Mobility GmbH at phoenixcontact-emobility.com

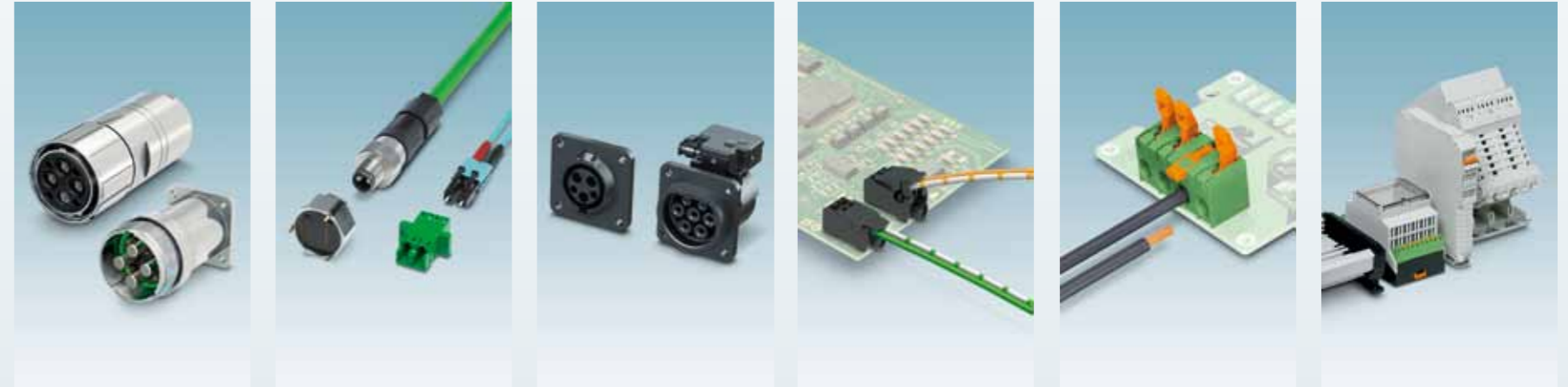
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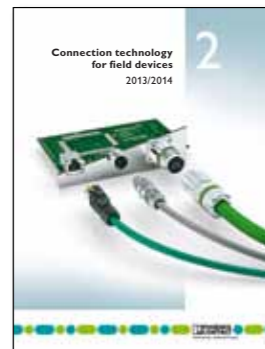
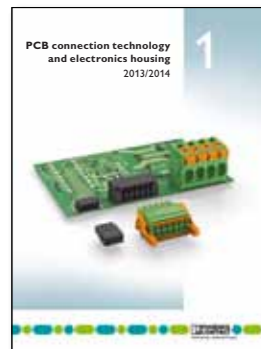
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