

# Connectors and electronics housings

New products for 2016/2017



# New products for 2016/2017 – connectors and electronics housings for your devices

As a leading manufacturer of connectors and electronics housings, we are always working to transform the growing requirements placed on your industrial and infrastructure applications into new innovations.

Discover our wide range of new products for 2016/2017 for transmitting signals, data, and power and take advantage of our professional service.

## Find out more with the web code

You can find our web code in each product table: a hash symbol followed by a four-digit number combination.



**Web code:** #1234 (example)

This allows you to access additional product information and product versions on our website quickly.

### It could not be easier:

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

Or use the direct link:

**[phoenixcontact.net/webcode/#1234](http://phoenixcontact.net/webcode/#1234)**



## Contents

Electronics housings	4
PCB terminal blocks and PCB connectors	13
High-current feed-through terminal blocks	27
Circular connectors	30
Assembled cables	39
Data connectors	40
Photovoltaic connectors	48
Connectors	49
Worldwide service and support	50

# Universal electronics housings for embedded systems

The new design-oriented electronics housings from the UCS series are the ideal solution for embedded systems. The IP40 housings reliably protect PCBs in standard form factor from external influences. Removable side panels enable modular housing solutions in individual heights and with interfaces for signals, data, and power.









## Your advantages

- ✓ High degree of application flexibility, thanks to the modular housing design
- ✓ Flexible PCB attachment, adapts to virtually all form factors
- ✓ Practical customization options
- ✓ Reduced logistics outlay, thanks to components which are compatible with one another

## Main features

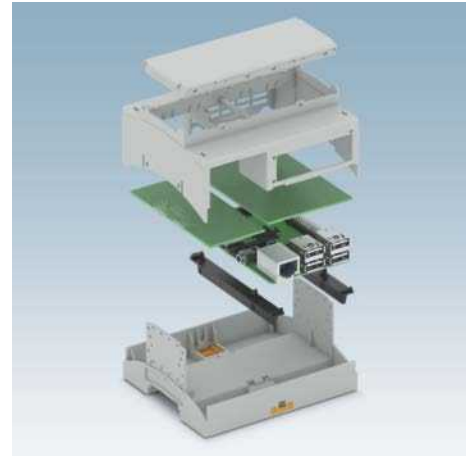
- Heights: 47 mm, 67 mm
- Degree of protection: IP40
- Temperature range: -40°C to +85°C
- Can be used as desktop, wall, and DIN rail housing
- Material: polycarbonate PC (UL V0)
- Flexible or fixed PCB attachment for maximum PCB area
- Color: light gray (RAL 7035), black (RAL 9005)

New product for 2017					
 Web code: #1112					
    					
Description	UCS electronics housing				
PCB attachment	Flexible				Fixed
Designation	UCS 125-87-...GD 7035	UCS 145-125-...GD 7035	UCS 195-145...GD 7035	UCS 237-195...GD 7035	UCS 195-145-...CCD 9005
Version	Height: 47 mm Gray	Height: 47 mm Gray	Height: 47 mm Gray	Height: 47 mm Gray	Height: 47 mm Black
Order No.	2203328	2203332	2203336	2203341	2203441
Version	Height: 67 mm Gray	Height: 67 mm Gray	Height: 67 mm Gray	Height: 67 mm Gray	Height: 67 mm Black
Order No.	2203331	2203334	2203338	2203344	2203442



# Specific DIN rail housings for Raspberry Pi computers

The new RPI-BC DIN rail housing is designed to accommodate Raspberry Pi computers. In addition to the Raspberry Pi boards, other PCBs can be accommodated inside the housing in order to integrate additional components and circuits.








## Your advantages

- ✓ Tool-free mounting
- ✓ Plenty of space for additional circuits on perfboards or additional boards
- ✓ GPIO strip can be used with PTSM series connection technology
- ✓ Easy module-to-module connection, thanks to bus connection via DIN rails

## Main features

- Alignable on the DIN rail
- Overall width: 107.6 mm
- Dimensions according to DIN 43880
- Suitable for Raspberry Pi A+, B+, B2, B3
- Wall and DIN-rail-mountable
- Can be used with HBUS and BC development kits

New product for 2016				
 Web code: <a href="#">#0664</a>				
				
Description	Housing set	RPI-BC upper part with PCB holder	A+ adapter for using the RPI A+	HBUS 107,6 without pin strip
Version	Set	Individual part	-	-
Pcs./Pkt.	1	1	1	1
Designation	RPI-BC 107,6 DEV-KIT KMGY	RPI-BC 107,6 DEV-KIT KMGY P10	RPI-BC A+-ADAPTER ATGY	HBUS 107,6-16P-1S BK P1
Order No.	<a href="#">2202874</a>	<a href="#">2202875</a>	<a href="#">2202906</a>	<a href="#">2896306</a>

# Ergonomic handheld housings for mobile operator panels

The ergonomic electronics housings from the HCS series are suitable for mobile operator panels used in measuring and testing technology as well as for scanners or identification devices. The housings are made from stable ABS plastic and can be used in logistics and distribution, vehicle technology, and process technology.



## Your advantages

- ✓ Easy integration of LC displays and membrane keypads
- ✓ Flexible device design, thanks to graduated or straight housing design
- ✓ Fast mounting, thanks to the modular design
- ✓ Customer-specific versions available

## Main features

- Degree of protection: up to IP54
- Temperature range: -20°C to +50°C
- Material: stable, shock-resistant ABS plastic
- Color: light gray (RAL 7035)

New product for 2017								
Web code: #1114								
Description	HCS handheld housing							
Size	Micro	Mini		Mini-P	Medium		Maxi	
Design	Straight	Straight	Graduated	Straight	Straight	Graduated	Straight	Graduated
Order No. of version without window	2203124	2203146	2203130	2203154	2203160	2203137	2203165	2203145
Order No. of version with window	-	2203147	2203131	2203153	2203162	2203138	2203166	2203142

# Easy-to-install electronics housings for stationary and mobile displays

The electronics housings from the DCS series integrate displays of different sizes. They reliably protect mobile and stationary electronics from mechanical stress as well as dust and splash water. Typical areas of application include laboratory and analysis technology as well as healthcare and building automation.







## Your advantages

- ✓ Easy integration of LC displays
- ✓ Direct entry possible via membrane keypad
- ✓ Convenient handling, thanks to the integrated rechargeable battery
- ✓ Customer-specific versions available

## Main features

- Degree of protection: up to IP54
- Temperature range: -20°C to +50°C
- Material: stable, shock-resistant ABS plastic
- Color: light gray (RAL 7035)

New product for 2017			
 Web code: #1115			
			
Description	DCS electronics housing		
Display size	5.7"	7"	15"
Window (W x H)	118 x 88 mm	154.4 x 93.4 mm	306 x 230 mm
Position of membrane keypad	Right and left	None	None
Order No.	2203174	2203183	2203189

# Modular electronics housings for fieldbus couplers and controllers

The ME-IO electronics housing offers the option of designing a controller, bus coupler, and individual I/O modules with various housing versions. Various types and connection technologies permit highly flexible system solutions.










## Your advantages

- ✓ L-design for optimum integration of data connectors such as RJ45 and D-SUB
- ✓ Flexible PCB installation, both vertically and horizontally to the DIN rail
- ✓ 5 and 8-pos. DIN rail connectors for cross communication between the modules
- ✓ Swiveling marking cover permits additional marking
- ✓ Integration of Push-in connectors on the front

## Main features

- Overall widths: 18.8 mm, 37.6 mm, and 75.2 mm
- Depth: 77 mm
- Height: 124 mm
- Connection technology: 5 mm and 3.5 mm pitch can be combined
- Form factor: ME-IO 18,8
- Housing color: light gray (RAL 7035)

New product for 2016						
 Web code: <a href="#">#0308</a>						
						
Description	L-design lower part	Cover for L-design	Lower part in tall design	Cover	Marking cover	Lid for cover
Designation	ME-IO ... LB 10U TBUS 7035	ME-IO 18,8 LC ... U 7035	ME-IO ... B 10U TBUS 7035	ME-IO ... C 10U 7035	ME-IO 18,8 MC 8U TRANS	ME-IO 18,8 C 2U MC ... 7035
Version/ Order No.	Overall width 37.6 mm / <a href="#">2202618</a>	Cover for 8U / <a href="#">2202622</a>	Overall width 37.6 mm / <a href="#">2202663</a>	Overall width 37.6 mm / <a href="#">2202665</a>	Cover for 8U / <a href="#">2202627</a>	Cover with 2+8 holes / <a href="#">2202582</a>
Version/ Order No.	Overall width 72.5 mm / <a href="#">2202620</a>	Cover for 10U / <a href="#">2202626</a>	Overall width 72.5 mm / <a href="#">2202664</a>	Overall width 56.4 mm / <a href="#">2202662</a>	Marking strips / <a href="#">0804286</a>	Cover with 2+16 holes / <a href="#">2202581</a>



# 8-pos. DIN rail connectors for electronics housings from the ME-IO series

The new TBUS8 bus connector enables the efficient transmission of signals and data to and between individual electronics housings from the ME-IO series. The 8-pos. bus connectors support space-saving and tool-free use in the DIN rail. They make contact when snapped onto the housing.





## Your advantages

- ✓ Space-saving installation under the housing in the DIN rail
- ✓ Simplified wiring and efficient connection between the individual housings from the ME-IO series
- ✓ Serial and parallel signal and data transmission using an 8-pos. bus connector

## Main features

- 6 A per parallel position
- 4 A per serial position
- Total current: max. 40 A across all 8 contacts
- Parallel and serial contacts can be combined (8P, 7P+1S, 6P+2S)
- Voltages up to < 30 V
- Pitch: 2.54 mm
- 8-pos.

New product for 2017			
 Web code: #1113			
Description	DIN rail connector		
Overall width	18.8 mm		
Number of positions	8 x parallel	7 x parallel and 1 x serial	6 x parallel and 2 x serial
Designation	TBUS8-18,8-PPPPPPPP-7035	TBUS8-18,8-PPPPPPPS-7035	TBUS8-18,8-PPPPPPSS-7035
Order No.	2202396	2202399	2202403

# Modular upper housing parts for individual device concepts

With the modular upper parts from the BC series, you can divide both the installation space for the PCB connection technology and the PCB assembly area. Flexible device designs can be implemented, thanks to individually configurable segments.



### Your advantages

- ✓ Three different side panel arrangements enable flexible PCB layouts
- ✓ All segments can be individually configured
- ✓ Large selection of compatible PCB connection technology
- ✓ Distinctive device designs, thanks to customer-specific printing

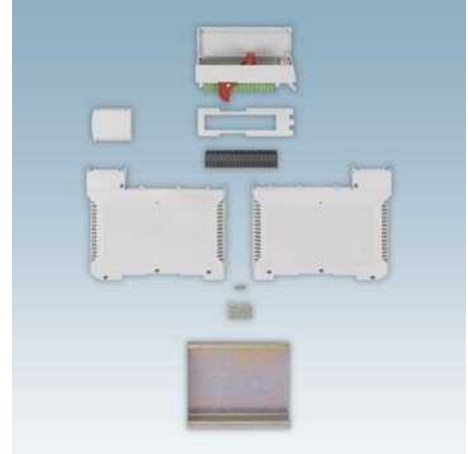
### Main features

- Overall widths: 71.6 mm and 107.6 mm
- Compatible with the existing BC series
- Material: polycarbonate/V0

New product for 2016		
Web code: #0675		
Description	Example configuration: upper housing part with vents	
Overall width	71.6 mm	107.6 mm
Designation	BC 71,6 OT 0121 KMGY	BC 107,6 OT 0121 KMGY
Order No.	2202302	2202301

# Development kits for individual electronics ideas

With the new development kits, THT PCB components such as diodes, fuses or resistors can be mounted quickly and easily on the DIN rail. Thanks to the integrated connection technology and optional bus connector, the modules can be connected easily to one another.








## Your advantages

- ✓ Easy, tool-free mounting of the development kits
- ✓ Plenty of space for circuits on optional perfboards
- ✓ Customized combination of housing and connection technology
- ✓ DIN rail connector for easy connection of the modules

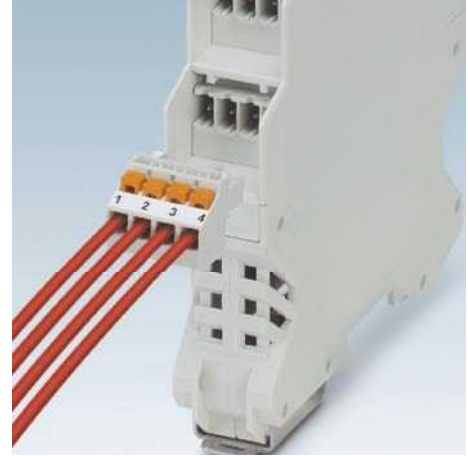
## Main features

- Different housing sizes
- Bus system with 5 or 16 positions
- Connection technology with up to 36 positions

New product for 2016  Web code: #0679						
						
Description	Electronics housing					
Designation	ME-IO 18,8 DEV-KIT KMGY	EH 45 FLAT DEV-KIT KMGY	BC 107,6 DEV-KIT KMGY	ME-MAX 22,5 2-2 DEV-KIT KMGY	ME-PLC 40 DEV-KIT KMGY	UM-BASIC 108 100MM DEV-KIT KMGY
Art.-Nr. Set	2202527	2202529	2202525	2202524	2202526	2202528
Order No. for PCB	2202548	2202552	2202544	2202542	2202542	2202551
Order No. for bus connector	2202549	-	2202545	2202543	-	-

# PCB connectors from the PSPT series for ME and ME-MAX electronics housings

The fast Push-in spring connection is now available for the ME and ME-MAX housing systems. Tool-free and touch-proof control cabinet wiring is now possible even in tricky installation situations using the PSPT 2,5 connectors.










## Your advantages

- ✓ Tool-free wiring, thanks to fast Push-in spring connection
- ✓ Touch-proof in conjunction with the orthogonal MSTBO 2,5 ... G1P headers
- ✓ Ergonomic operation at 90° to the conductor connection direction
- ✓ Integrated test point (1 mm Ø test plug)

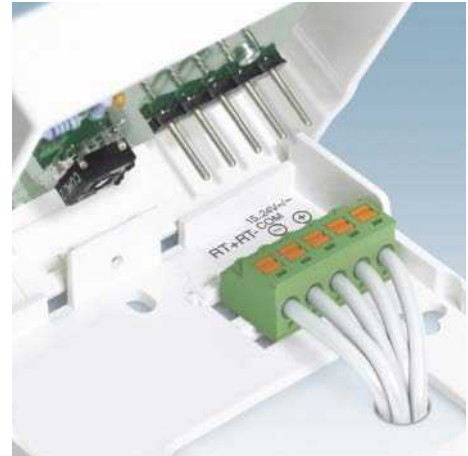
## Main features

- Conductor cross sections: 0.2 mm² to 2.5 mm²
- Currents up to 16 A (10 A UL/CUL)
- Voltages up to 250 V
- Pitch: 5.0 mm
- 2, 3, and 4-pos.
- Test point below orange push button

New product for 2016						
 Web code: <a href="#">#0665</a>						
						
Description	PCB connector			Header		
No. of positions (examples)	2	3	4	2	3	4
Designation	PSPT 2,5/2-ST KMGY	PSPT 2,5/3-ST KMGY	PSPT 2,5/4-ST KMGY	MSTBO 2,5/2-G1PL(R)	MSTBO 2,5/3-G1PL(R)	MSTBO 2,5/4-G1PL(R)
Order No.	<a href="#">2202346</a>	<a href="#">2202345</a>	<a href="#">2202344</a>	-	-	-
Order No. Left-hand housing side	-	-	-	<a href="#">2200330</a>	<a href="#">2200328</a>	<a href="#">2200325</a>
Order No. Right-hand housing side	-	-	-	<a href="#">2200331</a>	<a href="#">2200329</a>	<a href="#">2200326</a>

# Pin strip PCB connector for two-piece electronics housings

The new PTS 1,5/...-PH-5,0 CLIP PCB connector is ideal for use in two-piece electronics housings. Thanks to its standard pitch geometry, it can be latched onto the lower housing part without using any tools. Cost-optimized pin strips are used to make contact with the PCB.







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Designed by PHOENIX CONTACT

## Your advantages

- ✓ Tool-free, time-saving Push-in connection
- ✓ Defined contact force ensures that contact remains stable over the long term
- ✓ Intuitive operation, thanks to color-coded push button
- ✓ Can be snapped into device housing, thanks to CLIP geometry
- ✓ Largest possible clamping space in a small component size

## Main features

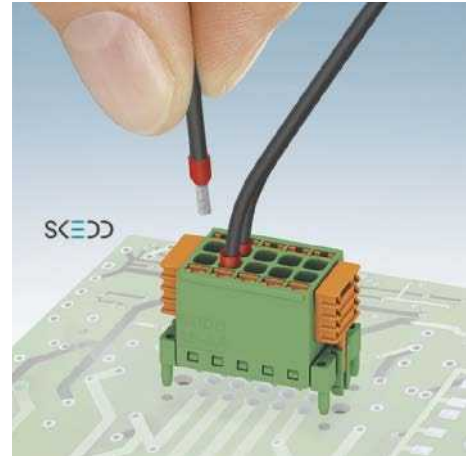
- Conductor cross sections: 0.2 mm<sup>2</sup> to 2.5 mm<sup>2</sup>
- Currents up to 10 A
- Voltages up to 400 V
- Pitch: 5.0 mm
- 2 to 12-pos.

New product for 2017			
 Web code: #1116			
			
Description	PCB connector		
No. of positions (examples)	2	6	12
Designation	PTS 1,5/2-PH-5,0 CLIP	PTS 1,5/6-PH-5,0 CLIP	PTS 1,5/12-PH-5,0 CLIP
Order No.	1848532	1848574	1848639



# Double-row PCB connectors with new SKEDD direct connection technology

The SDDC 1,5 double-row PCB connectors are particularly suitable for applications with high contact density. Thanks to SKEDD direct connection technology, the connectors can be connected directly to the PCB. This is possible without tools or an additional header.



Push-in Technology<sup>®</sup>  
Designed by PHOENIX CONTACT

## Your advantages

- ✓ SKEDD direct connection technology enables flexible positioning on the PCB
- ✓ Reduced component and process costs: simple insertion by hand. Vibration-resistant connection.
- ✓ Tool-free, time-saving Push-in connection
- ✓ Intuitive operation, thanks to color-coded push button
- ✓ Compact design with high packing density on the PCB

## Main features

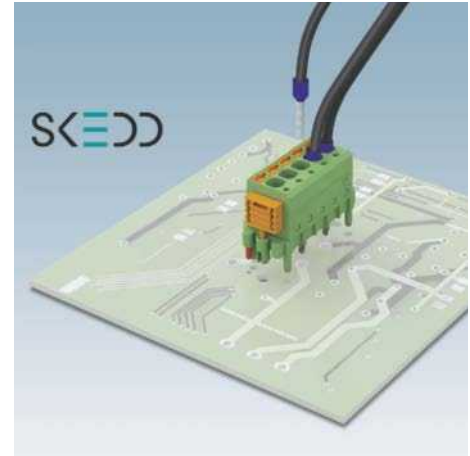
- Conductor cross sections: 0.2 mm<sup>2</sup> to 1.5 mm<sup>2</sup>
- Currents up to 8 A
- Voltages up to 160 V
- Pitch: 3.5 mm
- 2 to 16-pos. in double-row version

New product for 2017				
<b>i Web code: #1121</b>				
Description	PCB connector			
No. of positions (examples)	2	5	10	16
Designation	SDDC 1,5/2-PV-3,5	SDDC 1,5/5-PV-3,5	SDDC 1,5/10-PV-3,5	SDDC 1,5/16-PV-3,5
Order No.	1848642	1848671	1848723	1848781

# PCB connectors

## with new SKEDD direct connection technology

The SDC 2,5 PCB connectors can be connected directly to the PCB via through-contacted bore holes thanks to the new SKEDD direct connection technology. This is possible without tools or an additional header.




**Push-in Technology<sup>®</sup>**  
Designed by PHOENIX CONTACT

### Your advantages

- ✓ SKEDD direct connection technology enables flexible positioning on the PCB
- ✓ Reduced component and process costs: simple insertion by hand. Vibration-resistant connection.
- ✓ Tool-free, time-saving Push-in connection
- ✓ Intuitive operation, thanks to color-coded push button
- ✓ Quick and convenient testing using integrated testing facility

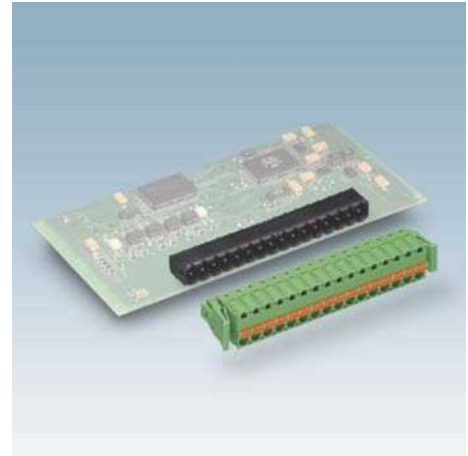
### Main features

- Conductor cross sections: 0.2 mm<sup>2</sup> to 2.5 mm<sup>2</sup>
- Currents up to 12 A
- Voltages up to 320 V (300 V UL)
- Pitch: 5.0 mm
- 1 to 16-pos.

New product for 2016				
				
<b>i</b> Web code: <a href="#">#0671</a>				
Description	PCB connector			
No. of positions (examples)	1	5	10	16
Designation	SDC 2,5/1-PV-5,0-ZB	SDC 2,5/5-PV-5,0-ZB	SDC 2,5/10-PV-5,0-ZB	SDC 2,5/16-PV-5,0-ZB
Order No.	<a href="#">1864024</a>	<a href="#">1864066</a>	<a href="#">1864118</a>	<a href="#">1864176</a>

# Reflow solder headers with 5.0 mm pitch for SMT soldering processes

The new reflow solder headers with 5.0 mm pitch are specifically designed for automated assembly processes. Flexible connection solutions are possible, thanks to 2 to 12-pos. versions with straight and angled pins and versions with screw flange or Lock and Release system.








## Your advantages

- ✓ Designed for integration into the SMT soldering process
- ✓ Packaging available for automated pick and place assembly
- ✓ Contacts satisfy the requirements for position tolerance in accordance with IEC 61760-3

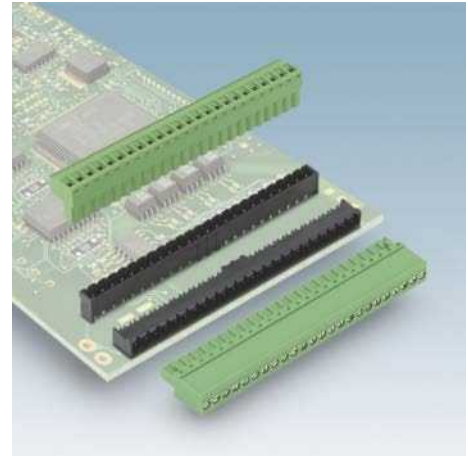
## Main features

- Currents up to 12 A
- Voltages up to 320 V
- Pitch: 5.0 mm
- 2 to 12-pos.
- Material: LCP high-temperature plastic
- Standard pin length: 2.0 mm

New product for 2017				
 Web code: <a href="#">#1117</a>				
Description	Header, horizontal	Header, horizontal with L & R flange	Header, vertical	Header, vertical with L & R flange
Soldering method	THR	THR	THR	THR
Packaging	Bulk/tape-on-reel	Bulk/tape-on-reel	Bulk/tape-on-reel	Bulk/tape-on-reel
Designation	CCA 2,5/...-G P20THR	CC 2,5/...-GF-LR P20THR	CCVA 2,5/...-G P20THR	CCV 2,5/...-GF-LR P20THR
Order No., 10-pos. version	<a href="#">1836421/1836654</a>	<a href="#">1836764/1836997</a>	<a href="#">1837103/1837336</a>	<a href="#">1837446/1837679</a>

# High-position THR headers with 5.0 mm pitch for SMT soldering processes

The new reflow solder headers with 5.0 mm pitch are specifically designed for automated assembly processes. Flexible connection solutions are possible, thanks to 13 to 24-pos. versions with straight and angled pins and versions with screw flange or Lock and Release system.



## Your advantages

- ✓ Designed for integration into the SMT soldering process
- ✓ Packaging available for automated pick and place assembly
- ✓ Contacts satisfy the requirements for position tolerance in accordance with IEC 61760-3

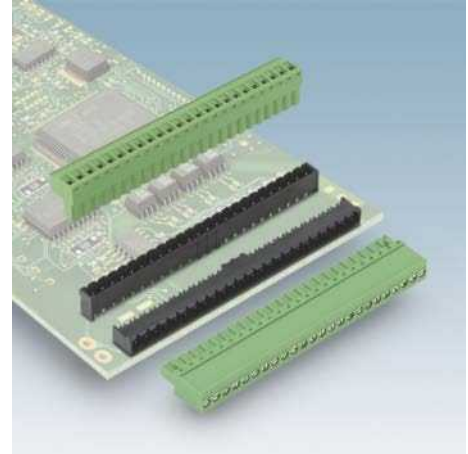
## Main features

- Currents up to 12 A
- Voltages up to 320 V
- Pitch: 5.0 mm
- 13 to 24-pos.
- Material: LCP high-temperature plastic
- Standard pin length: 2.0 mm

New product for 2017				
 Web code: <a href="#">#1118</a>				
Description	Header, horizontal	Header, horizontal with L & R flange	Header, vertical	Header, vertical with L & R flange
Soldering method	THR	THR	THR	THR
Packaging	Bulk	Bulk	Bulk	Bulk
Designation	CCA 2,5/...-G P20THR	CC 2,5/...-GF-LR P20THR	CCVA 2,5/...-G P20THR	CCV 2,5/...-GF-LR P20THR
Order No., 16-pos. version	<a href="#">1836489</a>	<a href="#">1836829</a>	<a href="#">1837161</a>	<a href="#">1837501</a>

# High-position THR headers with 5.08 mm pitch for SMT soldering processes

The new reflow solder headers with 5.08 mm pitch are specifically designed for automated assembly processes. Flexible connection solutions are possible, thanks to 13 to 24-pos. versions with straight and angled pins and versions with screw flange or Lock and Release system.



## Your advantages

- ✓ Designed for integration into the SMT soldering process
- ✓ Packaging available for automated pick and place assembly
- ✓ Contacts satisfy the requirements for position tolerance in accordance with IEC 61760-3

## Main features

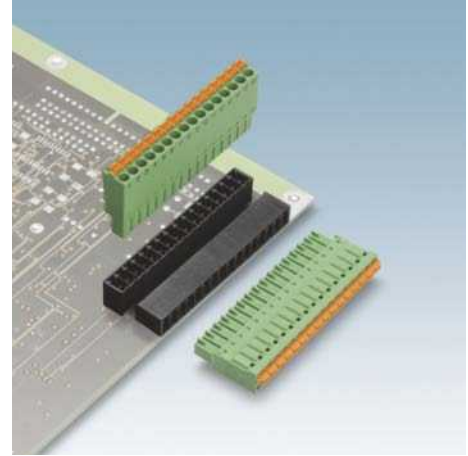
- Currents up to 12 A
- Voltages up to 320 V
- Pitch: 5.08 mm
- 13 to 24-pos.
- Material: LCP high-temperature plastic

New product for 2017				
 Web code: <a href="#">#1119</a>				
Description	Header, horizontal	Header, horizontal with L & R flange	Header, vertical	Header, vertical with L & R flange
<b>Soldering method</b>	THR and wave soldering	THR and wave soldering	THR and wave soldering	THR and wave soldering
<b>Packaging</b>	Bulk	Bulk	Bulk	Bulk
<b>Designation</b>	CCA 2,5/...-G-5,08 P26THR	CC 2,5/...-GF-5,08-LR P26THR	CCVA 2,5/...-G-5,08 P26THR	CCV 2,5/...-GF-5,08-LR P26THR
<b>Order No.</b>	<a href="#">1827676</a>	<a href="#">1827553</a>	<a href="#">1827919</a>	<a href="#">1827799</a>



# High-position headers with 3.5 mm pitch for SMT soldering processes

The new reflow solder headers with 3.5 mm pitch are specifically designed for automated assembly processes. Flexible connection solutions are possible, thanks to 13 to 20-pos. versions with straight and angled pins and versions with screw flange.








## Your advantages

- ✓ Designed for integration into the SMT soldering process
- ✓ Packaging available for automated pick and place assembly
- ✓ Contacts satisfy the requirements for position tolerance in accordance with IEC 61760-3

## Main features

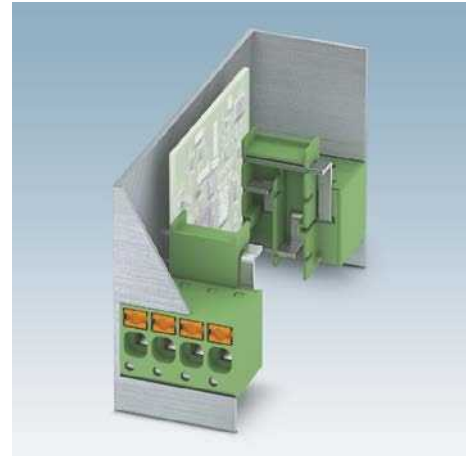
- Currents up to 8 A
- Voltages up to 160 V
- Pitch: 3.5 mm
- 13 to 20-pos.
- Material: LCP high-temperature plastic
- Standard pin length: 2.0 mm

New product for 2017				
<div>  <b>Web code:</b> <a href="#">#1120</a> </div>				
				
Description	Header, horizontal	Header, horizontal with flange	Header, vertical	Header, vertical with flange
Soldering method	THR and wave soldering	THR and wave soldering	THR and wave soldering	THR and wave soldering
Packaging	Bulk/tape-on-reel on request	Bulk/tape-on-reel on request	Bulk/tape-on-reel on request	Bulk/tape-on-reel on request
Designation	MC 1,5/...-G-3,5 P20 THR	MC 1,5/...-GF-3,5 P20 THR	MCV 1,5/...-G-3,5 P20 THR	MCV 1,5/...-GF-3,5 P20 THR
Order No.	<a href="#">1713364</a>	<a href="#">1713373</a>	<a href="#">1713384</a>	<a href="#">1713394</a>

# Orthogonal PCB terminal blocks with Push-in spring connection

The FKDSO 2,5/ -L1 and -R1 PCB terminal blocks allow for an orthogonal alignment with the PCB. This means that they are particularly suitable for DIN-rail-mountable devices. Thanks to left and right angled versions, the conductor exit can be flexibly integrated into individual device designs.

Push-in Technology<sup>®</sup>  
Designed by PHOENIX CONTACT







## Your advantages

- ✓ Orthogonal alignment of the terminal block with the PCB for optimum accessibility in DIN-rail-mounted devices
- ✓ Tool-free, time-saving Push-in spring connection
- ✓ Intuitive operation, thanks to color-coded push button

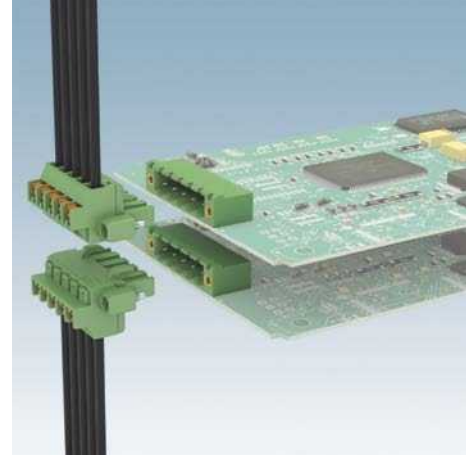
## Main features

- Conductor cross sections: 0.2 mm<sup>2</sup> to 2.5 mm<sup>2</sup>
- Currents up to 20 A
- Voltages up to 320 V
- Pitch: 5 mm
- 1 to 4-pos.

New product for 2016				
   				
<b>i</b> Web code: <a href="#">#0678</a>				
Description	PCB terminal block			
Version	Left	Left	Right	Right
No. of positions (examples)	1	4	1	4
Designation	FKDSO 2,5/1-L1	FKDSO 2,5/4-L1	FKDSO 2,5/1-R1 CBK	FKDSO 2,5/4-R1
Order No.	<a href="#">1857824</a>	<a href="#">1857837</a>	<a href="#">1857853</a>	<a href="#">1857866</a>

# Vertical PCB connector with Push-in spring connection

With the new FKCOR/W PCB connectors, you can connect conductors orthogonally to the plug-in direction. The clamping space can be opened easily by means of the spring lever on the top. These properties make the connectors ideal for devices that are mounted on the DIN rail.




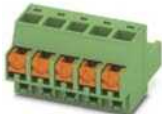

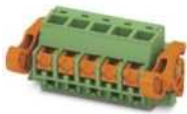
Push-in Technology<sup>®</sup>  
Designed by PHOENIX CONTACT

## Your advantages

- ✓ Easy connection of the conductors, thanks to fast Push-in spring connection
- ✓ Available with screw flange and Lock and Release system
- ✓ Conductor connection orthogonal to the plug-in direction for optimum accessibility
- ✓ Space-saving: R and W versions enable use in double-row headers

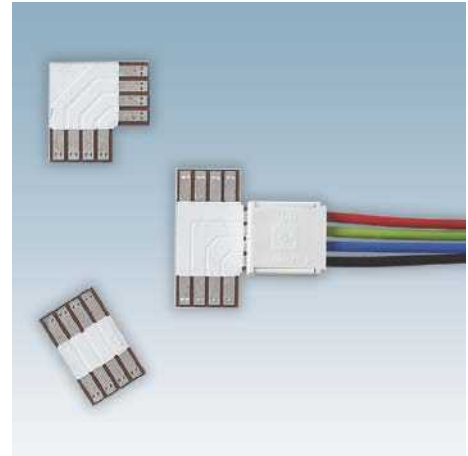
## Main features

- Conductor cross sections: 0.2 mm<sup>2</sup> to 2.5 mm<sup>2</sup>
- Currents up to 12 A
- Voltages up to 320 V
- Pitch: 5.08 mm
- 2 to 24-pos.
- Test point
- R and W versions

New product for 2016			
<div> <div></div> <div>Web code: <a href="#">#0670</a></div> </div>			
			
Description	PCB connector		
Type of latching	-	Screw flange	Lock and Release
No. of positions (examples)	5	5	5
Designation	FKCOR 2,5/5-ST-5,08	FKCOR 2,5/5-STF-5,08	FKCOR 2,5/5-ST-5,08-LR
Order No.	<a href="#">1861263</a>	<a href="#">1861496</a>	<a href="#">1861726</a>

# PCB connectors for flexible LED PCBs

The new flexible PCB connection elements for the PTF connector system can be used to implement complex arrangements of flexible LED PCBs quickly, easily, and safely. The elements can be used as an extension, as a corner connection or as a T distributor.







## Your advantages

- ✓ Easy connection of flexible LED PCBs
- ✓ Minimal heating during operation
- ✓ UL-approved materials

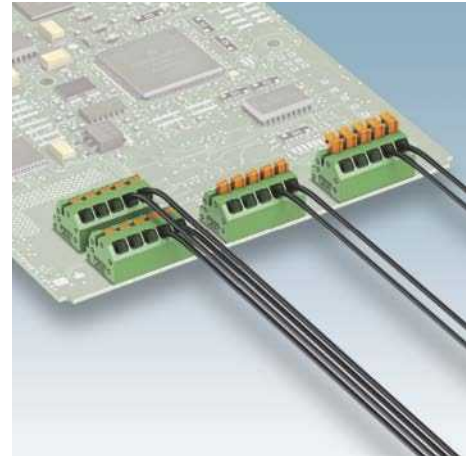
## Main features

- Currents up to 10 A per element (total current)
- Voltages up to 24 V
- Suitable for 2 and 4-pos. applications
- Versions for 8 mm and 10 mm wide LED strips

New product for 2016  Web code: <a href="#">#0660</a>			
			
Description	PCB as an extension	PCB as a corner connector	PCB as a T-connector
Designation	PTF 0,3/4-Flex-I...	PTF 0,3/4-Flex L...	PTF 0,3/4-Flex T...
Order No. for 8 mm	<a href="#">1848477</a>	<a href="#">1848480</a>	<a href="#">1848493</a>
Order No. for 10 mm	<a href="#">1848503</a>	<a href="#">1848516</a>	<a href="#">1848529</a>

# Angled PCB terminal blocks for very flat modules

The new angled SPTAF 1 PCB terminal block features a 45° angled cable connection funnel for convenient conductor connection. Although it is just 8 millimeters high, 16 AWG conductors can be connected reliably. Three different push button versions ensure optimum actuation.







Push-in Technology<sup>®</sup>  
Designed by PHOENIX CONTACT

## Your advantages

- ✓ Easy connection of the conductors, thanks to fast Push-in spring connection
- ✓ Low height of just 8 mm for extremely flat modules
- ✓ Angled connection direction for optimum conductor access
- ✓ Three push button versions for ergonomic actuation

## Main features

- Conductor cross section: 0.2 mm<sup>2</sup> to 1.5 mm<sup>2</sup>
- Currents up to 16 A
- Voltages up to 160 V with 3.5 mm pitch
- Voltages up to 320 V with 5.0 mm pitch
- Pitch: 3.5 mm and 5.0 mm
- 2 to 16-pos.

New product for 2016			
<div> <div></div> <div>Web code: <a href="#">#0666</a></div> </div>			
			
Description	PCB terminal block		
Push button version	Recessed	Raised	Locking push button
No. of positions (examples)	2	2	2
Designation	SPTAF/... IL	SPTAF/... EL	SPTAF/... LL
Order No. Pitch: 3.5 mm	<a href="#">1861933</a>	<a href="#">1862042</a>	<a href="#">1864286</a>
Order No. Pitch: 5 mm	<a href="#">1862275</a>	<a href="#">1862411</a>	<a href="#">1864435</a>

\* Other numbers of positions available on our website at [phoenixcontact.com](http://phoenixcontact.com)



# Miniature PCB connectors with positive latches on the side

The new PTSM 0,5/... PL PCB connector with positive latches on the side enables stable latching with the counterpart. Compact solutions can be created for wire-to-wire connections, especially when combined with the new inverted PCB connectors.







Push-in Technology<sup>®</sup>  
Designed by PHOENIX CONTACT

## Your advantages

- ✓ Easy connection of the conductors, thanks to fast Push-in spring connection
- ✓ High current carrying capacity of 6 A in very compact dimensions
- ✓ Defined contact force ensures that contact remains stable over the long term
- ✓ Convenient operation of the positive latches on the side

## Main features

- Conductor cross sections: 0.14 mm<sup>2</sup> to 0.5 mm<sup>2</sup>
- Currents up to 6 A
- Voltages up to 320 V
- Pitch: 2.5 mm
- 2 to 8-pos.
- High-quality PA material in white

New product for 2016			
 Web code: #0662			
Description	PCB connector with positive latches		
No. of positions (examples)	2	4	8
Designation	PTSM 0,5/2-PL-2,5 WH	PTSM 0,5/4-PL-2,5 WH	PTSM 0,5/8-PL-2,5 WH
Order No.	1709457	1709460	1709465

# Inverted PCB connectors for compact applications

With the new inverted PCB connectors from the PTSM series, wire-to-wire connections are now possible in addition to wire-to-board connections. The small design and high current carrying capacity make the connection system an ideal connection solution for the power supply.







Push-in Technology<sup>®</sup>  
Designed by PHOENIX CONTACT

## Your advantages

- ✓ Easy connection of the conductors, thanks to fast Push-in spring connection
- ✓ High current carrying capacity of 6 A in very compact dimensions
- ✓ Defined contact force ensures that contact remains stable over the long term
- ✓ Wire-to-wire and wire-to-board connections possible

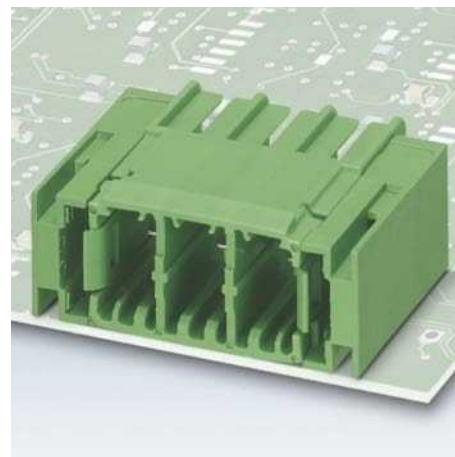
## Main features

- Conductor cross sections: 0.14 mm<sup>2</sup> to 0.5 mm<sup>2</sup>
- Currents up to 6 A
- Voltages up to 320 V
- Pitch: 2.5 mm
- 2 to 8-pos.
- High-quality PA material in white

New product for 2016			
 Web code: #0661			
Description	Inverted PCB connector		
No. of positions (examples)	2	4	8
Designation	PTSM 0,5/2-PI-2,5 WH	PTSM 0,5/4-PI-2,5 WH	PTSM 0,5/8-PI-2,5 WH
Order No.	1709450	1709452	1709456

# Robust headers with solder anchor for PC 5 PCB connectors

Thanks to the additional solder anchor, the new PC 5 headers provide even more stability on the PCB. The header is suitable for all connectors from the PC 5 series with or without Click and Lock locking.






## Your advantages

- ✓ Maximum stability on the PCB, thanks to solder anchor
- ✓ Safe handling since it is not possible to incorrectly insert the connector

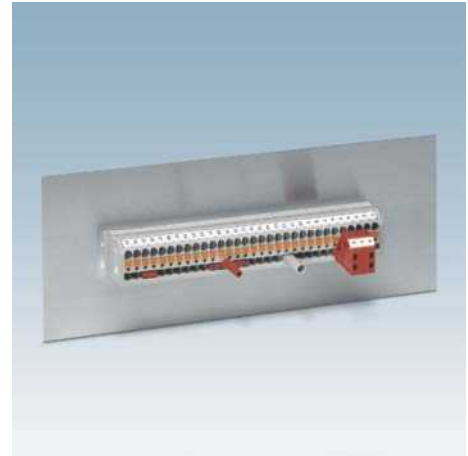
## Main features

- Currents up to 41 A
- Voltages up to 630 V (300 V UL)
- Pitch: 7.62 mm
- 2 to 6-pos.
- With solder anchor

New product for 2016			
<b>i</b> Web code: #0668			
			
Description	Header		
No. of positions (examples)	3	4	5
Designation	PC 5/3-GSF-7,62	PC 5/4-GSF-7,62	PC 5/5-GSF-7,62
Order No.	1707924	1707925	1711655

# Panel feed-through terminal blocks with Push-in spring connection for energy technology

Connect current transformers and voltage transducers, e.g., devices for mains protection, efficiently using the new panel feed-through terminal blocks from the PT 4-WE series. The terminal blocks are suitable for device panels with a sheet thickness of up to 2.5 mm. Thanks to the patented snap-on mechanism, the terminal block can be installed quickly and easily using a screwdriver.







Push-in Technology<sup>®</sup>  
Designed by PHOENIX CONTACT

## Your advantages

- ✓ Easy connection of the conductors, thanks to fast Push-in spring connection
- ✓ Fast mounting in simple rectangular cutouts, thanks to the patented snap-on mechanism
- ✓ CLIPLINE complete accessories for easy bridging, testing, and marking
- ✓ High degree of flexibility, thanks to alignable single terminal blocks

## Main features

- Conductor cross sections: 0.2 mm<sup>2</sup> to 4 mm<sup>2</sup>
- Currents up to 30 A
- Short-circuit currents according to EN 60255
- Voltage: 6 kV surge voltage
- Pitch: 5.2 mm
- 1 to 20-pos.
- Bridgeable

New product for 2017			
 Web code: #1134			
Description	Panel feed-through terminal block	Covering element right/left	Panel feed-through terminal block
Version	Single terminal block	Cover	6-pos.
Designation	PT 4-WE	D-PT 4-WE	PT 4-WE/6
Order No.	3044900	3044902	3044911

# High-current feed-through terminal blocks with screw connection for conductors up to 95 mm<sup>2</sup>

Conductor cross sections up to 95 mm<sup>2</sup> can be reliably connected by means of screw connection using the new UW 95 high-current feed-through terminal blocks. The terminal block impresses with its functional design and stable housing construction.






## Your advantages

- ✓ Well-known connection principle enables worldwide use
- ✓ Tool-free snap-in principle for easy mounting on the device panel
- ✓ Automatic panel thickness compensation enables universal use
- ✓ Molded versions for reliable seal even with low-viscosity molding compounds

## Main features

- Conductor cross sections: 25 mm<sup>2</sup> to 95 mm<sup>2</sup>
- Currents up to 232 A
- Voltages up to 1000 V (600 V UL)
- Panel thickness: 1 mm to 5 mm
- 1-pos.

New product for 2017  <b>i</b> Web code: <a href="#">#1122</a>			
			
<b>Description</b>	<b>Horizontal panel feed-through terminal block</b>	<b>Vertical panel feed-through terminal block</b>	<b>Horizontal molded panel feed-through terminal block</b>
<b>Designation</b>	UW 95(-F)/S	UWV 95(-F)/S	UW 95(-F)-POT/S
<b>Order No. without flange</b>	<a href="#">1713223</a>	<a href="#">1713226</a>	<a href="#">1713242</a>
<b>Order No. with flange</b>	<a href="#">1713225</a>	<a href="#">1713227</a>	<a href="#">1713243</a>



# TW 95 high-current feed-through terminal blocks with new T-LOX connection technology

With the new T-LOX connection technology, the TW 95 panel feed-through terminal blocks enable reliable and convenient conductor connection for conductor cross sections from 25 mm<sup>2</sup> to 95 mm<sup>2</sup>. The terminal block is attached to the housing using a reversible wedge that can be operated without tools.






**T-LOX Technology**<sup>®</sup>  
Designed by PHOENIX CONTACT

## Your advantages

- ✓ Reliable conductor contacting, thanks to programmed contact force
- ✓ Fast and convenient conductor entry from above
- ✓ User-friendly operating forces for the conductor connection
- ✓ Quick, tool-free attachment to the housing panel

## Main features

- Conductor cross sections: 25 mm<sup>2</sup> to 95 mm<sup>2</sup>
- Currents up to 232 A
- Voltages up to 1000 V (600 V UL)
- Panel thickness: 1 mm to 5 mm
- 1 to 6-pos.

New product for 2016			
<b>i</b> Web code: #0667			
<b>Description</b>	<b>Panel feed-through terminal blocks</b>		
<b>No. of positions (examples)</b>	1	3	5
<b>Designation</b>	TW 95/1-CL	TW 95/3-CL	TW 95/5-CL
<b>Order No.</b>	1708752	1708754	1708756

# Pre-assembled M12 device connectors for the power supply

The new device connectors from the M12 POWER series in K, L, and M-coding feature easy-to-install XL housing. They are suitable for front or rear mounting. The device connectors are pre-assembled with 20 cm litz wires ready for use.



## Your advantages

- ✓ Easy-to-install, optimized housing contour with wrench size 19
- ✓ For compact devices: transmit high power in a confined space
- ✓ Pre-assembled with 0.2 m long litz wires for immediate use
- ✓ Molded on the cable side for optimum tightness of seal

## Main features

- K-coded: 4+PE, up to 630 V/16 A AC
- L-coded: 4+FE, up to 63 V/16 A DC
- M-coded: 5+PE, up to 630 V/8 A AC
- Rear and front mounting

New product for 2017						
 Web code: #1123						
Description	M12 device connector					
Coding	K		L		M	
Number of positions	4+PE		4+FE		5+PE	
Type of contact	Pin	Socket	Pin	Socket	Pin	Socket
Order No. Front mounting	1415291	1415292	1415295	1415296	1415300	1415301
Order No. Rear mounting	1415293	1415294	1415297	1415299	1415302	1415303

# Versatile M12 device connectors for reflow soldering processes

M12 device connectors for transmitting power up to 630 V and 16 A directly to the PCB. They are now also available with K, L, and M-coding. One-piece versions for wave soldering processes and two-piece connectors for reflow soldering processes are available.



## Your advantages

- ✓ Easy device integration, thanks to mechanical port screw connections
- ✓ Packaging available for automated pick and place assembly
- ✓ Easy PCB assembly: one-piece connectors for wave soldering
- ✓ Reduced assembly costs, thanks to two-piece device connector for reflow soldering processes

## Main features

- K-coded: 4+PE, up to 630 V/16 A AC
- L-coded: 4+FE, up to 63 V/16 A DC
- M-coded: 5+PE, up to 630 V/8 A AC
- Rear and front screw mounting

<p>New product for 2017</p> <p><b>i</b> Web code: <a href="#">#1124</a></p>						
Description	M12 device connector					
Coding	K	K	L	L	M	M
Number of positions	4+PE	4+PE	4+FE	4+FE	5+PE	5+PE
Type of contact	Pin	Socket	Pin	Socket	Pin	Socket
Order No. for one-piece, wave soldering, rear mount.	-	-	<a href="#">1415337</a>	<a href="#">1415338</a>	-	-
Order No. for two-piece, THR contact carrier in tray	<a href="#">1420819</a>	<a href="#">1420821</a>	<a href="#">1420817</a>	<a href="#">1420818</a>	<a href="#">1420822</a>	<a href="#">1420823</a>
Order No. for two-piece, THR contact carrier on reel	<a href="#">1420830</a>	<a href="#">1420831</a>	<a href="#">1420828</a>	<a href="#">1420829</a>	<a href="#">1420832</a>	<a href="#">1420833</a>

# M12 housing screw connections, tolerance-compensating for SMD contact carriers

The new M12 VARIOPORT housing screw connection compensates process-related production tolerances for two-piece device ports. Compensation is provided by means of a unique, floating snap-in mounting in the housing mechanics.



## Your advantages

- ✓ Tolerance-compensating M12 technology prevents force being applied to SMD soldering spots
- ✓ Easy installation, thanks to tool-free mounting
- ✓ Economical housing integration, thanks to simple design-in outline

## Main features

- For two-piece M12 SMD socket contact carriers
- Automatic tolerance compensation between PCB and housing
- Optional port sealing without protective cap

New product for 2016				
 Web code: #0215				
				
Description	M12 housing screw connection for SMD contact carriers			
Housing panel thickness	0.9 mm ... 1.6 mm	1.6 mm ... 2.3 mm	2.3 mm ... 3.0 mm	
Order No. for threaded sleeve	1419569	1419570	1419571	
Color fixing sleeve (can be used with any threaded sleeve)	Black	Water blue	Green	Violet
Order No.	1419568	1419565	1419566	1419567

# Shielded T distributors for data transmission with PROFIBUS and CANopen®

The new T distributors for PROFIBUS have 360° shielding and ensure safe data transmission. A T distributor for CANopen® completes the product range. All T distributors can be fixed with no rotation via two mounting holes.







## Your advantages

- ✓ Reliable data transmission and distribution, thanks to 360° shielding
- ✓ High data rates with PROFIBUS distributors
- ✓ Secure fixing by means of two mounting holes
- ✓ M12 knurl can still be turned, even once mounted
- ✓ Fast installation with SPEEDCON fast locking system

## Main features

- Degree of protection: IP65/IP67
- Oil resistant
- 2 mounting holes
- SPEEDCON fast locking system

New product for 2017			
 Web code: <a href="#">#0616</a>			
Description	T distributor for PROFIBUS		T distributor for CANopen®
Coding	B		A
Shielding	360° shielded housing		Unshielded
Transmission speed	12 Mbps		-
Rotatable/fixed knurl	3/0	2/1	3/0
Designation	SAC-5PT-FB/2XMB PBDP SH	SAC-5PT-FB/MB-MBF PBDP SH	SAC-5PT-F/F-M VP
Order No.	<a href="#">1424711</a>	<a href="#">1424713</a>	<a href="#">1424712</a>

# M12 circular connectors and distributors for data and signal transmission

Connect shielded data and signal lines quickly and safely with the M12 connectors for assembly. The Y distributor enables the easy integration of hybrid M12 interfaces into existing systems.






## Your advantages

- ✓ Reliable connection of shielded cables
- ✓ Time savings of up to 80%, thanks to QUICKON fast connection technology
- ✓ Convenient connection with standard tools
- ✓ Easy integration of devices with Y-coded M12 interface
- ✓ One M12 interface for data and power: Power with Ethernet (PWE)

## Main features

- QUICKON fast connection technology (IDC)
- 360° shielded housing
- SPEEDCON fast locking system

New product for 2016					
<b>i</b> Web code: <a href="#">#0589</a>					
Description	X-coded connector		A-coded connector		Y-coded Y distributor
Application	Ethernet	PROFINET	Ethernet	Signal	Ethernet (PWE)
Transmission speed	10 Gbps		1 Gbps	-	100 Mbps
No. of positions (examples)	8		8		4+4
Conductor cross section [AWG/mm²]	26 ... 22 0.14 ... 0.34	24 ... 20 0.25 ... 0.5	26 ... 22 0.14 ... 0.34	26 ... 20 0.14 ... 0.5	-
Order No. for connector	-	-	<a href="#">1421679</a>	<a href="#">1414610</a>	<a href="#">1410630</a>
Order No. for socket	<a href="#">1414586</a>	<a href="#">1414587</a>	<a href="#">1421680</a>	<a href="#">1414611</a>	-



# Connectors for assembly for data, signals, and power

M12 connectors for assembly provide the best connection technology for every application. The new Push-in connectors simplify field installation of stranded conductors. Connectors with crimp connection, power connectors with screw connection, and unshielded QUICKON versions complete the portfolio.



## Your advantages

- ✓ Always the best connection technology for your application in M12 design
- ✓ Easy and tool-free connection with Push-in technology
- ✓ Time savings of up to 80% with QUICKON fast connection technology (IDC)
- ✓ Power connectors for maximum power in a compact M12 design
- ✓ Extremely compact connectors with crimp connection for railway applications

## Main features

- SPEEDCON fast locking system
- Shielded and unshielded versions

New product for 2017						
<b>i</b> Web code: #0610						
Description	PROFINET connector		Signal connector		Power connector	
Coding	X	D	A		T	K
Connection technology	Crimp	Push-in	Push-in	QUICKON	Screw	
Shielding	360° shielded housing	360° shielded housing	Unshielded		360° shielded housing	
Designation	SACC-MSX-8CT SH SCO	SACC-MSD-4PT SH PN SCO	SACC-MS-5PT M SCO	SACC-MS-8QO-0,5 SCO	SACC-M12MST-4CON-S5-8 SH	SACC-M12FST-4CON-S5-8 SH
Order No.	1422844	1424682	1424649	1424433	1424703	1424705

# M23 device connectors with integrated position nut

The new device connectors in the M23 ADVANCE series have an integrated position nut for the continuous adjustment of the outlet direction. Thanks to the extended internal thread, the signal connectors can be easily and safely integrated into the device panel.




## Your advantages

- ✓ Integrated position nut for continuous adjustment of the outlet direction
- ✓ Safe use in the field, thanks to the high degree of protection (IP65/IP67)
- ✓ Universal mounting, thanks to the extended 10 mm internal thread

## Main features

- Currents up to 20 A
- Voltages up to 300 V
- 6 to 19-pos.
- Solder or crimp connection
- Degree of protection: IP65/IP67
- With M20 x 1.5 central fastening

New product for 2017								
<div><div><div></div><div>i</div></div><div>Web code: #0260</div></div>								
Description	M23 ADVANCE device connector, positionable							
Type of contact	Pin		Socket		Pin		Socket	
No. of positions (examples)	6	12	6	12	17	19 (16+2+PE)	17	19 (16+2+PE)
Connection method	Solder	Crimp	Solder	Crimp	Solder	Crimp	Solder	Crimp
Voltage [V]	300	150	300	150	150	150	150	150
Current [A]	20	8	20	8	8	8 / 10	8	8 / 10
Order No.	1624044	1624026	1624045	1624033	1624055	1623630	1624056	1623629

# Angled M23 circular connectors for signal transmission

With the angled cable connectors from the M23 ADVANCE series you can transmit signals safely to your device – with comprehensive EMC protection. The IP67 connectors are available as pin and socket versions with solder or crimp connection.





## Your advantages

- ✓ Optical color coding prevents mismatching
- ✓ Compatible with all signal connectors from the M23 ADVANCE series
- ✓ With SPEEDCON fast locking system as an option
- ✓ Wide range of mating connectors available for device connection

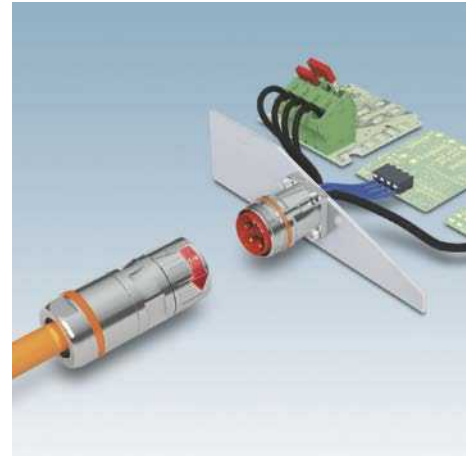
## Main features

- Currents up to 20 A
- Voltages up to 300 V
- 6 to 19-pos.
- Solder or crimp connection
- Degree of protection: IP65/IP67
- Cable clamping area: 3 mm to 14.5 mm

New product for 2017								
 Web code: <a href="#">#0259</a>								
Description	M23 ADVANCE cable connector, angled							
Type of contact	Pin		Socket		Pin		Socket	
Type of locking	SPEEDCON		SPEEDCON		Standard		Standard	
No. of positions (examples)	6	12	6	12	17	19	17	19
Connection method	Solder	Crimp	Solder	Crimp	Crimp	Solder	Crimp	Solder
Voltage [V]	300	150	300	150	150	150	150	150
Current [A]	20	8	20	8	8	8 / 10	8	8 / 10
Order No.	<a href="#">1619449</a>	<a href="#">1619435</a>	<a href="#">1619450</a>	<a href="#">1619436</a>	<a href="#">1620294</a>	<a href="#">1620292</a>	<a href="#">1620295</a>	<a href="#">1620293</a>

# M40 hybrid connectors for signal, data, and power transmission

The new M40 HYBRID circular connector allows you to transmit signals, data, and power safely using just one connector. The new size is suitable for currents of up to 70 A and has been designed for servo drives as well as daisy chain applications.







## Your advantages

- ✓ Transmit signals, data, and power using just one circular connector
- ✓ Mechanical coding for AC and DC applications, as well as for data and signal applications
- ✓ Various data inserts available

## Main features

- Conductor cross sections up to 16 mm<sup>2</sup>
- Currents up to 70 A
- Voltages up to 630 V AC/850 V DC
- Contacts:
  - 4 x signal
  - 4 x data (can be swapped for additional 4 x signal)
  - 4 x power + PE
- Degree of protection: IP68/IP69K
- Cable clamping area: 14 mm to 20.5 mm

New product for 2017								
<div><div><div></div></div><div>Web code: #0560</div></div>								
Description	M40 cable connector		M40 coupler connector		M40 device connector, angled, rotatable		M40 device connector, straight	
Type of contact	Socket	Pin	Socket	Pin	Socket	Pin	Socket	Pin
Cable clamping area [mm]	14 – 20.5	20.5 – 26.5	20.5 – 26.5	14 – 20.5	-	-	-	-
Coding	AC	AC	AC	AC	AC	AC	AC	AC
Signal type	CAT5	Signal	Signal	CAT5	Signal	CAT5	Signal	CAT5
Order No.	1623327	1623337	1623346	1623357	1623366	1623368	1623372	1623374

# Assembled M12 power cables with K, L, and M-coding

The innovative M12 power cabling offers maximum power in a compact design. Assembled K, L, and M-coded cables complete the existing range with S and T-coding. They open up new AC and DC applications with 5 and 6-pos. end consumers.





## Your advantages

- ✓ High power transmission in DC or AC applications up to 16 A and 630 V
- ✓ Space savings, thanks to the compact M12 design
- ✓ Protection against mismatching, thanks to coded pin connector patterns
- ✓ Reliable EMC protection, thanks to optional 360° shielding

## Main features

- Cable quality: PUR or PVC
- Degree of protection: IP65, IP67
- 360° shielded connectors
- SPEEDCON fast locking system
- Standardized in accordance with IEC 61076-2-111
- Approval in accordance with UL 2237

New product for 2017					
 Web code: <a href="#">#1108</a>					
Description	Cable with K-coded connector		Cable with L-coded connector		Cable with M-coded connector
Number of positions	5 (4+PE)		5 (4+FE)	4	6 (5+PE)
Shielding	Shielded	Unshielded	Unshielded		Unshielded
Conductor cross section	2.5 mm <sup>2</sup>		1.5 – 2.5 mm <sup>2</sup>		1.5 mm <sup>2</sup>
Current/voltage	16 A/630 V AC		16 A/63 V DC		8 A/630 V AC
Designation	SAC-5P-MSK/1,5-PUR PE SH SCO	SAC-5P-1,5-PUR/FSK PE SCO	SAC-5P-MSL/1,5-280 FE SCO	SAC-4P-1,5-105/FSL SCO	SAC-6P-MSM/1,5-PUR PE SCO
Order No.	<a href="#">1414867</a>	<a href="#">1414770</a>	<a href="#">1414883</a>	<a href="#">1425033</a>	<a href="#">1414949</a>

# Connectors for PROFINET applications for safe power transmission

The new push-pull ADVANCE connectors are suitable for power transmission up to 24 V and 16 A. The IP65/IP67 connectors have a one-piece zinc die-cast housing with large wiring space for an outer cable diameter of 6.5 mm to 13 mm. The locking prevents inadvertent removal.





## Your advantages

- ✓ Push-pull ADVANCE locking system prevents inadvertent release of the plug-in connection
- ✓ One-piece zinc die-cast housing for maximum safety in IP65/IP67 industrial environments
- ✓ Easy-to-install front mounting of the power insert with quick-release mechanism
- ✓ No exposed seals in the function area
- ✓ Individual production identification for traceability

## Main features

- Currents up to 16 A
- Voltages up to 24 V
- With push-pull ADVANCE locking system
- One-piece housing design
- For cable diameters from 6.5 to 13 mm
- Degree of protection: IP65/IP67

New product for 2017		
<div>  <b>Web code:</b> <a href="#">#1129</a> </div>		
		
Description	Push-pull ADVANCE POWER	
Version	9 mm – 13 mm cable diameter	6.5 mm – 9.5 mm cable diameter
Designation	CUC-PPC-C2ZNI-SX/24FKP5	CUC-PPC-C2ZNI-SS/24FKP5
Order No.	<a href="#">1421783</a>	<a href="#">1421785</a>

# Robust panel mounting frames for RJ45 and FO connectors

The new push-pull ADVANCE panel mounting frames for data connectors are made from robust zinc die-cast and are ideal for industrial applications. The IP65/IP67 panel mounting frames are designed for the connection of RJ45 or SCRJ connectors. They therefore support flexible solutions for data transmission.







## Your advantages

- ✓ Simplified logistics processes: uniform design for RJ45 and FO pin connector patterns
- ✓ Ideal for industrial applications, thanks to consistent overall shielding braid
- ✓ Consistent mounting accessories for various fields of application, such as 45° outlet or deep device cutouts

## Main features

- One-piece design
- With self-closing protective lid
- Material: zinc die-cast
- Degree of protection: IP65/IP67

New product for 2017			
 Web code: <a href="#">#1130</a>			
			
Description	Push-pull panel mounting frame for RJ45	Push-pull panel mounting frame for SCRJ	Protective lid
Version	Zinc die-cast	Zinc die-cast	-
Designation	CUC-V14-F1ZNI-EM/R4F8	FOC-V14-F1ZNI-EM/SJB	CUC-V14-A1PBK-PC
Order No.	<a href="#">1413961</a>	<a href="#">1413964</a>	<a href="#">1413970</a>



# D-SUB contact carriers for individual applications

The new D-SUB contact carriers extend the existing product portfolio. They provide solutions for individual areas of application, from the standard contact insert and 44-pos. high-density contact inserts to hybrid contact inserts for signal and power transmission.







## Your advantages

- ✓ UL-approved contact inserts
- ✓ Individual layouts for data, signal, and power transmission
- ✓ Different thread types for attachment to the sleeve housing or device panel
- ✓ Various connection methods for every application

## Main features

- 9 to 44-pos.
- Standard, HD or hybrid contact inserts
- Turned crimp contacts for 28 - 18 AWG crimp connectors
- Solder pin, solder cup or flat-ribbon cable connection
- Designs: D-SUB 9, D-SUB 15, D-SUB 25

New product for 2016										
 Web code: #0676										
										
Description	Standard contact insert		High-density contact insert		Standard contact insert		Hybrid contact insert		Crimp contacts	
No. of positions (examples)	9		15		9		10 x signal 1 x power		1	
Connection method	Solder pin		Solder pin		Flat-ribbon cable		Solder pin, solder cup		Crimp	
Type of contact	Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
Order No.	1418717	1418726	1418731	1418736	1418739	1418742	1418755	1418759	1418784	1418787

# Robust sleeve housings for D-SUB contact carriers

The new, robust D-SUB sleeve housings extend the proven product portfolio for the transmission of signals, data, and power. The full metal or plastic versions with metal alloy provide optimum connection solutions for harsh ambient conditions.




## Your advantages

- ✓ Plastic and anti-magnetic full metal sleeve housings for more stringent environmental requirements
- ✓ Easy to mount, thanks to catch spring system and pre-assembled locking screws
- ✓ Angled cable outlet with strain relief
- ✓ Particularly suitable for D-SUB connectors with special contacts, thanks to large interior

## Main features

- Full metal housing: zinc die-cast galvanized
- Plastic housing: PC+ABS according to UL 94 V-0
- Designs: D-SUB 9, D-SUB 15, D-SUB 25
- Degree of protection: IP20

New product for 2016									
   									
   									
<b>Description</b>	<b>Sleeve housing, full metal</b>		<b>Sleeve housing, full metal</b>		<b>Sleeve housing, metal alloy</b>		<b>Sleeve housing, metal alloy</b>		
<b>Type of locking</b>	Fast locking system		Screw		Fast locking system		Screw		
<b>Cable outlet</b>	Straight	Angled	Straight	Angled	Straight	Angled	Straight	Angled	
<b>Order No. D-SUB 9 design</b>	1419746	1419754	1419722	1419723	1419729	-	1419705	1419706	
<b>Order No. D-SUB 15 design</b>	1419756	1419757	1419724	1419725	1419731	1419732	1419710	1419718	
<b>Order No. D-SUB 25 design</b>	1419758	1419759	1419727	1419728	1419736	1419741	1419719	1419721	

# RJ45 socket modules for data transmission suitable for industrial use

The new, robust cable connection and coupler modules guarantee fast and safe data transmission in a space-saving design. The versions for Freenet and Keystone can be integrated into existing panel mounting frames or mounted directly on the DIN rail.








## Your advantages

- ✓ Robust zinc die-cast housing
- ✓ Compact design suitable for industrial use
- ✓ Wide range of possible applications, thanks to Freenet and Keystone integration

## Main features

- CAT6<sub>A</sub> cable connection modules with IDC connection technology
- Suitable for 10GBASE-T applications according to IEEE 802.3™ Section Four
- Free from halogen and heavy metals according to the RoHS 2 EU directive
- Connection cross section: 26 ... 24 AWG (solid, stranded)

New product for 2016				
 Web code: <a href="#">#0672</a>				
				
Description	RJ45 cable connection module	RJ45 coupler module	DIN rail module with integrated RJ45 cable connection	DIN rail module with integrated RJ45 coupler module
Transmission category	CAT6 <sub>A</sub>	CAT6 <sub>A</sub>	CAT6 <sub>A</sub>	CAT6 <sub>A</sub>
Version	Adapter-free, Freenet, Keystone	For Freenet	For DIN rails	For DIN rails
Order No. for adapter-free	<a href="#">1417274</a>	-	<a href="#">1419024</a>	<a href="#">1418094</a>
Order No. for Freenet	<a href="#">1418984</a>	<a href="#">1419022</a>	-	-
Order No. for Keystone	1419021	-	-	-

# Compact 19" patch bays for RJ45 connection modules

The new, compact 19" patch bays are particularly suitable for industrial and building cabling. The RJ45 connection modules can be assembled without using special tools and easily and securely latched in the patch bay.



## Your advantages

- ✓ High packing density on one rack unit
- ✓ Easy mounting and assembly without special tools
- ✓ Integrated cable outlet and direct grounding concept included
- ✓ Future-proof modules for data rates up to 10 Gbps.

## Main features

- Height: one rack unit (1 RU)
- Designed for 24 RJ45 connection modules
- 19" mounting kit included
- Marking window with interchangeable marking strips
- Color: gray or black

New product for 2017			
 Web code: <a href="#">#1128</a>			
			
Description	19" patch bay	19" patch bay	RJ45 connection module
Color	Gray	Black	Silver-gray
Number of ports	24	24	1
Dimensions	43.6 x 482.6 x 83.4 mm	43.6 x 482.6 x 83.4 mm	15.6 x 17.9 x 34.9 mm
Transmission category	-	-	CAT6 <sub>A</sub>
Designation	CUC-PP-FR19:1U-I-EMPTY:24	CUC-PP-FR19:1U-I-EMPTY:24 BK	CUC-I-J1ZNI-S/R4IDC8
Order No.	<a href="#">1422978</a>	<a href="#">1422979</a>	<a href="#">1417274</a>

# Pre-assembled 19" splice boxes for control cabinets and computer centers

The 19" splice boxes, which are fully pre-assembled ready to splice, have a front tray that can be pulled out and up to 24 LC duplex connections per rack unit, thus providing high connection density. High-quality individual components and individual test reports for each pigtail meet the highest quality requirements.








## Your advantages

- ✓ Front tray that can be pulled out
- ✓ Fully pre-assembled, high-quality components
- ✓ Color-coded pigtails including individual test reports
- ✓ Cable glands and 19" mounting set included

## Main features

- Made from robust sheet steel
- 12 or 24 ceramic couplings
- 24 or 48 pigtails
- 2 or 4 splice cassettes
- Shrink splice protection for 24 or 48 splices
- 4 or 8 splice combs

New product for 2016				
 Web code: #0663				
				
Description	19" splice box for 12 x LC duplex	19" splice box for 24 x LC duplex	19" splice box for 12 x LC duplex	19" splice box for 24 x LC duplex
Fiber class	OM2	OM2	OM4	OM4
Housing color	Gray	Gray	Black	Black
Designation	FOC-SB-FR19:1U-LCD12-OM2 GY	FOC-SB-FR19:1U-LCD24-OM2 GY	FOC-SB-FR19:1U-LCD12-OM4 BK	FOC-SB-FR19:1U-LCD24-OM4 BK
Order No.	1418815	1418816	1418817	1418818

# Zip cord patch cables with OM1 fiber

Thanks to extensive testing, the new OM1 zip cord patch cables achieve an optimum level of quality. Various connector combinations and customer-specific cable lengths allow custom solutions to be created for every application.






## Your advantages

- ✓ Excellent mechanical and optical transmission properties
- ✓ Different connector combinations and cable lengths according to customer requirements
- ✓ Comprehensive test program plus extensive interferometer tests in each certification process
- ✓ Variable head-to-head combination and individual cable lengths starting from a batch size of 1 unit

## Main features

- Fiber category OM1 (62.5/125  $\mu\text{m}$ )
- UPC polishing process IL < 0.3 dB;  
RL > 35 dB for PC polished connectors
- Fire protection according to UL OFNR and LSZH
- UL Listed

New product for 2016				
 Web code: #0669				
Description		Zip cord patch cable OM1 (62.5/125 $\mu\text{m}$ )		
Version	ST to ST	LC to ST	SC to FSMA	FSMA to FSMA
Designation	FOC-ST:A-ST:A-GZ04/...	FOC-ST:A-LC:A-GZ04/...	FOC-FS:A-SC:A-GZ04/...	FOC-FS:A-FS:A-GZ04/...
Order No.	1413821	1413792	1406536	1406532

# Photovoltaic connectors for solar panels with crimp connection

Cable photovoltaic systems easily and reliably with SUNCLIX DC connectors. The version with crimp connection is ideal for machine assembly. Thanks to their market-driven design, the connectors are ready for the current and future requirements of all relevant markets.







## Your advantages

- ✓ Minimal potential for error, thanks to unique SUNCLIX pin connector pattern
- ✓ Permanently safe and reliable DC connector
- ✓ Long-term stability, thanks to high-quality materials and components
- ✓ Maximum system efficiency, thanks to the proven, low-loss SUNCLIX contacts
- ✓ Crimp connection for common industrial manufacturing processes

## Main features

- Currents: 30 A nominal current
- Voltages: 1500 V/1000 V (UL)
- Degree of protection: IP68 (24 h/2 m)
- SUNCLIX pin connector pattern
- Crimp connection for machine assembly
- Approval according to DIN EN 62852, UL 6703 (in progress)

New product for 2016												
 Web code: #0674												
Description	Housing for DC connectors			Contacts for crimp connection								
Type	Pin (-)		Socket (+)		Pin contact		Socket contact					
Cross section	2.5 mm <sup>2</sup> /4 mm <sup>2</sup> /6 mm <sup>2</sup> 14/12/10 AWG			2.5 mm <sup>2</sup> / 4 mm <sup>2</sup> 14/12 AWG		6 mm <sup>2</sup> 10 AWG		2.5 mm <sup>2</sup> / 4 mm <sup>2</sup> 14/12 AWG		6 mm <sup>2</sup> 10 AWG		
Nominal current	-			30 A								
Designation	PV-CM-C-HSG		PV-CF-C-HSG		PV-FT-CCM(F)- ... -R1000							
Order No.	1622662		1622661		1704927		1704928		1704930		1704931	



# Contact inserts for heavy-duty connectors with single and double Push-in connection

Push-in contact inserts can be installed quickly and easily. Push-in inserts are now also available in the A series. The new modular TWIN inserts with a fixed number of positions for the B series offer Push-in connection technology with double conductor connection for the first time. All contact inserts fit HEAVYCON complete. The contact inserts are compatible with the market standard.





## Your advantages

- ✓ The right Push-in insert for every size, thanks to the comprehensive range
- ✓ Easy and tool-free installation with Push-in connection
- ✓ Save installation space and marshalling levels with bridgeable TWIN inserts
- ✓ Can be flexibly combined with other connection technologies and housings
- ✓ Reliable connection of inserts with a fixed number of positions, thanks to coding with plastic profiles

## Main features

- Push-in connection
- Material: polycarbonate
- Available in pin and socket versions

New product for 2017						
 Web code: #0655						
Description	Contact insert A series			TWIN contact insert B series		
Version	Fixed number of positions			Fixed number of positions		Modular
Housing size	D7	D15 / D25		B16	B24	B6 ... B48
Rated current	16 A	16 A		10 A		
Rated voltage	230 / 400 V	250 V		500 V		
Designation for pin	HC-A04-I-PT-M	HC-A10-I-PT-M	HC-A16-I-PT-M	HC-B16-I-TPT-M	HC-B24-I-TPT-M	HC-M-05L-TPT-M
Order No. for pin	1585278	1585359	1585375	1423019	1423021	1423961

# Professional service

In addition to a large number of new products, we also provide great flexibility in customer-specific adaptations. From color variations to printing and special packaging, we can provide you with almost anything – even brand new product developments.

## Flexibility in different versions

Whether you need individual colors, modern special printing, a specific number of contacts or complete cable assemblies, our Service Centers will be happy to support you in quickly meeting your needs.

## Innovation expertise

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

## Professional service and support

During the design-in process, we offer advice and support from the initial inquiry to the finished product, wherever you are in the world.





Wide range of color versions



Customer-specific cable assemblies



Individual printing



Special punching, coding, and pin lengths



Connection block for temperature sensors



Hybrid connector for charging stations



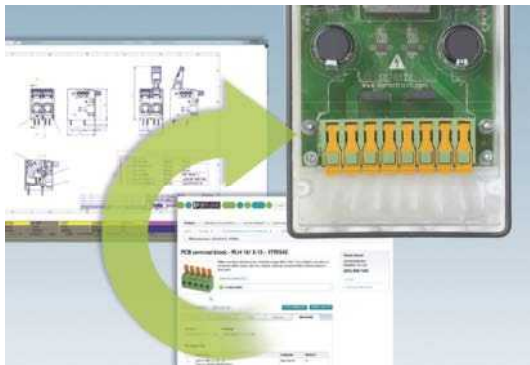
Connection system for LED street lighting



Controller housing with front connection technology



Fast product selection using web tools



Convenient 3D data download



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