
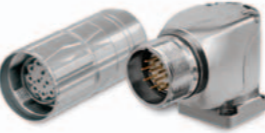








Circular Connectors

**Product
Overview**

Signal connectors for assembly, shielded / unshielded

	EMC					Without EMC
	M17 shielded, ST series	M23 shielded, RF series	M23 shielded, RC series	M23 universal shielded, UC series	Bayonet universal shielded, TU series	M23 unshielded, RC / RM series
						
Description	<ul style="list-style-type: none"> Extremely compact connectors for general industrial applications. M17 SPEEDCON quick locking, option of M17 x 1 standard thread. Time-saving lateral clipping in of the contacts. No special tools required. Extremely fast connecting of the shield without splicing. Cable Ø 2 - 11 mm. 	<ul style="list-style-type: none"> Universal industrial connector. M23 x 1 standard thread (SPEEDCON quick locking in preparation). Time-saving lateral clipping in of the contacts. No special tools required. Extremely fast connecting of the shield without splicing. Cable Ø 4.5 - 13.5 mm. 	<ul style="list-style-type: none"> Modular design. Variety of housing designs and pin assignments with different contact connection types. The connectors are supplied as individual components – housing, EMC gland, contact insert. Cable Ø 2 - 10.5 mm, shielded. 	<ul style="list-style-type: none"> Modular design. More cabling space for larger cable diameters. Universal shielding function and cable clamping. The connectors are supplied as individual components – housing, contact insert. Cable Ø 2 - 14.5 mm, shielded. 	<ul style="list-style-type: none"> Bayonet locking system which is easy to use but robust at the same time. The TU series is based on the UC connectors, with a larger cabling space and universal shielding function. The connectors are supplied as individual components – housing, contact insert. Cable Ø 2 - 14.5 mm, shielded. 	<ul style="list-style-type: none"> Metric/Pg thread for cable gland. Modular design. Variety of housing designs and pin assignments with different contact connection types. The connectors are supplied as individual components – housing, cable gland, contact insert. Cable Ø 4 - 14 mm, unshielded.
Housing designs	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Receptacles front mounting: Straight, angled and fixed, angled and rotatable Compact flange dimensions 21 mm x 21 mm / 25 mm x 25 mm Connector Ø 20 mm 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Receptacles front mounting: Straight, angled and fixed, angled and rotatable Connector Ø 26 mm 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Sleeve connectors, angled Cable connecting receptacles for wall mounting Receptacles, front mounting: Straight, angled and fixed Receptacles, rear mounting: Straight 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Sleeve connectors, angled Cable connecting receptacles for wall mounting Fully compatible with the RC receptacles 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Sleeve connectors, angled Receptacles, front mounting: Straight Receptacles, rear mounting: Straight 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Sleeve connectors, angled Cable connecting receptacles for wall mounting Receptacles, front mounting: Straight, angled and fixed Receptacles, rear mounting: Straight
Number of positions	12 / 17 All housings are available with either pin or socket	12 / 17 All housings are available with either pin or socket	6 / 7 / 9 (6+3) / 9 (8+1) / 12 / 16 / 17 / 19 (16+3) / 19 (16+2+PE) All housings are available with either pin or socket	6 / 7 / 9 (6+3) / 9 (8+1) / 12 / 16 / 17 / 19 (16+3) / 19 (16+2+PE) All housings are available with either pin or socket	6 / 7 / 9 (6+3) / 9 (8+1) / 12 / 16 / 17 / 19 (16+3) / 19 (16+2+PE) All housings are available with either pin or socket	6 / 7 / 9 (6+3) / 9 (8+1) / 12 / 16 / 17 / 19 (16+3) / 19 (16+2+PE) All housings are available with either pin or socket
Contact connection	Crimp contacts, machined: 0.03-0.35 mm ²	Crimp contacts, machined: 0.08-0.56 mm ² Crimp contacts, stamped (taped): 0.08-0.56 mm ²	Solder contacts: ≤ 2.5 mm ² Crimp contacts: 0.14-1.5 mm ² Screw contacts: ≤ 1.5 mm ² Dip solder contacts for receptacles	Solder contacts: ≤ 2.5 mm ² Crimp contacts: 0.14-1.5 mm ² Screw contacts: ≤ 1.5 mm ² Dip solder contacts for receptacles	Solder contacts: ≤ 2.5 mm ² Crimp contacts: 0.14-1.5 mm ² Screw contacts: ≤ 1.5 mm ² Dip solder contacts for receptacles	Solder contacts: ≤ 2.5 mm ² Crimp contacts: 0.14-1.5 mm ² Screw contacts: ≤ 1.5 mm ² Dip solder contacts for receptacles
Mechanical insertion/ Withdrawal cycles	Standard: 50, more on request	Standard: 50, Stamped crimp contacts: 10 000	Standard: 50, more on request	Standard: 50, more on request	Standard: 50, more on request	Standard: 50, more on request
Temperature range [°C]	-20 to +125 long-term temperature	-20 to +125 long-term temperature	-40 to +125 long-term temperature	-40 to +125 long-term temperature	-40 to +125 long-term temperature	-40 to +125 long-term temperature
Nominal/ Rated current Pos. [A]	<u>12/17-pos.</u> 3.6	<u>12/17-pos.</u> 8	<u>6/7-pos.</u> 20 <u>6+3/8+1-pos.</u> 8 / 20 <u>12 to 19-pos.</u> 8	<u>6/7-pos.</u> 20 <u>6+3/8+1-pos.</u> 8 / 20 <u>12 to 19-pos.</u> 8	<u>6/7-pos.</u> 20 <u>6+3/8+1-pos.</u> 8 / 20 <u>12 to 19-pos.</u> 8	<u>6/7-pos.</u> 20 <u>6+3/8+1-pos.</u> 8 / 20 <u>12 to 19-pos.</u> 8
Nominal/ Rated voltage Pos. [V]	<u>12/17-pos.</u> 63 / 32	<u>12/17-pos.</u> 150 / 125	<u>6/7/8+1-pos.</u> 300 <u>6+3 to 19-pos.</u> 150	<u>6/7/8+1-pos.</u> 300 <u>6+3 to 19-pos.</u> 150	<u>6/7/8+1-pos.</u> 300 <u>6+3 to 19-pos.</u> 150	<u>6/7/8+1-pos.</u> 300 <u>6+3 to 19-pos.</u> 150
Contact resistance [mΩ]	≤5	≤5	≤3	≤3	≤3	≤3
Test voltage Pos. [kVAC]	<u>12/17-pos.</u> 1.5	<u>12/17-pos.</u> 2.5 / 2	<u>6/7/8+1-pos.</u> 2.5 <u>6+3 to 19-pos.</u> 1.5	<u>6/7/8+1-pos.</u> 2.5 <u>6+3 to 19-pos.</u> 1.5	<u>6/7/8+1-pos.</u> 2.5 <u>6+3 to 19-pos.</u> 1.5	<u>6/7/8+1-pos.</u> 2.5 <u>6+3 to 19-pos.</u> 1.5
Surge voltage category (Reference: DIN EN 61984:2001)	III	III	II	II	II	II
Degree of protection	IP67 in locked state	IP67 in locked state	IP67 in locked state	IP67 in locked state	IP67 in locked state	IP65 to IP68 depending on cable gland, in locked state
Contamination class (IEC 664-1) (Reference: DIN EN 61984:2001)	2 (3')	2 (3')	2 (3')	2 (3')	2 (3')	2 (3')
Ordering information	Available from: 4. quarter 2006	Available from: 3. quarter 2006	See catalog In Stock Versions, Signal and Universal	See catalog In Stock Versions, Signal and Universal	See catalog In Stock Versions, Signal and Universal	See catalog In Stock Versions, Signal and Universal

Coninvers circular connectors for industrial automation

Coninvers is an autonomous company and is the specialist for circular connectors within the Phoenix Contact Group.

Complete program

ConPower is a complete family of connectors. It includes power and feedback connectors and is therefore the ideal combination for the time-saving connection of electrical drive components with transmission capacities up to 150 A at 630 V.

Connectors with a system

Coninvers in stock versions are a range developed for industrial signal and power applications. It allows us to offer our customers a wide range of model variants



and combinations, and to deliver these within three working days.

SPEEDCON quick locking





Plug – twist – lock. So simple and the SPEEDCON connectors can be locked with just half a turn of the coupling nut. The system offers a high degree of protection against vibration and is downwards compatible with the existing metric locking threads.



Feedback / Power connectors for assembly

	Feedback		Power			
	ConPower F30 M23, RF series	ConPower P20 M17, ST series	ConPower P30 M23, SF series	ConPower P70 M40, SM series	ConPower P150 M58, SL series	
Description	<ul style="list-style-type: none"> Universal industrial connector. M23 x 1 standard thread (SPEEDCON quick locking in preparation). Time-saving lateral clipping in of the contacts. No special tools required. Extremely fast connecting of the shield without splicing. Cable Ø 4.5 - 13.5 mm. 	<ul style="list-style-type: none"> Extremely compact connectors for general industrial applications. M17 SPEEDCON quick locking, option of M17 x 1 standard thread. Time-saving lateral clipping in of the contacts. No special tools required. Extremely fast connecting of the shield without splicing. Cable Ø 2 - 11 mm. 	<ul style="list-style-type: none"> Can transmit electrical power up to 250/630 V at 9/30 A. Complete range for flexible machine and system cabling. M23 x 1 standard thread (SPEEDCON quick locking in preparation). Time-saving lateral clipping in of the contacts. Cable Ø 7.5 - 18 mm, shielded. 	<ul style="list-style-type: none"> Can transmit electrical power up to 250/630 V at 9/70 A. Complete range for flexible machine and system cabling. M40 x 1.5 standard thread (SPEEDCON quick locking in preparation). Time-saving lateral clipping in of the contacts. Cable Ø 8.5 - 25 mm, shielded. 	<ul style="list-style-type: none"> Can transmit very high electrical power up to 250/630 V at 12/150 A. M58 x 2 standard thread (SPEEDCON quick locking in preparation). Time-saving lateral clipping in of the contacts. Extremely fast connecting of the shield. Cable Ø 17 - 36 mm, shielded. 	
Housing designs	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Receptacles front mounting: Straight, angled and fixed, angled and rotatable Connector Ø 26 mm 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Receptacles front mounting: Straight, angled and fixed, angled and rotatable Compact flange dimensions 21 mm x 21 mm / 25 mm x 25 mm Connector Ø 20 mm 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Cable connecting receptacles for wall mounting Wall bushings Receptacles front mounting: Straight, angled and fixed, angled and rotatable 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Cable connecting receptacles for wall mounting Wall bushings Receptacles front mounting: Straight, angled and fixed, angled and rotatable 	<ul style="list-style-type: none"> Sleeve connectors Cable connecting receptacles 	
Number of positions	12 / 17 All housings are available with either pin or socket	12 / 17 4 (3+PE) / 6 (5+PE) / 8 (4+3+PE) All housings are available with either pin or socket	6 (5+PE) / 8 (4+3+PE)	6 (2+3+PE) / 8 (4+3+PE)	6 (2+3+PE) / 8 (4+3+PE)	
Contact connection	Crimp contacts, machined: 0.08-1.0 mm ² Crimp contacts, stamped (taped): 0.08-0.56 mm ²	Crimp contacts, machined: 0.03-2.5 mm ² Crimp contacts, stamped (taped): 0.08-0.56 mm ²	Crimp contacts, machined: 0.08-4.0 mm ²	Crimp contacts, machined: 0.14-16.0 mm ²	Crimp contacts, machined: 1.0-50 mm ²	
Mechanical insertion/ Withdrawal cycles	Standard: 50, Stamped crimp contacts: 10 000	Standard: 50, Stamped crimp contacts: 10 000	Standard: 50, more on request	Standard: 50, more on request	Standard: 50, more on request	
Temperature range [°C]	-20 to +125 long-term temperature	-20 to +125 long-term temperature	-20 to +125 long-term temperature	-20 to +125 long-term temperature	-20 to +120 long-term temperature	
Nominal/ Rated current	Pos. [A] 12/17 / 8	12/17 / 3.6 3+PE / 20 5+PE/4+3+PE / 14	5+PE / 30 4+3+PE / 9 / 30	2+3+PE / 9 / 70 4+3+PE / 9 / 70	2+3+PE / 12 / 150 4+3+PE / 12 / 150	
Nominal/ Rated voltage	Pos. [V] 12 / 17 / 150 / 125	12 / 17 / 63 / 32 3+PE / 400 5+PE/4+3+PE / 630	5+PE / 630 4+3+PE / 250 / 630	2+3+PE / 250 / 630 4+3+PE / 250 / 630	2+3+PE / 250 / 630 4+3+PE / 250 / 630	
Contact resistance [mΩ]	≤5	≤5	≤3	≤3	4 6	
Test voltage	Pos. [kVAC] 12 / 17 / 2.5 / 2	12/17 / 1.5 3+PE / 6 5+PE/4+3+PE / 6	5+PE / 6 4+3+PE / 4 / 6	2+3+PE / 4 / 6 4+3+PE / 4 / 6	2+3+PE / 4 / 6 4+3+PE / 4 / 6	
Surge voltage category (Reference: DIN EN 61984:2001)	III	III	III	III	III	
Degree of protection	IP67 in locked state	IP67 in locked state	IP67 in locked state	IP67 in locked state	IP67 in locked state	
Contamination class (IEC 664-1) ("Reference: DIN EN 61984:2001)	2 (3')	2 (3')	2 (3')	3	2 (3')	
Ordering information	Available from: 3. quarter 2006	Available from: 4. quarter 2006	See catalog In Stock Versions, Drive Applications	See catalog In Stock Versions, Drive Applications	See catalog In Stock Versions, Drive Applications	

Signal / Power connectors, plastic-molded

	Signal			Power
	M16 KPV series	M23 KC series	M27 high density KCH series	M23 KCS series
				
Description	<ul style="list-style-type: none"> Standard cable assemblies and conductor lengths (5 m / 10 m). Robust PUR molding. M16 x 0.75 screw locking. The connectors are supplied complete with ready-to-use connecting cable, e.g. as a central plug connection for multi-port systems. 	<ul style="list-style-type: none"> Cable assemblies and conductor lengths in acc. with customer specifications. Cable Ø approx. 4.8 - 13.1 mm. PUR molding at one or both ends. M23 x 1 screw locking. With or without EMC protection. The connectors are supplied complete with ready-to-use connecting cable. 	<ul style="list-style-type: none"> Cable assemblies and conductor lengths in acc. with customer specifications. Cable Ø approx. 4.8 - 13.1 mm. PUR molding at one or both ends. M27 x 1 screw locking. With or without EMC protection. The connectors are supplied complete with ready-to-use connecting cable. 	<ul style="list-style-type: none"> Cable assemblies and conductor lengths in acc. with customer specifications. Cable Ø approx. 4.8 - 13.1 mm. PUR molding at one or both ends. M23 x 1 screw locking. The connectors are supplied complete with ready-to-use connecting cable.
Housing designs	<ul style="list-style-type: none"> Cable socket (female) straight Cable socket (female) angled Cable plug (male) straight Cable plug (male) angled Matching receptacles: PV series 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Sleeve connectors/Cable connecting receptacles, angled Compatible with RC series receptacles 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Sleeve connectors, angled Matching receptacles: HC series 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Sleeve connectors/Cable connecting receptacles, angled Compatible with SC / SF series power connectors and receptacles
Number of positions	8 / 10 / 12 / 14 / to 19	6 / 7 / 9 (6+3) / 9 (8+1) / 12 / 12 (11+PE) / 16 / 17 / 19 (16+3) / 19 (16+2+PE), all housings available with either pin or socket	26 / 26 (25+PE) / 28 / 28 (27+PE) All housings are available with either pin or socket	6 (5+PE) / 8 (4+3+PE)
Contact connection	0.34 mm ² / 0.75 mm ² for standard cable assembly	Solder or crimp	Solder or crimp	Crimp contacts 0.08-2.5 mm ²
Mechanical insertion/ Withdrawal cycles	Standard: 50, more on request	Standard: 50, more on request	Standard: 50, more on request	Standard: 50, more on request
Temperature range [°C]	-25 to +90 long-term temperature	-40 to +125 long-term temperature	-40 to +125 long-term temperature	-40 to +125 long-term temperature
Nominal/ Rated current [A]	$\frac{0.34 \text{ mm}^2}{4}$ $\frac{0.75 \text{ mm}^2}{6}$	$\frac{6/7\text{-pos.}}{20}$ $\frac{6+3/8+1\text{-pos.}}{8 / 20}$ $\frac{12 \text{ to } 19\text{-pos.}}{8}$	8	$\frac{5+PE}{26}$ $\frac{4+3+PE}{9 / 26}$
Nominal/ Rated voltage [V]	150	$\frac{6/7/8+1\text{-pos.}}{300}$ $\frac{6+3 \text{ to } 19\text{-pos.}}{150}$	150	$\frac{5+PE}{600}$ $\frac{4+3+PE}{300 / 600}$
Contact resistance [mΩ]		≤3	≤3	≤3
Test voltage [kVAC]	1.2	$\frac{6/7/8+1\text{-pos.}}{2.5}$ $\frac{6+3 \text{ to } 19\text{-pos.}}{1.5}$	1.5	$\frac{5+PE}{4}$ $\frac{4+3+PE}{2.5 / 4}$
Surge voltage category (Reference: DIN EN 61984:2001)	II	II	II	II
Degree of protection	IP67 in locked state	IP68 in locked state	IP68 in locked state	IP68 in locked state
Contamination class (IEC 664-1) (¹ Reference: DIN EN 61984:2001)	2 (3 ¹)	2 (3 ¹)	2 (3 ¹)	2 (3 ¹)
Ordering information	See main catalog Signal / Sensor-Actuator connectors	Customer-specific after technical clarification	Customer-specific after technical clarification	Customer-specific after technical clarification

Circular Connectors Product Overview

Edition 06/06

Fax Hotline: +49 (0) 70 32 / 92 74 - 330

I would like to receive further information on the following circular connectors:

Circular connectors for assembly

Feedback/Power connectors for assembly

Plastic-molded connectors

I would like a personal consultation.
Please arrange a date.

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Company

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CONINVERS
A Company of the Phoenix Contact Group



Signal connectors for assembly, shielded / unshielded

	EMC					Without EMC
	M17 shielded, ST series	M23 shielded, RF series	M23 shielded, RC series	M23 universal shielded, UC series	Bayonet universal shielded, TU series	M23 unshielded, RC / RM series
Description	<ul style="list-style-type: none"> Extremely compact connectors for general industrial applications. M17 SPEEDCON quick locking, option of M17 x 1 standard thread. Time-saving lateral clipping in of the contacts. No special tools required. Extremely fast connecting of the shield without splicing. Cable Ø 2 - 11 mm. 	<ul style="list-style-type: none"> Universal industrial connector. M23 x 1 standard thread (SPEEDCON quick locking in preparation). Time-saving lateral clipping in of the contacts. No special tools required. Extremely fast connecting of the shield without splicing. Cable Ø 4.5 - 13.5 mm. 	<ul style="list-style-type: none"> Modular design. Variety of housing designs and pin assignments with different contact connection types. The connectors are supplied as individual components – housing, EMC gland, contact insert. Cable Ø 2 - 10.5 mm, shielded. 	<ul style="list-style-type: none"> Modular design. More cabling space for larger cable diameters. Universal shielding function and cable clamping. The connectors are supplied as individual components – housing, contact insert. Cable Ø 2 - 14.5 mm, shielded. 	<ul style="list-style-type: none"> Bayonet locking system which is easy to use but robust at the same time. The TU series is based on the UC connectors, with a larger cabling space and universal shielding function. The connectors are supplied as individual components – housing, contact insert. Cable Ø 2 - 14.5 mm, shielded. 	<ul style="list-style-type: none"> Metric/Pg thread for cable gland. Modular design. Variety of housing designs and pin assignments with different contact connection types. The connectors are supplied as individual components – housing, cable gland, contact insert. Cable Ø 4 - 14 mm, unshielded.
Housing designs	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Receptacles front mounting: Straight, angled and fixed, angled and rotatable Compact flange dimensions 21 mm x 21 mm / 25 mm x 25 mm Connector Ø 20 mm 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Receptacles front mounting: Straight, angled and fixed, angled and rotatable Connector Ø 26 mm 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Sleeve connectors, angled Cable connecting receptacles for wall mounting Receptacles, front mounting: Straight, angled and fixed Receptacles, rear mounting: Straight 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Sleeve connectors, angled Cable connecting receptacles for wall mounting Fully compatible with the RC receptacles 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Sleeve connectors, angled Receptacles, front mounting: Straight Receptacles, rear mounting: Straight 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Sleeve connectors, angled Cable connecting receptacles for wall mounting Receptacles, front mounting: Straight, angled and fixed Receptacles, rear mounting: Straight
Number of positions	12 / 17 All housings are available with either pin or socket	12 / 17 All housings are available with either pin or socket	6 / 7 / 9 (6+3) / 9 (8+1) / 12 / 16 / 17 / 19 (16+3) / 19 (16+2+PE) All housings are available with either pin or socket	6 / 7 / 9 (6+3) / 9 (8+1) / 12 / 16 / 17 / 19 (16+3) / 19 (16+2+PE) All housings are available with either pin or socket	6 / 7 / 9 (6+3) / 9 (8+1) / 12 / 16 / 17 / 19 (16+3) / 19 (16+2+PE) All housings are available with either pin or socket	6 / 7 / 9 (6+3) / 9 (8+1) / 12 / 16 / 17 / 19 (16+3) / 19 (16+2+PE) All housings are available with either pin or socket
Contact connection	Crimp contacts, machined: 0.03-0.35 mm ²	Crimp contacts, machined: 0.08-0.56 mm ² Crimp contacts, stamped (taped): 0.08-0.56 mm ²	Solder contacts: ≤ 2.5 mm ² Crimp contacts: 0.14-1.5 mm ² Screw contacts: ≤ 1.5 mm ² Dip solder contacts for receptacles	Solder contacts: ≤ 2.5 mm ² Crimp contacts: 0.14-1.5 mm ² Screw contacts: ≤ 1.5 mm ² Dip solder contacts for receptacles	Solder contacts: ≤ 2.5 mm ² Crimp contacts: 0.14-1.5 mm ² Screw contacts: ≤ 1.5 mm ² Dip solder contacts for receptacles	Solder contacts: ≤ 2.5 mm ² Crimp contacts: 0.14-1.5 mm ² Screw contacts: ≤ 1.5 mm ² Dip solder contacts for receptacles
Mechanical insertion/ Withdrawal cycles	Standard: 50, more on request	Standard: 50, Stamped crimp contacts: 10 000	Standard: 50, more on request	Standard: 50, more on request	Standard: 50, more on request	Standard: 50, more on request
Temperature range [°C]	-20 to +125 long-term temperature	-20 to +125 long-term temperature	-40 to +125 long-term temperature	-40 to +125 long-term temperature	-40 to +125 long-term temperature	-40 to +125 long-term temperature
Nominal/ Rated current Pos. [A]	12/17-pos. 3.6 8	12/17-pos. 8	6/7-pos. 6+3/8+1-pos. 12 to 19-pos. 8 / 20 8	6/7-pos. 6+3/8+1-pos. 12 to 19-pos. 8 / 20 8	6/7-pos. 6+3/8+1-pos. 12 to 19-pos. 8 / 20 8	6/7-pos. 6+3/8+1-pos. 12 to 19-pos. 8 / 20 8
Nominal/ Rated voltage Pos. [V]	12/17-pos. 63 / 32	12/17-pos. 150 / 125	6/7/8+1-pos. 300 6+3 to 19-pos. 150	6/7/8+1-pos. 300 6+3 to 19-pos. 150	6/7/8+1-pos. 300 6+3 to 19-pos. 150	6/7/8+1-pos. 300 6+3 to 19-pos. 150
Contact resistance [mΩ]	≤5	≤5	≤3	≤3	≤3	≤3
Test voltage Pos. [kVAC]	12/17-pos. 1.5	12/17-pos. 2.5 / 2	6/7/8+1-pos. 2.5 6+3 to 19-pos. 1.5	6/7/8+1-pos. 2.5 6+3 to 19-pos. 1.5	6/7/8+1-pos. 2.5 6+3 to 19-pos. 1.5	6/7/8+1-pos. 2.5 6+3 to 19-pos. 1.5
Surge voltage category (Reference: DIN EN 61984:2001)	III	III	II	II	II	II
Degree of protection	IP67 in locked state	IP67 in locked state	IP67 in locked state	IP67 in locked state	IP67 in locked state	IP65 to IP68 depending on cable gland, in locked state
Contamination class (IEC 664-1) ("Reference: DIN EN 61984:2001)	2 (3')	2 (3')	2 (3')	2 (3')	2 (3')	2 (3')
Ordering information	Available from: 4. quarter 2006	Available from: 3. quarter 2006	See catalog In Stock Versions, Signal and Universal	See catalog In Stock Versions, Signal and Universal	See catalog In Stock Versions, Signal and Universal	See catalog In Stock Versions, Signal and Universal

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Edition 06/06

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Feedback/Power connectors for assembly

Plastic-molded connectors

Please send me:

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	Feedback		Power		
	ConPower F30 M23, RF series	ConPower P20 M17, ST series	ConPower P30 M23, SF series	ConPower P70 M40, SM series	ConPower P150 M58, SL series
Description	<ul style="list-style-type: none"> Universal industrial connector. M23 x 1 standard thread (SPEEDCON quick locking in preparation). Time-saving lateral clipping in of the contacts. No special tools required. Extremely fast connecting of the shield without splicing. Cable Ø 4.5 - 13.5 mm. 	<ul style="list-style-type: none"> Extremely compact connectors for general industrial applications. M17 SPEEDCON quick locking, option of M17 x 1 standard thread. Time-saving lateral clipping in of the contacts. No special tools required. Extremely fast connecting of the shield without splicing. Cable Ø 2 - 11 mm. 	<ul style="list-style-type: none"> Can transmit electrical power up to 250/630 V at 9/30 A. Complete range for flexible machine and system cabling. M23 x 1 standard thread (SPEEDCON quick locking in preparation). Time-saving lateral clipping in of the contacts. Cable Ø 7.5 - 18 mm, shielded. 	<ul style="list-style-type: none"> Can transmit electrical power up to 250/630 V at 9/70 A. Complete range for flexible machine and system cabling. M40 x 1.5 standard thread (SPEEDCON quick locking in preparation). Time-saving lateral clipping in of the contacts. Cable Ø 8.5 - 25 mm, shielded. 	<ul style="list-style-type: none"> Can transmit very high electrical power up to 250/630 V at 12/150 A. M58 x 2 standard thread (SPEEDCON quick locking in preparation). Time-saving lateral clipping in of the contacts. Extremely fast connecting of the shield. Cable Ø 17 - 36 mm, shielded.
Housing designs	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Receptacles front mounting: Straight, angled and fixed, angled and rotatable Connector Ø 26 mm 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Receptacles front mounting: Straight, angled and fixed, angled and rotatable Compact flange dimensions 21 mm x 21 mm / 25 mm x 25 mm Connector Ø 20 mm 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Cable connecting receptacles for wall mounting Wall bushings Receptacles front mounting: Straight, angled and fixed, angled and rotatable 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Cable connecting receptacles for wall mounting Wall bushings Receptacles front mounting: Straight, angled and fixed, angled and rotatable 	<ul style="list-style-type: none"> Sleeve connectors Cable connecting receptacles
Number of positions	12 / 17 All housings are available with either pin or socket	12 / 17 4 (3+PE) / 6 (5+PE) / 8 (4+3+PE) All housings are available with either pin or socket	6 (5+PE) / 8 (4+3+PE)	6 (2+3+PE) / 8 (4+3+PE)	6 (2+3+PE) / 8 (4+3+PE)
Contact connection	Crimp contacts, machined: 0.08-1.0 mm ² Crimp contacts, stamped (taped): 0.08-0.56 mm ²	Crimp contacts, machined: 0.03-2.5 mm ² Crimp contacts, stamped (taped): 0.08-0.56 mm ²	Crimp contacts, machined: 0.08-4.0 mm ²	Crimp contacts, machined: 0.14-16.0 mm ²	Crimp contacts, machined: 1.0-50 mm ²
Mechanical insertion/ Withdrawal cycles	Standard: 50, Stamped crimp contacts: 10 000	Standard: 50, Stamped crimp contacts: 10 000	Standard: 50, more on request	Standard: 50, more on request	Standard: 50, more on request
Temperature range [°C]	-20 to +125 long-term temperature	-20 to +125 long-term temperature	-20 to +125 long-term temperature	-20 to +125 long-term temperature	-20 to +120 long-term temperature
Nominal/ Rated current [A]	Pos. 12/17 8	Pos. 12/17 3.6 3+PE 20 5+PE/4+3+PE 14	Pos. 5+PE 30 4+3+PE 9 / 30	Pos. 2+3+PE 9 / 70 4+3+PE 9 / 70	Pos. 2+3+PE 12 / 150 4+3+PE 12 / 150
Nominal/ Rated voltage [V]	Pos. 12 / 17 150 / 125	Pos. 12 / 17 63 / 32 3+PE 400 5+PE/4+3+PE 630	Pos. 5+PE 630 4+3+PE 250 / 630	Pos. 2+3+PE 250 / 630 4+3+PE 250 / 630	Pos. 2+3+PE 250 / 630 4+3+PE 250 / 630
Contact resistance [mΩ]	≤5	≤5	≤3	≤3	4 6
Test voltage [kVAC]	Pos. 12 / 17 2.5 / 2	Pos. 12/17 1.5 3+PE 6 5+PE/4+3+PE 6	Pos. 5+PE 6 4+3+PE 4 / 6	Pos. 2+3+PE 4 / 6 4+3+PE 4 / 6	Pos. 2+3+PE 4 / 6 4+3+PE 4 / 6
Surge voltage category (Reference: DIN EN 61984:2001)	III	III	III	III	III
Degree of protection	IP67 in locked state	IP67 in locked state	IP67 in locked state	IP67 in locked state	IP67 in locked state
Contamination class (IEC 664-1) (°Reference: DIN EN 61984:2001)	2 (3')	2 (3')	2 (3')	3	2 (3')
Ordering information	Available from: 3. quarter 2006	Available from: 4. quarter 2006	See catalog In Stock Versions, Drive Applications	See catalog In Stock Versions, Drive Applications	See catalog In Stock Versions, Drive Applications

Signal / Power connectors, plastic-molded

	Signal			Power
	M16 KPV series	M23 KC series	M27 high density KCH series	M23 KCS series
Description	<ul style="list-style-type: none"> Standard cable assemblies and conductor lengths (5 m / 10 m). Robust PUR molding. M16 x 0.75 screw locking. The connectors are supplied complete with ready-to-use connecting cable, e.g. as a central plug connection for multi-port systems. 	<ul style="list-style-type: none"> Cable assemblies and conductor lengths in acc. with customer specifications. Cable Ø approx. 4.8 - 13.1 mm. PUR molding at one or both ends. M23 x 1 screw locking. With or without EMC protection. The connectors are supplied complete with ready-to-use connecting cable. 	<ul style="list-style-type: none"> Cable assemblies and conductor lengths in acc. with customer specifications. Cable Ø approx. 4.8 - 13.1 mm. PUR molding at one or both ends. M27 x 1 screw locking. With or without EMC protection. The connectors are supplied complete with ready-to-use connecting cable. 	<ul style="list-style-type: none"> Cable assemblies and conductor lengths in acc. with customer specifications. Cable Ø approx. 4.8 - 13.1 mm. PUR molding at one or both ends. M23 x 1 screw locking. The connectors are supplied complete with ready-to-use connecting cable.
Housing designs	<ul style="list-style-type: none"> Cable socket (female) straight Cable socket (female) angled Cable plug (male) straight Cable plug (male) angled Matching receptacles: PV series 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Sleeve connectors/Cable connecting receptacles, angled Compatible with RC series receptacles 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Sleeve connectors, angled Matching receptacles: HC series 	<ul style="list-style-type: none"> Sleeve connectors/ Cable connecting receptacles Sleeve connectors/Cable connecting receptacles, angled Compatible with SC / SF series power connectors and receptacles
Number of positions	8 / 10 / 12 / 14 / to 19	6 / 7 / 9 (6+3) / 9 (8+1) / 12 / 12 (11+PE) / 16 / 17 / 19 (16+3) / 19 (16+2+PE), all housings available with either pin or socket	26 / 26 (25+PE) / 28 / 28 (27+PE) All housings are available with either pin or socket	6 (5+PE) / 8 (4+3+PE)
Contact connection	0.34 mm ² / 0.75 mm ² for standard cable assembly	Solder or crimp	Solder or crimp	Crimp contacts 0.08-2.5 mm ²
Mechanical insertion/ Withdrawal cycles	Standard: 50, more on request	Standard: 50, more on request	Standard: 50, more on request	Standard: 50, more on request
Temperature range [°C]	-25 to +90 long-term temperature	-40 to +125 long-term temperature	-40 to +125 long-term temperature	-40 to +125 long-term temperature
Nominal/ Rated current [A]	0.34 mm ² 4 0.75 mm ² 6	6/7-pos. 8 / 20 6+3/8+1-pos. 8 / 20	8	5+PE 26 4+3+PE 9 / 26
Nominal/ Rated voltage [V]	150	6/7/8+1-pos. 300 6+3 to 19-pos. 150	150	5+PE 600 4+3+PE 300 / 600
Contact resistance [mΩ]		≤3	≤3	≤3
Test voltage [kVAC]	1.2	6/7/8+1-pos. 2.5 6+3 to 19-pos. 1.5	1.5	5+PE 4 4+3+PE 2.5 / 4
Surge voltage category (Reference: DIN EN 61984:2001)	II	II	II	II
Degree of protection	IP67 in locked state	IP68 in locked state	IP68 in locked state	IP68 in locked state
Contamination class (IEC 664-1) (°Reference: DIN EN 61984:2001)	2 (3')	2 (3')	2 (3')	2 (3')
Ordering information	See main catalog Signal / Sensor-Actuator connectors	Customer-specific after technical clarification	Customer-specific after technical clarification	Customer-specific after technical clarification