

# M17 to M58 circular connectors

Product overview 2019/2020

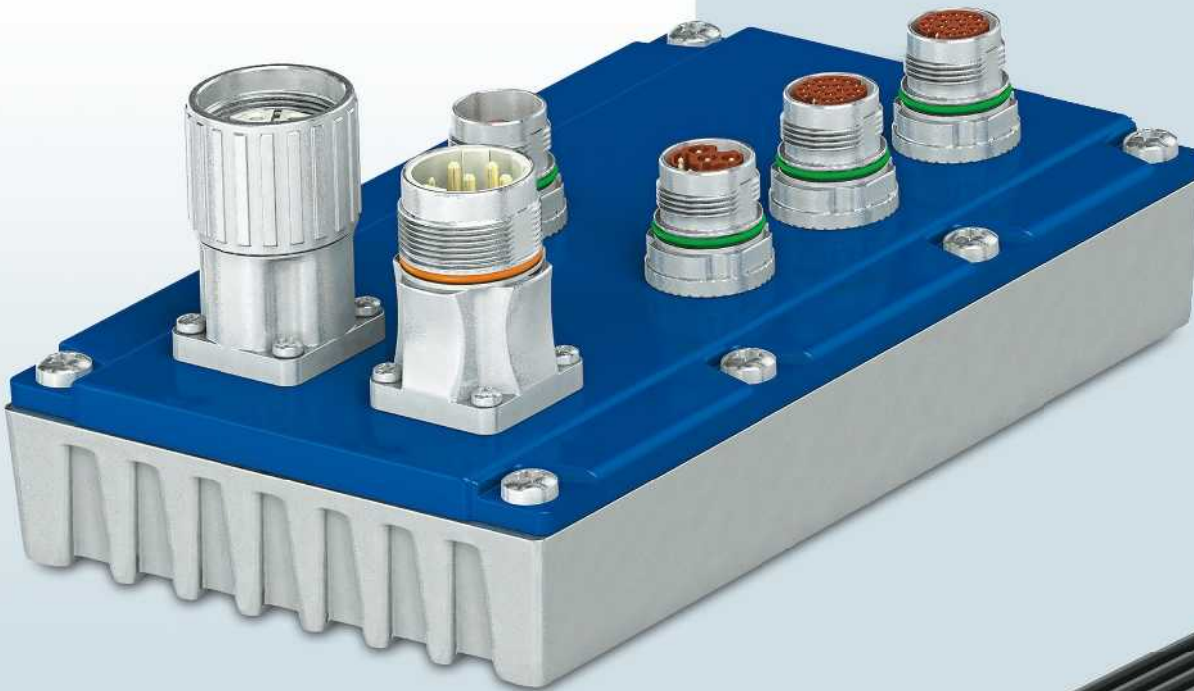
# The largest range – Robust circular connectors

As a specialist in the field, Phoenix Contact offers PLUSCON circular – the largest range of robust circular connectors on the market, from small to large, straight or angled, for signals or power, molded or for on-site assembly. Available in sizes from M5 to M58. These products have been tried and tested over many years, in various fields – industrial automation, electrical drive technology, and in infrastructure applications.

## Signal connectors

- 6- to 19-pos.
- Sizes M17 and M23
- All housings can be fitted with pin or socket contacts
- EMC protection
- Degree of protection: IP67
- Plastic-molded designs

**i** Web code: #0253





### Hybrid connectors

- Signal, data, and power transmission, all via one connector
- Sizes M23 and M40
- CAT5 interface, alternative: 4 additional signal contacts
- Connection cross sections up to 16 mm<sup>2</sup>
- Up to 70 A and 850 V DC/630 V AC
- Plastic-molded designs

**i** Web code: #0254



### Power connectors

- Up to 150 A / 630 V
- Sizes M17, M23, M40, and M58
- 3+PE up to 5+3+PE
- Connection cross sections up to 50 mm<sup>2</sup>
- Degree of protection: IP67
- Plastic-molded designs

**i** Web code: #0255



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### Find out more with the web code

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

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

This allows you to access further information 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](https://phoenixcontact.net/webcode/#1234)

# Unrivalled variety for signals, data, and power

The circular connector product line ranges from 6- to 19-pos. signal connectors in sizes M17 and M23 to hybrid connectors and finally power connectors in sizes M17 to M58 for a maximum of 150 A and 630 V.

Owing to the wide selection of designs and pin assignments, comprehensive solutions for the device and cable side can be devised for transmitting signals, data, and for supplying power to electrical devices and drives.

For smaller sizes and connectors for data transmission up to 10 Gbps visit: [phoenixcontact.com](http://phoenixcontact.com)



For compact device connection

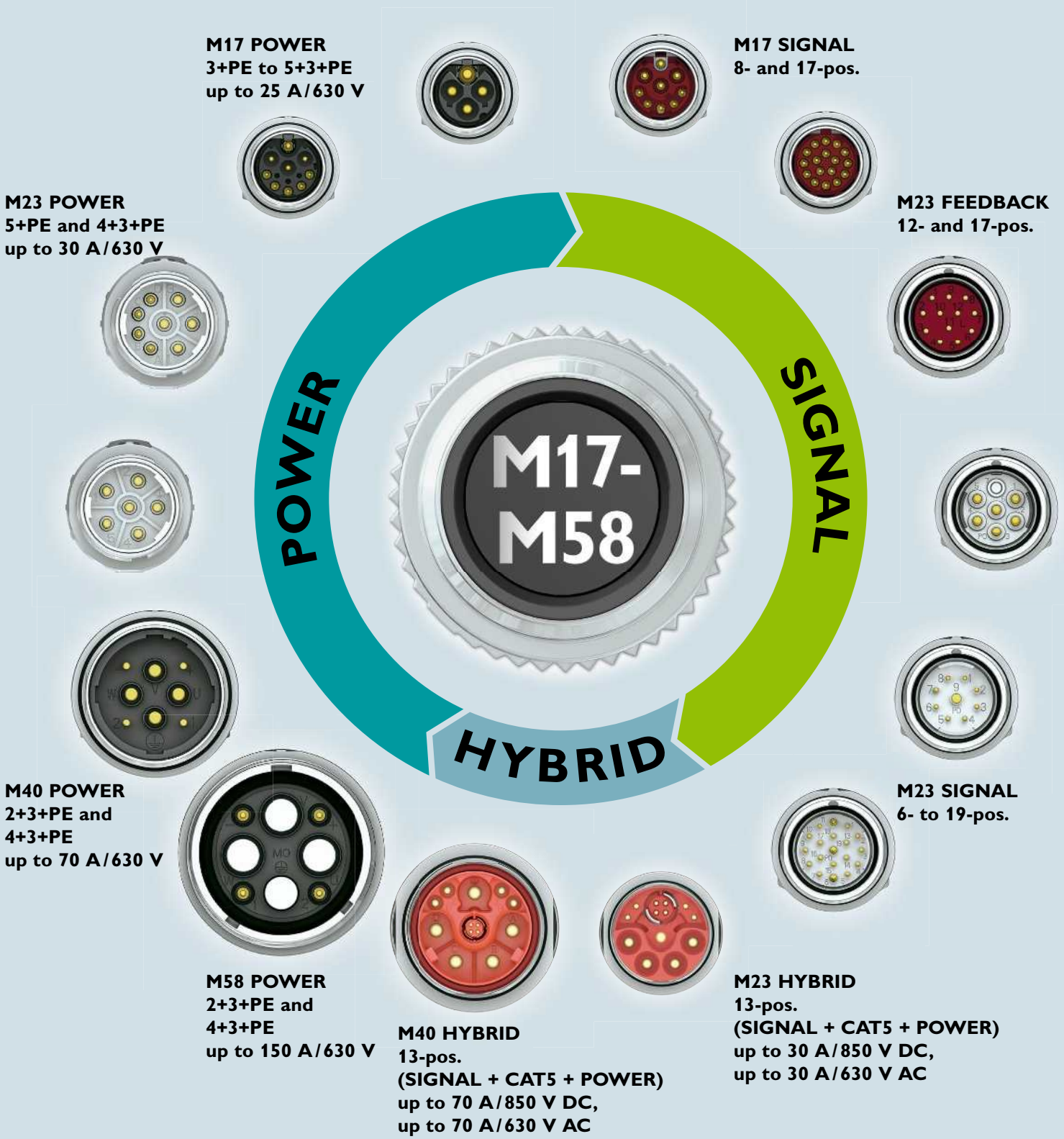


For flexible cable connection



For easy cabling





**M17 POWER**  
3+PE to 5+3+PE  
up to 25 A/630 V

**M17 SIGNAL**  
8- and 17-pos.

**M23 POWER**  
5+PE and 4+3+PE  
up to 30 A/630 V

**M23 FEEDBACK**  
12- and 17-pos.

**POWER**

**SIGNAL**

**HYBRID**

**M17-  
M58**

**M40 POWER**  
2+3+PE and  
4+3+PE  
up to 70 A/630 V

**M23 SIGNAL**  
6- to 19-pos.

**M58 POWER**  
2+3+PE and  
4+3+PE  
up to 150 A/630 V

**M40 HYBRID**  
13-pos.  
(SIGNAL + CAT5 + POWER)  
up to 70 A/850 V DC,  
up to 70 A/630 V AC

**M23 HYBRID**  
13-pos.  
(SIGNAL + CAT5 + POWER)  
up to 30 A/850 V DC,  
up to 30 A/630 V AC

## Page navigation – Circular connectors in M17 to M58

			Signal					
Design	Size	Number of positions	6	7	8	8+1	12	12 Reverse
<b>Cable connectors, cross-manufacturer compatible</b>								
 	M23 PRO, ONECLICK fast locking system		10	10	–	10	11	–
	M23 PRO, standard locking		10	10	–	10	11	–
<b>Device connectors, angled, rotatable, cross-manufacturer compatible</b>								
 	M23 PRO		–	–	–	–	11	–
<b>Cable connectors, SPEEDCON fast locking system</b>								
	M17		–	–	16	–	–	–
	M23		18	18	–	18	18/24	24
	M23 angled		20	20	–	20	20	–
	M40		–	–	–	–	–	–
<b>Cable connectors, standard locking</b>								
	M17		–	–	16	–	–	–
	M23		18	18	–	18	18/24	24
	M23 angled		20	20	–	20	20	–
	M40		–	–	–	–	–	–
	M58		–	–	–	–	–	–
<b>Coupler connectors</b>								
	M17		–	–	16	–	–	–
	M23		18	18	–	18	18/24	24
	M40		–	–	–	–	–	–
	M58		–	–	–	–	–	–
<b>Panel feed-throughs</b>								
	M17		–	–	16	–	–	–
	M23		–	–	–	–	–	–
<b>Device connectors, straight</b>								
	M17		–	–	17	–	–	–
	M23		22	22	–	22	22/25	25
	M40		–	–	–	–	–	–
	M58		–	–	–	–	–	–
<b>Device connectors, angled, rotatable</b>								
	M17		–	–	17	–	–	–
	M23		22	22	–	22	22/25	25
	M40		–	–	–	–	–	–
<b>Plastic-molded cables</b>								
	M17		–	–	–	–	–	–
	M23		–	–	–	–	50	50
	M23 angled		–	–	–	–	50	50
	M40		–	–	–	–	–	–

			Hybrid			Power						
16	17	16+3 16+2+PE	4+4+4+PE CAT5	8+4+PE Signal	4+4+4+PE Signal	3+PE	5+PE	2+3+PE	6+PE	7+PE	4+3+PE	5+3+PE
-	11	-	-	-	-	-	12	-	-	-	12	-
-	11	-	-	-	-	-	12	-	-	-	12	-
-	11	-	-	-	-	-	12	-	-	-	12	-
-	16	-	-	-	-	34	34	-	34	34	-	34
18	18/24	18	28	28	-	-	38	-	-	-	38	-
20	20	20	-	-	-	-	-	-	-	-	-	-
-	-	-	30	-	30	-	-	40	-	-	40	-
-	16	-	-	-	-	34	34	-	34	34	-	34
18	18/24	18	28	28	-	-	38	-	-	-	38	-
20	20	20	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	40	-	-	40	-
-	-	-	-	-	-	-	-	42	-	-	42	-
-	16	-	-	-	-	34	34	-	34	34	-	34
18	18/24	18	28	28	-	-	38	-	-	-	38	-
-	-	-	30	-	30	-	-	40	-	-	40	-
-	-	-	-	-	-	-	-	42	-	-	42	-
-	16	-	-	-	-	34	34	-	34	34	-	34
-	-	-	-	-	-	-	39	-	-	-	39	-
-	17	-	-	-	-	36	36	-	36	36	-	36
22	22/25	22	29	29	-	-	39	-	-	-	39	-
-	-	-	31	-	31	-	-	41	-	-	41	-
-	-	-	-	-	-	-	-	42	-	-	42	-
-	17	-	-	-	-	36	36	-	36	36	-	36
22	22/25	22	29	29	-	-	39	-	-	-	39	-
-	-	-	31	-	31	-	-	41	-	-	41	-
-	50	-	-	-	-	54	54	-	-	54	-	-
-	50	-	52	-	-	56	56	-	-	-	56	-
-	50	-	52	-	-	-	58	-	-	-	58	-
-	-	-	-	-	-	-	-	60	-	-	60	-

# Cross-manufacturer compatible connectors – M17 to M40 PRO

Cross-manufacturer compatible: signal and power connectors from the M17 to M40 PRO series offer uniform solutions for signal and power transmission. Thanks to the unique ONECLICK fast locking system, you can connect your device quickly and safely.



## Main features

- Voltages up to 630 V, currents up to 30 A
- 6- to 19-pos.
- ONECLICK fast locking system
- Device connectors suitable for standard and fast locking systems
- All housings available as pin and socket versions
- Degree of protection: IP66 and IP68



## Your advantages at a glance

### ONECLICK Technology

Designed by PHOENIX CONTACT



#### Available worldwide:

Solutions with cross-manufacturer compatibility for standard and fast locking systems



#### Secure locking:

ONECLICK fast locking system with a clear locking position



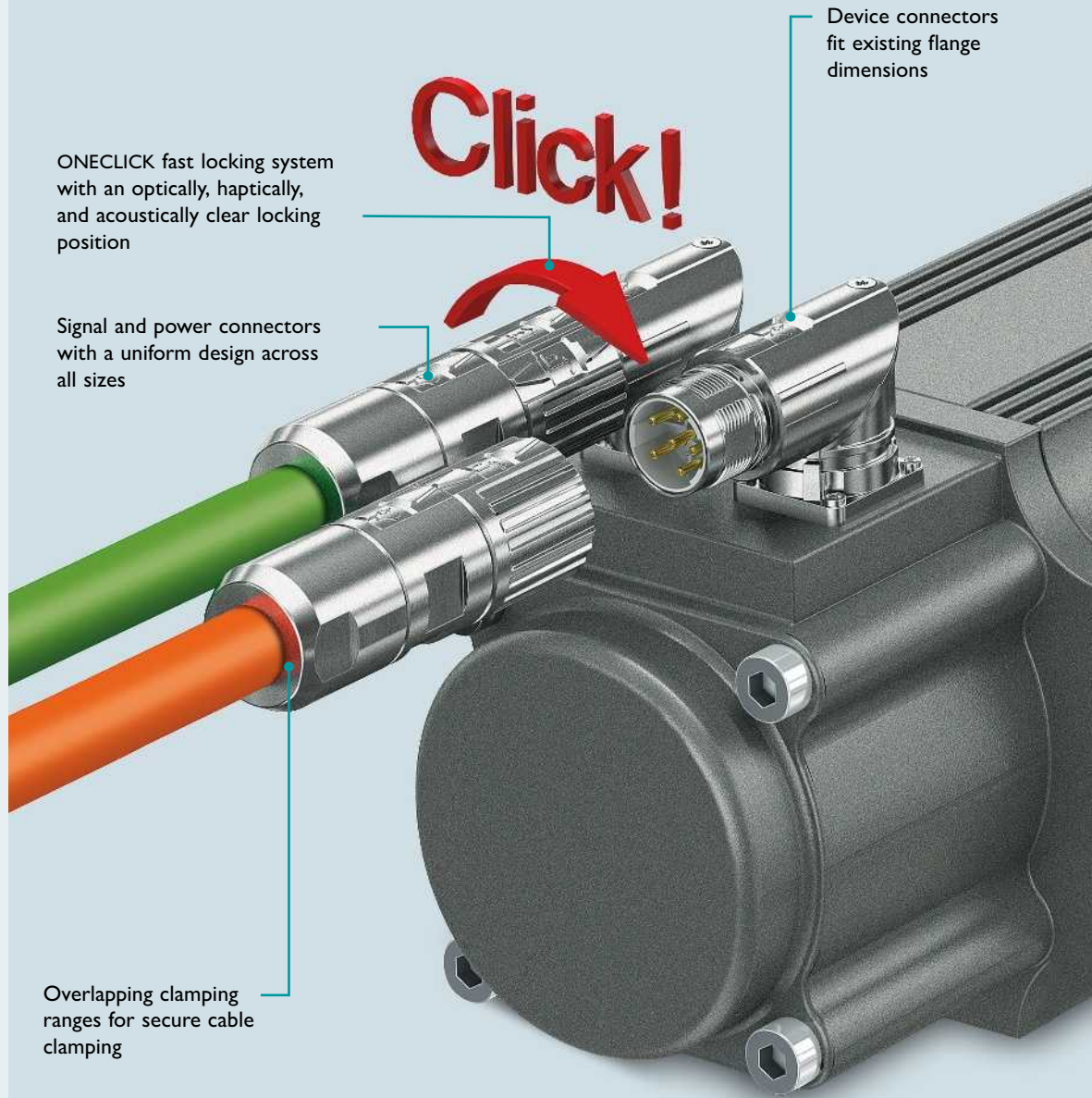
#### Easy assembly:

Easy and reliable shield connection for cost-effective cable assembly



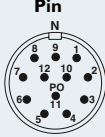



#### Vibration-resistant connection:

Vibration brake in the cable connector for reliable connection under the harshest conditions



Signal – M23 PRO series			6-pos.	7-pos.	9(8+1)-pos.			
<b>Crimp connection</b>	Rated voltage [V AC/DC]		300	300	300			
	Nominal current [A]		20	20	8/20			
	Number of contacts/diameter [mm]		6 x 2.0	7 x 2.0	8 x 1.0/1 x 2.0			
	Litz wire cross sections [mm <sup>2</sup> ]		1.0 ... 2.5	1.0 ... 2.5	0.08 ... 1.0/1.0 ... 2.5			
 Web code: #2068	Pin assignment		 	 	 			
<b>Cable connectors, ONECLICK fast locking system</b>								
 ONECLICK Technology  <small>Designed by PHOENIX CONTACT</small>	Cable clamping range [mm]	3 ... 15	1629188	1629184	1629176	1629180	1629168	1629172
		4 ... 8.5	1629191	1629187	1629179	1629183	1629171	1629175
		6 ... 10	1629190	1629186	1629178	1629182	1629170	1629174
		9 ... 15	1629189	1629185	1629177	1629181	1629169	1629173
<b>Cable connectors, standard locking</b>								
	Cable clamping range [mm]	3 ... 15	1629232	1629236	1629224	1629228	1629216	1629220
		4 ... 8.5	1629235	1629239	1629227	1629231	1629219	1629223
		6 ... 10	1629234	1629238	1629226	1629230	1629218	1629222
		9 ... 15	1629233	1629237	1629225	1629229	1629217	1629221
<b>Crimp contacts, turned, Ø 1 mm</b>								
	Crimp range [mm <sup>2</sup> ]	0.08 ... 0.22	–	–	–	–	1596770	1596772
		0.14 ... 0.56	–	–	–	–	1597862	1599600
		0.5 ... 1.0	–	–	–	–	1602996	1602998
<b>Crimp contacts, rolled, Ø 1 mm</b>								
	Crimp range [mm <sup>2</sup> ]							
	Single contact	0.22 ... 0.56	–	–	–	–	1603321	1603327
	Roll of 500 pcs.	0.22 ... 0.56	–	–	–	–	1603324	1603330
	Roll of 10,000 pcs.	0.22 ... 0.56	–	–	–	–	1603325	1603332
<b>Crimp contacts, turned, Ø 2 mm</b>								
	Crimp range [mm <sup>2</sup> ]	1.0 ... 1.5	1603513	1603517	1603513	1603517	1603513	1603517
		1.5 ... 2.5	1603505	1603509	1603505	1603509	1603505	1603509
<b>Crimping tools</b>								
	Crimping tools as accessories for contacts can be found at <a href="http://phoenixcontact.com">phoenixcontact.com</a>							





The cable clamping ranges specified may vary depending on the cable material and cable design. Selection and testing is the responsibility of the user. Please order crimp contacts separately. Additional housing designs and pin assignments for the M17 and M23 PRO series for signals will be available from the 4th quarter of 2019.

Signal – M23 PRO series		12-pos.	17-pos.			
<b>Crimp connection</b>	Rated voltage [V AC/DC]	150	125			
	Nominal current [A]	8	8			
	Number of contacts/diameter [mm]	12 x 1.0	17 x 1.0			
	Litz wire cross sections [mm <sup>2</sup> ]	0.08 ... 1.0	0.08 ... 1.0			
 Web code: #2068	<b>Pin assignment</b>					
<b>Cable connectors, ONECLICK fast locking system</b>						
<b>New</b> 	Cable clamping range [mm]  ONECLICK Technology <sup>®</sup> Designed by PHOENIX CONTACT	3 ... 15	1629160	1629164	1629152	1629156
		4 ... 8.5	1629163	1629167	1629155	1629159
		6 ... 10	1629162	1629166	1629154	1629158
		9 ... 15	1629161	1629165	1629153	1629157
<b>Cable connectors, standard locking</b>						
<b>New</b> 	Cable clamping range [mm]	3 ... 15	1629208	1629212	1629200	1629204
		4 ... 8.5	1629211	1629215	1629203	1629207
		6 ... 10	1629210	1629214	1629202	1629206
		9 ... 15	1629209	1629213	1629201	1629205
<b>Device connectors, angled, rotatable, front mounting</b>						
<b>New</b> 	Flange dimensions 26 mm x 26 mm Mounting holes 4 x Ø 3.2 mm		1628498	1628499	1628496	1628497
		Flange dimensions 28 mm x 28 mm Mounting holes 4 x Ø 3.2 mm		1628494	1628495	1628492
<b>Crimp contacts, turned, Ø 1 mm</b>						
	Crimp range [mm <sup>2</sup> ]	0.08 ... 0.22	1596770	1596772	1596770	1596772
		0.14 ... 0.56	1597862	1599600	1597862	1599600
		0.5 ... 1.0	1602996	1602998	1602996	1602998
<b>Crimp contacts, rolled, Ø 1 mm</b>						
	Crimp range [mm <sup>2</sup> ]					
	Single contact	0.22 ... 0.56	1603321	1603327	1603321	1603327
	Roll of 500 pcs.	0.22 ... 0.56	1603324	1603330	1603324	1603330
	Roll of 10,000 pcs.	0.22 ... 0.56	1603325	1603332	1603325	1603332
<b>Crimping tools</b>						
	Crimping tools as accessories for contacts can be found at <a href="http://phoenixcontact.com">phoenixcontact.com</a>					

The cable clamping ranges specified may vary depending on the cable material and cable design. Selection and testing is the responsibility of the user. Please order crimp contacts separately. Additional housing designs and pin assignments for the M17 and M23 PRO series for signals will be available from the 4th quarter of 2019.

Power – M23 PRO series			6 (5+PE)-pos.	8 (4+3+PE)-pos.			
<b>Crimp connection</b>	Rated voltage	[V AC/DC]	630	250 / 630			
	Nominal current	[A]	30	9 / 30			
	Number of contacts/diameter	[mm]	6 x 2	4 x 1 / 4 x 2			
	Litz wire cross sections	[mm <sup>2</sup> ]	0.25 ... 4.0	0.06 ... 1.0 / 0.25 ... 4.0			
 Web code: #2067	Pin assignment		<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>	
							
<b>Cable connectors, ONECLICK fast locking system</b>							
<b>New</b> 	Cable clamping range <b>Short design,</b> cable Ø 5.5 mm ... 14.5 mm  ONECLICK Technology  <small>Designed by PHOENIX CONTACT</small>	[mm]	<b>5.5 ... 15</b>	1628871	1628815	1628867	1628811
			<b>5.5 ... 8</b>	1628874	1628818	1628869	1628813
			<b>7.5 ... 12</b>	1628873	1628817	1628870	1628814
			<b>9.5 ... 14.5</b>	1628872	1628816	1628868	1628812
	Cable clamping range <b>Long design,</b> cable Ø 5.5 mm ... 17 mm  ONECLICK Technology  <small>Designed by PHOENIX CONTACT</small>	[mm]	<b>7.5 ... 17</b>	1628852	1628796	1628847	1628791
			<b>5.5 ... 8</b>	1628856	1628800	1628850	1628795
			<b>7.5 ... 12</b>	1628855	1628799	1628851	1628794
			<b>9.5 ... 14.5</b>	1628854	1628798	1628849	1628793
			<b>14 ... 17</b>	1628853	1628797	1628848	1628792
<b>Cable connectors, standard locking</b>							
<b>New</b> 	Cable clamping range <b>Short design,</b> cable Ø 5.5 mm ... 14.5 mm	[mm]	<b>5.5 ... 15</b>	1628879	1628823	1628875	1628819
			<b>5.5 ... 8</b>	1628882	1628826	1628878	1628822
			<b>7.5 ... 12</b>	1628881	1628825	1628877	1628821
			<b>9.5 ... 14.5</b>	1628880	1628824	1628876	1628820
	Cable clamping range <b>Long design,</b> cable Ø 5.5 mm ... 17 mm	[mm]	<b>7.5 ... 17</b>	1628862	1628806	1628857	1628801
			<b>5.5 ... 8</b>	1628866	1628810	1628861	1628805
			<b>7.5 ... 12</b>	1628865	1628809	1628860	1628804
			<b>9.5 ... 14.5</b>	1628864	1628808	1628859	1628803
			<b>14 ... 17</b>	1628863	1628807	1628858	1628802
<b>Device connectors, angled, rotatable, front mounting</b>							
<b>New</b> 	Flange dimensions 26 mm x 26 mm Mounting holes 4 x Ø 3.2 mm			1628487	1628491	1628486	1628490
	Flange dimensions 28 mm x 28 mm Mounting holes 4 x Ø 3.2 mm			1628485	1628489	1628484	1628488

The cable clamping ranges specified may vary depending on the cable material and cable design. Selection and testing is the responsibility of the user. Please order crimp contacts separately, see table on the right. Additional housing designs and pin assignments for the M17, M23, and M40 PRO series for power will be available from the 4th quarter of 2019.

Power – M23 PRO series		6 (5+PE)-pos.		8 (4+3+PE)-pos.	
 Web code: #2067	Crimp range [mm <sup>2</sup> ]	Pin	Socket	Pin	Socket
<b>Crimp contacts, turned, Ø 1 mm</b>					
	0.06...0.25	–	–	1618255	1618239
	0.34...0.5	–	–	1618256	1618251
	0.25...1.0	–	–	1618458	1618464
<b>Crimp contacts, turned, Ø 2 mm</b>					
	0.25...1.0	1050147	1621576	1050147	1621576
	1.5...2.5	1050205	1621577	1050205	1621577
	2.5...4.0	1050210	1621578	1050210	1621578
<b>Crimping tools</b>					
	Crimping tools as accessories for contacts can be found at <a href="http://phoenixcontact.com">phoenixcontact.com</a>				

### M17 and M40 PRO

Circular connectors for the M17 PRO series for signals and power and the M40 PRO series for power transmission up to 70 A/630 V are in preparation and will be available from the 4th quarter of 2019.



# Signal connectors M17 to M23

The M17 and M23 circular connectors cover numerous industrial signal applications. They also satisfy requirements relating to tightness of seal, vibration resistance, and EMC protection. The 6- to 19-pos. circular connectors are supplemented by a complete range of plastic-molded designs.

## Signal connectors

- 6- to 19-pos.
- Sizes M17 and M23
- All housings can be fitted with pin or socket contacts
- Connectors with external thread suitable for standard and SPEEDCON locking
- EMC protection
- Degree of protection: IP65, IP67
- Plastic-molded designs

# SIGNAL

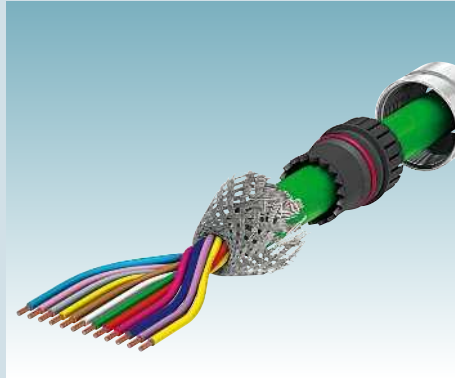


## Your advantages at a glance



### Pre-assembled cables

- Angled design with adjustable cable outlet direction
- Customer-specific assemblies and cable lengths available



### Reliable transmission

- All connectors with 360° shield connection



### Fast locking

- Faster connection time with optional SPEEDCON fast locking system
- Secure and vibration-resistant



### Various connection methods

- Crimp connection, solder connection
- Device connectors with additional solder-in connection



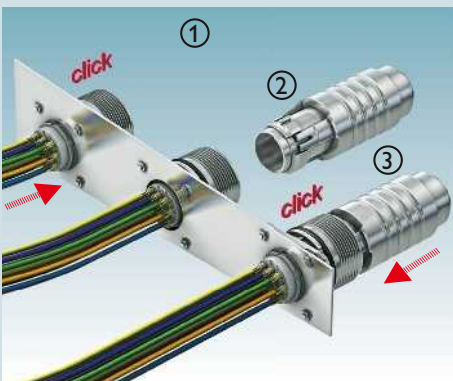
### Visual color coding

- Connection errors are prevented, thanks to customer-specific marking of the connectors with color rings



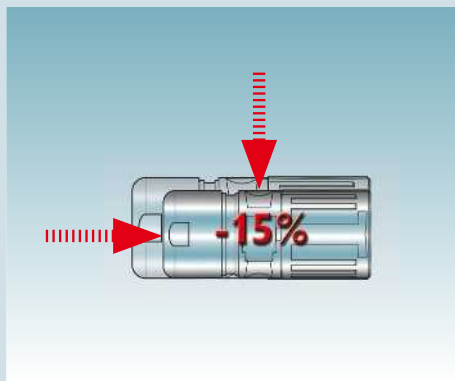
### High contact density

- 6- to 19-pos. for a variety of signal and feedback applications



### Easy mounting/removal

1. Insert M23 contact carrier from connection side and snap into place
2. Attach unlocking tool on the plug side
3. Release contact carrier



### Compact design

- M17 COMPACT is 15% smaller than the standard M17
- Ideal for compact devices


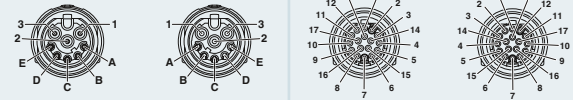







### Flexible assembly

- All housings can be fitted with pin or socket contacts


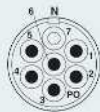

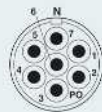
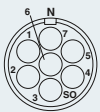
Signal – M17		8-pos.	17-pos.			
<b>Crimp connection</b>	Rated voltage [V AC/DC]	60	60			
	Nominal current [A]	8	3.6			
	Number of contacts/diameter [mm]	8 x 1.0	17 x 0.6			
	Litz wire cross sections [mm <sup>2</sup> ]	0.06 ... 1.0	0.06 ... 0.5			
 Web code: #0256	Pin assignment	 	 			
<b>Cable connectors, SPEEDCON fast locking system, M17 COMPACT series</b>						
	Cable clamping range [mm] 	3.5 ... 5.5	1618641	1613370	1618682	1613288
		5 ... 9	1618648	1613371	1618683	1613324
		9 ... 11	1618649	1613372	1618684	1613325
		—				
<b>Coupler connectors, M17 COMPACT series</b>						
	Cable clamping range [mm] 	3.5 ... 5.5	1617799	1618724	1613497	1618756
		5 ... 9	1617813	1618725	1613896	1618757
		9 ... 11	1617830	1618726	1614532	1618758
		—				
<b>Panel feed-through, front/rear mounting, flange dimensions 25.7 mm x 25.7 mm, M17 COMPACT series</b>						
	Cable clamping range [mm] Mounting holes 4 x Ø 3.2 mm 	3.5 ... 5.5	1617925	1618801	1617863	1618834
		5 ... 9	1617929	1618802	1617872	1618835
		9 ... 11	1617932	1618805	1617873	1618836
		—				
<b>Cable connectors, SPEEDCON fast locking system</b>						
	Cable clamping range [mm] 	5 ... 8	1618999	1619007	1607625	1607642
		8 ... 10	1619000	1619008	1607627	1607644
		10 ... 12.5	1619001	1619009	1624529	1624532
		—				
<b>Cable connectors, standard locking</b>						
	Cable clamping range [mm]	5 ... 8	1618995	1619003	1607624	1607641
		8 ... 10	1618996	1619004	1607626	1607643
		10 ... 12.5	1618997	1619005	1624528	1624531
		—				
<b>Coupler connectors</b>						
	Cable clamping range [mm]	5 ... 8	1619011	1619015	1607630	1607647
		8 ... 10	1619012	1619016	1607631	1607649
		10 ... 12.5	1619013	1619017	1624530	1624533
		—				

The cable clamping ranges specified may vary depending on the cable material and cable design. Selection and testing is the responsibility of the user. For color rings for individual marking of the connectors, see page 43. Please order crimp contacts separately, see page 46 onwards.


Signal – M17		8-pos.	17-pos.		
<b>Crimp connection</b>	Rated voltage [V AC/DC]	60	60		
	Nominal current [A]	8	3.6		
	Number of contacts/diameter [mm]	8 x 1.0	17 x 0.6		
	Litz wire cross sections [mm <sup>2</sup> ]	0.06 ... 1.0	0.06 ... 0.5		
 Web code: #0258	Pin assignment	Pin	Socket	Pin	Socket
					
<b>Device connectors, front mounting, flange dimensions 21.6 mm x 21.6 mm</b>					
	<b>Snap-in contact insert</b> Mounting holes 4 x Ø 2.7 mm	1613286	1619039	1607636	1607654
		—			
	<b>Contact insert for support on the device</b> Mounting holes 4 x Ø 2.7 mm	1619037	1619038	1607634	1607653
		—			
<b>Device connectors, front mounting, flange dimensions 25.75 mm x 25.75 mm</b>					
	<b>Snap-in contact insert</b> Mounting holes 4 x Ø 3.2 mm	1619219	1619220	1619225	1619226
		—			
	<b>Contact insert for support on the device</b> Mounting holes 4 x Ø 3.2 mm	1619196	1619197	1619202	1619206
		—			
<b>Device connectors, angled, rotatable, front mounting, flange dimensions 25.75 mm x 25.75 mm</b>					
	Mounting holes 4 x Ø 2.7 mm	1620439	1620440	1620441	1620442
		—			
	Mounting holes 4 x Ø 3.2 mm	1620456	1620455	1620458	1620457
		—			
<b>Device connectors, front mounting, central fastening</b>					
	<b>Fastening thread M18 x 0.75</b>	1618584	1619036	1613540	1613542
	Accessories: locknut M18 x 0.75	1613831			
		—			
		—			
<b>Device connectors, rear mounting, central fastening</b>					
	<b>Fastening thread M20 x 1.5</b>	1619034	1619035	1613541	1613543
	Accessories: locknut M20 x 1.5	1600417			
		—			
		—			

For color rings for individual marking of the connectors, see page 43.  
Please order crimp contacts separately, see page 46 onwards.




Signal – M23 ADVANCE			6-pos.		7-pos.	
Solder connection/ crimp connection	Rated voltage	[V AC/DC]	300		300	
	Nominal current	[A]	20		20	
	Number of contacts/diameter	[mm]	6 x 2.0		7 x 2.0	
	Litz wire cross sections	[mm <sup>2</sup> ]	1.0 ... 2.5		1.0 ... 2.5	
 Web code: #0259	Pin assignment					


### Cable connectors, SPEEDCON fast locking system

	Cable clamping range Solder connection	[mm]	3 ... 14.5	1619604	1619605	1619600	1619601
		4 ... 6	1619578	1619579	1619574	1619575	
		6 ... 10	1619533	1619534	1619529	1619530	
		10 ... 14.5	1619507	1619508	1619503	1619504	
	Cable clamping range Crimp connection	[mm]	3 ... 14.5	1619602	1619603	1619598	1619599
		4 ... 6	1619576	1619577	1619572	1619573	
		6 ... 10	1619531	1619532	1619527	1619528	
		10 ... 14.5	1619505	1619506	1619501	1619502	

### Cable connectors, standard locking

	Cable clamping range Solder connection	[mm]	3 ... 14.5	1619775	1619776	1619771	1619772
		4 ... 6	1619749	1619750	1619745	1619746	
		6 ... 10	1619723	1619724	1619719	1619720	
		10 ... 14.5	1619658	1619659	1619654	1619655	
	Cable clamping range Crimp connection	[mm]	3 ... 14.5	1619773	1619774	1619769	1619770
		4 ... 6	1619747	1619748	1619743	1619744	
		6 ... 10	1619721	1619722	1619717	1619718	
		10 ... 14.5	1619656	1619657	1619652	1619653	

### Coupler connectors


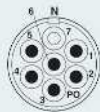
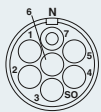

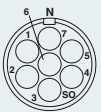




	Cable clamping range Solder connection	[mm]	3 ... 14.5	1620171	1620172	1620167	1620168
		4 ... 6	1620144	1620145	1620140	1620141	
		6 ... 10	1620118	1620119	1620114	1620115	
		10 ... 14.5	1620045	1620046	1620041	1620042	
	Cable clamping range Crimp connection	[mm]	3 ... 14.5	1620169	1620170	1620165	1620166
		4 ... 6	1620142	1620143	1620138	1620139	
		6 ... 10	1620116	1620117	1620080	1620081	
		10 ... 14.5	1620043	1620044	1620037	1620038	

<sup>1)</sup> 16+2+PE for 19-pos. crimp connection, 16+3 (without PE) available on request.

The cable clamping ranges specified may vary depending on the cable material and cable design. Selection and testing is the responsibility of the user. For color rings for individual marking of the connectors, see page 43. For crimp connection: please order crimp contacts separately, see page 46 onwards.



9 (8+1)-pos.		12-pos.		16-pos.		17-pos.		19 (16+3)-pos. <sup>1)</sup>	
300		150		150		150		150	
8/20		8		8		8		8/10	
8 x 1.0/1 x 2.0		12 x 1.0		16 x 1.0		17 x 1.0		16 x 1.0/3 x 1.5	
0.14 ... 0.56/1.0 ... 2.5		0.14 ... 0.56		0.14 ... 0.56		0.14 ... 0.56		0.08 ... 1.0	
<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>
1619596	1619597	1619592	1619593	1619588	1619589	1619584	1619585	1619580	1619581
1619570	1619571	1619548	1619567	1619544	1619545	1619540	1619541	1619536	1619537
1619525	1619526	1619521	1619522	1619517	1619518	1619513	1619514	1619509	1619510
1619499	1619500	1619495	1619496	1619486	1619487	1619482	1619483	1619478	1619479
1619594	1619595	1619590	1619591	1619586	1619587	1619582	1619583	1623837	1623838
1619568	1619569	1619546	1619547	1619542	1619543	1619538	1619539	1623835	1623836
1619523	1619524	1619519	1619520	1619515	1619516	1619511	1619512	1623833	1623834
1619497	1619498	1619488	1619489	1619484	1619485	1619480	1619481	1623831	1623832
1619767	1619768	1619763	1619764	1619759	1619760	1619755	1619756	1619751	1619752
1619741	1619742	1619737	1619738	1619733	1619734	1619729	1619730	1619725	1619726
1619715	1619716	1619709	1619710	1619705	1619706	1619701	1619702	1619660	1619661
1619650	1619651	1619646	1619647	1619642	1619643	1619638	1619639	1619634	1619635
1619765	1619766	1619761	1619762	1619757	1619758	1619753	1619754	1623845	1623846
1619739	1619740	1619735	1619736	1619731	1619732	1619727	1619728	1623843	1623844
1619711	1619714	1619707	1619708	1619703	1619704	1619699	1619700	1623841	1623842
1619648	1619649	1619644	1619645	1619640	1619641	1619636	1619637	1623839	1623840
1620163	1620164	1620159	1620160	1620155	1620156	1620150	1620151	1620146	1620147
1620136	1620137	1620132	1620133	1620128	1620129	1620124	1620125	1620120	1620121
1620078	1620079	1620074	1620075	1620070	1620071	1620051	1620052	1620047	1620048
1620035	1620036	1620031	1620032	1620027	1620028	1620023	1620024	1620019	1620020
1620161	1620162	1620157	1620158	1620152	1620154	1620148	1620149	1624010	1624006
1620134	1620135	1620130	1620131	1620126	1620127	1620122	1620123	1624013	1624009
1620076	1620077	1620072	1620073	1620053	1620069	1620049	1620050	1624012	1624008
1620033	1620034	1620029	1620030	1620025	1620026	1620021	1620022	1624011	1624007

Signal – M23 ADVANCE		6-pos.	7-pos.				
Solder connection/ crimp connection	Rated voltage	[V AC/DC]	300	300			
	Nominal current	[A]	20	20			
	Number of contacts/diameter	[mm]	6 x 2.0	7 x 2.0			
	Litz wire cross sections	[mm <sup>2</sup> ]	1.0 ... 2.5	1.0 ... 2.5			
 Web code: #0259	Pin assignment	 	 				
<b>Cable connectors, angled, SPEEDCON fast locking system</b>							
	Cable clamping range Solder connection	[mm]	3 ... 14.5	1619449	1619450	1619445	1619446
		4 ... 6	1619423	1619424	1619419	1619420	
		6 ... 10	1619397	1619398	1619393	1619394	
		10 ... 14.5	1619371	1619372	1619365	1619366	
	Cable clamping range Crimp connection	[mm]	3 ... 14.5	1619447	1619448	1619443	1619444
		4 ... 6	1619421	1619422	1619417	1619418	
		6 ... 10	1619395	1619396	1619391	1619392	
		10 ... 14.5	1619367	1619368	1619363	1619364	
<b>Cable connectors, angled, standard locking</b>							
	Cable clamping range Solder connection	[mm]	3 ... 14.5	1619342	1619343	1619338	1619339
		4 ... 6	1620290	1620291	1620286	1620287	
		6 ... 10	1620261	1620262	1620257	1620258	
		10 ... 14.5	1620211	1620212	1620207	1620208	
	Cable clamping range Crimp connection	[mm]	3 ... 14.5	1619340	1619341	1619336	1619337
		4 ... 6	1620288	1620289	1620284	1620285	
		6 ... 10	1620259	1620260	1620255	1620256	
		10 ... 14.5	1620209	1620210	1620191	1620192	

<sup>1)</sup> 16+2+PE for 19-pos. crimp connection, 16+3 (without PE) available on request.

The cable clamping ranges specified may vary depending on the cable material and cable design. Selection and testing is the responsibility of the user. For color rings for individual marking of the connectors, see page 43. For crimp connection: please order crimp contacts separately, see page 46 onwards.

9 (8+1)-pos.		12-pos.		16-pos.		17-pos.		19 (16+3)-pos. <sup>1)</sup>	
300		150		150		150		150	
8/20		8		8		8		8/10	
8 x 1.0/1 x 2.0		12 x 1.0		16 x 1.0		17 x 1.0		16 x 1.0/3 x 1.5	
0.14 ... 0.56/1.0 ... 2.5		0.14 ... 0.56		0.14 ... 0.56		0.14 ... 0.56		0.08 ... 1.0	
<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>
1619441	1619442	1619437	1619438	1619433	1619434	1619429	1619430	1619425	1619426
1619415	1619416	1619411	1619412	1619407	1619408	1619403	1619404	1619399	1619400
1619389	1619390	1619385	1619386	1619381	1619382	1619377	1619378	1619373	1619374
1619361	1619362	1619357	1619358	1619352	1619353	1619348	1619349	1619344	1619345
1619439	1619440	1619435	1619436	1619431	1619432	1619427	1619428	1624084	1624080
1619413	1619414	1619409	1619410	1619405	1619406	1619401	1619402	1624085	1624081
1619387	1619388	1619383	1619384	1619379	1619380	1619375	1619376	1624086	1624082
1619359	1619360	1619354	1619356	1619350	1619351	1619346	1619347	1624087	1624083
1619334	1619335	1619330	1619331	1620300	1620301	1620296	1620297	1620292	1620293
1620282	1620283	1620278	1620279	1620274	1620275	1620267	1620268	1620263	1620264
1620253	1620254	1620249	1620250	1620245	1620246	1620217	1620218	1620213	1620214
1620189	1620190	1620185	1620186	1620181	1620182	1620177	1620178	1620173	1620174
1619332	1619333	1620302	1620303	1620298	1620299	1620294	1620295	1624075	1624071
1620280	1620281	1620276	1620277	1620271	1620273	1620265	1620266	1624076	1624072
1620251	1620252	1620247	1620248	1620219	1620244	1620215	1620216	1624077	1624073
1620187	1620188	1620183	1620184	1620179	1620180	1620175	1620176	1624078	1624074












Signal – M23 ADVANCE		6-pos.	7-pos.			
<b>Solder connection/ crimp connection/ solder-in connection</b>	Rated voltage [V AC/DC]	300	300			
	Nominal current [A]	20	20			
	Number of contacts/diameter [mm]	6 x 2.0	7 x 2.0			
	Litz wire cross sections [mm <sup>2</sup> ]	1.0 ... 2.5	1.0 ... 2.5			
 Web code: #0260	Pin assignment	 	 			
<b>Device connectors, front mounting, central fastening Pg13.5</b>						
	<b>Solder connection</b> Axial seal	1619902	1619903	1619898	1619899	
	<b>Crimp connection</b> Axial seal	1619900	1619901	1619896	1619897	
<b>Device connectors, front mounting, central fastening M20 x 1.5</b>						
	<b>Solder connection</b> Axial seal Accessories: locknut M20 x 1.5	1619876	1619877	1619872	1619873	
	<b>Crimp connection</b> Axial seal Accessories: locknut M20 x 1.5	1619874	1619875	1619870	1619871	
<b>Device connectors, front mounting, positionable, central fastening M20 x 1.5</b>						
	<b>Solder connection</b> Axial seal	1624044	1624045	1624046	1624047	
	<b>Crimp connection</b> Axial seal	1624022	1624030	1624023	1624031	
<b>Device connectors, front mounting, flange dimensions 25 mm x 25 mm</b>						
	<b>Solder connection</b> Mounting holes 4 x Ø 3.2 mm, flat gasket	1619992	1619993	1619988	1619989	
	<b>Crimp connection</b> Mounting holes 4 x Ø 3.2 mm, flat gasket	1619990	1619991	1619986	1619987	
	<b>Solder-in connection</b> free pin length [mm]: Mounting holes 4 x Ø 3.2 mm Flat gasket	3.5	1619954	1619955	1619952	1619953
		10.0	1619930	1619931	1619928	1619929
	17.5	1619915	1619916	1619913	1619914	
	<b>Device connectors, angled, rotatable, front mounting, flange dimensions 26 mm x 26 mm</b>					
	<b>Solder connection</b> Mounting holes 4 x Ø 3.2 mm	–	–	–	–	
	<b>Crimp connection</b> Mounting holes 4 x Ø 3.2 mm	–	–	–	–	
<b>Device connectors, rear mounting, central fixing nut M25 x 1.5</b>						
	<b>Solder connection</b> Axial seal	1619850	1619851	1619846	1619847	
	<b>Crimp connection</b> Axial seal	1619848	1619849	1619844	1619845	

<sup>1)</sup> 16+2+PE for 19-pos. crimp connection, 16+3 (without PE) available on request.








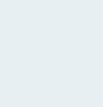
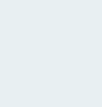


For color rings for individual marking of the connectors, see page 43. For crimp connection: please order crimp contacts separately, see page 46 onwards.

9 (8+1)-pos.		12-pos.		16-pos.		17-pos.		19 (16+3)-pos. <sup>1)</sup>	
300		150		150		150		150	
8/20		8		8		8		8/10	
8 x 1.0/1 x 2.0		12 x 1.0		16 x 1.0		17 x 1.0		16 x 1.0/3 x 1.5	
0.14 ... 0.56/1.0 ... 2.5		0.14 ... 0.56		0.14 ... 0.56		0.14 ... 0.56		0.08 ... 1.0	
<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>
1619894	1619895	1619890	1619891	1619886	1619887	1619882	1619883	1619878	1619879
-									
1619892	1619893	1619888	1619889	1619884	1619885	1619880	1619881	1624018	1624019
-									
1619868	1619869	1619864	1619865	1619860	1619861	1619856	1619857	1619852	1619853
1600417									
1619866	1619867	1619862	1619863	1619858	1619859	1619854	1619855	1624016	1624017
1600417									
1624048	1624049	1624050	1624051	1624053	1624054	1624055	1624056	1624057	1624058
-									
1624024	1624032	1624026	1624033	1624027	1624034	1624029	1624035	1623630	1623629
-									
1619972	1619973	1619968	1619969	1619964	1619965	1619960	1619961	1619956	1619957
-									
1619970	1619971	1619966	1619967	1619962	1619963	1619958	1619959	1624014	1624015
-									
1619950	1619951	1619948	1619949	1619934	1619935	1619932	1619933	-	-
1619926	1619927	1619924	1619925	1619919	1619923	1619917	1619918	-	-
1619911	1619912	1619909	1619910	1619907	1619908	1619904	1619905	-	-
1621746	-	1621741	-	-	-	1621745	-	-	-
-									
1621735	-	1621738	-	-	-	1621744	-	-	-
-									
1619842	1619843	1619789	1619790	1619785	1619786	1619781	1619782	1619777	1619778
-									
1619791	1619841	1619787	1619788	1619783	1619784	1619779	1619780	1624020	1624021
-									



Signal – M23 Feedback		12-pos.		17-pos.		
For feedback applications, crimp connection	Rated voltage	[V AC/DC]	150		100	
	Nominal current	[A]	8		8	
	Number of contacts/diameter	[mm]	12 x 1.0		17 x 1.0	
	Litz wire cross sections	[mm <sup>2</sup> ]	0.06 ... 1.0		0.06 ... 1.0	
 Web code: #0261	Pin assignment (standard direction of rotation)					
	Pin assignment (reverse direction of rotation)					
<b>Cable connectors, SPEEDCON fast locking system</b>						
	Cable clamping range [mm] <b>Standard direction of rotation</b>	3 ... 14.5	1619471	1619472	1619469	1619470
		4 ... 6	1619465	1619466	1619463	1619464
		6 ... 10	1619459	1619460	1619457	1619458
		10 ... 14.5	1619453	1619454	1619451	1619452
	 Cable clamping range [mm] <b>Reverse direction of rotation</b>	3 ... 14.5	1619473	1619474	–	–
		4 ... 6	1619467	1619468	–	–
		6 ... 10	1619461	1619462	–	–
		10 ... 14.5	1619455	1619456	–	–
<b>Cable connectors, standard locking</b>						
	Cable clamping range [mm] <b>Standard direction of rotation</b>	3 ... 14.5	1619630	1619631	1619628	1619629
		4 ... 6	1619624	1619625	1619619	1619623
		6 ... 10	1619615	1619616	1619613	1619614
		10 ... 14.5	1619609	1619610	1619607	1619608
	Cable clamping range [mm] <b>Reverse direction of rotation</b>	3 ... 14.5	1619632	1619633	–	–
		4 ... 6	1619626	1619627	–	–
		6 ... 10	1619617	1619618	–	–
		10 ... 14.5	1619611	1619612	–	–
<b>Coupler connectors</b>						
	Cable clamping range [mm] <b>Standard direction of rotation</b>	3 ... 14.5	1620015	1620016	1620013	1620014
		4 ... 6	1620008	1620009	1620006	1620007
		6 ... 10	1620002	1620003	1620000	1620001
		10 ... 14.5	1619996	1619997	1619994	1619995
	Cable clamping range [mm] <b>Reverse direction of rotation</b>	3 ... 14.5	1620017	1620018	–	–
		4 ... 6	1620010	1620011	–	–
		6 ... 10	1620004	1620005	–	–
		10 ... 14.5	1619998	1619999	–	–

The cable clamping ranges specified may vary depending on the cable material and cable design. Selection and testing is the responsibility of the user. For color rings for individual marking of the connectors, see page 43. Please order crimp contacts separately, see page 46 onwards.

Signal – M23 Feedback		12-pos.	17-pos.			
For feedback applications, crimp connection	Rated voltage [V AC/DC]	150	100			
	Nominal current [A]	8	8			
	Number of contacts/diameter [mm]	12 x 1.0	17 x 1.0			
	Litz wire cross sections [mm <sup>2</sup> ]	0.06 ... 1.0	0.06 ... 1.0			
 Web code: #0262	Pin assignment (standard direction of rotation)	 	 			
	Pin assignment (reverse direction of rotation)	 	 			
<b>Device connectors, front mounting, flange dimensions 25.7 mm x 25.7 mm</b>						
	<b>Contact insert for support on the device</b> Mounting holes 4 x Ø 3.2 mm	Standard direction of rotation	1607236	1607283	1607860	1607892
		Reverse direction of rotation	1607260	1607307	–	–
	<b>Snap-in contact insert</b> Mounting holes 4 x Ø 3.2 mm	Standard direction of rotation	1607804	1607830	1607863	1607893
		Reverse direction of rotation	1607817	1607844	–	–
<b>Device connectors, angled, rotatable, front mounting</b>						
	<b>Flange dimensions 26 mm x 26 mm</b> Mounting holes 4 x Ø 3.2 mm	Standard direction of rotation	1607233	1607280	1607328	1607345
		Reverse direction of rotation	1607257	1607304	–	–
	<b>Flange dimensions 28 mm x 28 mm</b> Mounting holes 4 x Ø 3.2 mm	Standard direction of rotation	1607802	1607827	1607852	1607887
		Reverse direction of rotation	1607814	1607842	–	–

For color rings for individual marking of the connectors, see page 43.  
Please order crimp contacts separately, see page 46 onwards.

# Hybrid connectors M23 and M40

The M23 and M40 hybrid connectors from Phoenix Contact allow you to reliably transmit signals, data, and power in a single connector.

The hybrid connectors are highly flexible: the CAT5 data interface can be replaced by four signal contacts. As a result, a total of eight contacts are available for transmitting signals.

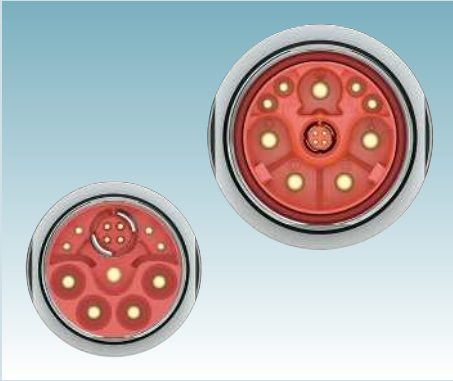
## Hybrid connectors

- Signal, data, and power transmission, all via one connector
- Sizes M23 and M40
- Connectors with external thread suitable for standard and SPEEDCON locking
- CAT5 interface, alternative: 4 additional signal contacts
- Connection cross sections up to 16 mm<sup>2</sup>
- Up to 70 A and 850 V DC/630 V AC
- Plastic-molded designs

# HYBRID

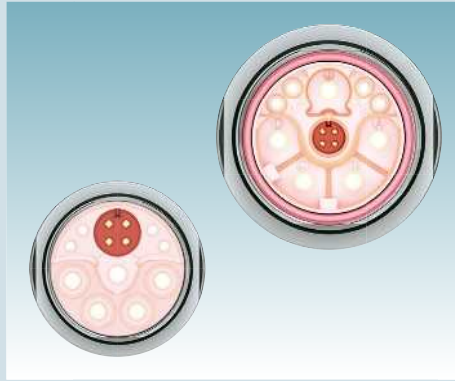


## Your advantages at a glance



### Reliable data transmission

- Pin assignments 4 + 4 + 4 + PE: reliable transmission of data (CAT5), signals, and power



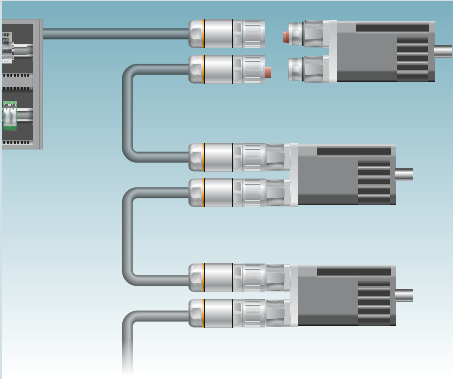
### Additional flexibility

- Pin assignments 8 + 4 + PE: four additional signal contacts by replacing the CAT5 interface



### Reliable connection

- M40 with mechanical coding for all pin assignments reliably prevents connection errors



### Reduced cabling effort

- Daisy chain application with hybrid connectors for distributed drive concepts



### Fast locking

- Faster connection time with optional SPEEDCON fast locking system
- Secure and vibration-resistant



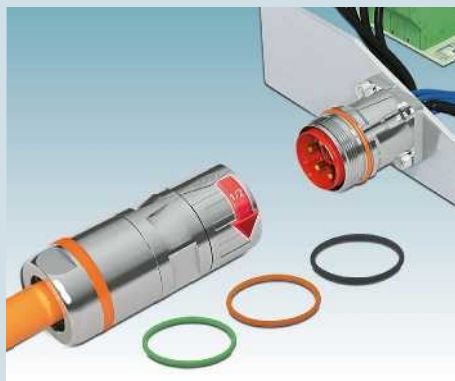
### Variable assembly

- All housings can be fitted with pin or socket contacts



### Pre-assembled M23 cables

- Angled design with adjustable cable outlet direction
- Customer-specific assemblies and cable lengths available



### Visual color coding


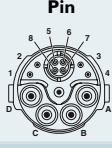
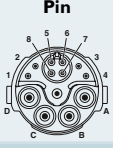
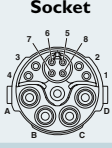




- Connection errors are prevented, thanks to customer-specific marking of the connectors with color rings



### Versatile device connection technology


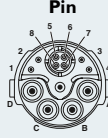

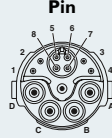
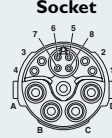



- Straight and angled rotatable device connectors with infinitely variable adjustment of the output direction up to 310°






Hybrid – M23		4+4+4+PE-pos.	8+4+PE-pos.			
For signals, data, and power, crimp connection	Signal type	CAT5 (100 Mbps)		Signal		
	Rated voltage [V AC/DC]	50/50/630/850		50/630/850		
	Nominal current [A]	3.6/8/30		8/30		
	Number of contacts/diameter [mm]	4 x 0.8/4 x 1/5 x 2		8 x 1/5 x 2		
	Litz wire cross sections [mm <sup>2</sup> ]	0.08 ... 0.5/0.06 ... 1.0/0.25 ... 4.0		0.06 ... 1.0/0.25 ... 4.0		
 Web code: #0263	Pin assignment	 	 			
<b>Cable connectors, SPEEDCON fast locking system</b>						
	Cable clamping range [mm]	7.5 ... 18	1621529	1621517	1621534	1621524
		7.5 ... 9	1621530	1621520	1621535	1621525
		9 ... 12	1621531	1621521	1621536	1621526
		12 ... 15	1621532	1621522	1621537	1621527
		15 ... 18	1621533	1621523	1621538	1621528
<b>Cable connectors, standard locking</b>						
	Cable clamping range [mm]	7.5 ... 18	1622007	1621997	1622012	1622002
		7.5 ... 9	1622008	1621998	1622013	1622003
		9 ... 12	1622009	1621999	1622014	1622004
		12 ... 15	1622010	1622000	1622015	1622005
		15 ... 18	1622011	1622001	1622016	1622006
<b>Coupler connectors</b>						
	Cable clamping range [mm]	7.5 ... 18	1621549	1621539	1621554	1621544
		7.5 ... 9	1621550	1621540	1621555	1621545
		9 ... 12	1621551	1621541	1621556	1621546
		12 ... 15	1621552	1621542	1621557	1621547
		15 ... 18	1621553	1621543	1621558	1621548
<b>Hybrid cables (accessories)</b>						
	Hybrid cable, shielded, cable design: 5x2.5 + 2x(2x0.5) + (4xAWG22)C/C, outside cable Ø: 15.5 mm ±0.5 mm, suitable for drag chain applications, outer sheath color: orange RAL 2003	Cable length [m]:	1	1623127	–	
		20	1622080	–		
		100	1623039	–		

The cable clamping ranges specified may vary depending on the cable material and cable design. Selection and testing is the responsibility of the user. For color rings for individual marking of the connectors, see page 43. Please order crimp contacts separately, see page 46 onwards.














Hybrid – M23		4+4+4+PE-pos.	8+4+PE-pos.		
For signals, data, and power, crimp connection	Signal type	CAT5 (100 Mbps)	Signal		
	Rated voltage [V AC/DC]	50/50/630/850	50/630/850		
	Nominal current [A]	3.6/8/30	8/30		
	Number of contacts/diameter [mm]	4 x 0.8/4 x 1/5 x 2	8 x 1/5 x 2		
	Litz wire cross sections [mm <sup>2</sup> ]	0.08 ... 0.5/0.06 ... 1.0/0.25 ... 4.0	0.06 ... 1.0/0.25 ... 4.0		
 Web code: #0264	Pin assignment	 	 		
<b>Device connectors, front mounting</b>					
	Flange dimensions 26 mm x 26 mm Mounting holes 4 x Ø 3.2 mm	1621569	1621567	1621570	1621568
		—			
<b>Device connectors, angled, rotatable, front mounting</b>					
	Flange dimensions 26 mm x 26 mm Mounting holes 4 x Ø 3.2 mm	1621565	1621563	1621566	1621564
		—			
	Flange dimensions 28 mm x 28 mm Mounting holes 4 x Ø 3.2 mm	1621561	1621559	1621562	1621560
		—			
<b>Device connectors, rear mounting</b>					
	Central fastening M26 x 1	1627205	1624344	1627206	1627204
		—			

For color rings for individual marking of the connectors, see page 43.  
Please order crimp contacts separately, see page 46 onwards.

Hybrid – M40		Coding 1				
		4+4+4+PE-pos.		4+4+4+PE-pos.		
For signals, data, and power, crimp connection	Signal type	CAT5 (100 Mbps)		Signal		
	Rated voltage [V AC/DC]	50/500/630/850		50/500/630/850		
	Nominal current [A]	3.6/8/70		8/8/70		
	Number of contacts/contact diameter [mm]	4 x 0.8/4 x 1.5 x 3.6		4 x 1/4 x 1.5 x 3.6		
	Litz wire cross sections [mm <sup>2</sup> ]	0.08 ... 0.5/0.06 ... 1.5/2.5 ... 16.0		0.06 ... 1.0/0.06 ... 1.5/2.5 ... 16.0		
 Web code: #0560	Pin assignment, coding 1	 	 			
<b>Cable connectors, SPEEDCON fast locking system</b>						
	Cable clamping range [mm]:	9 ... 14	1623332	1623324	1623335	1623329
		14 ... 20.5	1623333	1623327	1623336	1623330
		20.5 ... 26.5	1623334	1623328	1623337	1623331
						
<b>Coupler connectors</b>						
	Cable clamping range [mm]:	9 ... 14	1623356	1623339	1623359	1623344
		14 ... 20.5	1623357	1623341	1623360	1623345
		20.5 ... 26.5	1623358	1623342	1623361	1623346
<b>Device connectors, front mounting</b>						
	Flange dimensions 40 mm x 40 mm Mounting holes 4 x Ø 4.2 mm	1623374	1623371	1623375	1623372	
<b>Device connectors, angled, rotatable, front mounting</b>						
	Flange dimensions 40 mm x 40 mm Mounting holes 4 x Ø 4.4 mm	1623368	1623365	1623369	1623366	
<b>Hybrid cables (accessories)</b>						
	Cable length [m]:	1	1627298	–		
		20	1627299	–		
		Hybrid cable, shielded, cable design: (5x10 + 4x1.5 + (4xAWG22)C)C, outside cable Ø: 21.4 mm ±0.7 mm, suitable for drag chain applications, outer sheath color: orange RAL 2003				

The cable clamping ranges specified may vary depending on the cable material and cable design. Selection and testing is the responsibility of the user. For color rings for individual marking of the connectors, see page 43. Please order crimp contacts separately, see page 46 onwards.

Hybrid – M40		Coding 2				
		4+4+4+PE-pos.		4+4+4+PE-pos.		
For signals, data, and power, crimp connection	Signal type	CAT5 (100 Mbps)		Signal		
	Rated voltage [V AC/DC]	50/500/630/850		50/500/630/850		
	Nominal current [A]	3.6/8/70		8/8/70		
	Number of contacts/contact diameter [mm]	4 x 0.8/4 x 1/5 x 3.6		4 x 1/4 x 1/5 x 3.6		
	Litz wire cross sections [mm <sup>2</sup> ]	0.08...0.5/0.06...1.5/2.5...16.0		0.06...1.0/0.06...1.5/2.5...16.0		
 Web code: #0560	Pin assignment, coding 2					
<b>Cable connectors, SPEEDCON fast locking system</b>						
	Cable clamping range [mm]:	9 ... 14	1623692	1623683	1623695	1623686
		14 ... 20.5	1623693	1623684	1623696	1623687
		20.5 ... 26.5	1623694	1623685	1623697	1623688
						
<b>Coupler connectors</b>						
	Cable clamping range [mm]:	9 ... 14	1623710	1623701	1623713	1623704
		14 ... 20.5	1623711	1623702	1623714	1623705
		20.5 ... 26.5	1623712	1623703	1623715	1623706
<b>Device connectors, front mounting</b>						
	Flange dimensions 40 mm x 40 mm	1623728	1623725	1623729	1623726	
	Mounting holes 4 x Ø 4.2 mm					
<b>Device connectors, angled, rotatable, front mounting</b>						
	Flange dimensions 40 mm x 40 mm	1623722	1623719	1623723	1623720	
	Mounting holes 4 x Ø 4.4 mm					
<b>Hybrid cables (accessories)</b>						
	Cable length [m]:	1	1627298	–		
		20	1627299	–		
		Hybrid cable, shielded, cable design: (5x10 + 4x1.5 + (4xAWG22)C)C, outside cable Ø: 21.4 mm ±0.7 mm, suitable for drag chain applications, outer sheath color: orange RAL 2003				

The cable clamping ranges specified may vary depending on the cable material and cable design. Selection and testing is the responsibility of the user. For color rings for individual marking of the connectors, see page 43. Please order crimp contacts separately, see page 46 onwards.

# Power connectors M17 to M58

Circular power connectors from Phoenix Contact are the right choice for the easy and time-saving connection of electrical drives at transmission capacities up to 150 A/630 V.

Characteristic features include the lateral, radial clip-in of contacts into the contact carrier and the elegant shielding. This saves installation time and ensures fast and secure connection.

## Power connectors

- Up to 150 A/630 V
- Sizes M17, M23, M40, and M58
- Connectors with external thread suitable for standard and SPEEDCON locking
- 3+PE up to 5+3+PE
- Connection cross sections up to 50 mm<sup>2</sup>
- Degree of protection: IP67
- Plastic-molded designs

# POWER



## Your advantages at a glance



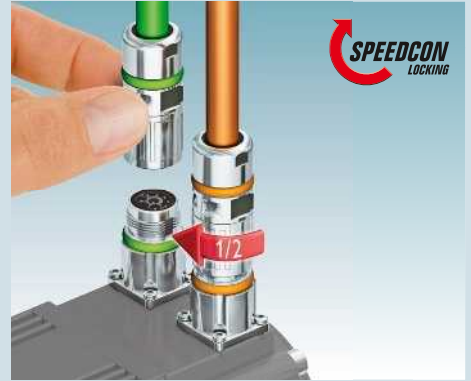
### Fast installation

- Lateral clip-in of contacts saves installation time



### Simple shielding

- Protruding braided shield is simply screwed in
- 360° shield connection



### Fast locking

- Faster connection time with optional SPEEDCON fast locking system
- Secure and vibration-resistant



### Flexible cable outlet

- Rotatable device connectors with infinitely variable adjustment of the output direction up to 310°



### Visual color coding

- Connection errors are prevented, thanks to customer-specific marking of the connectors with color rings



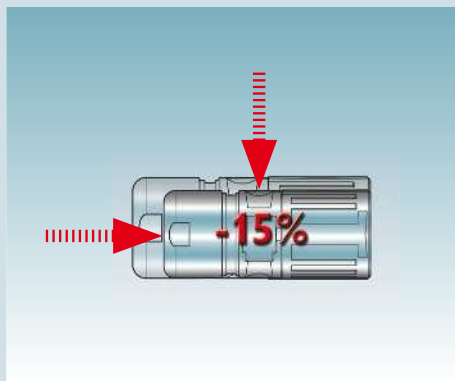
### Flexible connection

- Numerous housing designs for the device and cable side in sizes M17 to M58



### Pre-assembled cables

- Angled design with adjustable cable outlet direction
- Customer-specific assemblies and cable lengths available



### Compact design


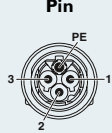













- M17 COMPACT is 15% smaller than the standard M17
- Ideal for compact drives



### Simple device integration

- Device connectors for front and rear mounting for various installation situations


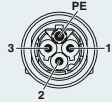
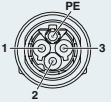







Power – M17			4 (3+PE)-pos.		
<b>Crimp connection</b>	Rated voltage	[V AC/DC]	630		
	Nominal current	[A]	25		
	Number of contacts/diameter	[mm]	4 x 2.0		
	Litz wire cross sections	[mm <sup>2</sup> ]	0.25 ... 2.5		
 Web code: #0266	Pin assignment				
<b>Cable connectors, SPEEDCON fast locking system, M17 COMPACT series</b>					
	Cable clamping range 	[mm]	3.5 ... 5.5	1618602	1618312
			5 ... 9	1618574	1618408
			9 ... 11	1618575	1618603
<b>Coupler connectors, M17 COMPACT series</b>					
	Cable clamping range 	[mm]	3.5 ... 5.5	1620614	1618695
			5 ... 9	1618406	1618694
			9 ... 11	1618690	1618693
<b>Panel feed-through, front/rear mounting, flange dimensions 25.7 mm x 25.7 mm, M17 COMPACT series</b>					
	Cable clamping range 	[mm]	3.5 ... 5.5	1618402	1618762
		Mounting holes 4 x Ø 3.2 mm	5 ... 9	1618407	1618763
			9 ... 11	1618760	1618764
<b>Cable connectors, SPEEDCON fast locking system</b>					
	Cable clamping range 	[mm]	5 ... 8	1607665	1607683
			8 ... 10	1607667	1607685
			10 ... 12.5	1624535	1624538
<b>Cable connectors, standard locking</b>					
	Cable clamping range 	[mm]	5 ... 8	1607663	1607682
			8 ... 10	1607666	1607684
			10 ... 12.5	1624534	1624537
<b>Coupler connectors</b>					
	Cable clamping range 	[mm]	5 ... 8	1607670	1607688
			8 ... 10	1607671	1607689
			10 ... 12.5	1624536	1624539

The cable clamping ranges specified may vary depending on the cable material and cable design. Selection and testing is the responsibility of the user. For color rings for individual marking of the connectors, see page 43. Please order crimp contacts separately, see page 46 onwards.


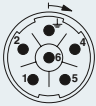
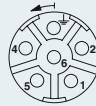
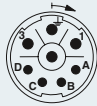
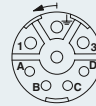





6 (5+PE)-pos.		7 (6+PE)-pos.		8 (7+PE)-pos.		9 (5+3+PE)-pos.	
630		630		630		60/630	
14		14		14		3.6/14	
6 x 1.0		7 x 1.0		8 x 1.0		5 x 0.6/4 x 1.0	
0.06...1.0		0.06...1.0		0.06...1.0		0.06...0.5/0.06...1.0	
Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
1618614	1618621	1618622	1618632	1618640	1618633	1618681	1618674
1618615	1618620	1618623	1618631	1618639	1618634	1618680	1618675
1618616	1618619	1618624	1618630	1618638	1618635	1618679	1618676
—							
1618703	1618696	1618704	1618708	1618712	1618716	1618740	1618748
1618702	1618697	1618705	1618709	1618713	1618717	1618741	1618749
1618701	1618698	1618706	1618710	1618714	1618718	1618742	1618750
—							
1618767	1618772	1618776	1618780	1618788	1618787	1618818	1618825
1618768	1618773	1618777	1618781	1618790	1618786	1618819	1618824
1618769	1618774	1618778	1618782	1618791	1618785	1618820	1618823
—							
1607700	1607718	1613559	1613578	1607736	1607756	1613601	1613620
1607702	1607720	1613561	1613580	1607738	1607759	1613603	1613622
1624541	1624544	1624547	1624550	1624553	1624556	1624637	1624639
—							
1607699	1607717	1613558	1613577	1607735	1607755	1613600	1613619
1607701	1607719	1613560	1613579	1607737	1607758	1613602	1613621
1624540	1624543	1624546	1624549	1624552	1624555	1624636	1624638
—							
1607706	1607723	1613564	1613583	1607741	1607764	1613606	1613625
1607707	1607724	1613565	1613584	1607742	1607765	1613607	1613626
1624542	1624545	1624548	1624551	1624554	1624557	1624653	1624654
—							


Power – M17		4 (3+PE)-pos.	
<b>Crimp connection</b>	Rated voltage	[V AC/DC]	630
	Nominal current	[A]	25
	Number of contacts/diameter	[mm]	4 x 2.0
	Litz wire cross sections	[mm <sup>2</sup> ]	0.25 ... 2.5
 Web code: #0267	Pin assignment	 	
<b>Device connectors, front mounting, flange dimensions 21.6 mm x 21.6 mm</b>			
	<b>Snap-in contact insert</b> Mounting holes 4 x Ø 2.7 mm	1607674	1607692
	<b>Contact insert for support on the device</b> Mounting holes 4 x Ø 2.7 mm	1607675	1607694
<b>Device connectors, front mounting, flange dimensions 25.7 mm x 25.7 mm</b>			
	<b>Snap-in contact insert</b> Mounting holes 4 x Ø 3.2 mm	1619209	1619212
	<b>Contact insert for support on the device</b> Mounting holes 4 x Ø 3.2 mm	1619186	1619189
<b>Device connectors, angled, rotatable, front mounting, flange dimensions 25.7 mm x 25.7 mm</b>			
	<b>Mounting holes 4 x Ø 2.7 mm</b>	1620427	1620428
	<b>Mounting holes 4 x Ø 3.2 mm</b>	1620444	1620443
<b>Device connectors, front mounting, central fastening</b>			
	<b>Fastening thread M18 x 0.75</b>	1613544	1613546
	Accessories: locknut M18 x 0.75		
<b>Device connectors, rear mounting, central fastening</b>			
	<b>Fastening thread M20 x 1.5</b>	1613545	1613547
	Accessories: locknut M20 x 1.5		


For color rings for individual marking of the connectors, see page 43.  
Please order crimp contacts separately, see page 46 onwards.

6 (5+PE)-pos.		7 (6+PE)-pos.		8 (7+PE)-pos.		9 (5+3+PE)-pos.	
630		630		630		60/630	
14		14		14		3.6/14	
6 x 1.0		7 x 1.0		8 x 1.0		5 x 0.6/4 x 1.0	
0.06...1.0		0.06...1.0		0.06...1.0		0.06...0.5/0.06...1.0	
<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>
1607710	1607727	1613569	1613588	1607746	1607768	1613611	1613630
-							
1607711	1607728	1613570	1613589	1607747	1607769	1613612	1613631
-							
1619213	1619214	1619215	1619216	1619217	1619218	1620462	1620461
-							
1619190	1619191	1619192	1619193	1619194	1619195	1620460	1620459
-							
1620431	1620432	1620433	1620434	1620435	1620436	1620437	1620438
-							
1620448	1620447	1620450	1620449	1620452	1620451	1620454	1620453
-							
1613548	1613550	1613553	1613572	1613590	1613592	1613595	1613614
1613831							
-							
1613549	1613551	1613568	1613587	1613591	1613593	1613610	1613629
1600417							

Power – M23		6 (5+PE)-pos.	8 (4+3+PE)-pos.
Crimp connection	Rated voltage [V AC/DC]	630	250 / 630
	Nominal current [A]	30	9 / 30
	Number of contacts/diameter [mm]	6 × 2	4 × 1 / 4 × 2
	Litz wire cross sections [mm <sup>2</sup> ]	0.25 ... 4.0	0.06 ... 1.0 / 0.25 ... 4.0
 Web code: #0268	Pin assignment	 	 

Cable connectors, SPEEDCON fast locking system						
	Cable clamping range [mm] <b>Short design,</b> cable Ø 7.5 mm ... 14 mm 	7.5 ... 14	–	1618197	–	1618207
		5.5 ... 8.5	–	1627030	–	1627032
		7.5 ... 9	–	1618194	–	1618204
		9 ... 11	–	1618195	–	1618205
		11 ... 14	–	1618196	–	1618206
	Cable clamping range [mm] <b>Long design,</b> cable Ø 7.5 mm ... 18 mm 	7.5 ... 18	–	1618202	–	1618212
		7.5 ... 9	–	1618201	–	1618211
		9 ... 12	–	1618200	–	1618210
		12 ... 15	–	1618199	–	1618209
		15 ... 18	–	1618198	–	1618208

Cable connectors, standard locking						
	Cable clamping range [mm] <b>Short design,</b> cable Ø 7.5 mm ... 14 mm	7.5 ... 14	–	1605532	–	1605602
		5.5 ... 8.5	–	1627038	–	1627033
		7.5 ... 9	–	1605524	–	1605595
		9 ... 11	–	1605526	–	1605596
		11 ... 14	–	1605529	–	1605597
	Cable clamping range [mm] <b>Long design,</b> cable Ø 7.5 mm ... 18 mm	7.5 ... 18	–	1605549	–	1605617
		7.5 ... 9	–	1605548	–	1605614
		9 ... 12	–	1605546	–	1605610
		12 ... 15	–	1605545	–	1605607
		15 ... 18	–	1605543	–	1605605

Coupler connectors						
	Cable clamping range [mm] <b>Short design,</b> cable Ø 7.5 mm ... 14 mm	7.5 ... 14	1605499	–	1605575	–
		5.5 ... 8.5	1627034	–	1627035	–
		7.5 ... 9	1605494	–	1605568	–
		9 ... 11	1605496	–	1605570	–
		11 ... 14	1605498	–	1605571	–
	Cable clamping range [mm] <b>Long design,</b> cable Ø 7.5 mm ... 18 mm	7.5 ... 18	1605510	–	1605583	–
		7.5 ... 9	1605509	–	1605582	–
		9 ... 12	1605508	–	1605581	–
		12 ... 15	1605507	–	1605580	–
		15 ... 18	1605505	–	1605578	–

The cable clamping ranges specified may vary depending on the cable material and cable design. Selection and testing is the responsibility of the user. For color rings for individual marking of the connectors, see page 43. Please order crimp contacts separately, see page 46 onwards.

Power – M23		6 (5+PE)-pos.	8 (4+3+PE)-pos.			
<b>Crimp connection</b>	<b>Rated voltage</b> [V AC/DC]	630	250/630			
	<b>Nominal current</b> [A]	30	9/30			
	<b>Number of contacts/diameter</b> [mm]	6 x 2	4 x 1/4 x 2			
	<b>Litz wire cross sections</b> [mm <sup>2</sup> ]	0.25 ... 4.0	0.06 ... 1.0/0.25 ... 4.0			
 <b>Web code: #0269</b>	<b>Pin assignment</b>	<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>	
						
<b>Device connectors, front mounting</b>						
	<b>Flange dimensions 26 mm x 26 mm</b> Mounting holes 4 x Ø 3.2 mm	1605520	–	1605589	–	
	<b>With reinforced contact carrier for angled mating connectors, flange dim. 26 mm x 26 mm</b> Mounting holes 4 x Ø 3.2 mm	1620619	–	1620620	–	
<b>Device connectors, angled, rotatable, front mounting</b>						
	<b>Flange dimensions 26 mm x 26 mm</b> Mounting holes 4 x Ø 3.2 mm	1620657	–	1620660	–	
	<b>Flange dimensions 28 mm x 28 mm</b> Mounting holes 4 x Ø 3.2 mm	1620661	–	1620662	–	
<b>Device connectors, with knurled nut, front mounting</b>						
	<b>Straight</b> Flange dimensions 26 mm x 26 mm Mounting holes 4 x Ø 3.2 mm	–	1607082	–	1605622	
	<b>Angled</b> Flange dimensions 26 mm x 26 mm Mounting holes 4 x Ø 3.2 mm	–	1607405	–	1607429	
<b>Panel feed-through, front mounting, pin-socket<sup>1)</sup></b>						
	<b>Completely wired on the inside with contacts fitted</b> Mounting holes 4 x Ø 3.2 mm	1605492	–	1605567	–	
<b>Panel feed-through, rear mounting</b>						
	<b>Cable clamping range</b> [mm] <b>Short design,</b> <b>cable Ø 7.5 mm ... 14 mm</b> Mounting holes 4 x Ø 3.2 mm	7.5 ... 14	1605517	–	1607051	–
		5.5 ... 8.5	1627036	–	1627037	–
		7.5 ... 9	1605516	–	1607048	–
		9 ... 11	1607037	–	1607049	–
		11 ... 14	1607038	–	1607050	–
	<b>Cable clamping range</b> [mm] <b>Long design,</b> <b>cable Ø 7.5 mm ... 18 mm</b> Mounting holes 4 x Ø 3.2 mm	7.5 ... 18	1605518	–	1607056	–
		7.5 ... 9	1607042	–	1607055	–
		9 ... 12	1607041	–	1607054	–
		12 ... 15	1607040	–	1607053	–
		15 ... 18	1607039	–	1607052	–


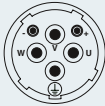
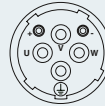
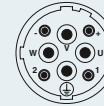
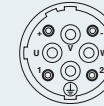








<sup>1)</sup> Panel feed-through, pin-socket, only compatible with standard M23 screw locking.

The cable clamping ranges specified may vary depending on the cable material and cable design. Selection and testing is the responsibility of the user. For color rings for individual marking of the connectors, see page 43. Please order crimp contacts separately, see page 46 onwards.


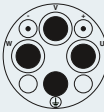
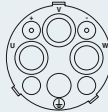
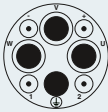
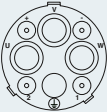





Power – M40		6 (2+3+PE)-pos.		8 (4+3+PE)-pos.		
Crimp connection	Rated voltage	[V AC/DC]	250/630		250/630	
	Nominal current	[A]	30/70		30/70	
	Number of contacts/diameter	[mm]	2 x 2/4 x 3.6		4 x 2/4 x 3.6	
	Litz wire cross sections	[mm <sup>2</sup> ]	0.14 ... 4.0/0.75 ... 16.0		0.14 ... 4.0/0.75 ... 16.0	
 Web code: #0270	Pin assignment		Pin	Socket	Pin	Socket
						
<b>Cable connectors, SPEEDCON fast locking system</b>						
	Cable clamping range [mm] <b>Connection cross section up to 16 mm<sup>2</sup></b> 	9 ... 14	–	1613428	–	1613434
		14 ... 20.5	–	1613429	–	1613435
		20.5 ... 26.5	–	1613430	–	1613436
<b>Cable connectors, standard locking</b>						
	Cable clamping range [mm] <b>Connection cross section up to 16 mm<sup>2</sup></b>	9 ... 14	–	1613518	–	1613528
		14 ... 20.5	–	1613519	–	1613529
		20.5 ... 26.5	–	1613520	–	1613530
<b>Coupler connectors</b>						
	Cable clamping range [mm] <b>Connection cross section up to 16 mm<sup>2</sup></b>	9 ... 14	1613425	–	1613431	–
		14 ... 20.5	1613426	–	1613432	–
		20.5 ... 26.5	1613427	–	1613433	–
<b>Device connectors, front mounting</b>						
	<b>Flange dimensions 40 mm x 40 mm</b> Mounting holes 4 x Ø 4.2 mm Connection cross section up to 10 mm <sup>2</sup>	1613517	–	1613527	–	
<b>Device connectors, angled, rotatable, front mounting</b>						
	<b>Flange dimensions 40 mm x 40 mm</b> Mounting holes 4 x Ø 4.4 mm Connection cross section up to 10 mm <sup>2</sup>	1620663	–	1620664	–	




The cable clamping ranges specified may vary depending on the cable material and cable design. Selection and testing is the responsibility of the user. For color rings for individual marking of the connectors, see page 43. Please order crimp contacts separately, see page 46 onwards.

Power – M40		6 (2+3+PE)-pos.	8 (4+3+PE)-pos.		
<b>Crimp connection</b>	<b>Rated voltage</b> [V AC/DC]	250/630	250/630		
	<b>Nominal current</b> [A]	30/70	30/70		
	<b>Number of contacts/diameter</b> [mm]	2 x 2/4 x 3.6	4 x 2/4 x 3.6		
	<b>Litz wire cross sections</b> [mm <sup>2</sup> ]	0.14 ... 4.0/0.75 ... 16.0	0.14 ... 4.0/0.75 ... 16.0		
 <b>Web code: #0272</b>	<b>Pin assignment</b>	<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>
					
<b>Device connectors, with knurled nut, SPEEDCON fast locking system, front mounting</b>					
	<b>Straight</b> Flange dimensions 40 mm x 40 mm Mounting holes 4 x Ø 4.2 mm Connection cross section up to 16 mm <sup>2</sup>	–	1613524	–	1613534
					
	<b>Angled</b> Flange dimensions 40 mm x 40 mm Mounting holes 4 x Ø 4.2 mm Connection cross section up to 16 mm <sup>2</sup>	–	1613525	–	1613535
					
<b>Device connectors, with knurled nut, front mounting</b>					
	<b>Straight</b> Flange dimensions 40 mm x 40 mm Mounting holes 4 x Ø 4.2 mm Connection cross section up to 16 mm <sup>2</sup>	–	1605823	–	1605865
					
	<b>Angled</b> Flange dimensions 40 mm x 40 mm Mounting holes 4 x Ø 4.2 mm Connection cross section up to 16 mm <sup>2</sup>	–	1607532	–	1607543
					

Please order crimp contacts separately, see page 46 onwards.

Power – M58			6 (2+3+PE)-pos.		8 (4+3+PE)-pos.		
<b>Crimp connection</b>	Rated voltage	[V AC/DC]	250 / 630		250 / 630		
	Nominal current	[A]	12 / 150		12 / 150		
	Number of contacts/diameter	[mm]	2 x 1.6 / 4 x 10		4 x 1.6 / 4 x 10		
	Litz wire cross sections	[mm <sup>2</sup> ]	0.75 ... 1.5 / 10 ... 50		0.75 ... 1.5 / 10 ... 50		
 Web code: #0273	Pin assignment		Pin	Socket	Pin	Socket	
							
<b>Cable connectors, standard locking</b>							
	Cable clamping range	[mm]	17 ... 25	–	1607503	–	1607508
			25 ... 36	–	1607501	–	1607507
<b>Coupler connectors</b>							
	Cable clamping range	[mm]	17 ... 25	1607500	–	1607506	–
			25 ... 36	1607499	–	1607505	–
<b>Device connectors, front mounting</b>							
	Flange dimensions 60 mm x 60 mm Mounting holes 4 x Ø 5.4 mm		1615686	–	1615687	–	

The cable clamping ranges specified may vary depending on the cable material and cable design. Selection and testing is the responsibility of the user. Please order crimp contacts separately, see page 46 onwards.

Color rings	For connectors, on the cable side	For device connectors		
For individual marking of the connectors, 50 pcs. per set				
 Web code: #0275				
Color				
<b>Color rings for M17 COMPACT/M17 signal/power connectors</b>				
Green	1617993	1620621		
Orange	1618049	1620622		
Black	1618050	1620623		
<b>Color rings for M23 ADVANCE signal connectors</b>				
Green	1620588	1620700 <sup>1)</sup>	1620704 <sup>2)</sup>	1620624 <sup>3)</sup>
Orange	1620592	1620701 <sup>1)</sup>	1620705 <sup>2)</sup>	1620625 <sup>3)</sup>
Black	1620593	1620702 <sup>1)</sup>	1620706 <sup>2)</sup>	1620626 <sup>3)</sup>
<b>Color rings for M23 signal connectors (feedback connectors)</b>				
Green	1620588		1620624	
Orange	1620592		1620625	
Black	1620593		1620626	
<b>Color rings for M23 HYBRID/M23 power connectors</b>				
Green	1620585		1620624	
Orange	1620586		1620625	
Black	1620587		1620626	
<b>Color rings for M40 HYBRID/M40 power connectors</b>				
Green	1620558		1620627	
Orange	1620559		1620628	
Black	1620560		1620629	

<sup>1)</sup> For device connectors, front mounting: Pg13.5 and M20 fastening thread/rear mounting: central fastening thread.

<sup>2)</sup> For device connectors, front mounting: flange dimensions 25 mm x 25 mm.

<sup>3)</sup> For device connectors, angled, rotatable, front mounting: flange dimensions 26 mm x 26 mm.

Protective caps	For connectors with external thread	For connectors with knurled nut
Plastic protective caps, IP40 in locked state		
 Web code: #0566		
<b>Plastic protective cap for signal connectors</b>		
M17	1607776	1607777
M17 COMPACT	1621049	1621904
M23	1604225	1604223
M23, antistatic	1611797	1611796
M23, with eyelet for fastening wire	1607449	–
<b>Plastic protective cap for hybrid connectors</b>		
M23	1622137	1604223
M40	1605866	1624199
<b>Plastic protective cap for power connectors</b>		
M17	1607776	1607777
M17 COMPACT	1621049	1621904
M23	1604225	1604223
M23, antistatic	1611797	1611796
M23, with eyelet for fastening wire	1607449	–
M40	1605866	1624199*
M58	1607926	–

\* Only suitable for SPEEDCON fast locking system.







Protective caps	For connectors with external thread	For connectors with knurled nut
<b>Metal protective caps, IP67 in locked state</b>		
<b>i</b> Web code: #0566		
<b>Metal protective cap for signal connectors</b>		
M17	<a href="#">1616069</a>	–
M17, with steel wire and eyelet for fastening on the device	<a href="#">1616068</a>	–
M17, with steel wire and loop for fastening on the cable	–	<a href="#">1627217</a>
M23	<a href="#">1604260</a>	–
M23, with steel wire and eyelet for fastening on the device	<a href="#">1604236</a>	<a href="#">1604228</a>
M23, with steel wire and loop for fastening on the cable	–	<a href="#">1627224</a>
<b>Metal protective cap for hybrid connectors</b>		
M23	<a href="#">1622138</a>	<a href="#">1622140</a>
M23, with steel wire and eyelet for fastening on the device	<a href="#">1622139</a>	<a href="#">1622141</a>
M23, with steel wire and loop for fastening on the cable	–	<a href="#">1627226</a>
M40	<a href="#">1623827</a>	–
M40, with steel wire and eyelet for fastening on the device	<a href="#">1623828</a>	–
M40, with steel wire and loop for fastening on the cable	–	<a href="#">1627218</a>
<b>Metal protective cap for power connectors</b>		
M17	<a href="#">1616069</a>	–
M17, with steel wire and eyelet for fastening on the device	<a href="#">1616068</a>	–
M17, with steel wire and loop for fastening on the cable	–	<a href="#">1627217</a>
M23	<a href="#">1605456</a>	<a href="#">1622140</a>
M23, with steel wire and eyelet for fastening on the device	<a href="#">1605457</a>	<a href="#">1622141</a>
M23, with steel wire and loop for fastening on the cable	–	<a href="#">1627226</a>
M40	<a href="#">1623827</a>	–
M40, with steel wire and eyelet for fastening on the device	<a href="#">1623828</a>	–
M40, with steel wire and loop for fastening on the cable	–	<a href="#">1627218</a>

Crimp contacts		Signal						Hybrid	
Ø 0.6 to Ø 1.6 mm	Series	M17 COMPACT / M17		M23 ADVANCE		M23 Feedback		M23	
 Web code: #0276									
Crimp range [mm <sup>2</sup> ]		Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
<b>Crimp contacts, turned, Ø 0.6 mm</b>									
	0.06...0.25	1607577	1607580	–	–	–	–	–	–
	0.14...0.34	1607578	1607581	–	–	–	–	–	–
	0.34...0.50	1607579	1607582	–	–	–	–	–	–
<b>Crimp contacts, turned, Ø 0.8 mm</b>									
	0.08...0.25	–	–	–	–	–	–	1621574	1621571
	0.34...0.50	–	–	–	–	–	–	1621575	1621573
<b>Crimp contacts, turned, Ø 1.0 mm</b>									
	0.06...0.20	–	–	–	–	1605559	1605562	–	–
	0.06...0.25	1618255	1618239	–	–	–	–	1618255	1618239
	0.08...0.22	–	–	1596770 1623776 <sup>1)</sup>	1596772	–	–	–	–
	0.14...0.50	–	–	–	–	1607355	1607356	–	–
	0.14...0.56	–	–	1597862 1623777 <sup>1)</sup>	1599600	–	–	–	–
	0.34...0.50	1618256	1618251	–	–	–	–	1618256	1618251
	0.25...1.00	1618458	1618464	–	–	–	–	–	–
	0.50...1.00	–	–	1602996 1623778 <sup>1)</sup>	1602998	1605554	1605557	1618261	1618254
1.00...1.50	–	–	–	–	–	–	–	–	
<b>Crimp contacts, rolled, Ø 1.0 mm</b>									
	0.22...0.56	–	–	–	–	–	–	–	–
	Single contact	–	–	1603321	1603327	–	–	–	–
	Roll of 500 pcs.	–	–	1603324	1603330	–	–	–	–
Roll of 10,000 pcs.	–	–	1603325	1603332	–	–	–	–	
<b>Crimp contacts, turned, Ø 1.5 mm</b>									
	0.75...1.00	–	–	1623779	1623775	–	–	–	–
	0.75...1.00	–	–	1623780 <sup>2)</sup>	–	–	–	–	–
<b>Crimp contacts, turned, Ø 1.6 mm</b>									
	0.75...1.50	–	–	–	–	–	–	–	–
<b>Crimping tools</b>									
Crimping tools as accessories for contacts can be found at <a href="http://phoenixcontact.com">phoenixcontact.com</a>									

<sup>1)</sup> For 19-pos. <sup>2)</sup> Leading contact. <sup>3)</sup> M40 hybrid CAT5 design. <sup>4)</sup> M40 hybrid signal design.  
For crimp contacts Ø 2.0 mm/Ø 3.6 mm/Ø 10.0 mm, see page 48.

		Power									
M40		M17 COMPACT / M17		M23		M40		M58			
Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
-	-	1607577	1607580	-	-	-	-	-	-	-	-
-	-	1607578	1607581	-	-	-	-	-	-	-	-
-	-	1607579	1607582	-	-	-	-	-	-	-	-
1621574 <sup>3)</sup>	1621571 <sup>3)</sup>	-	-	-	-	-	-	-	-	-	-
1621575 <sup>3)</sup>	1621573 <sup>3)</sup>	-	-	-	-	-	-	-	-	-	-
-	-	-	-	1605559	1605562	-	-	-	-	-	-
1623607 <sup>3), 4)</sup> 1618255 <sup>4)</sup>	1623603 <sup>3), 4)</sup> 1618239 <sup>4)</sup>	1618255	1618239	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	1607355	1607356	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
1623611 <sup>3), 4)</sup> 1618256 <sup>4)</sup>	1623604 <sup>3), 4)</sup> 1618251 <sup>4)</sup>	1618256	1618251	-	-	-	-	-	-	-	-
-	-	1618458	1618464	-	1605557	-	-	-	-	-	-
1623612 <sup>3), 4)</sup> 1618261 <sup>4)</sup>	1623605 <sup>3), 4)</sup> 1618254 <sup>4)</sup>	-	-	1605554	-	-	-	-	-	-	-
1623613 <sup>3), 4)</sup>	1623606 <sup>3), 4)</sup>	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	1607909	1607956
										1607452	

Crimp contacts		Signal						Hybrid	
Ø 2.0 to Ø 10.0 mm	Series	M17 COMPACT / M17		M23 ADVANCE		M23 Feedback		M23	
 Web code: #0276									
Crimp range [mm <sup>2</sup> ]		Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
<b>Crimp contacts, turned, Ø 2.0 mm</b>									
	0.14...0.25	-	-	-	-	-	-	-	-
	0.25...1.00	-	-	-	-	-	-	1621579	1621576
	0.75...1.50	-	-	-	-	-	-	-	-
	1.00...1.50	-	-	1603513	1603517	-	-	-	-
	1.00...2.50	-	-	-	-	-	-	-	-
	1.50...2.50	-	-	1603505	1603509	-	-	1621580	1621577
	2.50...4.00	-	-	-	-	-	-	1621581	1621578
	4.00	-	-	-	-	-	-	-	-
<b>Crimp contacts, turned, Ø 3.6 mm</b>									
	0.75...1.50	-	-	-	-	-	-	-	-
	1.00...2.50	-	-	-	-	-	-	-	-
	2.50...4.00	-	-	-	-	-	-	-	-
	4.00...6.00	-	-	-	-	-	-	-	-
	6.00...10.00	-	-	-	-	-	-	-	-
	10.00	-	-	-	-	-	-	-	-
	16.00	-	-	-	-	-	-	-	-
	<b>Crimp contacts, turned, Ø 10.0 mm</b>								
	10.00	-	-	-	-	-	-	-	-
	16.00	-	-	-	-	-	-	-	-
	25.00	-	-	-	-	-	-	-	-
	35.00	-	-	-	-	-	-	-	-
	50.00	-	-	-	-	-	-	-	-
<b>Crimping tools</b>									
Crimping tools as accessories for contacts can be found at <a href="http://phoenixcontact.com">phoenixcontact.com</a>									

<sup>1)</sup> Only for device connectors. <sup>2)</sup> Only for coupler connectors. <sup>3)</sup> Not suitable for device connectors, angled, rotatable.

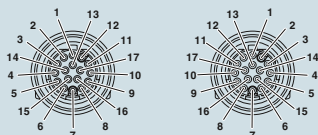
		Power							
M40		M17 COMPACT / M17		M23		M40		M58	
Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
–	–	–	–	1605646	–	1605646 <sup>(1)</sup>	–	–	–
–	–	1607655	1607657	1605634	1605636	1605634 <sup>(1)</sup> 1605738 <sup>(2)</sup>	1605636	–	–
–	–	–	–	1607376	1605631	1607376 <sup>(1)</sup> 1605736 <sup>(2)</sup>	1605631	–	–
–	–	–	–	–	–	–	–	–	–
–	–	1607656	1607658	1605639	1605643	1605639 <sup>(1)</sup> 1605739 <sup>(2)</sup>	1605643	–	–
–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–
–	–	–	–	1605626	1605628	1605626 <sup>(1)</sup> 1605741 <sup>(2)</sup>	1605628	–	–
–	–	–	–	–	–	1605743 <sup>(1)</sup>	–	–	–
–	–	–	–	–	–	1607057 <sup>(1)</sup> 1605749 <sup>(2)</sup>	1605756	–	–
1623383	1623378	–	–	–	–	1605750 <sup>(2)</sup>	1605758	–	–
1623384	1623379	–	–	–	–	1605745 <sup>(1)</sup> 1605754 <sup>(2)</sup>	1605760	–	–
–	–	–	–	–	–	1605747 <sup>(1)</sup> 1605752 <sup>(2)</sup>	1605762	–	–
1623385	1623380	–	–	–	–	–	–	–	–
1623386 <sup>(3)</sup>	1623381 <sup>(3)</sup>	–	–	–	–	1623970 <sup>(2)</sup>	1623972	–	–
–	–	–	–	–	–	–	–	1607911	1607916
–	–	–	–	–	–	–	–	1607912	1607917
–	–	–	–	–	–	–	–	1607913	1607918
–	–	–	–	–	–	–	–	1607914	1607919
–	–	–	–	–	–	–	–	1607915	1607920



Signal – M17 and M23, plastic molded		M17 straight	M23 straight	M23 angled	
		17-pos., standard	12-pos., reverse	12-pos., reverse	
Cable type		E01	E00	E00	
Cable design	[mm <sup>2</sup> ]	3x2x0.14 + 2x0.5 + 4x0.14 + 4x0.22	4x2x0.25 + 2x0.5	4x2x0.25 + 2x0.5	
Cable color		Green	Orange	Orange	
Rated voltage	[V AC/DC]	60	150	150	
Nominal current	[A]	3.6	9	9	
Temperature range, flexible	[°C]	-30 ... +60	-20 ... +60	-20 ... +60	
Temperature range, fixed	[°C]	-30 ... +80	-40 ... +80	-40 ... +80	
Grip/sheath/wire insulation material		TPU/TPU/TPM	TPU/TPU/PP	TPU/TPU/PP	
 Web code: #0277					
		Socket	Socket	Socket	
First end	Cable length				
Second end					
Free cable end					
		2 m	1624780	1619247	1619280
		5 m	1624781	1619248	1619281
		10 m	1624782	1619249	1619282
M17, pin					
		2 m	1624778	–	–
		5 m	1624783	–	–
		10 m	1624784	–	–
M23, pin					
		2 m	–	1619289	–
		5 m	–	1619290	–
		10 m	–	1619291	–

Customer-specific versions and lengths, also with SPEEDCON fast locking system, are available on request.

### M17 pin assignments



Socket, 17-pos., standard

Pin, 17-pos., standard

### M23 pin assignments



Socket, 12-pos., standard

Pin, 12-pos., standard

Socket, 12-pos., reverse

Pin, 12-pos., reverse



Socket, 17-pos., standard



Pin, 17-pos., standard

M23 straight	M23 angled	M23 straight	M23 angled
12-pos., standard	12-pos., standard	17-pos., standard	17-pos., standard
E00	E00	E01	E01
4x2x0.25 + 2x0.5	4x2x0.25 + 2x0.5	3x2x0.14 + 2x0.5 + 4x0.14 + 4x0.22	3x2x0.14 + 2x0.5 + 4x0.14 + 4x0.22
Orange	Orange	Green	Green
150	150	100	100
9	9	9	9
-20 ... +60	-20 ... +60	-30 ... +60	-30 ... +60
-40 ... +80	-40 ... +80	-30 ... +80	-30 ... +80
TPU/TPU/PP	TPU/TPU/PP	TPU/TPU/TPM	TPU/TPU/TPM
			
Socket	Socket	Socket	Socket
1619250	1619285	1619277	1619286
1619273	1619283	1619278	1619287
1619274	1619284	1619279	1619288
-	-	-	-
-	-	-	-
-	-	-	-
1619292	-	1619295	-
1619293	-	1619296	-
1619294	-	1619297	-

**Assignment: cable type E00, feedback, 12-pos.**

Pin	Wire color	Pin	Wire color
1	PK	7	VT
2	RD	8	GY
3	BK	9	Outer shield
4	BU	10	WH
5	BN	11	n.c.
6	GN	12	BN

**Assignment: cable type E01, feedback, 17-pos.**

Pin	Wire color	Pin	Wire color
1	YE	10	BNRD
2	GN	11	BK
3	RD	12	BN
4	n.c.	13	OG
5	BU	14	WHBK
6	n.c.	15	BNGY
7	BNBU	16	BNYE
8	GNBK	17	n.c. Inner shields on housing
9	GNRD		

## HYBRID – M23, plastic molded

## M23 straight

Cable type		H00
Cable design	[mm <sup>2</sup> ]	(5x2.5 + 4xAWG 22/C + 4x0.5)C
Cable color		Orange
Rated voltage	[V AC/DC]	630 / 850
Nominal current	[A]	26 / 8
Temperature range, flexible	[°C]	-30 ... +60
Temperature range, fixed	[°C]	-40 ... +80
Grip/sheath/wire insulation material		TPU/PUR/TPE, polyolefin

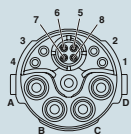
 Web code: #0282



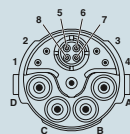
Second end	First end	Cable length	Socket
<b>Free cable end</b>			
		2 m	<a href="#">1622224</a>
		5 m	<a href="#">1622225</a>
		10 m	<a href="#">1622226</a>
<b>M23 straight, pin</b>			
		2 m	<a href="#">1622244</a>
		5 m	<a href="#">1622245</a>
		10 m	<a href="#">1622246</a>
<b>M23 straight, pin</b>			
		2 m	<a href="#">1622247</a>
		5 m	<a href="#">1622248</a>
		10 m	<a href="#">1622249</a>
<b>M23 angled, pin</b>			
		2 m	–
		5 m	–
		10 m	–

Customer-specific versions and lengths are available on request.




### M23 pin assignments



Socket,  
4+4+4+PE-pos.



Pin,  
4+4+4+PE-pos.

M23 straight	M23 angled	M23 angled
4+4+4+PE-pos. (CAT5, 100 Mbps)		
H00 (5x2.5 + 4xAWG 22/C + 4x0.5)C	H00 (5x2.5 + 4xAWG 22/C + 4x0.5)C	H00 (5x2.5 + 4xAWG 22/C + 4x0.5)C
Orange	Orange	Orange
630/850	630/850	630/850
26/8	26/8	26/8
-30 ... +60	-30 ... +60	-30 ... +60
-40 ... +80	-40 ... +80	-40 ... +80
TPU/PUR/TPE, polyolefin	TPU/PUR/TPE, polyolefin	TPU/PUR/TPE, polyolefin
		
Pin	Socket	Pin
1622227	1622230	1622233
1622228	1622231	1622234
1622229	1622232	1622243
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	1622250	-
-	1622251	-
-	1622252	-

**Assignment: cable type H00,  
hybrid, 4+4+4+PE**

Pin	Wire color	Cross section [mm <sup>2</sup> ]	Pin	Wire color	Cross section [mm <sup>2</sup> ]
A	BK1	2.5	3	BK	0.5
B	BK2	2.5	4	GN	0.5
C	BK3	2.5	5	BU	0.34
D	BK4	2.5	6	YE	0.34
PE	GNYE	2.5	7	WH	0.34
1	BN	0.5	8	OG	0.34
2	VT	0.5			



## Power – M17, plastic molded

### 4 (3+PE)-pos.

Cable type		B00	B01
Cable design	[mm <sup>2</sup> ]	4x1.5	4x2.5
Cable color		Orange	Orange
Rated voltage	[V AC/DC]	630	630
Nominal current	[A]	18	26
Temperature range, flexible	[°C]	-20 ... +60	-20 ... +70
Temperature range, fixed	[°C]	-40 ... +80	-50 ... +80
Grip/sheath/wire insulation material		TPU/PUR/TPM	TPU/TPU/TPM

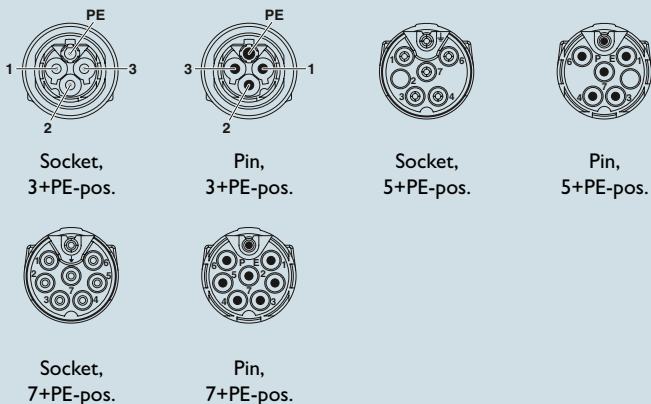
 Web code: #0279



First end	Socket	Socket	
Second end	Cable length		
Free cable end			
	2 m	1619298	1619301
	5 m	1619299	1619302
	10 m	1619300	1619303
	2 m	1619304	1619326
	5 m	1619305	1619327
	10 m	1619306	1619328

Customer-specific versions and lengths, also with SPEEDCON fast locking system, are available on request.

### M17 pin assignments



### Assignment: cable type B00/B01, servo, 3+PE

Pin	Wire color	Function
1	BK U	U Motor
2	BK V	V Motor
3	BK W	W Motor
PE	GNYE	⏚

### Assignment: cable type C00, servo, 5+PE

Pin	Wire color	Function
1	BK1	U Motor
6	BK2	V Motor
7	BK3	W Motor
PE	GNYE	⏚
3	BK5	Brake
4	BK6	Brake



## M17 straight

### 6 (5+PE)-pos.

### 8 (7+PE)-pos.

C00	C01	D00	D01
4x0.75 + 2x0.5	4x1.0 + 2x0.5	4x0.75 + 2x2x0.34	4x1.0 + 2x2x0.75
Orange	Orange	Orange	Orange
630	630	630	630
12/9	15/9	12/6	15/12
-30 ... +70	-5 ... +70	-30 ... +90	-20 ... +60
-40 ... +80	-30 ... +70	-40 ... +90	-40 ... +80
TPU/PUR/TPM	TPU/PUR/TPE	TPU/PUR/TPM	TPU/PUR/TPM



Socket	Socket	Socket	Socket
--------	--------	--------	--------

1619307	1619310	1624785	1619313
1619308	1619311	1624786	1619314
1619309	1619312	1624792	1619315






1619316	1619319	1624787	1619323
1619317	1619321	1624788	1619324
1619318	1619322	1624789	1619325

#### Assignment: cable type C01, servo, 5+PE

Pin	Wire color	Function
1	BK U	U Motor
6	BK V	V Motor
7	BK W	W Motor
PE	GNYE	⊥
3	BK	Brake
4	WH	Brake

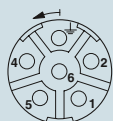
#### Assignment: cable type D00/D01, servo, 7+PE

Pin	Wire color	Function
1	BK1	U Motor
2	BK2	V Motor
3	BK3	W Motor
PE	GNYE	⊥
4	BK5	Brake
5	BK6	Brake
6	BK7	Temp +
7	BK8	Temp -

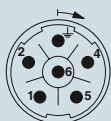
Power – M23, plastic molded		4 (3+PE)-pos.		5 (4+PE)-pos.	
		Cable type	A00	A01	
Cable design	[mm <sup>2</sup> ]	4x4.0	5x4.0		
Cable color		Gray	Gray		
Rated voltage	[V AC/DC]	630	630		
Nominal current	[A]	34	34		
Temperature range, flexible	[°C]	–	–		
Temperature range, fixed	[°C]	-40 ... +90	-40 ... +90		
Grip/sheath/wire insulation material		TPU/PVC/PVC	TPU/PVC/PVC		
 Web code: #0280					
Second end	Cable length				
Free cable end					
		2 m	1624771	1625776	
		5 m	1619622	1625777	
		10 m	1624772	1625775	
M23, pin					
		2 m	1624773	1625779	
		5 m	1619606	1625781	
		10 m	1624774	1625780	

Customer-specific versions and lengths, also with SPEEDCON fast locking system, are available on request.

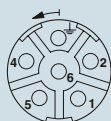
### M23 pin assignments



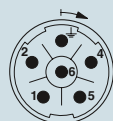
Socket,  
3+PE-pos.



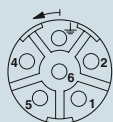
Pin,  
3+PE-pos.



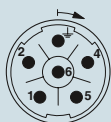
Socket,  
4+PE-pos.



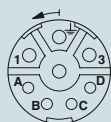
Pin,  
4+PE-pos.



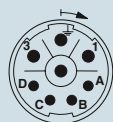
Socket,  
5+PE-pos.



Pin,  
5+PE-pos.



Socket,  
4+3+PE-pos.



Pin,  
4+3+PE-pos.

### Assignment: cable type A00, energy, 3+PE

Pin	Wire color	Function
1	n.c.	
2	BK3	
4	BK1	
5	BK2	
6	n.c.	
PE	GNYE	⏚

### Assignment: cable type A01, energy, 4+PE

Pin	Wire color	Function
1	BK4	
2	BK3	
4	BK1	
5	BK2	
6	n.c.	
PE	GNYE	⏚

## M23 straight

### 6 (5+PE)-pos.

### 8 (4+3+PE)-pos.

C02	C03	D02	D03
4x1.5 + 2x1.5	4x2.5 + 2x1.5	4x1.5 + 2x2x0.75	4x2.5 + 2x2x1.0
Orange	Orange	Orange	Orange
630	630	630/250	630/250
18	26/18	18/12	26/12
-20 ... +60	-20 ... +70	-20 ... +60	-20 ... +60
-40 ... +80	-50 ... +80	-40 ... +80	-40 ... +80
TPU/PUR/TPM	TPU/TPU/TPM	TPU/PUR/TPM	TPU/PUR/TPM



Socket

Socket

Socket

Socket




1618957	1620396	1620399	1620402
1618958	1620397	1620400	1620404
1618959	1620398	1620401	1620405
1618964	1620406	1620409	1620412
1618965	1620407	1620410	1620413
1618966	1620408	1620411	1620414

#### Assignment: cable type C02/C03, servo, 5+PE

Pin	Wire color	Function
1	BK U	U Motor
2	BK V	V Motor
6	BK W	W Motor
PE	GNYE	⊥
4	BK	BR1 Brake
5	WH	BR2 Brake

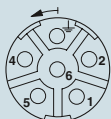
#### Assignment: cable type D02/D03, servo, 4+3+PE

Pin	Wire color	Function
1	BK1	U Motor
3	BK2	V Motor
4	BK3	W Motor
PE	GNYE	⊥
A	BK5	Brake
B	BK6	Brake
C	BK7	Temp +
D	BK8	Temp -

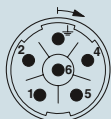
Power – M23, plastic molded		6 (5+PE)-pos.
Cable type		C02
Cable design	[mm <sup>2</sup> ]	4x1.5 + 2x1.5
Cable color		Orange
Rated voltage	[V AC/DC]	630
Nominal current	[A]	18
Temperature range, flexible	[°C]	-20 ... +60
Temperature range, fixed	[°C]	-40 ... +80
Grip/sheath/wire insulation material		TPU/PUR/TPM
 Web code: #0280		
	First end	Socket
Second end	Cable length	
Free cable end		
	2 m	1620415
	5 m	1620416
	10 m	1620417

Angled designs can be combined with straight device connectors with a reinforced contact carrier. For 5+PE: [1620619](#), 4+3+PE: [1620620](#), see page 31. Customer-specific versions and lengths, also with SPEEDCON fast locking system, are available on request.

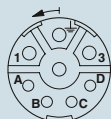
### M23 pin assignments



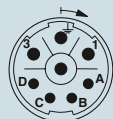
Socket,  
5+PE-pos.



Pin,  
5+PE-pos.



Socket,  
4+3+PE-pos.



Pin,  
4+3+PE-pos.

## M23 angled

### 6 (5+PE)-pos.

C03  
4x2.5 + 2x1.5  
Orange  
630  
26/18  
-20 ... +70  
-50 ... +80  
TPU/TPU/TPM



Socket

### 8 (4+3+PE)-pos.

D02  
4x1.5 + 2x2x0.75  
Orange  
630/250  
18/12  
-20 ... +60  
-40 ... +80  
TPU/PUR/TPM



Socket

D03  
4x2.5 + 2x2x1.0  
Orange  
630/250  
26/12  
-20 ... +60  
-40 ... +80  
TPU/PUR/TPM

Socket

1620418  
1620419  
1620420

1620421  
1620422  
1620423

1620424  
1620425  
1620426

#### Assignment: cable type C02/C03, servo, 5+PE

Pin	Wire color	Function
1	BK U	U Motor
2	BK V	V Motor
6	BK W	W Motor
PE	GNYE	⊥
4	BK	BR1 Brake
5	WH	BR2 Brake

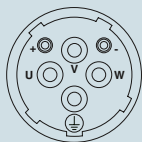
#### Assignment: cable type D02/D03, servo, 4+3+PE

Pin	Wire color	Function
1	BK1	U Motor
3	BK2	V Motor
4	BK3	W Motor
PE	GNYE	⊥
A	BK5	Brake
B	BK6	Brake
C	BK7	Temp +
D	BK8	Temp -

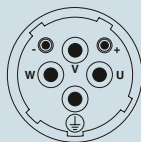
Power – M40, plastic molded		6 (2+3+PE)-pos.			
		C03	C04	C05	
Cable type		C03	C04	C05	
Cable design	[mm <sup>2</sup> ]	4x2.5 + 2x1.5	4x4.0 + 2x1.5	4x6.0 + 2x1.5	
Cable color		Orange	Orange	Orange	
Rated voltage	[V AC/DC]	630/250	630/250	630/250	
Nominal current	[A]	26/18	34/18	44/18	
Temperature range, flexible	[°C]	-20... +70	-20... +70	-20... +70	
Temperature range, fixed	[°C]	-50... +80	-50... +80	-50... +80	
Grip/sheath/wire insulation material		TPU/TPU/TPM	TPU/TPU/TPM	TPU/PUR/TPE	
 Web code: #0281					
	First end	Socket	Socket	Socket	
Second end	Cable length				
Free cable end					
		2 m	1619329	1620311	1620316
		5 m	1620309	1620313	1620317
		10 m	1620310	1620314	1620318
M40, pin					
		2 m	1620345	1620348	1620376
		5 m	1620346	1620349	1620377
		10 m	1620347	1620375	1620378

Customer-specific versions and lengths, also with SPEEDCON fast locking system, are available on request.

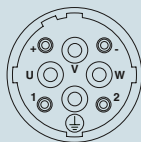
### M40 pin assignments



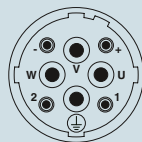
Socket,  
2+3+PE-pos.



Pin,  
2+3+PE-pos.



Socket,  
4+3+PE-pos.



Pin,  
4+3+PE-pos.



## M40 straight

### 8 (4+3+PE)-pos.

C06	D03	D04	D05	D06
4x10.0 + 2x1.5	4x2.5 + 2x2x1.0	4x4.0 + 2x1.5 + 2x1.0	4x6.0 + 2x1.5 + 2x1.0	4x10.0 + 2x1.5 + 2x1.0
Orange	Orange	Orange	Orange	Orange
630/250	630/250	630/250	630/250	630/250
61/18	26/12	34/18/15	44/18/15	61/18/15
-20 ... +70	-20 ... +60	-30 ... +80	-30 ... +60	-20 ... +60
-50 ... +80	-40 ... +80	-45 ... +80	-30 ... +80	-40 ... +80
TPU/TPU/TPM	TPU/PUR/TPM	TPU/PUR/TPM	TPU/PUR/TPM	TPU/PUR/TPM



Socket	Socket	Socket	Socket	Socket
--------	--------	--------	--------	--------

1620319	1620322	1620325	1620339	1620342
1620320	1620323	1620337	1620340	1620343
1620321	1620324	1620338	1620341	1620344

1620379	1620382	1620385	1620390	1620393
1620380	1620383	1620386	1620391	1620394
1620381	1620384	1620387	1620392	1620395

#### Assignment: cable type C03/C04/C05/C06, servo, 2+3+PE

Pin	Wire color	Function
U	BK U	U Motor
V	BK V	V Motor
W	BK W	W Motor
PE	GNYE	⊥
+	BK	BR1 Brake
-	WH	BR2 Brake

#### Assignment: cable type D03/D04/D05/D06, servo, 4+3+PE

Pin	Wire color	Function
U	BK1	U Motor
V	BK2	V Motor
W	BK3	W Motor
PE	GNYE	⊥
+	BK7	Temp +
-	BK8	Temp -
1	BK5	Brake
2	BK6	Brake

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## **Customized new products**

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