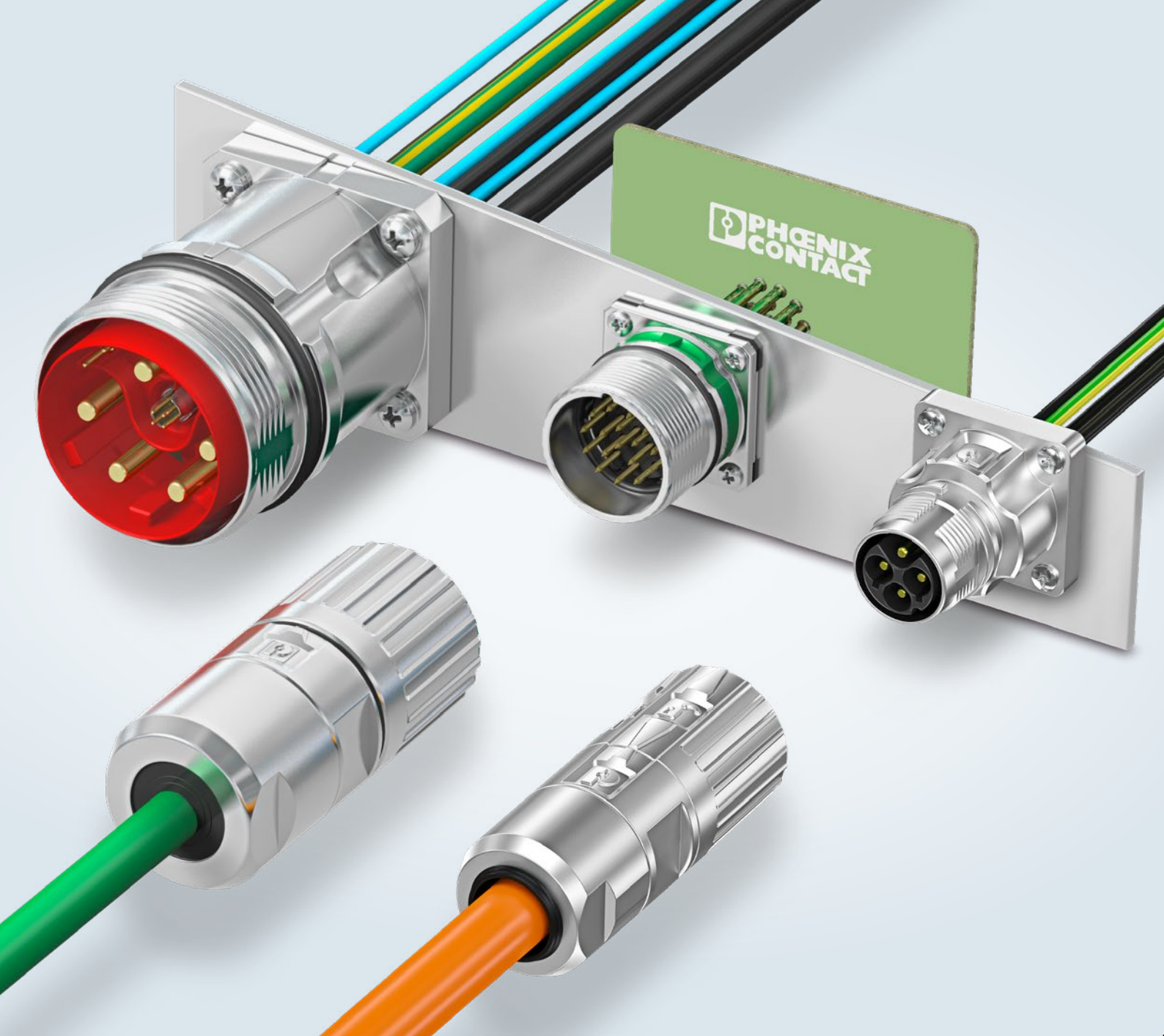




M17 to M58 circular connectors

Product overview 2024

M17 to M58 circular connectors

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

SIGNAL

Signal connectors
up to 19-pos.

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

 **Web code:** #0253



Find out more with the web code

For detailed information, use the web codes provided in this brochure. Simply enter # and the four-digit number in the search field on our website.

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

Or use the direct link:
phoenixcontact.com/webcode/#1234



HYBRID

Hybrid connectors up to 70 A/850 V DC/630 V AC

- Transmission of signals, data, and power in a single connector
- Sizes M23 and M40
- CAT5 interface, alternative: four additional signal contacts
- Connection cross-sections up to 16 mm²
- Up to 70 A and 850 V DC/630 V AC
- Plastic-molded designs

i Web code: #0254

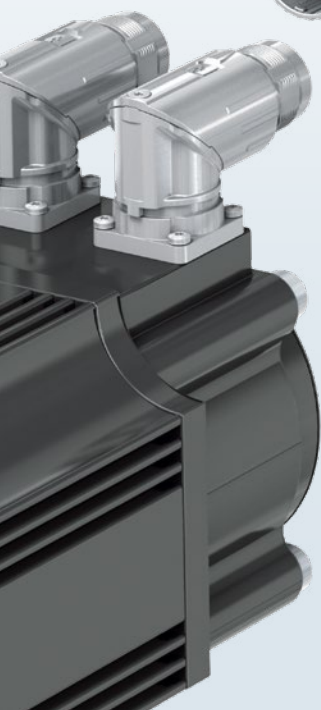


POWER

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 mm²
- IP67 degree of protection
- Plastic-molded designs

i Web code: #0255



Contents

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M17 to M58 power connectors	42
M17 and M23 signal connectors, plastic-molded	62
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M17 power connectors, plastic-molded	66
M23 power connectors, plastic-molded	68
Excellent services	72

Unrivalled variety for signals, data, and power

The circular connector portfolio ranges from signal connectors in sizes M17 and M23 and hybrid connectors to power connectors in sizes M17 to M58 for a maximum of 150 A and 630 V.

The wide range of designs and pin assignments facilitates consistent solutions for transmitting signals and data as well as supplying power to electrical devices and drives. For smaller sizes and connectors for data transmission up to 10 Gbps, go to phoenixcontact.com



Sustainable and future-proof

Phoenix Contact is empowering sustainable products and already offers a comprehensive portfolio which is produced in accordance with future EU directives, with a reduced lead content below 0.1%. This corresponds to RoHS II without Exemption 6c.

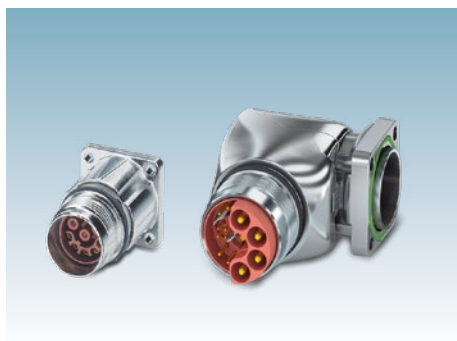
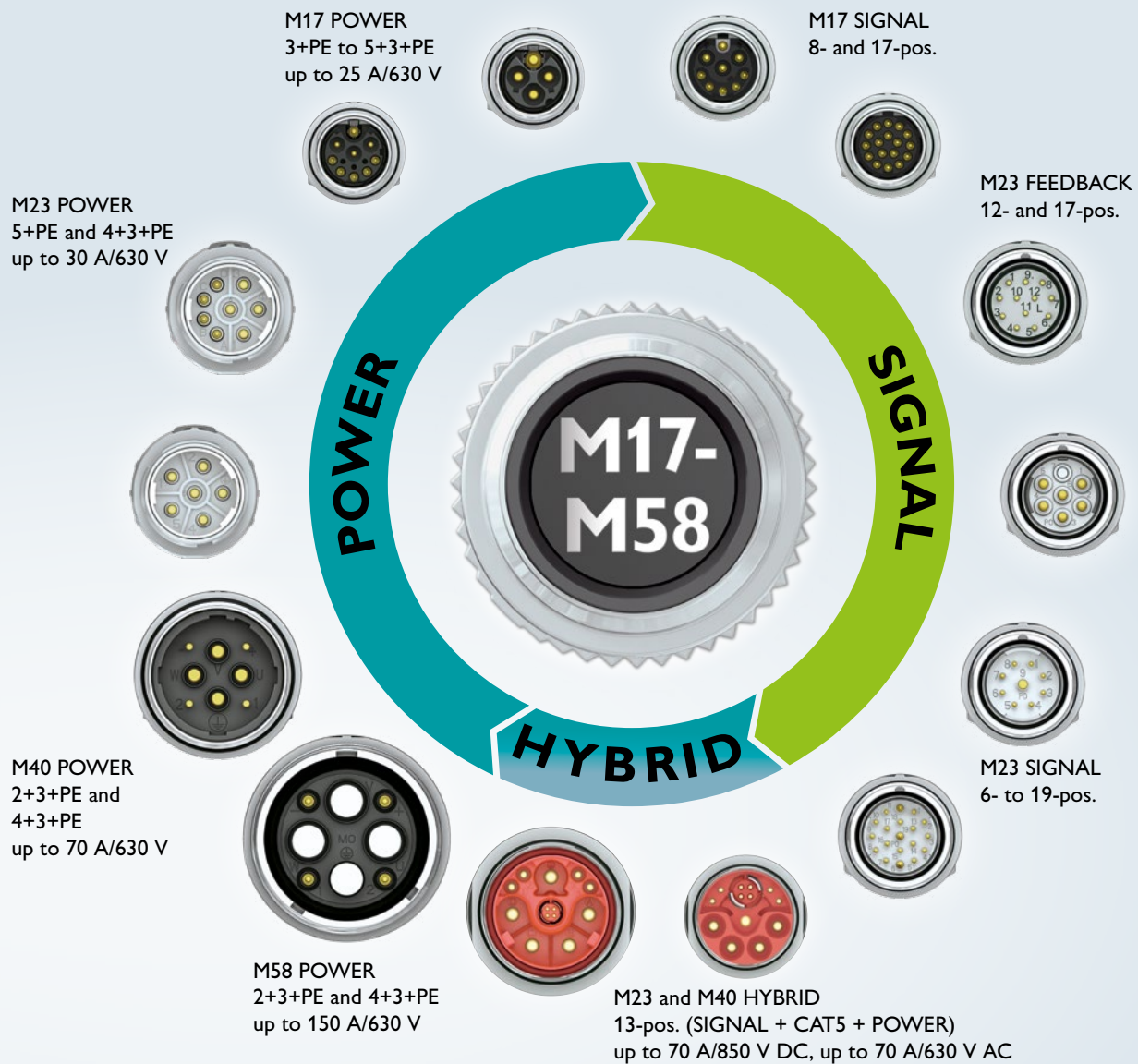
You will find items that comply with the future EU directive and have a maximum lead content of 0.1% on our website via the standard item, using the filter “Lead content (EU-RoHS) – lead-free (Pb < 0.1%)”, or by entering the respective web code in the search field.

i Web code: #2904



Wide range of pin assignments

Consistent solutions for signal, data, and power transmission



Compact device connection

Straight front or rear mounting and angled, rotatable with infinitely variable adjustment of the outlet direction



Flexible cable connection

Cable and coupler connectors for secure cable assembly



Easy cabling

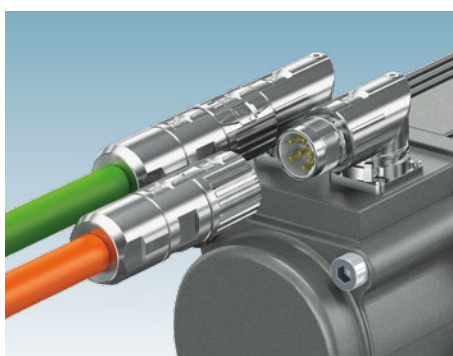
Preassembled cables in straight and angled design with signal, power, and hybrid pin assignments

Cross-manufacturer compatible connectors – M17 to M40 PRO

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



i Web code:
#2054



Available worldwide

Cross-manufacturer compatible solutions for standard and fast-locking systems

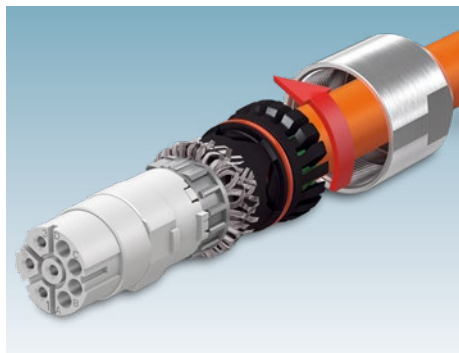
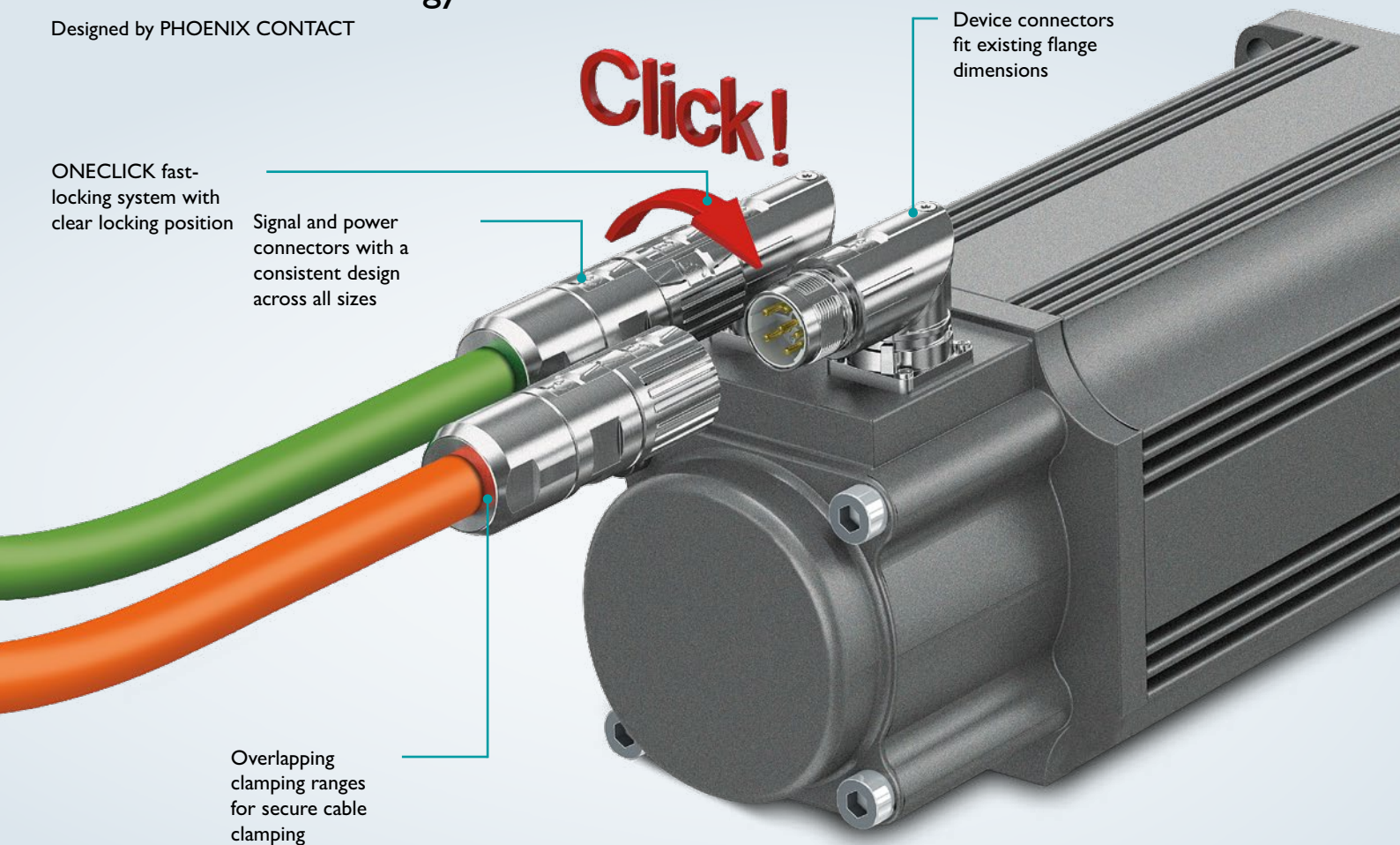


Secure locking

ONECLICK fast-locking system with an optically, haptically, and acoustically clear locking position

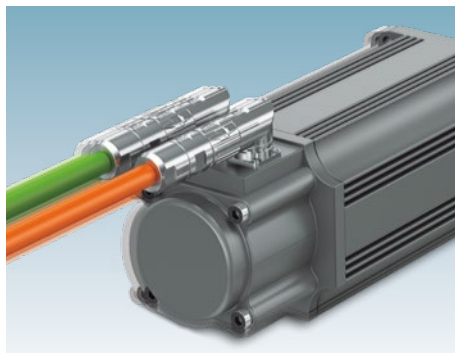
ONECLICK Technology

Designed by PHOENIX CONTACT



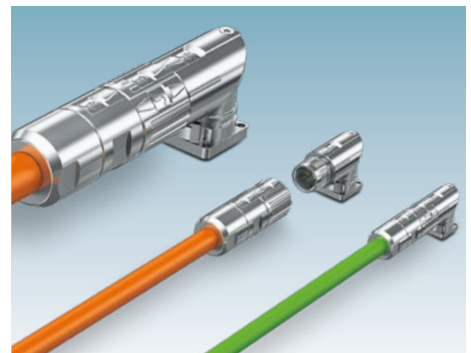
Designed for easy assembly

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



Consistent design

Modern, consistent design for highly convenient operation

Page navigation

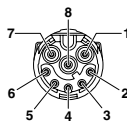
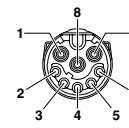
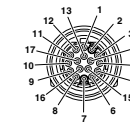
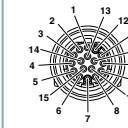
M17 to M58 circular connectors										
Design	Size	Number of positions	6	7	8	8+1	12	12 reverse	16	17
Cable connectors, cross-manufacturer compatible, ONECLICK fast-locking system										
	M17 PRO	–	–	10	–	–	–	–	–	10
	M23 PRO	12	12	–	12	12	12	12	–	12
Cable connectors, cross-manufacturer compatible, standard locking										
	M17 PRO	–	–	10	–	–	–	–	–	10
	M23 PRO	12	12	–	12	12	12	12	–	12
Coupler connectors, cross-manufacturer compatible										
	M17 PRO	–	–	10	–	–	–	–	–	10
	M23 PRO	12	12	–	12	12	12	12	–	12
Device connectors, cross-manufacturer compatible										
	M17 PRO, straight	–	–	10	–	–	–	–	–	10
	M17 PRO, angled, rotatable	–	–	10	–	–	–	–	–	10
	M23 PRO, straight	14	14	–	14	14	–	–	–	14
	M23 PRO, angled, rotatable	14	14	–	14	14	14	–	–	14
Cable connectors, SPEEDCON fast-locking system										
	M23	–	–	–	–	–	–	–	–	–
	M40	–	–	–	–	–	–	–	–	–
Cable connectors, standard locking										
	M17	–	–	30	–	–	–	–	–	30
	M23	32	32	–	32	32	–	–	32	32
	M23 angled	32	32	–	32	32	–	–	32	32
	M40	–	–	–	–	–	–	–	–	–
	M58	–	–	–	–	–	–	–	–	–
Coupler connectors										
	M17	–	–	30	–	–	–	–	–	30
	M23	32	32	–	32	32	–	–	32	32
	M40	–	–	–	–	–	–	–	–	–
	M58	–	–	–	–	–	–	–	–	–
Panel feed-throughs										
	M23	–	–	–	–	–	–	–	–	–
Device connectors										
	M17, straight	–	–	31	–	–	–	–	–	31
	M17, angled, rotatable	–	–	31	–	–	–	–	–	31
	M23, straight	34	34	–	34	34	–	–	34	34
	M23, angled, rotatable	34	34	–	34	34	–	–	34	34
	M40, straight	–	–	–	–	–	–	–	–	–
	M40, angled, rotatable	–	–	–	–	–	–	–	–	–
	M17	–	–	–	–	–	–	–	–	62
	M23	–	–	–	–	62	62	–	–	62
	M23 angled	–	–	–	–	62	62	–	–	62

 SIGNAL

 HYBRID

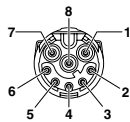
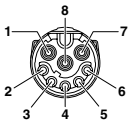
 POWER

 16+3 16+2+PE	 4+4+4+PE CAT5	 8+4+PE Signal	 3+PE	 5+PE	 2+3+PE	 6+PE	 7+PE	 4+3+PE	 5+3+PE
–	–	–	20	20	–	20	20	–	20
12	–	–	–	26	–	–	–	26	–
–	–	–	20	20	–	20	20	–	20
12	–	–	–	26	–	–	–	26	–
–	–	–	20	20	–	20	20	–	20
12	–	–	–	26	–	–	–	26	–
–	–	–	20	20	–	20	20	–	20
12	–	–	–	26	–	–	–	26	–
–	–	–	20	20	–	20	20	–	20
12	–	–	–	26	–	–	–	26	–
–	–	–	20	20	–	20	20	–	20
–	–	–	20	20	–	20	20	–	20
14	–	–	–	27	–	–	–	27	–
–	–	–	–	27	–	–	–	27	–
–	38	38	–	–	–	–	–	–	–
–	40	–	–	–	–	–	–	–	–
–	–	–	44	44	–	44	44	–	44
32	38	38	–	46	–	–	–	46	–
32	–	–	–	–	–	–	–	–	–
–	–	–	–	–	48	–	–	48	–
–	–	–	–	–	50	–	–	50	–
–	–	–	44	44	–	44	44	–	44
32	38	38	–	46	–	–	–	46	–
–	–	–	–	–	48	–	–	48	–
–	–	–	–	–	50	–	–	50	–
–	–	–	–	47	–	–	–	47	–
–	–	–	44	44	–	44	44	–	44
–	–	–	44	44	–	44	44	–	44
34	39	39	–	47	–	–	–	47	–
34	39	39	–	47	–	–	–	47	–
–	40	–	–	–	48	–	–	48	–
–	40	–	–	–	48	–	–	48	–
–	–	–	–	–	50	–	–	50	–
–	–	–	66	66	–	–	66	–	–
–	64	–	68	68	–	–	–	68	–
–	64	–	–	70	–	–	–	70	–

M17 PRO series			8-pos.		17-pos.	
Web code: #2068 new RoHS Pb < 0,1% Items are lead-free (RoHS II without Exemption 6c)	Connection method		Crimp		Crimp	
	Rated voltage [V AC/DC]		60		60	
	Rated current ¹⁾ [A]		8		3.6	
	Number of contacts/diameter [mm]		8 x 1.0		17 x 0.6	
	Litz wire cross-sections [mm²]		0.06 ... 1.0		0.06 ... 0.5	
	Pin assignment		Male	Female	Male	Female
						
Cable connectors, ONECLICK fast-locking system						
	Cable clamping range [mm]	3.5 ... 6.5	1629016	1629013	1629010	1629007
		5.5 ... 9.5	1629015	1629012	1629009	1629006
		8.5 ... 12	1629014	1629011	1629008	1629005
ONECLICK Technology [®] Designed by PHOENIX CONTACT						
Cable connectors, standard locking						
	Cable clamping range [mm]	3.5 ... 6.5	1629058	1629055	1629052	1629049
		5.5 ... 9.5	1629057	1629054	1629051	1629048
		8.5 ... 12	1629056	1629053	1629050	1629047
Coupler connectors						
	Cable clamping range [mm]	3.5 ... 6.5	1628974	1628971	1628968	1628965
		5.5 ... 9.5	1628973	1628970	1628967	1628964
		8.5 ... 12	1628972	1628969	1628966	1628963
Device connectors, front mounting						
	Flange dimensions: 26 mm x 26 mm Mounting holes: 4 x Ø 3.2 mm		1628932	1628931	1628928	1628927
	Flange dimensions: 28 mm x 28 mm Mounting holes: 4 x Ø 3.2 mm		1628930	1628929	1628926	1628925
Device connectors, angled, rotatable, front mounting						
	Flange dimensions: 26 mm x 26 mm Mounting holes: 4 x Ø 3.2 mm		1628527	1628526	1628523	1628522
	Flange dimensions: 28 mm x 28 mm Mounting holes: 4 x Ø 3.2 mm		1628525	1628524	1628521	1628520

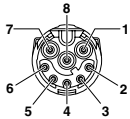
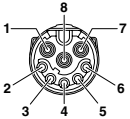
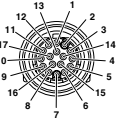
¹⁾ Rated current for maximum connection cross-section.

The cable clamping ranges specified may vary depending on the cable material and cable design. The user is responsible for selection and testing. Please order crimp contacts separately, see table on the right.

M17 PRO series crimp contacts				8-pos.		17-pos.	
RoHS Lead-free crimp contacts available, see below	Connection method		Crimp		Crimp		
	Rated voltage [V AC/DC]		60		60		
	Rated current ¹⁾ [A]		8		3.6		
	Number of contacts/diameter [mm]		8 x 1.0		17 x 0.6		
	Litz wire cross-sections [mm²]		0.06 ... 1.0		0.06 ... 0.5		
	Pin assignment		Male	Female	Male	Female	
							
Crimp contacts, turned, Ø 0.6 mm							
		Crimp range [mm²]	0.06 ... 0.25	—	—	1607577	1607580
			0.14 ... 0.34	—	—	1607578	1607581
			0.34 ... 0.50	—	—	1607579	1607582
Crimp contacts, turned, Ø 1 mm							
		Crimp range [mm²]	0.06 ... 0.25	1618255	1618239	—	—
			0.25 ... 1.00	1618458	1618464	—	—

¹⁾ Rated current for maximum connection cross-section.

Please order crimp contacts separately. For crimping tools as accessories for contacts, go to phoenixcontact.com.

M17 PRO series lead-free crimp contacts				8-pos.		17-pos.	
new RoHS Pb < 0,1% Items are lead-free (RoHS II without Exemption 6c)	Connection method		Crimp		Crimp		
	Rated voltage [V AC/DC]		60		60		
	Rated current ¹⁾ [A]		8		3.6		
	Number of contacts/diameter [mm]		8 x 1.0		17 x 0.6		
	Litz wire cross-sections [mm ²]		0.06 ... 1.0		0.06 ... 0.5		
	Pin assignment		Male	Female	Male	Female	
							
Crimp contacts, turned, Ø 0.6 mm							
		Crimp range [mm ²]	0.06 ... 0.34	—	—	1242311	1242314
			0.34 ... 0.50	—	—	1242312	1242315
Crimp contacts, turned, Ø 1 mm							
		Crimp range [mm ²]	0.06 ... 1.00	1243215	1243216	—	—

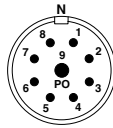
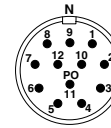
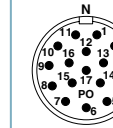
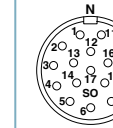
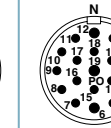
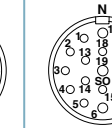
¹⁾ Rated current for maximum connection cross-section.

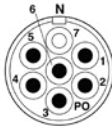
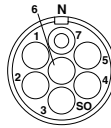
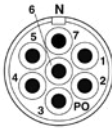
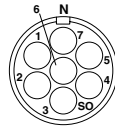
Please order crimp contacts separately. For crimping tools as accessories for contacts, go to phoenixcontact.com.

M23 PRO series			6-pos.		7-pos.			
Web code: #2068 new RoHS Pb < 0,1% Items are lead-free (RoHS II without Exemption 6c)	Connection method		Crimp, solder		Crimp, solder			
	Rated voltage [V AC/DC]		300		300			
	Rated current ¹⁾ [A]		20		20			
	Number of contacts/diameter [mm]		6 x 2.0		7 x 2.0			
	Litz wire cross-sections [mm²]		0.06 ... 2.5		0.06 ... 2.5			
	Pin assignment		Male	Female	Male	Female		
Cable connectors, ONECLICK fast-locking system								
	Cable clamping range Solder connection	[mm]	3 ... 15	1341720	1341726	1341731	1341737	
			4 ... 8.5	1341715	1341722	1341727	1341733	
		ONECLICK Technology [®] Designed by PHOENIX CONTACT		6 ... 10	1341718	1341723	1341728	1341734
				9 ... 15	1341719	1341724	1341729	1341735
	Cable clamping range Crimp connection	[mm]	3 ... 15	1629188	1629184	1629176	1629180	
			4 ... 8.5	1629191	1629187	1629179	1629183	
		ONECLICK Technology [®] Designed by PHOENIX CONTACT		6 ... 10	1629190	1629186	1629178	1629182
				9 ... 15	1629189	1629185	1629177	1629181
Cable connectors, standard locking								
	Cable clamping range Solder connection	[mm]	3 ... 15	1340661	1340669	1340674	1340681	
			4 ... 8.5	1340657	1340663	1340670	1340675	
			6 ... 10	1340658	1340665	1340672	1340675	
			9 ... 15	1340659	1340667	1340673	1340679	
	Cable clamping range Crimp connection	[mm]	3 ... 15	1629232	1629236	1629224	1629228	
			4 ... 8.5	1629235	1629239	1629227	1629231	
			6 ... 10	1629234	1629238	1629226	1629230	
			9 ... 15	1629233	1629237	1629225	1629229	
Coupler connectors								
	Cable clamping range Solder connection	[mm]	3 ... 15	1467190	1467199	1467430	1467435	
			4 ... 8.5	1467180	1467191	1467426	1467432	
			6 ... 10	1467181	1467193	1467428	1467433	
			9 ... 15	1467187	1467197	1467429	1467434	
	Cable clamping range Crimp connection	[mm]	3 ... 15	1629140	1629136	1629128	1629132	
			4 ... 8.5	1629143	1629139	1629131	1629135	
			6 ... 10	1629142	1629138	1629130	1629134	
			9 ... 15	1629141	1629137	1629129	1629133	

²⁾ 16+2+PE for 19-pos. crimp connection.

The cable clamping ranges specified may vary depending on the cable material and cable design. The user is responsible for selection and testing. For crimp connection: Please order crimp contacts separately, more information starting on page 16.

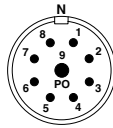
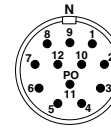
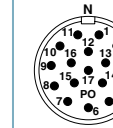
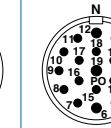
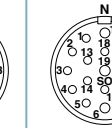
■ 9(8+1)-pos.		■ 12-pos.		■ 12-pos. reverse		■ 17-pos.		■ 19(16+3)-pos. 2)	
Crimp, solder		Crimp, solder		Crimp, solder		Crimp, solder		Crimp, solder	
300		150		150		125		150	
8 / 20		8		8		8		8 / 10	
8 x 1.0 / 1 x 2.0		12 x 1.0		12 x 1.0		17 x 1.0		16 x 1.0 / 3 x 1.5	
0.08 ... 1.0 / 0.06 ... 2.5		0.08 ... 1.0		0.08 ... 1.0		0.08 ... 1.0		0.08 ... 1.0 / 0.08 ... 1.0	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
									
1342194	1342198	1342202	1342207	1543937	1543942	1342724	1342728	1342732	1342739
1342191	1342195	1342199	1342203	1543933	1543938	1342720	1342725	1342729	1342733
1342192	1342196	1342200	1342205	1543934	1543940	1342722	1342726	1342730	1342734
1342193	1342197	1342201	1342206	1543936	1543941	1342723	1342727	1342731	1342735
1629168	1629172	1629160	1629164	1069326	1069322	1629152	1629156	1629144	1629148
1629171	1629175	1629163	1629167	1069323	1069319	1629155	1629159	1629147	1629151
1629170	1629174	1629162	1629166	1069324	1069320	1629154	1629158	1629146	1629150
1629169	1629173	1629161	1629165	1069325	1069321	1629153	1629157	1629145	1629149
1340685	1340690	1340694	1340703	1543928	1543932	1341224	1341228	1341232	1341236
1340682	1340686	1340691	1340695	1543925	1543929	1341221	1341225	1341229	1341233
1340683	1340688	1340692	1340696	1543926	1543930	1341222	1341226	1341230	1341234
1340684	1340689	1340693	1340700	1543927	1543931	1341223	1341227	1341231	1341235
1629216	1629220	1629208	1629212	1069317	1069313	1629200	1629204	1629192	1629196
1629219	1629223	1629211	1629215	1069314	1069309	1629203	1629207	1629195	1629199
1629218	1629222	1629210	1629214	1069315	1069311	1629202	1629206	1629194	1629198
1629217	1629221	1629209	1629213	1069316	1069312	1629201	1629205	1629193	1629197
1467235	1467246	1467144	1467148	1543945	1543950	1467459	1467463	1467481	1467486
1467232	1467239	1467140	1467145	1543943	1543946	1467456	1467460	1467476	1467482
1467233	1467242	1467142	1467146	1473127	1543947	1467457	1467461	1467479	1467483
1467234	1467244	1467143	1467147	1543944	1543949	1467458	1467462	1467480	1467484
1629120	1629124	1629112	1629116	1329285	1329277	1629104	1629108	1629096	1629100
1629123	1629127	1629115	1629119	1329282	1329272	1629107	1629111	1629099	1629103
1629122	1629126	1629114	1629118	1329283	1329274	1629106	1629110	1629098	1629102
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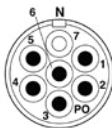
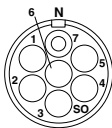
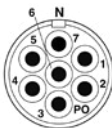
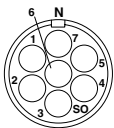
M23 PRO series		6-pos.	7-pos.		
Web code: #2068 new RoHS Pb < 0,1% Items are lead-free (RoHS II without Exemption 6c)	Connection method	Crimp, solder		Crimp, solder	
	Rated voltage [V AC/DC]	300		300	
	Rated current ¹⁾ [A]	20		20	
	Number of contacts/diameter [mm]	6 x 2.0		7 x 2.0	
	Litz wire cross-sections [mm²]	0.06 ... 2.5		0.06 ... 2.5	
	Pin assignment	Male	Female	Male	Female
					
Device connectors, straight, front mounting					
	Solder connection, flange dimensions: 26 mm x 26 mm Mounting holes: 4 x Ø 2.7 mm	1339315	1339317	1339319	1339322
	Solder connection, flange dimensions: 26 mm x 26 mm Mounting holes: 4 x Ø 3.2 mm	1339314	1339316	1339318	1339321
	Solder connection, flange dimensions: 28 mm x 28 mm Mounting holes: 4 x Ø 3.2 mm	—	—	—	—
	Crimp connection, flange dimensions: 26 mm x 26 mm Mounting holes: 4 x Ø 2.7 mm	1132736	1132558	1132738	1132737
	Crimp connection, flange dimensions: 26 mm x 26 mm Mounting holes: 4 x Ø 3.2 mm	1629095	1629094	1629092	1629093
	Crimp connection, flange dimensions: 28 mm x 28 mm Mounting holes: 4 x Ø 3.2 mm	—	—	—	—
Device connectors, angled, rotatable, front mounting					
	Crimp connection, flange dimensions: 26 mm x 26 mm Mounting holes: 4 x Ø 3.2 mm	1341925	1341926	1341927	1341929
	Crimp connection, flange dimensions: 28 mm x 28 mm Mounting holes: 4 x Ø 3.2 mm	1341934	1341933	1341935	1341948

¹⁾ Rated current for maximum connection cross-section.

²⁾ 16+2+PE for 19-pos. crimp connection.

For crimp connection: Please order crimp contacts separately, more information starting on page 16.

■ 9(8+1)-pos.		■ 12-pos.		■ 12-pos. reverse		■ 17-pos.		■ 19(16+3)-pos. ²⁾	
Crimp, solder		Crimp, solder		Crimp		Crimp, solder		Crimp, solder	
300		150		150		125		150	
8 / 20		8		8		8		8 / 10	
8 x 1.0 / 1 x 2.0		12 x 1.0		12 x 1.0		17 x 1.0		16 x 1.0 / 3 x 1.5	
0.08 ... 1.0 / 0.06 ... 2.5		0.08 ... 1.0		0.08 ... 1.0		0.08 ... 1.0		0.08 ... 1.0 / 0.08 ... 1.0	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
									
1339324	1339326	1339330	1339333	1543921	1543924	1339336	1339339	—	—
1339323	1339325	1339327	1320259	1543918	1543917	1339334	1339337	1339340	1339341
—	—	1339329	1339332	1543920	1543923	1339335	1339338	—	—
1132741	1132740	1132744	1132742	1329289	1329280	1132747	1132745	—	—
1629090	1629091	1629088	1629089	1329286	1329278	1629086	1629087	1629084	1629085
—	—	1629082	1629083	1329288	1329279	1629080	1629081	—	—
1341930	1341932	1628498	1628499	1069328	1069327	1628496	1628497	—	—
1341950	1341949	1628494	1628495	1069330	1069329	1628492	1628493	—	—

M23 PRO series crimp contacts				6-pos.		7-pos.	
RoHS Lead-free crimp contacts available, more information starting on page 18	Connection method			Crimp		Crimp	
	Rated voltage [V AC/DC]			300		300	
	Rated current ¹⁾ [A]			20		20	
	Number of contacts/diameter [mm]			6 x 2.0		7 x 2.0	
	Litz wire cross-sections [mm²]			0.5 ... 2.5		0.5 ... 2.5	
	Pin assignment			Male	Female	Male	Female
							
Crimp contacts, turned, Ø 1 mm							
	Crimp range [mm²]	0.08 ... 0.22	—	—	—	—	
		0.14 ... 0.56	—	—	—	—	
		0.5 ... 1.0	—	—	—	—	
Crimp contacts, rolled, Ø 1 mm							
	Crimp range [mm²]						
	Roll of 500 pcs.	0.08 ... 0.22	—	—	—	—	
	Roll of 10000 pcs.	0.08 ... 0.22					
	Roll of 500 pcs.	0.22 ... 0.56	—	—	—	—	
	Roll of 10000 pcs.	0.22 ... 0.56	—	—	—	—	
Crimp contacts, turned, Ø 1.5 mm							
	Crimp range [mm²]	0.08 ... 0.22	—	—	—	—	
		0.14 ... 0.56	—	—	—	—	
		0.5 ... 1.0	—	—	—	—	
	Leading contact	0.5 ... 1.0	—	—	—	—	
Crimp contacts, turned, Ø 2 mm							
	Crimp range [mm²]	0.5 ... 0.75	1603529	1603530	1603529	1603530	
		0.75 ... 1.0	1603498	1603501	1603498	1603501	
		1.0 ... 1.5	1603513	1603517	1603513	1603517	
		1.5 ... 2.5	1603505	1603509	1603505	1603509	

¹⁾ Rated current for maximum connection cross-section.

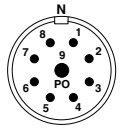
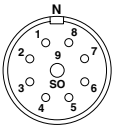
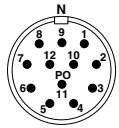
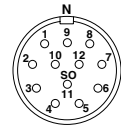
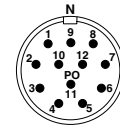
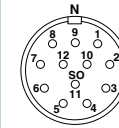
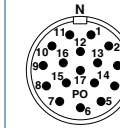
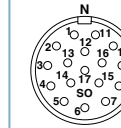
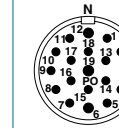
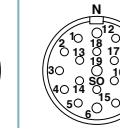
Please order crimp contacts separately. For crimping tools as accessories for contacts, go to phoenixcontact.com.

■ 9(8+1)-pos.		■ 12-pos.		■ 12-pos. reverse		■ 17-pos.		■ 19(16+2+PE)- pos.	
Crimp		Crimp		Crimp		Crimp		Crimp	
300		150		150		125		150	
8 / 20		8		8		8		8 / 10	
8 x 1.0 / 1 x 2.0		12 x 1.0		12 x 1.0		17 x 1.0		16 x 1.0 / 3 x 1.5	
0.08 ... 1.0 / 0.5 ... 2.5		0.08 ... 1.0		0.08 ... 1.0		0.08 ... 1.0		0.08 ... 1.0 / 0.5 ... 1.0	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1596770	1596772	1596770	1596772	1596770	1596772	1596770	1596772	1623776	1596772
1597862	1599600	1597862	1599600	1597862	1599600	1597862	1599600	1623777	1599600
1602996	1602998	1602996	1602998	1602996	1602998	1602996	1602998	1623778	1602998
1603313	1603318	1603313	1603318	1603313	1603318	1603313	1603318	–	1603318
1611637	1616500	1611637	1616500	1611637	1616500	1611637	1616500	–	1616500
1603324	1603330	1603324	1603330	1603324	1603330	1603324	1603330	–	1603330
1603325	1603332	1603325	1603332	1603325	1603332	1603325	1603332	–	1603332
–	–	–	–	–	–	–	–	1627292	1627290
–	–	–	–	–	–	–	–	1627291	–
–	–	–	–	–	–	–	–	1623779	1623775
–	–	–	–	–	–	–	–	1623780	–
1603529	1603530	–	–	–	–	–	–	–	–
1603498	1603501	–	–	–	–	–	–	–	–
1603513	1603517	–	–	–	–	–	–	–	–
1603505	1603509	–	–	–	–	–	–	–	–

M23 PRO series lead-free crimp contacts				6-pos.		7-pos.	
new RoHS Pb < 0,1% Items are lead-free (RoHS II without Exemption 6c)	Connection method			Crimp		Crimp	
	Rated voltage [V AC/DC]			300		300	
	Rated current ¹⁾ [A]			20		20	
	Number of contacts/diameter [mm]			6 x 2.0		7 x 2.0	
	Litz wire cross-sections [mm²]			0.06 ... 2.5		0.06 ... 2.5	
	Pin assignment			Male	Female	Male	Female
Crimp contacts, turned, Ø 1 mm							
	Crimp range [mm²]	0.08 ... 0.56	—	—	—	—	
		0.75 ... 1.0	—	—	—	—	
Crimp contacts, rolled, Ø 1 mm							
	Crimp range [mm²]						
	Roll of 500 pcs.	0.08 ... 0.22	—	—	—	—	
	Roll of 10000 pcs.	0.08 ... 0.22					
	Roll of 500 pcs.	0.22 ... 0.56	—	—	—	—	
	Roll of 10000 pcs.	0.22 ... 0.56	—	—	—	—	
Crimp contacts, turned, Ø 1.5 mm							
	Crimp range [mm²]	0.08 ... 0.56	—	—	—	—	
		0.75 ... 1.0	—	—	—	—	
	Leading contact	0.75 ... 1.0	—	—	—	—	
Crimp contacts, turned, Ø 2 mm							
	Crimp range [mm²]	0.06 ... 1.0	1241632	1241633	1241632	1241633	
		0.75 ... 2.5	1241634	1241635	1241634	1241635	

¹⁾ Rated current for maximum connection cross-section.

Please order crimp contacts separately. For crimping tools as accessories for contacts, go to phoenixcontact.com.

■ 9(8+1)-pos.		■ 12-pos.		■ 12-pos. reverse		■ 17-pos.		■ 19(16+2+PE)- pos.	
Crimp		Crimp		Crimp		Crimp		Crimp	
300		150		150		125		150	
8 / 20		8		8		8		8 / 10	
8 x 1.0 / 1 x 2.0		12 x 1.0		12 x 1.0		17 x 1.0		16 x 1.0 / 3 x 1.5	
0.08 ... 1.0 / 0.06 ... 2.5		0.08 ... 1.0		0.08 ... 1.0		0.08 ... 1.0		0.08 ... 1.0 / 0.08 ... 1.0	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
									
1240882	1241093	1240882	1241093	1240882	1241093	1240882	1241093	1244971	1241093
1241571	1241572	1241571	1241572	1241571	1241572	1241571	1241572	1244972	1241572
1603313	1603318	1603313	1603318	1603313	1603318	1603313	1603318	—	1603318
1611637	1616500	1611637	1616500	1611637	1616500	1611637	1616500	—	1616500
1603324	1603330	1603324	1603330	1603324	1603330	1603324	1603330	—	1603330
1603325	1603332	1603325	1603332	1603325	1603332	1603325	1603332	—	1603332
—	—	—	—	—	—	—	—	1245475	1245474
—	—	—	—	—	—	—	—	1244973	1244969
—	—	—	—	—	—	—	—	1244974	—
1241632	1241633	—	—	—	—	—	—	—	—
1241634	1241635	—	—	—	—	—	—	—	—

M17 PRO series			4(3+PE)-pos.	
Web code: #2067 new RoHS Pb < 0,1% Items are lead-free (RoHS II without Exemption 6c)	Connection method		Crimp	
	Rated voltage [V AC/DC]		630	
	Rated current ¹⁾ [A]		20	
	Number of contacts/diameter [mm]		4 x 1.5	
	Litz wire cross-sections [mm²]		0.25 ... 2.5	
	Pin assignment		Male	Female
				
Cable connectors, ONECLICK fast-locking system				
	Cable clamping range [mm]	3.5 ... 6.5	1069487	1069490
		5.5 ... 9.5	1069488	1069491
		8.5 ... 12	1069489	1069492
ONECLICK Technology [®] Designed by PHOENIX CONTACT				
Cable connectors, standard locking				
	Cable clamping range [mm]	3.5 ... 6.5	1069481	1069484
		5.5 ... 9.5	1069482	1069485
		8.5 ... 12	1069483	1069486
Coupler connectors				
	Cable clamping range [mm]	3.5 ... 6.5	1069495	1069498
		5.5 ... 9.5	1069496	1069499
		8.5 ... 12	1069497	1069509
Device connectors, front mounting				
	Flange dimensions: 26 mm x 26 mm Mounting holes: 4 x Ø 3.2 mm		1069502	1069500
	Flange dimensions: 28 mm x 28 mm Mounting holes: 4 x Ø 3.2 mm		1069503	1069504
Device connectors, angled, rotatable, front mounting				
	Flange dimensions: 26 mm x 26 mm Mounting holes: 4 x Ø 3.2 mm		1069505	1069506
	Flange dimensions: 28 mm x 28 mm Mounting holes: 4 x Ø 3.2 mm		1069507	1069508

¹⁾ Rated current for maximum connection cross-section.
 The cable clamping ranges specified may vary depending on the cable material and cable design. The user is responsible for selection and testing.
 Please order crimp contacts, more information starting on page 22.

6(5+PE)-pos.		7(6+PE)-pos.		8(7+PE)-pos.		9(5+3+PE)-pos.	
Crimp		Crimp		Crimp		Crimp	
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	
Male	Female	Male	Female	Male	Female	Male	Female
							
1628998	1628995	1628992	1628989	1628986	1628983	1628980	1628977
1628997	1628994	1628991	1628988	1628985	1628982	1628979	1628976
1628996	1628993	1628990	1628987	1628984	1628981	1628978	1628975
1629040	1629037	1629034	1629031	1629028	1629025	1629022	1629019
1629039	1629036	1629033	1629030	1629027	1629024	1629021	1629018
1629038	1629035	1629032	1629029	1629026	1629023	1629020	1629017
1628956	1628953	1628950	1628947	1628944	1628941	1628938	1628935
1628955	1628952	1628949	1628946	1628943	1628940	1628937	1628934
1628954	1628951	1628948	1628945	1628942	1628939	1628936	1628933
1628920	1628919	1628916	1628915	1628912	1628911	1628908	1628907
1628918	1628917	1628914	1628913	1628910	1628909	1628906	1628905
1628515	1628514	1628511	1628510	1628507	1628506	1628503	1628502
1628513	1628512	1628509	1628508	1628505	1628504	1628501	1628500

M17 PRO series crimp contacts				4(3+PE)-pos.	
RoHS Lead-free crimp contacts available, more information starting on page 24	Connection method		Crimp		
	Rated voltage		[V AC/DC]	630	
	Rated current ¹⁾		[A]	25 / 20	
	Number of contacts/diameter		[mm]	4 x 1.5	
	Litz wire cross-sections		[mm²]	0.25 ... 2.5	
	Pin assignment			Male	Female
					
Crimp contacts, turned, Ø 0.6 mm					
	Crimp range	[mm²]	0.06 ... 0.25	—	—
			0.14 ... 0.34	—	—
			0.34 ... 0.50	—	—
Crimp contacts, turned, Ø 1 mm					
	Crimp range	[mm²]	0.06 ... 0.25	—	—
			0.25 ... 1.00	—	—
Crimp contacts, turned, Ø 1.5 mm					
	For 3+PE-pos. version With contact diameter 1.5 mm Crimp range	[mm²]	0.25 ... 2.50	1213852	1213854

¹⁾ Rated current for maximum connection cross-section.
Please order crimp contacts separately. For crimping tools as accessories for contacts, go to phoenixcontact.com.

■ 6(5+PE)-pos.		■ 7(6+PE)-pos.		■ 8(7+PE)-pos.		■ 9(5+3+PE)-pos.	
Crimp		Crimp		Crimp		Crimp	
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	
Male	Female	Male	Female	Male	Female	Male	Female
							
–	–	–	–	–	–	1607577	1607580
–	–	–	–	–	–	1607578	1607581
–	–	–	–	–	–	1607579	1607582
1618255	1618239	1618255	1618239	1618255	1618239	1618255	1618239
1618458	1618464	1618458	1618464	1618458	1618464	1618458	1618464
–	–	–	–	–	–	–	–

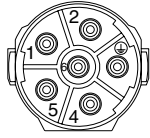
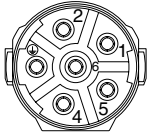
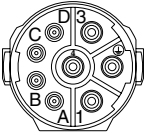
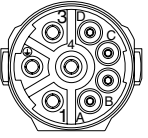
M17 PRO series lead-free crimp contacts				4(3+PE)-pos.	
new RoHS Pb < 0,1% Items are lead-free (RoHS II without Exemption 6c)	Connection method		Crimp		
	Rated voltage [V AC/DC]		630		
	Rated current ¹⁾ [A]		25 / 20		
	Number of contacts/diameter [mm]		4 x 1.5		
	Litz wire cross-sections [mm²]		0.25 ... 2.5		
	Pin assignment		Male		Female
					
Crimp contacts, turned, Ø 0.6 mm					
	Crimp range [mm²]	0.06 ... 0.34	–	–	
		0.34 ... 0.50	–	–	
Crimp contacts, turned, Ø 1 mm					
	Crimp range [mm²]	0.06 ... 1.00	–	–	
Crimp contacts, turned, Ø 1.5 mm					
	For 3+PE-pos. version With contact diameter 1.5 mm Crimp range [mm²]	0.25 ... 2.50	1213852	1213854	

¹⁾ Rated current for maximum connection cross-section.
Please order crimp contacts separately. For crimping tools as accessories for contacts, go to phoenixcontact.com.

■ 6(5+PE)-pos.		■ 7(6+PE)-pos.		■ 8(7+PE)-pos.		■ 9(5+3+PE)-pos.	
Crimp		Crimp		Crimp		Crimp	
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	
Male	Female	Male	Female	Male	Female	Male	Female
							
–	–	–	–	–	–	1242311	1242314
–	–	–	–	–	–	1242312	1242315
1243215	1243216	1243215	1243216	1243215	1243216	1243215	1243216
–	–	–	–	–	–	–	–

M23 PRO series				6(5+PE)-pos.		8(4+3+PE)-pos.	
Web code: #2067 new RoHS Pb < 0,1% Items are lead-free (RoHS II without Exemption 6c)	Connection method			Crimp		Crimp	
	Rated voltage [V AC/DC]			630		250 / 630	
	Rated current ¹⁾ [A]			30		9 / 30	
	Number of contacts/diameter [mm]			6 x 2		4 x 1 / 4 x 2	
	Litz wire cross-sections [mm²]			0.25 ... 4.0		0.06 ... 1.0 / 0.25 ... 4.0	
	Pin assignment			Male	Female	Male	Female
Cable connectors, ONECLICK fast-locking system							
	Cable clamping range [mm] Short version Cable Ø 5.5 mm ... 14.5 mm ONECLICK Technology [®] Designed by PHOENIX CONTACT	5.5 ... 15	1628871	1628815	1628867	1628811	
		5.5 ... 8	1628874	1628818	1628869	1628813	
		7.5 ... 12	1628873	1628817	1628870	1628814	
		9.5 ... 14.5	1628872	1628816	1628868	1628812	
	Cable clamping range [mm] Long version Cable Ø 5.5 mm ... 17 mm ONECLICK Technology [®] Designed by PHOENIX CONTACT	7.5 ... 17	1628852	1628796	1628847	1628791	
		5.5 ... 8	1628856	1628800	1628850	1628795	
		7.5 ... 12	1628855	1628799	1628851	1628794	
		9.5 ... 14.5	1628854	1628798	1628849	1628793	
		14 ... 17	1628853	1628797	1628848	1628792	
Cable connectors, standard locking							
	Cable clamping range [mm] Short version Cable Ø 5.5 mm ... 14.5 mm	5.5 ... 15	1628879	1628823	1628875	1628819	
		5.5 ... 8	1628882	1628826	1628878	1628822	
		7.5 ... 12	1628881	1628825	1628877	1628821	
		9.5 ... 14.5	1628880	1628824	1628876	1628820	
	Cable clamping range [mm] Long version Cable Ø 5.5 mm ... 17 mm	7.5 ... 17	1628862	1628806	1628857	1628801	
		5.5 ... 8	1628866	1628810	1628861	1628805	
		7.5 ... 12	1628865	1628809	1628860	1628804	
		9.5 ... 14.5	1628864	1628808	1628859	1628803	
		14 ... 17	1628863	1628807	1628858	1628802	
Coupler connectors							
	Cable clamping range [mm] Cable Ø 5.5 mm ... 17 mm	5.5 ... 15	1628786	1628842	1628780	1628836	
		7.5 ... 17	1628785	1628841	1628779	1628835	
		5.5 ... 8	1628790	1628846	1628784	1628840	
		7.5 ... 12	1628789	1628845	1628783	1628839	
		9.5 ... 14.5	1628788	1628844	1628782	1628838	
		14 ... 17	1628787	1628843	1628781	1628837	

The cable clamping ranges specified may vary depending on the cable material and cable design. The user is responsible for selection and testing. Please order crimp contacts separately, see table on the right.

M23 PRO series		6(5+PE)-pos.		8(4+3+PE)-pos.	
i Web code: #2067 new RoHS Pb < 0,1% Items are lead-free (RoHS II without Exemption 6c)	Connection method	Crimp		Crimp	
	Rated voltage [V AC/DC]	630		250 / 630	
	Rated current ¹⁾ [A]	30		9 / 30	
	Number of contacts/diameter [mm]	6 x 2		4 x 1 / 4 x 2	
	Litz wire cross-sections [mm²]	0.25 ... 4.0		0.06 ... 1.0 / 0.25 ... 4.0	
	Pin assignment	Male	Female	Male	Female
					

Device connectors, straight, front mounting

	Flange dimensions: 26 mm x 26 mm Mounting holes: 4 x Ø 3.2 mm	1628778	1628834	1628777	1628833
	Flange dimensions: 28 mm x 28 mm Mounting holes: 4 x Ø 3.2 mm	1628776	1628832	1628775	1628831

Device connectors, angled, rotatable, front mounting

	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

¹⁾ Rated current for maximum connection cross-section

M23 PRO series crimp contacts			 6(5+PE)-pos.		 8(4+3+PE)-pos.		
Crimp contacts, turned, Ø 1 mm							
	Crimp range	[mm²]	0.06 ... 0.25	–	–	1618255	1618239
			0.25 ... 1.0	–	–	1618458	1618464
Crimp contacts, turned, Ø 2 mm							
	Crimp range	[mm²]	0.25 ... 1.0	1050147	1621576	1050147	1621576
			1.5 ... 2.5	1050205	1621577	1050205	1621577
			2.5 ... 4.0	1050210	1621578	1050210	1621578

M23 PRO series lead-free crimp contacts				6(5+PE)-pos.		8(4+3+PE)-pos.		
new Items are lead-free (RoHS II without Exemption 6c)								
Crimp contacts, turned, Ø 1 mm								
		Crimp range	[mm²]	0.06 ... 1.0	–	–	1243215	1243216
Crimp contacts, turned, Ø 2 mm								
		Crimp range	[mm²]	0.25 ... 2.5	1238179	1244461	1238179	1244461
				1.5 ... 4.0	1238180	1244462	1238180	1244462

Please order crimp contacts separately. For crimping tools as accessories for contacts, go to phoenixcontact.com.

M17 and M23 signal connectors

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 with plastic-molded designs.



SIGNAL

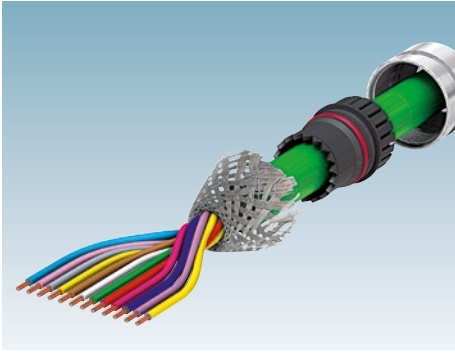
Signal connectors up to 19-pos.

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



 Web code:
#0253

Your advantages at a glance



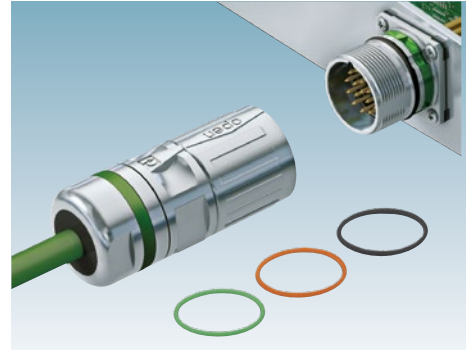
Reliable transmission

All connectors with 360° shield connection



Various connection methods

Crimp connection, solder connection, and device connectors with additional solder-in connection



Visual color coding

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



High contact density

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



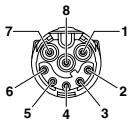
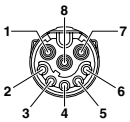
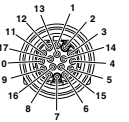
Easy mounting and removal

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



Flexible assembly

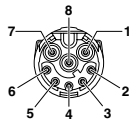
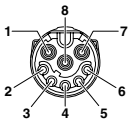
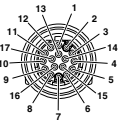
All housings can be fitted with pin or female contacts

M17			8-pos.		17-pos.	
i Web code: #0256 RoHS Lead-free alternative items available	Connection method		Crimp		Crimp	
	Rated voltage [V AC/DC]		48 / 74		48 / 74	
	Rated current ¹⁾ [A]		8		3.6	
	Number of contacts/diameter [mm]		8 x 1.0		17 x 0.6	
	Litz wire cross-sections [mm²]		0.06 ... 1.0		0.06 ... 0.5	
	Pin assignment		Male	Female	Male	Female
						
Cable connectors						
	Cable clamping range [mm]	5 ... 8	1618995	1619003	1607624	1607641
		8 ... 10	1618996	1619004	1607626	1607643
		10 ... 12.5	1618997	1619005	1624528	1624531
Coupler connectors						
	Cable clamping range [mm]	5 ... 8	1619011	1619015	1607630	1607647
		8 ... 10	1619012	1619016	1607631	1607649
		10 ... 12.5	1619013	1619017	1624530	1624533

¹⁾ Rated current for maximum connection cross-section.

The cable clamping ranges specified may vary depending on the cable material and cable design. The user is responsible for selection and testing. For color rings for individual identification of the connectors: more information starting on page 51.

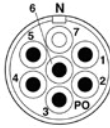
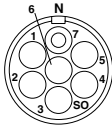
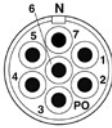
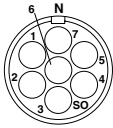
Please order crimp contacts, more information starting on page 54.

M17		8-pos.		17-pos.		
Web code: #0258 RoHS Lead-free alternative items available	Connection method	Crimp		Crimp		
	Rated voltage [V AC/DC]	48 / 74		48 / 74		
	Rated current ¹⁾ [A]	8		3.6		
	Number of contacts/diameter [mm]	8 x 1.0		17 x 0.6		
	Litz wire cross-sections [mm²]	0.06 ... 1.0		0.06 ... 0.5		
	Pin assignment	Male 	Female 	Male 	Female 	
Device connectors, front mounting						
		Flange dimensions 21.6 mm x 21.6 mm Snap-in contact insert Mounting holes: 4 x Ø 2.7 mm	1613286	1619039	1607636	1607654
		Flange dimensions 21.6 mm x 21.6 mm Contact insert for support on the device Mounting holes: 4 x Ø 2.7 mm	1619037	1619038	1607634	1607653
Device connectors, front mounting						
		Flange dimensions 25.75 mm x 25.75 mm, Snap-in contact insert Mounting holes: 4 x Ø 3.2 mm	1619219	1619220	1619225	1619226
		Flange dimensions 25.75 mm x 25.75 mm Contact insert for support on the device Mounting holes: 4 x Ø 3.2 mm	1619196	1619197	1619202	1619206
Device connectors, angled, rotatable, front mounting						
		See the M17 PRO series, more information starting on page 10.				
Device connectors, front mounting, central fastening						
		Fastening thread: M18 x 0.75 mm	1618584	1619036	1613540	1613542
		Accessories: M18 x 0.75 mm locking nut	1613831			
Device connectors, rear mounting, central fastening						
		Fastening thread: M20 x 1.5	1619034	1619035	1613541	1613543
		Accessories: M20 x 1.5 locking nut	1600417			

¹⁾ Rated current for maximum connection cross-section.

For color rings for individual identification of the connectors: more information starting on page 51.

Please order crimp contacts, more information starting on page 54.

M23 ADVANCE				6-pos.		7-pos.	
Web code: #0259 RoHS Lead-free alternative items available	Connection method			Crimp, solder		Crimp, solder	
	Rated voltage [V AC/DC]			48 / 74		48 / 74	
	Rated current ¹⁾ [A]			20		20	
	Number of contacts/diameter [mm]			6 x 2.0		7 x 2.0	
	Litz wire cross-sections [mm ²]			0.06 ... 2.5		0.06 ... 2.5	
	Pin assignment			Male	Female	Male	Female
							
Cable connectors							
	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
Cable connector, angled							
 	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
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

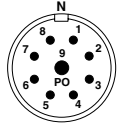
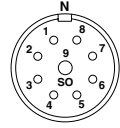
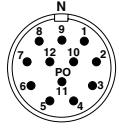
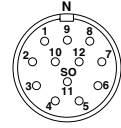
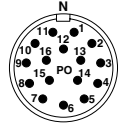
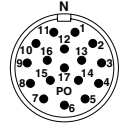
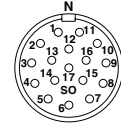
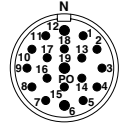
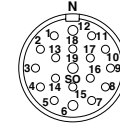
¹⁾ Rated current for maximum connection cross-section.

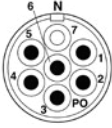
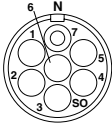
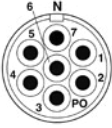
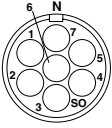
²⁾ 16+2+FE for 19-pos. crimp connection, 16+3 (without FE) available on request.

The cable clamping ranges specified may vary depending on the cable material and cable design. The user is responsible for selection and testing.

For color rings for individual identification of the connectors: more information starting on page 51.

For crimp connection: Please order crimp contacts separately, more information starting on page 54.

■ 9(8+1)-pos.		■ 12-pos.		■ 16-pos.		■ 17-pos.		■ 19(16+3)-pos. ²⁾	
Crimp, solder		Crimp, solder		Crimp, solder		Crimp, solder		Crimp, solder	
48 / 74		48 / 74		48 / 74		48 / 74		48 / 74	
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	
0.08 ... 1.0 / 0.06 ... 2.5		0.08 ... 1.0		0.08 ... 1.0		0.08 ... 1.0		0.08 ... 1.0 / 0.08 ... 1.0	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
									
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
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
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

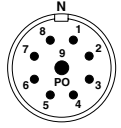
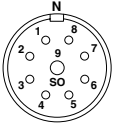
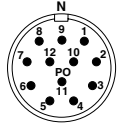
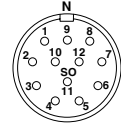
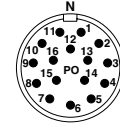
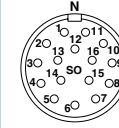
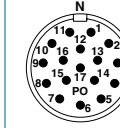
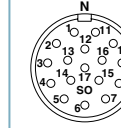
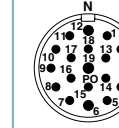
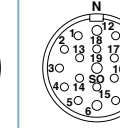
M23 ADVANCE		6-pos.		7-pos.	
 Web code: #0260 Lead-free alternative items available	Connection method	Crimp, solder, solder-in		Crimp, solder, solder-in	
	Rated voltage [V AC/DC]	48 / 74		48 / 74	
	Rated current ¹⁾ [A]	20		20	
	Number of contacts/diameter [mm]	6 x 2.0		7 x 2.0	
	Litz wire cross-sections [mm²]	0.06 ... 2.5		0.06 ... 2.5	
	Pin assignment	Male	Female	Male	Female
   					
Device connectors, front mounting, central fastening Pg13.5					
	Solder connection, axial seal	1619902	1619903	1619898	1619899
	Crimp connection, axial seal	1619900	1619901	1619896	1619897
Device connectors, front mounting, central fastening M20 x 1.5					
	Solder connection, axial seal	1619876	1619877	1619872	1619873
	Accessories: M20 x 1.5 locking nut				
	Crimp connection, axial seal	1619874	1619875	1619870	1619871
	Accessories: M20 x 1.5 locking nut				
Device connectors, front mounting, can be positioned, central fastening M20 x 1.5					
	Solder connection, axial seal	1624044	1624045	1624046	1624047
	Crimp connection, axial seal	1624022	1624030	1624023	1624031
Device connectors, front mounting, flange dimensions: 25 mm x 25 mm					
	Solder connection Mounting holes: 4 x Ø 3.2 mm, flat gasket	1619992	1619993	1619988	1619989
	Crimp connection Mounting holes: 4 x Ø 3.2 mm, flat gasket	1619990	1619991	1619986	1619987
	Free solder pin length [mm]: 3.5	1619954	1619955	1619952	1619953
	Solder-in connection Mounting holes: 4 x Ø 3.2 mm, flat gasket	10.0	1619930	1619931	1619928
		17.5	1619915	1619916	1619913
				1619913	1619914
Device connectors, angled, rotatable, front mounting, flange dimensions: 26 mm x 26 mm					
	See the M23 PRO series, more information starting on page 14				
Device connectors, rear mounting, central fixing nut M25 x 1.5					
	Solder connection, axial seal	1619850	1619851	1619846	1619847
	Crimp connection, axial seal	1619848	1619849	1619844	1619845

¹⁾ Rated current for maximum connection cross-section.

²⁾ 16+2+FE for 19-pos. crimp connection, 16+3 (without FE) available on request.

For color rings for individual identification of the connectors: more information starting on page 51.

For crimp connection: Please order crimp contacts separately, more information starting on page 54.

■ 9(8+1)-pos.		■ 12-pos.		■ 16-pos.		■ 17-pos.		■ 19(16+3)-pos. ²⁾	
Crimp, solder, solder-in		Crimp, solder, solder-in		Crimp, solder, solder-in		Crimp, solder, solder-in		Crimp, solder	
48 / 74		48 / 74		48 / 74		48 / 74		48 / 74	
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	
0.08 ... 1.0 / 0.06 ... 2.5		0.08 ... 1.0		0.08 ... 1.0		0.08 ... 1.0		0.08 ... 1.0 / 0.08 ... 1.0	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
									
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	—	—
1619842	1619843	1619789	1619790	1619785	1619786	1619781	1619782	1619777	1619778
1619791	1619841	1619787	1619788	1619783	1619784	1619779	1619780	1624020	1624021

M23 and M40 hybrid connectors

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.



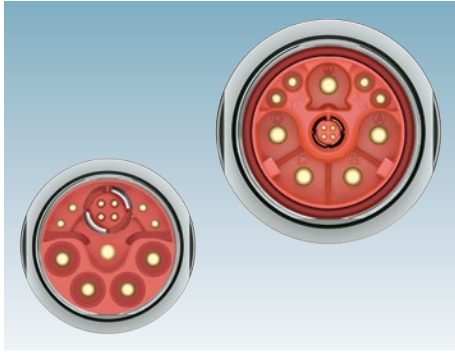
■ HYBRID

Hybrid connectors
up to 70 A/850 V DC/630 V AC

- Transmission of signals, data, and power in a single connector
- Sizes M23 and M40
- Connectors with external thread suitable for standard and SPEEDCON locking
- CAT5 interface, alternative: four additional signal contacts
- Connection cross-sections up to 16 mm²
- Plastic-molded designs

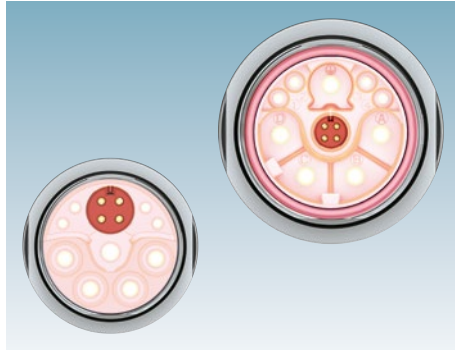


Your advantages at a glance



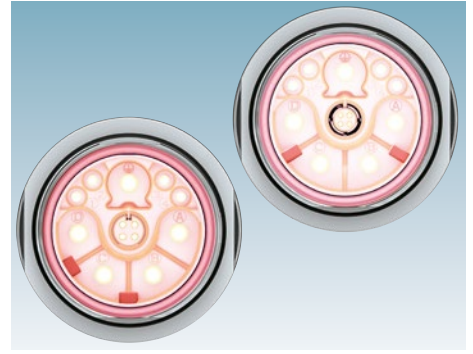
Reliable data transmission

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



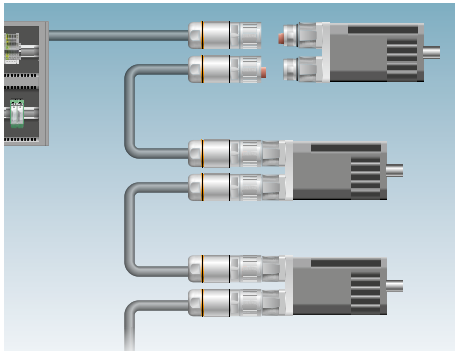
Additional flexibility

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



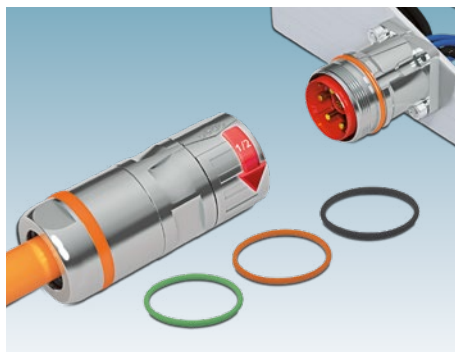
Variable assembly

All housings can be fitted with pin or female contacts



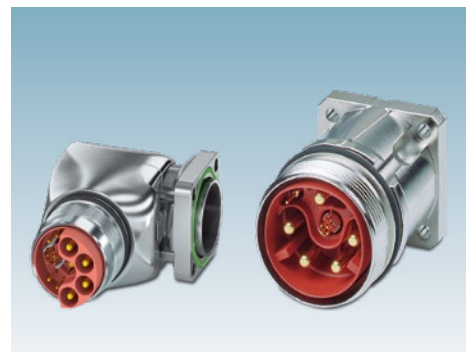
Preassembled M23 cables

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



Visual color coding

Connection errors are prevented with 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 outlet direction up to 310°

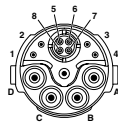
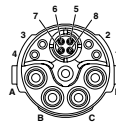
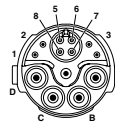
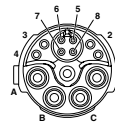
M23			4+4+4+PE-pos. ²⁾		8+4+PE-pos.							
Web code: #0263 RoHS Lead-free alternative items available	Signal type		CAT5 (100 Mbps)		Signal							
	Connection method		Crimp		Crimp							
	Rated voltage	[V AC/DC]	50 / 50 / 630/850		50 / 630/850							
	Rated current ¹⁾	[A]	3.6 / 8 / 30		8 / 30							
	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	[mm²]	0.06 ... 0.5 / 0.06 ... 1.0 / 0.25 ... 4.0		0.06 ... 1.0 / 0.25 ... 4.0							
	Pin assignment		Male	Female	Male	Female						
1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8							Cable connectors, SPEEDCON fast-locking system					
1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8	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					
Cable connectors, standard locking												
1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8	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					
Coupler connectors												
1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8	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					
Hybrid cables (accessories)												
1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8	Cable length	[m]	1	1623127	—							
			20	1622080	—							
			100	1623039	—							

¹⁾ Rated current for maximum connection cross-section.

²⁾ 6+4+4+PE-pos. version (6-pos. data element) available on request.

The cable clamping ranges specified may vary depending on the cable material and cable design. The user is responsible for selection and testing. For color rings for individual identification of the connectors: more information starting on page 51.

Please order crimp contacts, more information starting on page 54.

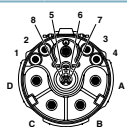
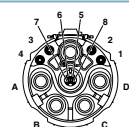
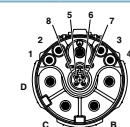
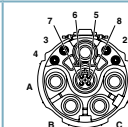
M23		4+4+4+PE-pos. ²⁾		8+4+PE-pos.	
 Web code: #0264  Lead-free alternative items available	Signal type	CAT5 (100 Mbps)		Signal	
	Connection method	Crimp		Crimp	
	Rated voltage [V AC/DC]	50 / 50 / 630/850		50 / 630/850	
	Rated current ¹⁾ [A]	3.6 / 8 / 30		8 / 30	
	Number of contacts/diameter [mm]	4 x 0.8 / 4 x 1 / 5 x 2		8 x 1 / 5 x 2	
	Litz wire cross-sections [mm²]	0.06 ... 0.5 / 0.06 ... 1.0 / 0.25 ... 4.0		0.06 ... 1.0 / 0.25 ... 4.0	
	Pin assignment	Male	Female	Male	Female
					
Device connectors, front mounting					
	Flange dimensions: 26 mm x 26 mm Mounting holes: 4 x Ø 3.2 mm	1621569	1621567	1621570	1621568
Device connectors, with knurled nut, SPEEDCON fast-locking system, front mounting					
	Flange dimensions: 26 mm x 26 mm Mounting holes: 4 x Ø 3.2 mm 	1096285	1096284	1096286	1096282
Device connectors, angled, rotatable, front mounting					
	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
Device connectors, rear mounting					
	Central fastening M26 x 1	1627205	1624344	1627206	1627204

¹⁾ Rated current for maximum connection cross-section.

²⁾ 6+4+4+PE-pos. version (6-pos. data element) available on request.

For color rings for individual identification of the connectors: more information starting on page 51.

Please order crimp contacts, more information starting on page 54.

M40			Coding 1			
			 4+4+4+PE-pos. 2)	 4+4+4+PE-pos.		
 Web code: #0560  Lead-free alternative items available	Signal type		CAT5 (100 Mbps)		Signal	
	Connection method		Crimp		Crimp	
	Rated voltage [V AC/DC]		50 / 500 / 630/850		50 / 500 / 630/850	
	Rated current ¹⁾ [A]		3.6 / 8 / 70		8 / 8 / 70	
	Number of contacts/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 [mm²]		0.06 ... 0.5 / 0.06 ... 1.5 / 1.5 ... 16.0		0.06 ... 1.0 / 0.06 ... 1.5 / 1.5 ... 16.0	
	Pin assignment, coding 1		Male	Female	Male	Female
						
Cable connectors, SPEEDCON fast-locking system						
	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
Coupler connectors						
	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
Device connectors, front mounting						
	Flange dimensions: 40 mm x 40 mm Mounting holes: 4 x Ø 4.2 mm		1623374	1623371	1623375	1623372
Device connectors, angled, rotatable, front mounting						
	Flange dimensions: 40 mm x 40 mm Mounting holes: 4 x Ø 4.4 mm		1623368	1623365	1623369	1623366
Hybrid cables (accessories)						
	Cable length [m]	1	1627298		—	
	Hybrid cable, shielded, cable design: (5 x 10 + 4 x 1.5 + (4 x AWG 22)C)C, outside cable diameter: 21.4 mm ±0.7 mm, suitable for drag chain applications, outer sheath color: orange RAL 2003	20	1627299		—	

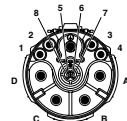
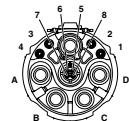
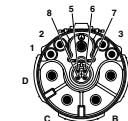
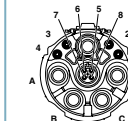
¹⁾ Rated current for maximum connection cross-section.

²⁾ 6+4+4+PE-pos. version (6-pos. data element) available on request.

The cable clamping ranges specified may vary depending on the cable material and cable design. The user is responsible for selection and testing.

For color rings for individual identification of the connectors: more information starting on page 51.

Please order crimp contacts, more information starting on page 54.

M40			Coding 2			
			4+4+4+PE-pos. ²⁾		4+4+4+PE-pos.	
Web code: #0560 RoHS Lead-free alternative items available	Signal type		CAT5 (100 Mbps)		Signal	
	Connection method		Crimp		Crimp	
	Rated voltage [V AC/DC]		50 / 500 / 630/850		50 / 500 / 630/850	
	Rated current ¹⁾ [A]		3.6 / 8 / 70		8 / 8 / 70	
	Number of contacts/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 [mm²]		0.06 ... 0.5 / 0.06 ... 1.5 / 1.5 ... 16.0		0.06 ... 1.0 / 0.06 ... 1.5 / 1.5 ... 16.0	
	Pin assignment, coding 2		Male	Female	Male	Female
						
Cable connectors, SPEEDCON fast-locking system						
	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
Coupler connectors						
	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
Device connectors, front mounting						
	Flange dimensions: 40 mm x 40 mm Mounting holes: 4 x Ø 4.2 mm		1623728	1623725	1623729	1623726
Device connectors, angled, rotatable, front mounting						
	Flange dimensions: 40 mm x 40 mm Mounting holes: 4 x Ø 4.4 mm		1623722	1623719	1623723	1623720
Hybrid cables (accessories)						
	Cable length [m]					
	Hybrid cable, shielded, cable design: (5 x 10 + 4 x 1.5 + (4 x AWG 22)C)C, outside cable diameter: 21.4 mm ±0.7 mm, suitable for drag chain applications, outer sheath color: orange RAL 2003	1	1627298			—
		20	1627299			—

¹⁾ Rated current for maximum connection cross-section.

²⁾ 6+4+4+PE-pos. version (6-pos. data element) available on request.

The cable clamping ranges specified may vary depending on the cable material and cable design. The user is responsible for selection and testing. For color rings for individual identification of the connectors: more information starting on page 51.

Please order crimp contacts, more information starting on page 54.

M17 to M58 power connectors

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 shield. This saves installation time and ensures fast and secure connection.



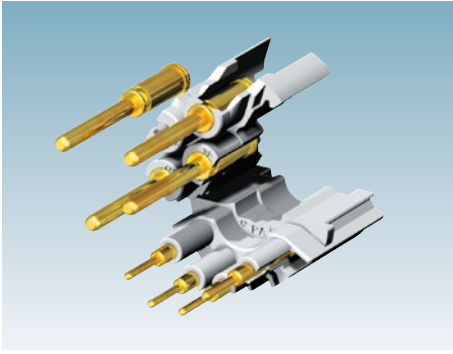
■ POWER

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 mm²
- IP67 degree of protection
- Plastic-molded designs



Your advantages at a glance



Fast installation

Lateral clip-in of contacts saves installation time



Simple shield

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



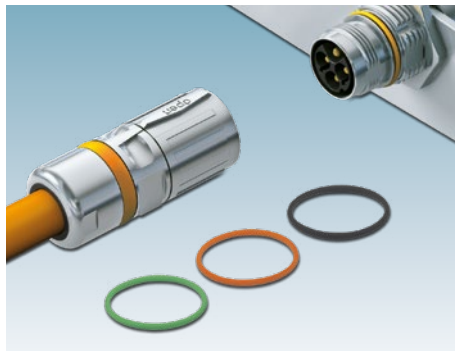
Flexible connection

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



Flexible cable outlet

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



Visual color coding

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



Simple device integration

Device connectors for front and rear mounting for various installation situations

M17			4(3+PE)-pos.	
Web code: #0266 / #0267 RoHS Lead-free alternative items available	Connection method		Crimp	
	Rated voltage [V AC/DC]		630	
	Rated current ¹⁾ [A]		25	
	Number of contacts/diameter [mm]		4 x 2	
	Litz wire cross-sections [mm²]		0.25 ... 2.5	
	Pin assignment		Male	Female
				
Cable connectors				
	Cable clamping range [mm]	5 ... 8	1607663	1607682
		8 ... 10	1607666	1607684
		10 ... 12.5	1624534	1624537
Coupler connectors				
	Cable clamping range [mm]	5 ... 8	1607670	1607688
		8 ... 10	1607671	1607689
		10 ... 12.5	1624536	1624539
Device connectors, front mounting, flange dimensions: 21.6 mm x 21.6 mm				
	Snap-in contact insert Mounting holes: 4 x Ø 2.7 mm		1607674	1607692
	Contact insert for support on the device Mounting holes: 4 x Ø 2.7 mm		1607675	1607694
Device connectors, front mounting, flange dimensions: 25.7 mm x 25.7 mm				
	Snap-in contact insert Mounting holes: 4 x Ø 3.2 mm		1619209	1619212
	Contact insert for support on the device Mounting holes: 4 x Ø 3.2 mm		1619186	1619189
Device connectors, angled, rotatable, front mounting				
	See the M17 PRO series, more information starting on page 20.			
Device connectors, front mounting, central fastening				
	Fastening thread: M18 x 0.75		1613544	1613546
	Accessories: M18 x 0.75 locking nut			
Device connectors, rear mounting, central fastening				
	Fastening thread: M20 x 1.5		1613545	1613547
	Accessories: M20 x 1.5 locking nut			

¹⁾ Rated current for maximum connection cross-section.

The cable clamping ranges specified may vary depending on the cable material and cable design. The user is responsible for selection and testing.

For color rings for individual identification of the connectors: more information starting on page 51.

Please order crimp contacts, more information starting on page 54.

■ 6(5+PE)-pos.		■ 7(6+PE)-pos.		■ 8(7+PE)-pos.		■ 9(5+3+PE)-pos.	
Crimp		Crimp		Crimp		Crimp	
630		630		630		60 / 630	
14		14		14		3.6 / 14	
6 x 1		7 x 1		8 x 1		5 x 0.6 / 4 x 1	
0.06 ... 1.0		0.06 ... 1.0		0.06 ... 1.0		0.06 ... 0.5 / 0.06 ... 1.0	
Male	Female	Male	Female	Male	Female	Male	Female
							
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
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
1613548	1613550	1613553	1613572	1613590	1613592	1613595	1613614
1613831							
1613549	1613551	1613568	1613587	1613591	1613593	1613610	1613629
1600417							

M23			6(5+PE)-pos.		8(4+3+PE)-pos.	
Web code: #0268 RoHS Lead-free alternative items available	Connection method		Crimp		Crimp	
	Rated voltage [V AC/DC]		630		250 / 630	
	Rated current ¹⁾ [A]		30		9 / 30	
	Number of contacts/diameter [mm]		6 x 2		4 x 1 / 4 x 2	
	Litz wire cross-sections [mm²]		0.06 ... 4.0		0.06 ... 1.0 / 0.06 ... 4.0	
	Pin assignment		Male	Female	Male	Female
Cable connectors						
	Cable clamping range [mm] Short version 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] Long version 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] Short version 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] Long version 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	–

¹⁾ Rated current for maximum connection cross-section.

The cable clamping ranges specified may vary depending on the cable material and cable design. The user is responsible for selection and testing. For color rings for individual identification of the connectors: more information starting on page 51.

Please order crimp contacts, more information starting on page 54.

M23		6(5+PE)-pos.		8(4+3+PE)-pos.			
Web code: #0269 RoHS Lead-free alternative items available	Connection method		Crimp		Crimp		
	Rated voltage [V AC/DC]		630		250 / 630		
	Rated current ¹⁾ [A]		30		9 / 30		
	Number of contacts/diameter [mm]		6 x 2		4 x 1 / 4 x 2		
	Litz wire cross-sections [mm²]		0.06 ... 4.0		0.06 ... 1.0 / 0.06 ... 4.0		
	Pin assignment		Male	Female	Male	Female	
Device connectors, front mounting							
		Flange dimensions: 26 mm x 26 mm Mounting holes: 4 x Ø 3.2 mm		1605520	–	1605589	–
		Flange dimensions: 26 mm x 26 mm With reinforced contact carrier for angled mating connectors Mounting holes 4 x Ø 3.2 mm		1620619	–	1620620	–
Device connectors, angled, rotatable, front mounting							
		Flange dimensions: 26 mm x 26 mm Mounting holes: 4 x Ø 3.2 mm		1620657	–	1620660	–
		Flange dimensions: 28 mm x 28 mm Mounting holes: 4 x Ø 3.2 mm		1620661	–	1620662	–
Device connectors, with knurled nut, front mounting							
		Straight Flange dimensions: 26 mm x 26 mm Mounting holes: 4 x Ø 3.2 mm		–	1607082	–	1605622
		Angled Flange dimensions: 26 mm x 26 mm Mounting holes: 4 x Ø 3.2 mm		–	1607405	–	1607429
Panel feed-throughs, front mounting, male-female ²⁾							
		Fully wired internally and assembled with contacts, Mounting holes: 4 x Ø 3.2 mm		1605492		1605567	
Panel feed-throughs, rear mounting							
		Cable clamping range [mm] Short version Cable Ø 7.5 mm ... 14 mm Mounting holes: 4 x Ø 3.2 mm	7.5 ... 14	1605517	–	1607051	–
			7.5 ... 9	1605516	–	1607048	–
			9 ... 11	1607037	–	1607049	–
			11 ... 14	1607038	–	1607050	–
		Cable clamping range [mm] Long version Cable Ø 7.5 mm ... 18 mm 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	–

¹⁾ Rated current for maximum connection cross-section.

²⁾ Panel feed-through, male-female, only compatible with standard M23 screw locking mechanism.

The cable clamping ranges specified may vary depending on the cable material and cable design. The user is responsible for selection and testing. For color rings for individual identification of the connectors: more information starting on page 51.

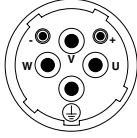
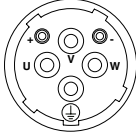
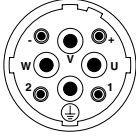
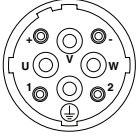
Please order crimp contacts, more information starting on page 54.

M40		6(2+3+PE)-pos.		8(4+3+PE)-pos.		
Web code: #0270 RoHS Lead-free alternative items available	Connection method	Crimp		Crimp		
	Rated voltage [V AC/DC]	250 / 630		250 / 630		
	Rated current ¹⁾ [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 ²]	0.06 ... 4.0 / 0.25 ... 16.0		0.06 ... 4.0 / 0.25 ... 16.0		
	Pin assignment	Male	Female	Male	Female	
Cable connectors						
	Cable clamping range [mm] Connection cross-section up to 16 mm ²	9 ... 14	—	1613518	—	1613528
		14 ... 20.5	—	1613519	—	1613529
		20.5 ... 26.5	—	1613520	—	1613530
Coupler connectors						
	Cable clamping range [mm] Connection cross-section up to 16 mm ²	9 ... 14	1613425	—	1613431	—
		14 ... 20.5	1613426	—	1613432	—
		20.5 ... 26.5	1613427	—	1613433	—
Device connectors, front mounting						
	Straight Flange dimensions: 40 mm x 40 mm Mounting holes: 4 x Ø 4.2 mm Connection cross-section up to 10 mm ²	1613517	—	1613527	—	
	Angled, rotatable Flange dimensions: 40 mm x 40 mm Mounting holes: 4 x Ø 4.4 mm Connection cross-section up to 10 mm ²	1620663	—	1620664	—	

¹⁾ Rated current for maximum connection cross-section.

The cable clamping ranges specified may vary depending on the cable material and cable design. The user is responsible for selection and testing. For color rings for individual identification of the connectors: more information starting on page 51.

Please order crimp contacts, more information starting on page 54.

M40		6(2+3+PE)-pos.		8(4+3+PE)-pos.	
 Web code: #0272  Lead-free alternative items available	Connection method	Crimp		Crimp	
	Rated voltage [V AC/DC]	250 / 630		250 / 630	
	Rated current ¹⁾ [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 [mm²]	0.06 ... 4.0 / 0.25 ... 16.0		0.06 ... 4.0 / 0.25 ... 16.0	
	Pin assignment	Male	Female	Male	Female
					
Device connectors, with knurled nut, standard locking, front mounting					
	Straight Flange dimensions: 40 mm x 40 mm Mounting holes: 4 x Ø 4.2 mm Connection cross-section up to 16 mm²	—	1605823	—	1605865
	Angled Flange dimensions: 40 mm x 40 mm Mounting holes: 4 x Ø 4.2 mm Connection cross-section up to 16 mm²	—	1607532	—	1607543

¹⁾ Rated current for maximum connection cross-section.
Please order crimp contacts, more information starting on page 54.

M58			6(2+3+PE)-pos.		8(4+3+PE)-pos.		
Web code: #0273 RoHS Lead-free alternative items available	Connection method		Crimp		Crimp		
	Rated voltage	[V AC/DC]	250 / 630		250 / 630		
	Rated current ¹⁾	[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	[mm²]	0.75 ... 1.5 / 10 ... 50		0.75 ... 1.5 / 10 ... 50		
	Pin assignment		Male	Female	Male	Female	
Cable connectors, standard locking							
	Cable clamping range	[mm]	17 ... 25	–	1607503	–	1607508
			25 ... 36	–	1607501	–	1607507
Coupler connectors							
	Cable clamping range	[mm]	17 ... 25	1607500	–	1607506	–
			25 ... 36	1607499	–	1607505	–
Device connectors, front mounting							
	Flange dimensions: 60 mm x 60 mm Mounting holes: 4 x Ø 5.4 mm		1615686	–	1615687	–	

¹⁾ Rated current for maximum connection cross-section.

The cable clamping ranges specified may vary depending on the cable material and cable design. The user is responsible for selection and testing. Please order crimp contacts, more information starting on page 54.

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

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

²⁾ For device connectors, front mounting: flange dimensions 25 mm x 25 mm.

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

Plastic protective caps	For connectors with external thread	For connectors with knurled nut
Web code: #0566		
	Degree of protection: min. IP20	
Plastic protective cap for signal connectors		
M17, M17 PRO series	1055708	1055709
M17 COMPACT	1055708	—
M17 PRO series, with eyelet for fastening wire	1055707	1055717
M23 (not including the PRO series)	1055753	1577206
M23, with eyelet for fastening wire (not including the PRO series)	1607449	—
M23 PRO series	1055753	1055744
M23 PRO series, with eyelet for fastening wire	1055749	1055745
Plastic protective cap for hybrid connectors		
M23	1622137	1577207
M40	1577212	1577213
Plastic protective cap for power connectors		
M17, M17 PRO series	1055708	1055709
M17 COMPACT	1055708	—
M17 PRO series, with eyelet for fastening wire	1055707	1055717
M23 (not including the PRO series)	1055753	1577207
M23, with eyelet for fastening wire	1607449	—
M23 PRO series	1055753	1055746
M23 PRO series, with eyelet for fastening wire	1055749	1055747
M40	1577212	1577213
M58	1607926	—

Metal protective caps	For connectors with external thread	For connectors with knurled nut
i Web code: #0566 RoHS Lead-free alternative items available		
Degree of protection: min. IP67		
Metal protective cap for signal connectors		
M17	1616069	–
M17, with steel wire and eyelet for fastening on the device	1616068	–
M17, with steel wire and loop for fastening on the cable	–	1627217
M23	1604260	–
M23, with steel wire and eyelet for fastening on the device	1604236	1604228
M23, with steel wire and loop for fastening on the cable	–	1627224
Metal protective cap for hybrid connectors		
M23	1622138	1622140
M23, with steel wire and eyelet for fastening on the device	1622139	1622141
M23, with steel wire and loop for fastening on the cable	–	1627226
M40	1623827	–
M40, with steel wire and eyelet for fastening on the device	1623828	–
M40, with steel wire and loop for fastening on the cable	–	1627218
Metal protective cap for power connectors		
M17	1616069	–
M17, with steel wire and eyelet for fastening on the device	1616068	–
M17, with steel wire and loop for fastening on the cable	–	1627217
M23	1605456	1622140
M23, with steel wire and eyelet for fastening on the device	1605457	1622141
M23, with steel wire and loop for fastening on the cable	–	1627226
M40	1623827	–
M40, with steel wire and eyelet for fastening on the device	1623828	–
M40, with steel wire and loop for fastening on the cable	–	1627218

Crimp contacts Ø 0.6 to Ø 1.6 mm		Signal			
i Web code: #0276	Series (for PRO series, see page 10 onwards)	M17 COMPACT/ M17		M23 ADVANCE	
	Crimp range [mm ²]	Male	Female	Male	Female
Crimp contacts, turned, Ø 0.6 mm					
	0.06 ... 0.25	1607577	1607580	–	–
	0.14 ... 0.34	1607578	1607581	–	–
	0.34 ... 0.5	1607579	1607582	–	–
Crimp contacts, turned, Ø 0.8 mm					
	0.08 ... 0.25	–	–	–	–
	0.34 ... 0.5	–	–	–	–
Crimp contacts, turned, Ø 1.0 mm					
 	0.06 ... 0.2	–	–	–	–
	0.06 ... 0.25	1618255	1618239	–	–
	0.08 ... 0.22	–	–	1596770 1623776 ¹⁾	1596772
	0.14 ... 0.5	–	–	–	–
	0.14 ... 0.56	–	–	1597862 1623777 ¹⁾	1599600
	0.34 ... 0.5	–	–	–	–
	0.25 ... 1.0	1618458	1618464	–	–
	0.5 ... 1.0	–	–	1602996 1623778 ¹⁾	1602998
	0.5 ... 1.5	–	–	–	–
	1.0 ... 1.5	–	–	–	–
Crimp contacts, rolled, Ø 1.0 mm					
	0.08 ... 0.22 Roll of 500 pcs.	–	–	1603313	1603318
	0.08 ... 0.22 Roll of 10000 pcs.	–	–	1611637	1616500
	0.22 ... 0.56 Roll of 500 pcs.	–	–	1603324	1603330
	0.22 ... 0.56 Roll of 10000 pcs.	–	–	1603325	1603332
Crimp contacts, turned, Ø 1.5 mm					
	0.08 ... 0.22	–	–	1627292	1627290
	0.14 ... 0.56	–	–	1627291	–
	0.5 ... 1.0	–	–	1623779	1623775
	0.5 ... 1.0 ²⁾	–	–	1623780 ²⁾	–
Crimp contacts, turned, Ø 1.6 mm					
	0.75 ... 1.0	–	–	–	–
Crimping tools					
For crimping tools as accessories for contacts, go to phoenixcontact.com					

¹⁾ For 19-pos. ²⁾ Leading contact. ³⁾ M40 hybrid CAT5 version. ⁴⁾ M40 hybrid signal version.
Crimp contacts Ø 2.0 mm/Ø 3.6 mm/Ø 10.0 mm, more information starting on page 56.

RoHS Lead-free crimp contacts available, more information starting on page 58.

Phoenix Contact **5**

Crimp contacts Ø 2.0 to Ø 10.0 mm		Signal			
 Web code: #0276	Series (for PRO series, see page 10 onwards)	M17 COMPACT/ M17		M23 ADVANCE	
	Crimp range [mm ²]	Male	Female	Male	Female
Crimp contacts, turned, Ø 2.0 mm					
	0.14 ... 0.25	–	–	–	–
	0.25 ... 1.0	–	–	–	–
	0.50 ... 0.75	–	–	1603529	1603530
	0.75 ... 1.0	–	–	1603498	1603501
	0.75 ... 1.5	–	–	–	–
	1.0 ... 1.5	–	–	1603513	1603517
	1.0 ... 2.5	–	–	–	–
	1.5 ... 2.5	–	–	1603505	1603509
	2.5 ... 4.0	–	–	–	–
	4.0	–	–	–	–
Crimp contacts, turned, Ø 3.6 mm					
	0.75 ... 1.5	–	–	–	–
	1.0 ... 2.5	–	–	–	–
	2.5 ... 4.0	–	–	–	–
	4.0 ... 6.0	–	–	–	–
	6.0 ... 10.0	–	–	–	–
	10.0	–	–	–	–
	16.0	–	–	–	–
Crimp contacts, turned, Ø 10.0 mm					
	10.0	–	–	–	–
	16.0	–	–	–	–
	25.0	–	–	–	–
	35.0	–	–	–	–
	50.0	–	–	–	–
Crimping tools					
For crimping tools as accessories for contacts, go to phoenixcontact.com					

¹⁾ Only for device connectors. ²⁾ Only for coupler connectors. ³⁾ Not suitable for device connectors, angled, rotatable.

Hybrid				Power							
M23		M40		M17 COMPACT/ M17		M23		M40		M58	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
–	–	–	–	–	–	1605646	–	1605646 ¹⁾	–	–	–
1621579	1621576	–	–	1607655	1607657	1605634	1605636	1605634 ¹⁾ 1605738 ²⁾	1605636	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	1607376	1605631	1607376 ¹⁾ 1605736 ²⁾	1605631	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	1607656	1607658	1605639	1605643	1605639 ¹⁾ 1605739 ²⁾	1605643	–	–
1621580	1621577	–	–	–	–	–	–	–	–	–	–
1621581	1621578	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	1605626	1605628	1605626 ¹⁾ 1605741 ²⁾	1605628	–	–
–	–	–	–	–	–	–	–	1605743 ¹⁾	–	–	–
–	–	–	–	–	–	–	–	1607057 ¹⁾ 1605749 ²⁾	1605756	–	–
–	–	1623383	1623378	–	–	–	–	1605750 ²⁾	1605758	–	–
–	–	1623384	1623379	–	–	–	–	1605745 ¹⁾ 1605754 ²⁾	1605760	–	–
–	–	–	–	–	–	–	–	1605747 ¹⁾ 1605752 ²⁾	1605762	–	–
–	–	1623385	1623380	–	–	–	–	–	–	–	–
–	–	1623386 ³⁾	1623381 ³⁾	–	–	–	–	1623970 ²⁾	1623972	–	–
–	–	–	–	–	–	–	–	–	–	1607911	1607916
–	–	–	–	–	–	–	–	–	–	1607912	1607917
–	–	–	–	–	–	–	–	–	–	1607913	1607918
–	–	–	–	–	–	–	–	–	–	1607914	1607919
–	–	–	–	–	–	–	–	–	–	1607915	1607920



Lead-free crimp contacts available, more information starting on page 58.

Lead-free crimp contacts Ø 0.6 to Ø 1.6 mm		Signal			
new RoHS Pb < 0,1% Items are lead-free (RoHS II without Exemption 6c)	Series (for PRO series, see page 10 onwards)	M17 COMPACT/ M17		M23 ADVANCE	
	Crimp range [mm ²]	Male	Female	Male	Female
Crimp contacts, turned, Ø 0.6 mm					
	0.06 ... 0.34	1242311	1242314	–	–
	0.34 ... 0.5	1242312	1242315	–	–
Crimp contacts, turned, Ø 0.8 mm					
	0.06 ... 0.34	–	–	–	–
	0.34 ... 0.5	–	–	–	–
Crimp contacts, turned, Ø 1.0 mm					
	0.06 ... 1.0	1243215	1243216	–	–
	0.08 ... 0.56	–	–	1240882 1244971 ¹⁾	1241093
	0.75 ... 1.0	–	–	1241571 1244972 ¹⁾	1241572
	0.5 ... 1.5	–	–	–	–
Crimp contacts, rolled, Ø 1.0 mm					
	0.08 ... 0.22 Roll of 500 pcs.	–	–	1603313	1603318
	0.08 ... 0.22 Roll of 10000 pcs.	–	–	1611637	1616500
	0.22 ... 0.56 Roll of 500 pcs.	–	–	1603324	1603330
	0.22 ... 0.56 Roll of 10000 pcs.	–	–	1603325	1603332
Crimp contacts, turned, Ø 1.5 mm					
	0.08 ... 0.56	–	–	1245475	1245474
	0.14 ... 0.56	–	–	–	–
	0.75 ... 1.0	–	–	1244973	1244969
	0.75 ... 1.0 ²⁾	–	–	1244974 ²⁾	–
Crimp contacts, turned, Ø 1.6 mm					
	0.25 ... 1.5	–	–	–	–
Crimping tools					
For crimping tools as accessories for contacts, go to phoenixcontact.com					

¹⁾ For 19-pos. ²⁾ Leading contact. ³⁾ M40 hybrid CAT5 version. ⁴⁾ M40 hybrid signal version.
Crimp contacts Ø 2.0 mm/Ø 3.6 mm/Ø 10.0 mm, more information starting on page 60.

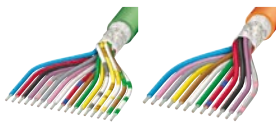
Hybrid				Power							
M23		M40		M17 COMPACT/ M17		M23		M40		M58	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
–	–	–	–	1242311	1242314	–	–	–	–	–	–
–	–	–	–	1242312	1242315	–	–	–	–	–	–
1244458	1244455	1244458 ³⁾	1244455 ³⁾	–	–	–	–	–	–	–	–
1244459	1244457	1244459 ³⁾	1244457 ³⁾	–	–	–	–	–	–	–	–
1243215	1243216	1244924 ^{3), 4)} 1243215 ⁴⁾	1244919 ^{3), 4)} 1243216 ⁴⁾	1243215	1243216	1241921	1241922	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–			–	–	–	–	–	–	–	–
–	–	1244925 ^{3), 4)}	1244920 ^{3), 4)}	–	–	–	1241923	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	1242372	1242375

Lead-free crimp contacts Ø 2.0 to Ø 10.0 mm		Signal			
new RoHS Pb < 0,1% Items are lead-free (RoHS II without Exemption 6c)	Series (for PRO series, see page 10 onwards)	M17 COMPACT/ M17		M23 ADVANCE	
	Crimp range [mm ²]	Male	Female	Male	Female
Crimp contacts, turned, Ø 2.0 mm					
	0.06 ... 1.0	–	–	1241632	1241633
	0.25 ... 2.5	–	–	–	–
	0.75 ... 2.5	–	–	1241634	1241635
	1.5 ... 4.0	–	–	–	–
Crimp contacts, turned, Ø 3.6 mm					
	0.25 ... 2.5	–	–	–	–
	1.5 ... 6.0	–	–	–	–
	6.0 ... 10.0	–	–	–	–
	16.0	–	–	–	–
Crimp contacts, turned, Ø 10.0 mm					
	10.0	–	–	–	–
	16.0	–	–	–	–
	25.0	–	–	–	–
	35.0	–	–	–	–
	50.0	–	–	–	–
Crimping tools					
For crimping tools as accessories for contacts, go to phoenixcontact.com					

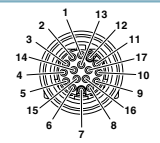
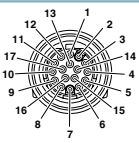
¹⁾ Only for device connectors. ²⁾ Only for coupler connectors. ³⁾ Not suitable for device connectors, angled, rotatable.

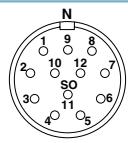
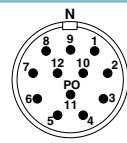
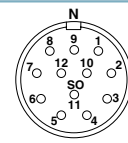
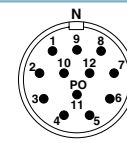
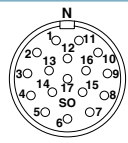
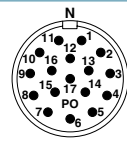
Hybrid				Power							
M23		M40		M17 COMPACT/ M17		M23		M40		M58	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
–	–	–	–	–	–	1241951	1241952	1241951 ¹⁾	1241952	–	–
1244464	1244461	–	–	1242329	1237423	1241953	1237431	1241953 ¹⁾ 1241968 ²⁾	1237431	–	–
–	–	–	–	–	–					–	–
1244465	1244462	–	–	–	–	1241948	1241949	1241948 ¹⁾ 1241969 ²⁾	1241949	–	–
–	–	–	–	–	–	–	–	1242233 ¹⁾ 1241973 ²⁾	1241977	–	–
–	–	1244894	1244890	–	–	–	–	1241971 ¹⁾ 1241976 ²⁾	1241979	–	–
–	–	1244895	1244891	–	–	–	–	1241972 ¹⁾ 1241975 ²⁾	1241980	–	–
–	–	1244896 ³⁾	1244892 ³⁾	–	–	–	–	1245030 ²⁾	1245032	–	–
–	–	–	–	–	–	–	–	–	–	1362824	1362831
–	–	–	–	–	–	–	–	–	–	1362825	1362832
–	–	–	–	–	–	–	–	–	–	1362827	1362834
–	–	–	–	–	–	–	–	–	–	1362828	1362835
–	–	–	–	–	–	–	–	–	–	1362829	1362836

SIGNAL

M17 and M23 signal connectors, plastic-molded		M17 straight	M23 straight	M23 angled
		17-pos. standard	12-pos. reverse	12-pos. reverse
Cable type		E01	E00	E00
Cable design	[mm²]	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]	48 / 74	48 / 74	48 / 74
Rated 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
i Web code: #0277  Lead-free alternative items available		 Female	 Female	 Female
Free cable end	Cable length			
	2 m	1624780	1619247	1619280
	5 m	1624781	1619248	1619281
	10 m	1624782	1619249	1619282
M17, male				
	2 m	1624778	—	—
	5 m	1624783	—	—
	10 m	1624784	—	—
M23, male				
	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	
	
Female, 17-pos., standard	Male, 17-pos., standard

M23 pin assignments			
			
Female, 12-pos., standard	Male, 12-pos., standard	Female, 12-pos., reverse	Male, 12-pos., reverse
			
Female, 17-pos., standard	Male, 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
4×2×0.25 + 2×0.5	4×2×0.25 + 2×0.5	3×2×0.14 + 2×0.5 + 4×0.14 + 4×0.22	3×2×0.14 + 2×0.5 + 4×0.14 + 4×0.22
Orange	Orange	Green	Green
48 / 74	48 / 74	48 / 74	48 / 74
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
			
Female	Female	Female	Female
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	

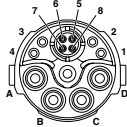
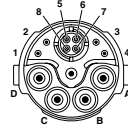
Assignment: cable type E01, feedback, 17-pos.

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 hybrid connectors, plastic-molded		M23 straight	M23 straight
		4+4+4+PE-pos. (CAT5, 100 Mbps)	
Cable type		H00	H00
Cable design	[mm²]	(5 x 2.5 + 4 x AWG 22/C + 4 x 0.5)C	(5 x 2.5 + 4 x AWG 22/C + 4 x 0.5)C
Cable color		Orange	Orange
Rated voltage	[V AC/DC]	630 / 850	630 / 850
Rated current	[A]	26 / 8	26 / 8
Temperature range, flexible	[°C]	-30 ... +60	-30 ... +60
Temperature range, fixed	[°C]	-40 ... +80	-40 ... +80
Grip / sheath / wire insulation	material	TPU / PUR / TPE, polyolefin	TPU / PUR / TPE, polyolefin
 Web code: #0282  Lead-free alternative items available			
		Female	Male
Free cable end	Cable length		
	2 m	1622224	1622227
	5 m	1622225	1622228
	10 m	1622226	1622229
M23 straight, male			
	2 m	1622244	—
	5 m	1622245	—
	10 m	1622246	—
M23 straight, male			
	2 m	1622247	—
	5 m	1622248	—
	10 m	1622249	—
M23 angled, male			
	2 m	—	—
	5 m	—	—
	10 m	—	—

Customer-specific versions and lengths are available on request.

M23 pin assignments	
	
Female, 4+4+4+PE-pos.	Male, 4+4+4+PE-pos.

M23 angled	M23 angled
4+4+4+PE-pos. (CAT5, 100 Mbps)	
H00	H00
(5 × 2.5 + 4 × AWG 22/C + 4 × 0.5)C	(5 × 2.5 + 4 × AWG 22/C + 4 × 0.5)C
Orange	Orange
630 / 850	630 / 850
26 / 8	26 / 8
-30 ... +60	-30 ... +60
-40 ... +80	-40 ... +80
TPU / PUR / TPE, polyolefin	TPU / PUR / TPE, polyolefin
	
Female	Male
1622230	1622233
1622231	1622234
1622232	1622243
–	–
–	–
–	–
–	–
–	–
–	–
–	–
1622250	–
1622251	–
1622252	–

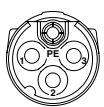
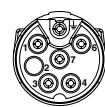
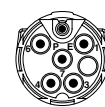
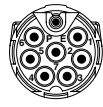
**Assignment: cable type H00,
hybrid, 4+4+4+PE**

Pin	Wire color		Cross-section	Pin	Wire color		Cross-section
			[mm²]				[mm²]
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 power connectors, plastic-molded		M17 straight	
		4(3+PE)-pos.	
Cable type		B00	B01
Cable design	[mm²]	4 x 1.5	4 x 2.5
Cable color		Orange	Orange
Rated voltage	[V AC/DC]	630	630
Rated 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
i Web code: #0279  Lead-free alternative items available		 Female Female	
Free cable end	Cable length		
	2 m	1619298	1619301
	5 m	1619299	1619302
	10 m	1619300	1619303
M17 straight, male			
	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			
			
Female, 3+PE-pos.	Male, 3+PE-pos.	Female, 5+PE-pos.	Male, 5+PE-pos.
			
Female, 7+PE-pos.	Male, 7+PE-pos.		

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	GN YE		

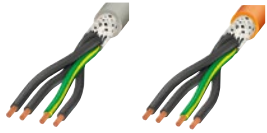
Assignment: cable type C00, servo, 5+PE			
Pin	Wire color		Function
1	BK1		U motor
6	BK2		V motor
7	BK3		W motor
PE	GN YE		
3	BK5		Brake
4	BK6		Brake

M17 straight		M17 straight	
6(5+PE)-pos.		8(7+PE)-pos.	
C00	C01	D00	D01
4×0.75 + 2×0.5	4×1.0 + 2×0.5	4×0.75 + 2×2×0.34	4×1.0 + 2×2×0.75
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
			
Female	Female	Female	Female
1619307	1619310	1624785	1619313
1619308	1619311	1624786	1619314
1619309	1619312	1624792	1619315
1619316	1619319	1624787	1619323
1619317	1619321	1624788	1619324
1619318	1619322	1624789	1619325

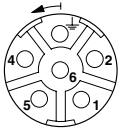
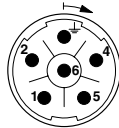
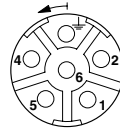
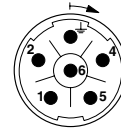
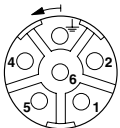
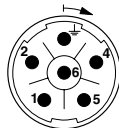
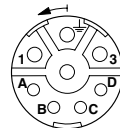
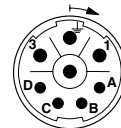
Assignment: cable type C01, servo, 5+PE			
Pin	Wire color		Function
1	BK U	●	U motor
6	BK V	●	V motor
7	BK W	●	W motor
PE	GNYE	●	⏏
3	BK	●	Brake
4	WH	○	Brake

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 power connectors, plastic-molded		M23 straight	
		4(3+PE)-pos.	5(4+PE)-pos.
Cable type		A00	A01
Cable design	[mm²]	4 x 4.0	5 x 4.0
Cable color		Gray	Gray
Rated voltage	[V AC/DC]	630	630
Rated 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
i Web code: #0280  Lead-free alternative items available			
		Female	Female
Free cable end	Cable length		
	2 m	1624771	1625776
	5 m	1619622	1625777
	10 m	1624772	1625775
M17 straight, male			
	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			
			
Female, 3+PE-pos.	Male, 3+PE-pos.	Female, 4+PE-pos.	Male, 4+PE-pos.
			
Female, 5+PE-pos.	Male, 5+PE-pos.	Female, 4+3+PE-pos.	Male, 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		M23 straight	
6(5+PE)-pos.		8(4+3+PE)-pos.	
C02	C03	D02	D03
4 × 1.5 + 2 × 1.5	4 × 2.5 + 2 × 1.5	4 × 1.5 + 2 × 2 × 0.75	4 × 2.5 + 2 × 2 × 1.0
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
			
Female	Female	Female	Female
1618957	1620396	1620399	1620402
1618958	1620397	1620400	1620404
1618959	1620398	1620401	1620405
1618964	1620406	1620409	1620412
1618965	1620407	1620410	1620413
1618966	1620408	1620411	1620414

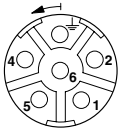
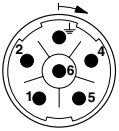
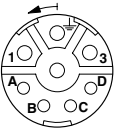
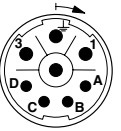
Assignment: cable type C02/C03, servo, 5+PE			
Pin	Wire color		Function
1	BK U	●	U motor
2	BK V	●	V motor
6	BK W	●	W motor
PE	GNYE	●	⏏
4	BK	●	Brake
5	WH	○	Brake

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 power connectors, plastic-molded		M23 angled
		6(5+PE)-pos.
Cable type		C02
Cable design	[mm²]	4 × 1.5 + 2 × 1.5
Cable color		Orange
Rated voltage	[V AC/DC]	630
Rated current	[A]	18
Temperature range, flexible	[°C]	-20 ... +60
Temperature range, fixed	[°C]	-40 ... +80
Grip / sheath / wire insulation	material	TPU / PUR / TPM
i Web code: #0280 RoHS Lead-free alternative items available		
		Female
Free cable end	Cable length	
	2 m	1620415
	5 m	1620416
	10 m	1620417

Angled designs can be combined with straight device connectors with a reinforced contact carrier. 5+PE: [1620619](#), 4+3+PE: [1620620](#), more information starting on page 51.
Customer-specific versions and lengths, also with SPEEDCON fast-locking system, are available on request.

M23 pin assignments			
			
Female, 5+PE-pos.	Male, 5+PE-pos.	Female, 4+3+PE-pos.	Male, 4+3+PE-pos.

M23 angled		M23 angled	
6(5+PE)-pos.		8(4+3+PE)-pos.	
C03		D02	D03
4 x 2.5 + 2 x 1.5		4 x 1.5 + 2 x 2 x 0.75	4 x 2.5 + 2 x 2 x 1.0
Orange		Orange	Orange
630		630 / 250	630 / 250
26 / 18		18 / 12	26 / 12
-20 ... +70		-20 ... +60	-20 ... +60
-50 ... +80		-40 ... +80	-40 ... +80
TPU / TPU / TPM		TPU / PUR / TPM	TPU / PUR / TPM
			
Female		Female	Female
1620418		1620421	1620424
1620419		1620422	1620425
1620420		1620423	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	●	Brake
5	WH	○	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 –

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- Personal on-site consultation

The easy way to more individuality

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- Customer-specific versions
- Customized new products
- Intuitive online configurators





Simple selection using filters and technical data



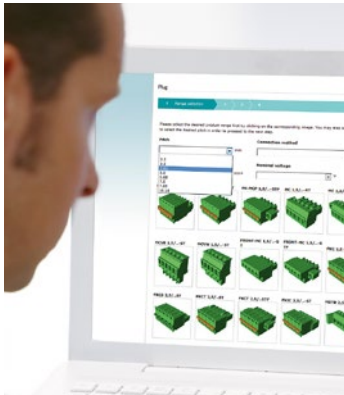
There is a separate detail page for every product



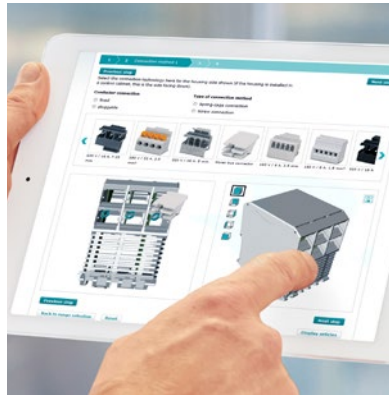
A data sheet is available to download for every item



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Device connection technology can be comprehensively configured



Housing parts and connection technology are easy to configure



Cable and assembly systems can be matched easily



Phoenix Contact supports you from the initial idea right through to series production

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i Web code: #2594

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- Free online sample service
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