M5 to M12 circular connectors

Product overview 2026

M5 to M12 circular connectors

Circular connectors in metric sizes M5 to M12 have become standard in numerous industries and areas of application. The broad product range from Phoenix Contact enables uniform connection solutions for signal, data, and power transmission in the device.

DATA

Data rates up to 10 Gbps

- Codings for all common fieldbus systems
- Hybrid connectors for simultaneous data and power transmission (Power over Ethernet)
- Components in accordance with $CAT6_A$

Web code: #0682

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

SIGNAL

Signals up to 17-pos.

- Currents up to 4 A
- Voltages up to 250 V
- Available with optional shield connection

Web code: #0680

POWER

Power up to 16 A/690 V

- Connection cross-sections up to 2.5 mm²
- For 1-phase and 3-phase mains voltage applications
- Protected against mismatching for AC and DC applications

Web code: #0681

Contents

Unrivaled variety for signals, data, and power	4
M12 push-pull – the new standard in automation technology	6
Device connectors with litz wire and cable connection	8
Device connectors for direct PCB mounting	10
Connectors and cables for field cabling	12
Page navigation	14
Accessories	67
Pin assignments and wire colors	70
Excellent services	74

Unrivaled variety for signals, data, and power

Industrial electronics is developing at a rapid pace and constantly placing new demands on connection technology. Phoenix Contact offers innovative circular connectors for virtually all areas of application. A modular structure and numerous pin assignments enable the device connectors to be easily integrated into your device design.

Web code: #2904

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.

Web code: #2904

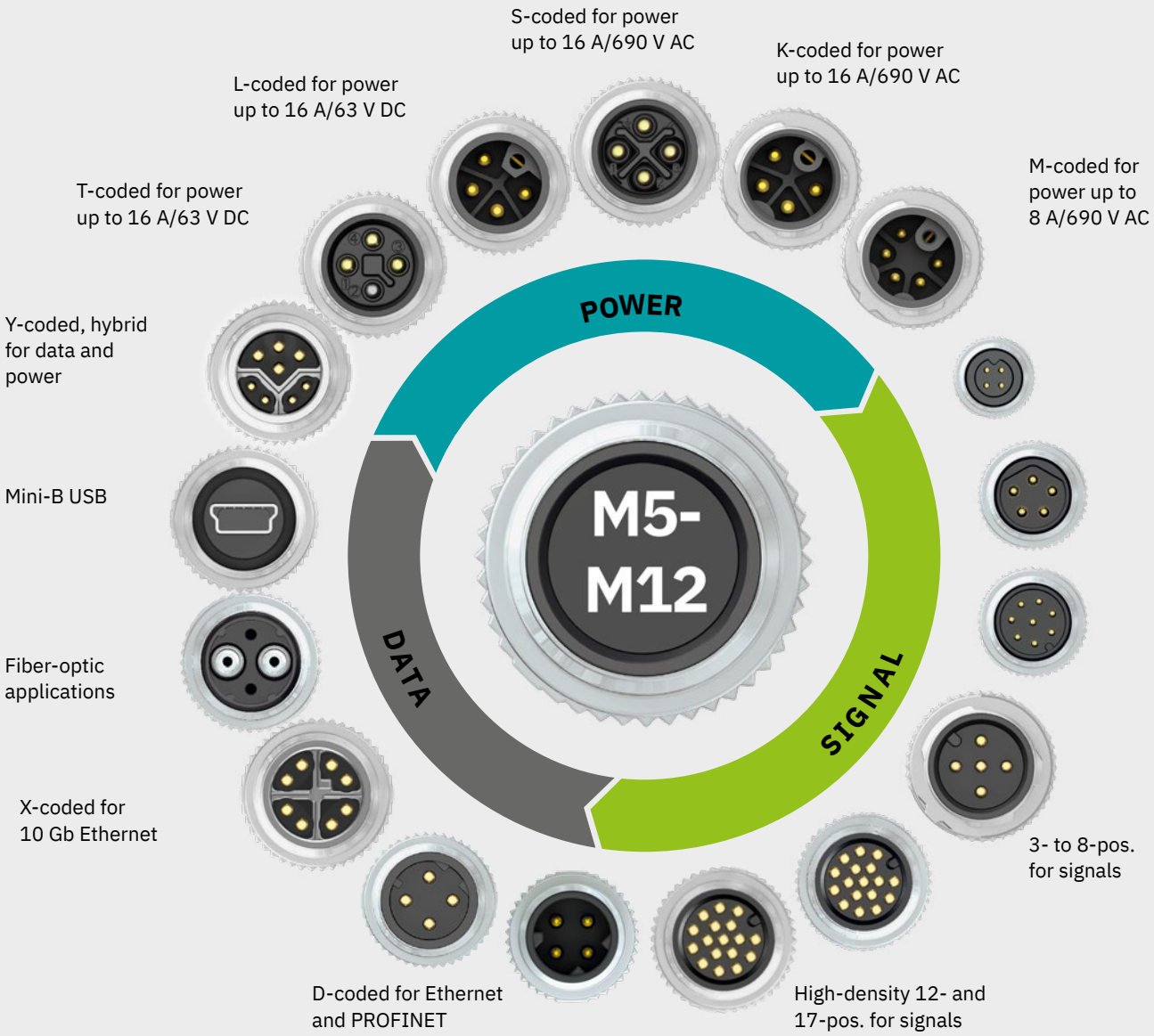
NEW

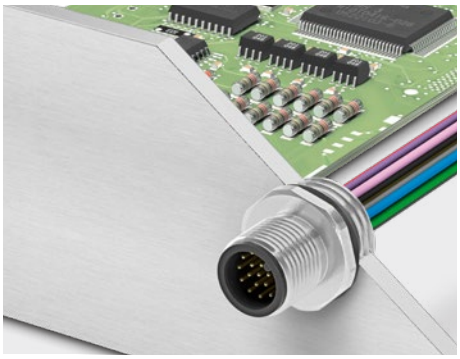
RoHS

Pb < 0,1%

For virtually every application

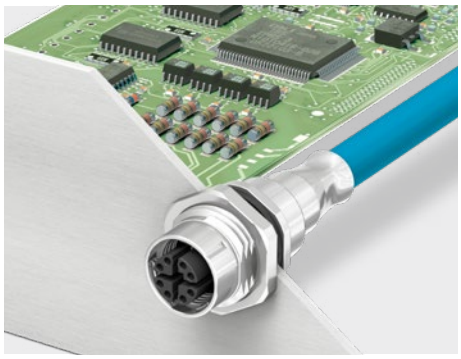
Various installation options for practical integration into your device.





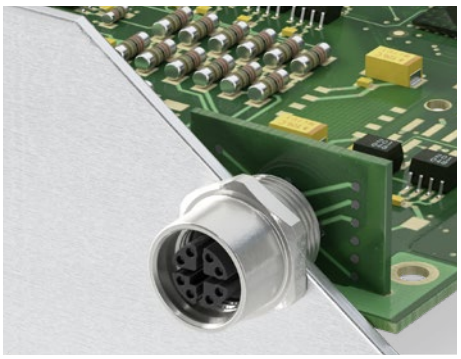
For high contact density

M5, M8, and M12 signal connectors for up to 17 positions.



For fast data transmission

M8 and M12 data connectors for up to 10 Gbps.

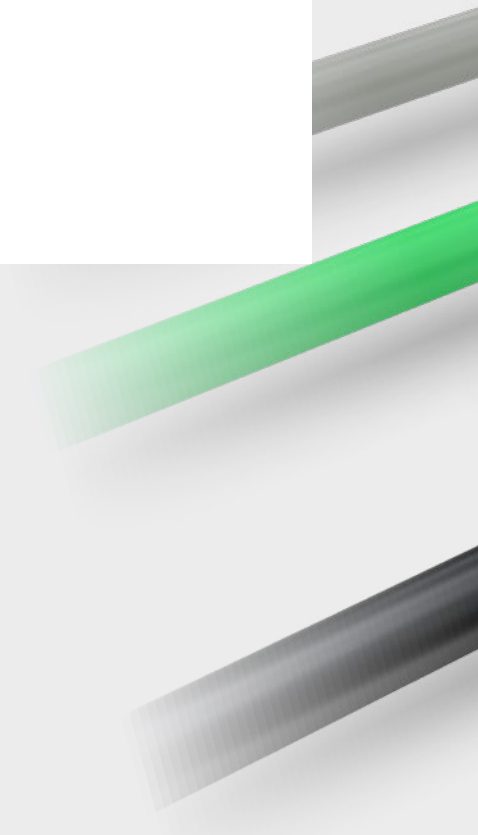


For high power

M12 power connectors for up to 16 A and 690 V.

M12 push-pull – the new standard in automation technology

Easy connection, fast-locking: M12 connectors with push-pull fast-locking system guarantee secure, tool-free plugging, even in confined spaces and with a high cabling density. Versions with internal locking also enable compact housing designs.



Web code:
#1831

Highly future-proof

The consistently standardized push-pull product range guarantees worldwide availability.

Flying leads

Establish flying leads with connectors in pin and socket versions.

More compact designs

The new M12 push-pull concept with countersunk M12 ports allows flush integration into the housing. This allows you to achieve more compact device designs.

Greater flexibility

The M12 duo contour allows for a flexible field wiring with proven M12 screw connectors or the new push-pull fast-locking system.

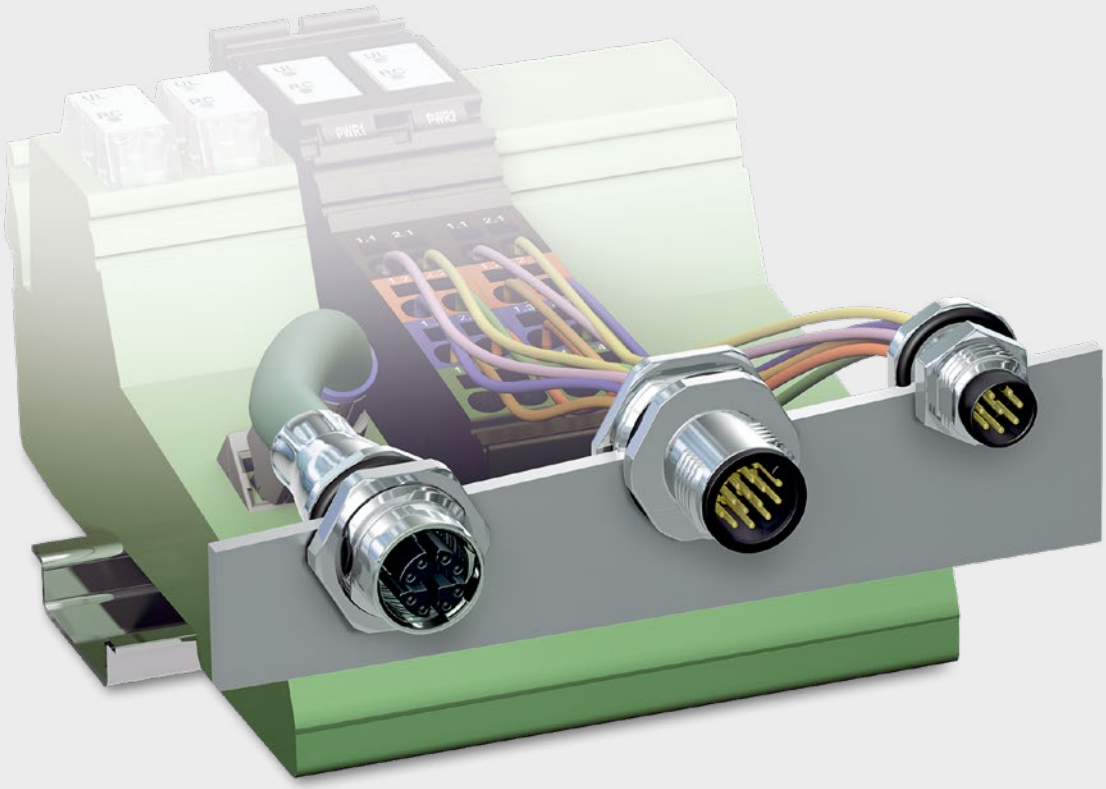
Plug and Produce

With the cross-manufacturer locking system, you can save up to 80% of installation time, compared to screw connection.

Device connectors with litz wire and cable connection

Device connectors with litz wires or round cables in sizes M5, M8, and M12 are a reliable alternative to permanent cable connections. The diverse housing designs from Phoenix Contact offer the right solution for every device design, and are also available with seamless shield connection as an option.

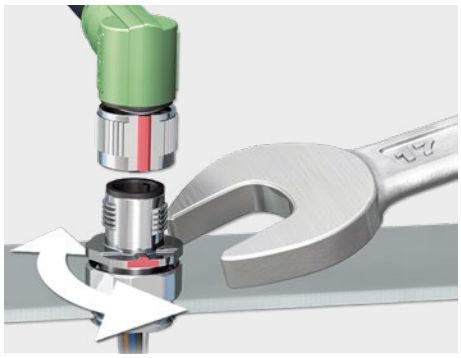
Web code:
#0204



Your advantages at a glance

Preassembled cables

- No field assembly necessary
- Various cable lengths and assemblies



Easy positioning

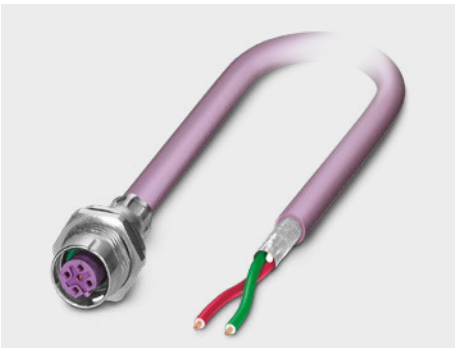
- Defined cable outlet direction

Safe mounting

- XL housing versions simplify the device cutout
- Increased safety and tightness of seal with tightening limitation

Reliable seals

- Protection of device electronics when not plugged in



Reliable transmission

- 360° shield connection
- Fieldbus-specific cables

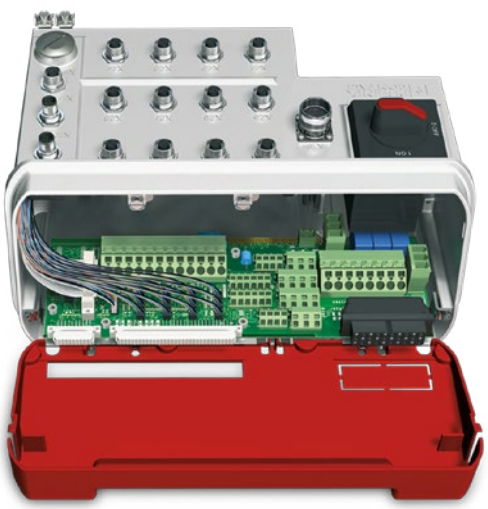
Fieldbus-specific coding

- Secure against mismatching with color and mechanical fieldbus-specific coding

Main features

Device connection technology from Phoenix Contact for distributed modules is designed for harsh ambient conditions in industrial production processes.

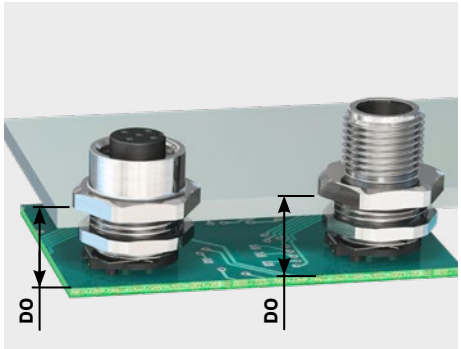
- Preassembled with litz wires or cables
- Optional shield connection
- Numerous mounting types: front, rear or modular mounting
- Metric or Pg fastening thread



Device connectors for direct PCB mounting

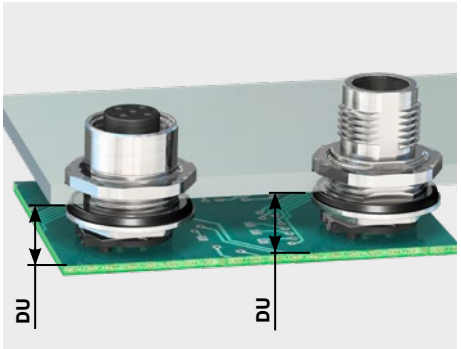
Phoenix Contact offers a comprehensive range of one- and two-piece device connectors for direct PCB mounting. The connectors are suitable for wave, THR, and SMT soldering processes and provide uniform mechanical installation conditions for front and rear mounting.

Web code:
#0205



Front mounting, two-piece

Distance DO: uniform installation conditions from PCB upper edge to housing front plate outer edge.



Rear mounting, two-piece

Distance DU: uniform installation conditions from PCB upper edge to housing front plate inner edge.

Wide range of device port solutions

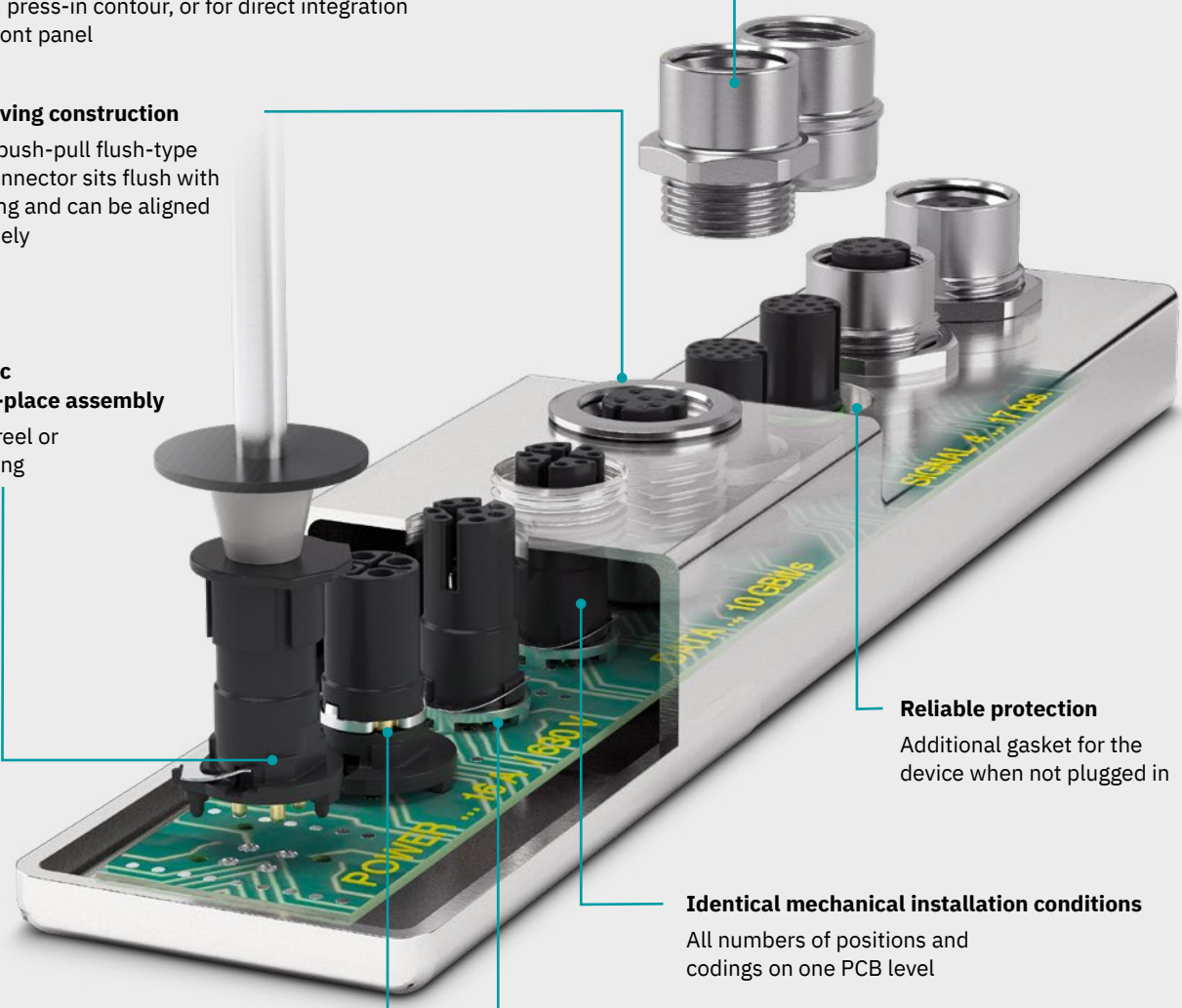
Use of housing screw connections with threaded fastening, press-in contour, or for direct integration into the front panel

Space-saving construction

The M12 push-pull flush-type female connector sits flush with the housing and can be aligned more closely

Automatic pick-and-place assembly

Tape-on-reel or tray packing



Reliable protection

Additional gasket for the device when not plugged in

Identical mechanical installation conditions

All numbers of positions and codings on one PCB level

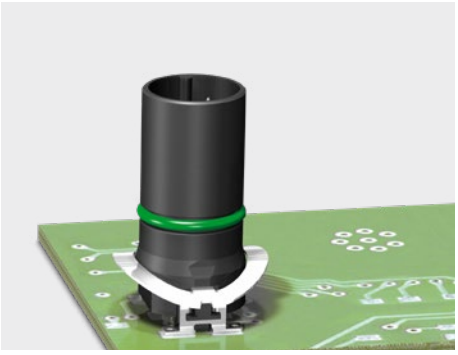
Secure power transmission
PE connection to the device housing

Seamless shielding

Shield connection to the PCB via shield spring

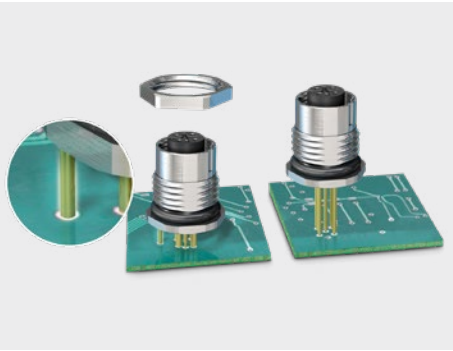
For THR soldering, two-piece

4- to 17-pos. contact carriers and housing screw connections in M12.



For SMT, two-piece

3- to 17-pos. contact carriers and housing screw connections in M8 and M12.



For wave soldering, one- and two-piece

3- to 17-pos. versions in M5, M8, and M12.

Connectors and cables for field cabling

Connect your devices quickly and safely in the field. You can wire different cable types and lengths on-site with connectors for assembly. You have access to a comprehensive range of assembled cables for quick and convenient field cabling. Halogen-free PUR cables, which we use as standard, already meet the relevant requirements in many fields of application.

Web code:
#0561

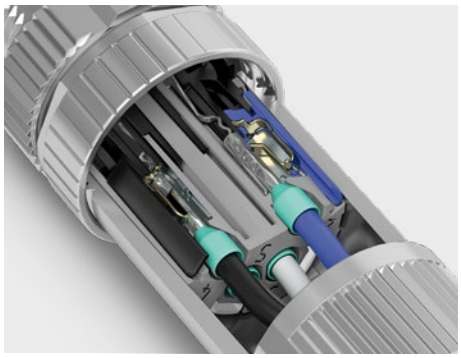
Your advantages

- Short connect time with push-pull fast-locking system
- Reliable 360° shielding even under extreme environmental influences
- Save space with high-pos. connectors
- Convenient: increased machine availability with quick and easy diagnostics
- Customer-specific assemblies and cable lengths

Your advantages at a glance

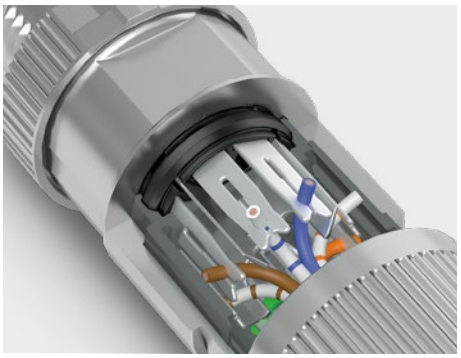
Locking with a click

- Cross-manufacturer M12 push-pull locking system for signal, data, and power transmission.



Push-Lock connection

- Tool-free wiring of all conductor types with direct insertion. Color-coded lever for reliable assembly.

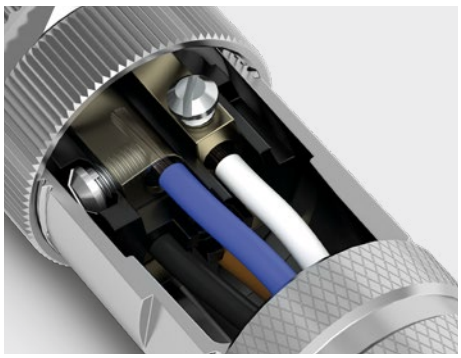


IDC insulation displacement connection

- QUICKON provides the fastest connection for M12 connectors. The insulation displacement contact makes a vibration resistant and gas-tight contact.

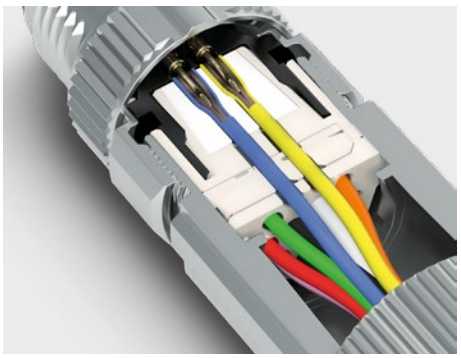
Crimp connection

- Connection can be automated for high production volumes. The extremely compact connector is suitable for railway applications.



Screw connection

- The classic solution for connection technology. You can assemble a variety of cables and cable qualities universally on site.



Pierce connection

- Compact and high-pos. connection. The contact is made via a contact pin, which pierces the single-core wires axially.

Safe shielding

Phoenix Contact offers comprehensive shielding concepts and torsion-resistant cables for safe and reliable operation of systems and robots. The large-area, material-bonding 360° shield connection with Advanced Shielding Technology is unique on the market. Liquid metal completely encloses the cable shielding during the manufacturing process and guarantees reliable EMC protection, robustness, and improved performance.

Web code: #2253

Advanced Shielding Technology

Designed by Phoenix Contact

Page navigation

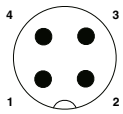
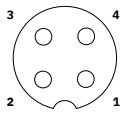
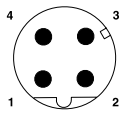
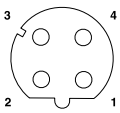
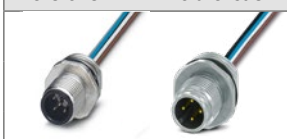
	Number of positions	3	4		5		6
	Coding	A	A	D	A	B	A
M5 to M12 circular connectors							
M12 device connectors for litz wire connection							
	Front mounting with litz wires	–	16	16	16	16	–
	Rear mounting with litz wires	–	18	18	18	18	–
	Front mounting, modular, crimp connection	–	18	18	18	18	–
	Front mounting with solder cups	–	–	–	20	–	–
	Rear mounting with solder cups	–	–	–	22	–	–
M12 device connectors with assembled cable							
	Front mounting	–	–	33	40	38/39	–
	Rear mounting	–	20/41	33/35	20/40	38/39	–
M12 device connectors for PCB connection							
	One-piece, front mounting	–	20	20	20	20	–
	One-piece, rear mounting	–	22/41	22/33/35	23/40	23/38/39	–
	Two-piece, for wave / THR soldering processes	–	24	24	24	24	–
	Two-piece, for SMD soldering processes	–	26	26	26	26	–
M12 connectors, designed for assembly / with assembled cables							
	Designed for assembly	–	48 / 49 / 52	52	48 / 49 / 52	48 / 52	–
	With assembled cables	58 / 60	58 / 60	63	58 / 60	65	
M8 device connectors with litz wires							
	Front mounting	28	29	–	–	43	29
	Rear mounting	28	29	–	–	–	29
M8 device connectors for PCB connection							
	One-piece, rear mounting	28	29	43	–	43	29
	Two-piece, for SMD soldering processes	30	31	31 / 43	–	31 / 43	31
M8 connectors, designed for assembly / with assembled cables							
	Designed for assembly	51	51	51	–	–	–
	With assembled cables	56	56 / 62	62	–	–	56
M5 device connectors with litz wires							
	Front mounting	32	32	–	–	–	–
M5 device connectors for PCB connection							
	One-piece, rear mounting	32	32	–	–	–	–

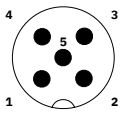
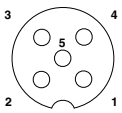
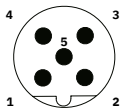
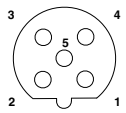
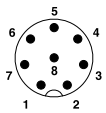
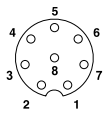
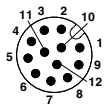
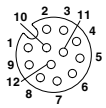
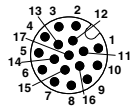
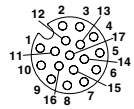
SIGNAL DATA POWER

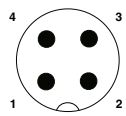
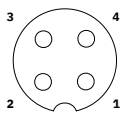
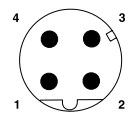
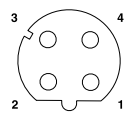
8			12	17	2+PE	3+PE	4	4+PE	4 / 4+FE	5+PE
A	X	Y	A	A	S	S	T	K	L	M
16	–	–	16	16	44	44	45	45	45	45
18	–	34	18	18	44	44	45	45	45	45
18	–	–	–	–	–	–	–	–	–	–
20	–	–	–	–	–	–	–	–	–	–
22	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
20 / 33 / 35	34	34	20	20	–	–	–	–	–	–
20	–	–	–	–	–	–	–	–	–	–
22	34	34	22	22	–	–	–	–	46	–
24	34	34	24	24	–	47	46	46	46	46
26	34	34	26	26	–	–	–	–	–	–
48 / 49 / 52	52 / 53	–	50	50	54	54	54	54	54	–
58 / 60	63	63	58	58	–	66	66	66	66	66
29	–	–	–	–	–	–	–	–	–	–
29	–	–	–	–	–	–	–	–	–	–
29	–	–	–	–	–	–	–	–	–	–
31	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
56	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–

RoHS

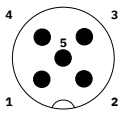
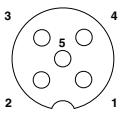
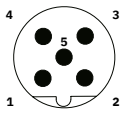
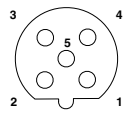
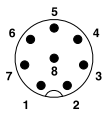
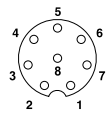
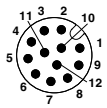
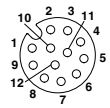
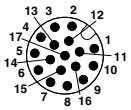
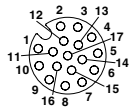
Lead-free items available

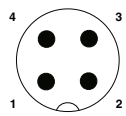
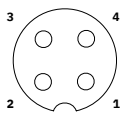
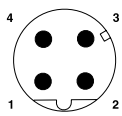
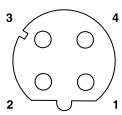
	Number of positions	**4**			
	Coding	**A**		**D**	
	Rated voltage	250 V			
	Rated current	4 A			
	Conductor cross-section	0.34 mm²			
	Assembly				
	Pin assignment	Male 	Female 	Male 	Female 
M12 device connectors, with litz wires, front mounting					
Versions with zinc die-cast housing, for screw fastening					
	**Push-pull, M16 x 1.5**	1108117	–	1027688	–
	M16 x 1.5	1523450	1523434	1551558	1535202
	Flat nut M16 x 1.5				
	M16 x 1.5, XL versions, wrench size 19	1411577	1411568	1411578	1411569
	Flat nut M16 x 1.5				
	M16 x 1.5, can be positioned	1523463	1523447	1552256	1535215
	20 mm square flange, mounting holes 4 x Ø 3.2 mm	1419784	1419797	1441626	1441639
	25 mm square flange, mounting holes 4 x Ø 2.7 mm	1419991	1420003	1440957	1440960
Versions with plastic and brass housing (nickel-plated), for screw fastening					
	Plastic M16 x 1.5	–	–	–	–
	Flat nut (plastic) M16 x 1.5				
	Brass (nickel-plated) M20 x 1.5	1408451	1408436	–	–
	Flat nut, M20 x 1.5				
Versions with stainless steel housing (1.4404), for screw fastening					
	M16 x 1.5	1405233	1458855	–	1410197
	Flat nut M16 x 1.5				
	M20 x 1.5	1408415	1408416	–	–

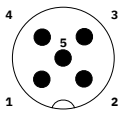
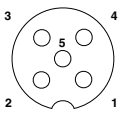
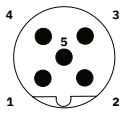
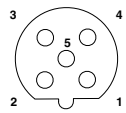
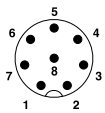
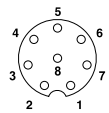
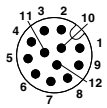
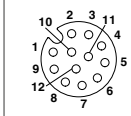
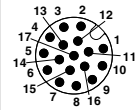
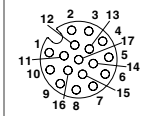
5				8		12		17	
A		B		A		A		A	
60 V				30 V		30 V		30 V	
4 A				2 A		1.5 A		1.5 A	
0.34 mm²				0.25 mm²		0.14 mm²		0.14 mm²	
Preassembled with 0.5 m long litz wires									
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
									
Web code: #0207									
1027694	–	1788121	–	1687981	–	–	–	–	–
1520055	1520039	1520013	1520000	1523492	1523476	1556265	1556252	1556304	1556294
1504097									
1411579	1411571	1411580	1411572	1411581	1411573	1411582	1411574	1411583	1411576
1504097									
1520068	1520042	1520026	1519998	1523502	1523489	–	–	–	–
1441642	1441655	1441668	1441671	1441684	1441697	1441707	1441710	1441723	1441736
1440973	1440986	1440999	1441558	1441561	1441574	1441587	1441590	1441600	1441613
1436411	–	–	–	1436424	–	–	–	–	–
1640692									
1408446	1408454	–	–	1408442	1408453	–	–	–	–
1411242									
1458868	1458871	–	–	1405221	1458842	1405238	1405242	1405243	1405244
1404983									
1452068	1452071	1452084	1452097	1452107	1452110	–	–	–	–

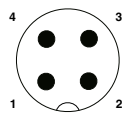
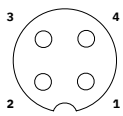
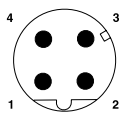
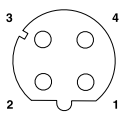
RoHS Lead-free items available	Number of positions	4			
	Coding	A		D	
	Rated voltage	250 V			
	Rated current	4 A			
	Pin assignment	Male	Female	Male	Female
					
M12 device connector, crimp connection, front mounting					
Modular versions					
	25 mm square flange, mounting holes 4 x Ø 3.2 mm				
	Preassembled contact carrier, with 0.5 m long litz wires	1440805	–	1440821	–
	Contact carrier for crimp contacts, designed for assembly [1]	1440931	–	1440944	–
	Crimp contacts Ø 1.0 mm, 0.08 mm² ... 0.5 mm²	1452356	–	1452356	–
	Crimp contacts Ø 0.8 mm, 0.08 mm² ... 0.34 mm²	–	–	–	–
	Crimping tool	1212510			
Device connectors with Push-Lock connection					
	Connection cross-section	0.14 mm² ... 0.75 mm²		0.14 mm² ... 0.75 mm²	
	M20 fastening thread with anti-rotation protection	1139802	1139803	1139796	1139800
M12 device connectors, with litz wires, rear mounting					
	Conductor cross-section	0.34 mm²		0.34 mm²	
	Assembly				
Versions with zinc die-cast housing, for screw fastening					
	Push-pull, M16 x 1.5	1108128	–	1027691	–
	M12 x 1	1551875	–	1551901	–
	M16 x 1.5	1419629	1419632	1419603	1419616
	M16 x 1.5, XL versions, wrench size 19	1411591	1411584	1411592	1411585
Versions with plastic housing, for screw fastening					
	Pg9	–	–	–	–
Versions with stainless steel housing (1.4404), for screw fastening					
	Pg9	1405239	1405240	–	–

[1] The information on the rated current is valid for the maximum connection cross-section.

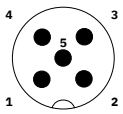
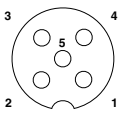
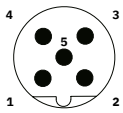
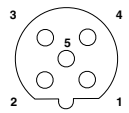
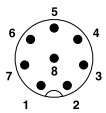
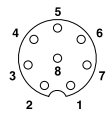
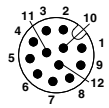
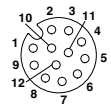
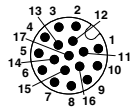
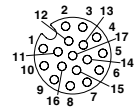
5				8		12		17	
A		B		A		A		A	
60 V				30 V		30 V		30 V	
4 A				2 A		1.5 A		1.5 A	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
									
Web code: #0208									
1419959									
1440818	–	1440759	–	1457827	–	–	–	–	–
1419988	–	1440915	–	1440928	–	–	–	–	–
1452356	–	1452356	–	–	–	–	–	–	–
–	–	–	–	1452372	–	–	–	–	–
Web code: #2405									
0.14 mm² ... 0.75 mm²									
1139804	1139805	–	–	–	–	–	–	–	–
Web code: #0209									
0.34 mm²		0.34 mm²		0.25 mm²		0.14 mm²		0.14 mm²	
Preassembled with 0.5 m long litz wires									
1027697	–	1788122	–	1788124	–	–	–	–	–
1551888	–	1551891	–	1551914	–	1437122	–	1437135	–
1419645	1419658	1419661	1419674	1419687	1419690	1419700	1419713	1419726	1419739
1411593	1411586	1411594	1411587	1411595	1411588	1411596	1411589	1411597	1411590
–	1436356	–	–	–	1436369	–	–	–	–
1554681	1554717	–	–	1554694	1554720	–	–	–	–

RoHS Lead-free items available	Number of positions	4			
	Coding	A		D	
	Rated voltage	250 V			
	Rated current	4 A			
	Pin assignment	Male	Female	Male	Female
					
M12 device connectors, with cable, rear mounting					
Versions for screw fastening, shielded					
	M16 x 1.5 **Cable length: 1 m, PUR black**	1419399	1419302	–	–
	M16 x 1.5 **Cable length: 2 m, PUR black**	1419386	1419315	–	–
Control cabinet feed-throughs for screw fastening					
	M16 x 1.5 **Male to female**	–	–	–	–
	M16 x 1.5 **Female to female**	–	–	–	1424326
M12 device connectors, solder connection, front mounting					
Versions for PCB mounting, with torsion protection, for wave soldering processes					
	20 mm square flange, **direct PCB mounting**	1456417	1456420	1456394	1456404
Versions with solder cups					
	M12 x 1	–	–	–	–
	M16 x 1.5	–	–	–	–

5				8		12		17	
A		B		A		A		A	
60 V				30 V		30 V		30 V	
4 A				2 A		1.5 A		1.5 A	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
									
Web code: #0210									
1419409	1419328	–	–	1419425	1419357	1442227	1442188	1442308	1442269
1419412	1419331	–	–	1419438	1419344	1442230	1442191	1442311	1442272
1551671	–	1551684	–	1551697	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–
Web code: #0212									
1456433	1456446	1456459	1456462	1408574	1408573	–	–	–	–
1436437	–	–	–	1436440	–	–	–	–	–
1436398	–	–	–	1436408	–	–	–	–	–

RoHS Lead-free items available	Number of positions	4			
	Coding	A		D	
	Rated voltage	250 V			
	Rated current	4 A			
	Pin assignment	Male	Female	Male	Female
					
M12 device connectors, solder connection, rear mounting, for wave soldering processes					
Versions with brass or zinc die-cast housing, one-piece, straight, for screw fastening (6 mm solder pins)					
	Push-pull, M16 x 1.5	1108002	–	1027680	–
	M12 x 1	1551820	–	1551859	–
	M16 x 1.5	1419742	1419755	1441749	1441752
	M12 x 1, with shield contact	1552955	–	1552984	–
	M16 x 1.5 with shield contact	1419768	1419771	1441862	1441875
Versions with plastic housing, one-piece, straight for screw fastening					
	Pg9	–	–	–	–
	Pg9 with solder cups (max. 0.34 mm²)	–	–	–	–
	Pg9 with solder cups (max. 0.25 mm²)	–	–	–	–
Versions with stainless steel housing (1.4404), one-piece, straight for screw fastening					
	Pg9	1404979	1404974	–	–
Two-piece versions including housing					
	Straight, shielded, for fastening in the feed-through hole	–	–	–	–
	Straight, for fastening in the feed-through hole	–	–	–	1396602
	Angled, shielded	–	–	–	–
	Angled	–	–	1396620	1396603

[1] Cannot be combined with two-piece contact carriers for PCB mounting for THR, SMD, or wave soldering processes.

5				8		12		17	
A		B		A		A		A	
60 V				30 V		30 V		30 V	
4 A				2 A		1.5 A		1.5 A	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
									
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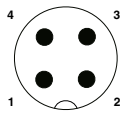
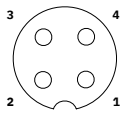
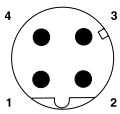
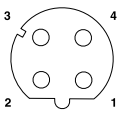
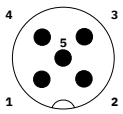
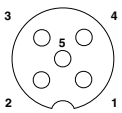
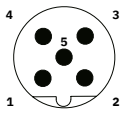
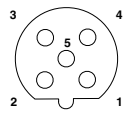
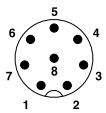
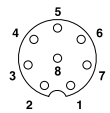
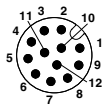
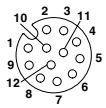
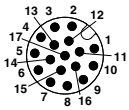
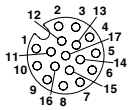
1027676	–	–	–	–	–	–	–	–	–
1551833	–	1551846	–	1551862	–	1559945	–	1559974	–
1441765	1441778	1441781	1441794	1441804	1441817	1441820	1441833	1441846	1441859
1552968	–	1552971	–	1552997	–	1437106	–	1437119	–
1441888	1441891	1441901	1441914	1441927	1441930	1441943	1441956	1441969	1441972
–	1436330	–	–	–	1436343	–	–	–	–
–	1436314	–	–	–	–	–	–	–	–
–	–	–	–	–	1436327	–	–	–	–
1554746	1554733	–	–	1529807	1529797	–	–	–	–
1396611	1421685	1396618	1437180	–	–	–	–	–	–
1396605	1396599	1514883	1396615	1424017	1556854	–	–	–	–
1396612	1396607	–	–	–	–	–	–	–	–
1396606	1396608	1396609	1396610	–	–	–	–	–	–

RoHS Lead-free items available					
	Number of positions	4			
	Coding	A		D	
	Rated voltage	250 V			
	Rated current	4 A			
	Pin assignment	Male	Female	Male	Female
					
M12 device connector, solder connection, for reflow and wave soldering processes					
Two-piece, THR contact carriers					
	Straight, shielded, THR, tray packing	1439939	1439955	1552214	1551451
	Straight, shielded, THR, tape-on-reel	1457500 [7]	1457623 [7]	1457513 [7]	1457636 [7]
	Straight, THR, tray packing	1437164	1439942	–	1414071
	Straight, THR, tape-on-reel	1457490 [7]	1457610 [7]	–	1195616 [7]
Two-piece, THR contact carriers, angled					
	Angled, THR, tape-on-reel	1028588	1706527	–	1028581
Two-piece, THR and wave soldering contact carriers, angled					
	Shielded, wave soldering, blister packaging	1439887	1432444	1436673	1432457
	Wave soldering, blister packaging	1436660	1436628	–	–
Two-piece, housing screw connections for THR and wave soldering contact carriers					
Front mounting					
	Push-pull	**Male M12 x 1 / female M12 x 1**			
	Screw locking mechanism				
	Push-pull	**Male M12 x 1 / female M12 x 1, flat gasket**			
	Push-pull	**Male M14 x 1 / female M14 x 1**			
	Screw locking mechanism				
	Push-pull	**Female countersunk M16 x 1, flat gasket**			
	Flat nut				
Rear mounting					
	Push-pull	**Male M15 x 1 / female M16 x 1**			
	Screw locking mechanism	**Male M15 x 1 / female M15 x 1**			
Press-in versions					
	Push-pull	**Male / female**			
	Screw locking mechanism				

[1] [2] Distance from PCB upper edge to housing front plate inner edge: DU = [1] 6 mm [2] 6.8 mm, more information from page 10.
[3] [4] [5] [6] Distance from PCB upper edge to housing front plate outer edge: DO = [3] 6 mm [4] 7.5 mm [5] 9 mm [6] 18.5 mm, more information from page 10.
[7] Contact carriers with assembly pad.

5				8		12		17	
A		B		A		A		A	
60 V				30 V		30 V		30 V	
4 A				2 A		1.5 A		1.5 A	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
									
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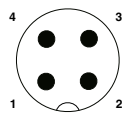
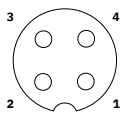
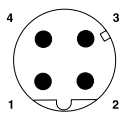
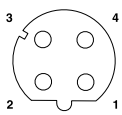
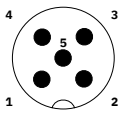
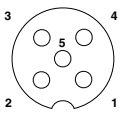
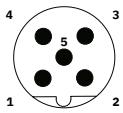
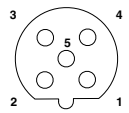
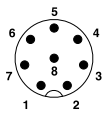
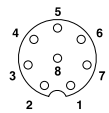
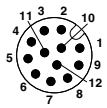
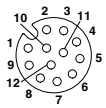
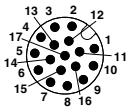
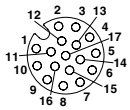
1457539[7]	1457652[7]	1457542[7]	1457665[7]	1457568[7]	1457681[7]	1457584[7]	1457704[7]	1457607[7]	1457720[7]
1552227	1551448	–	1414070	1552269	1557808	1441985[7]	1441970[7]	1442007[7]	1441998[7]
1457526[7]	1457649[7]	–	–	1457555[7]	1457678[7]	1457571[7]	1457694[7]	1457597[7]	1457717[7]
1699744	1028585	–	–	–	1506690				
1439890	1432431	1436699	1432512	1437038	1437009	1424198	1424199	1424200	1424201
1436686	1436644	–	1436657	1436987	1436990	1424194	1424195	1424196	1424197
Male: 1454488[4] / female: 1454487[4]									
Male: 1416145[4] / female: 1416144[4]									
Male: 1454490[3] / female: 1233779[3]									
Male: 1341713[5] / female: 1249211[5]									
Male: 1417984[5] / female: 1417989[5]									
Female: 1233777[6]									
M12 x 1: 1405639 / M14 x 1: 1412077 / M16 x 1: 1312511									
Male: 1027661[1] / 1454489[2] / female: 1249212[1] / 1233780[2]									
Male: 1413997[1] / 1413996[2] / female: 1414004[1] / 1414003[2]									
Male: 1454498[5] / female: 1454499[5]									
Male: 1437892[5] / female: 1437889[5]									

RoHS Lead-free items available	Number of positions	4			
	Coding	A		D	
	Rated voltage	250 V			
	Rated current	4 A			
	Pin assignment	Male	Female	Male	Female
					
M12 device connector, solder connection, for reflow soldering processes					
Two-piece, SMD contact carriers					
	Straight, SMD, tray packing	1411924[9]	1411907	1411925[9]	1411912
	Straight, SMD, tape-on-reel	1411982[9]	1411974	1411983[9]	1411975
	Straight, shielded, SMD, tray packing, additional gasket for the device when not plugged in	1411955[9]	1411949	1411956[9]	1411950
	Straight, shielded, SMD, tape-on-reel, additional gasket for the device when not plugged in	1412010[9]	1412004	1412011[9]	1412005
	Straight, SMD, tray packing, additional gasket for the device when not plugged in	1411941[9]	1411935	1411942[9]	1411936
	Straight, SMD, tape-on-reel, additional gasket for the device when not plugged in	1411996[9]	1411990	1411997[9]	1411991
	Straight, shielded, SMD, tray packing	1653254[9]	1647191	1653256[9]	1647193
	Straight, shielded, SMD, tape-on-reel	1653255[9]	1647192	1653257[9]	1647194
Two-piece, housing screw connections for SMD contact carriers					
Front mounting					
	Push-pull	**Male M14 x 1 / female M16 x 1**			
	Screw lock mech.	**Male M14 x 1 / female M14 x 1**			
	Push-pull	**Female countersunk M16 x 1, flat gasket**			
	Flat nut				
Rear mounting					
	Push-pull	**Male M15 x 1 / female M16 x 1**			
	Screw locking mechanism	**Male M15 x 1 / female M15 x 1**			
Press-in versions					
	Push-pull	**Male / female**			
	Screw locking mechanism				

[1] [2] Distance from PCB upper edge to housing front plate inner edge: DU = [1] 6 mm [2] 6.8 mm, more information from page 10.
[3] [4] [5] [6] [7] Distance from PCB upper edge to housing front plate outer edge: DO = [3] 6 mm [4] 7.5 mm [5] 9 mm [6] 18.5 mm, [7] 17 mm, more information from page 10.
[8] Not with additional gasket for the device when not plugged in.
[9] Contact carriers with assembly pad.

5				8		12		17	
A		B		A		A		A	
60 V				30 V		30 V		30 V	
4 A				2 A		1.5 A		1.5 A	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
									
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1411984[9]	1411976	1411985[9]	1411977	1411986[9]	1411978	1411987[9]	1411979	1411988[9]	1411980
1411957[9]	1411951	1411958[9]	1411952	1411959[9]	1411953	1411960[9]	1411954	1411961[9]	1411966[8]
1412012[9]	1412006	1412013[9]	1412007	1412014[9]	1412008	1412015[9]	1412009	1412016[9]	1412018[8]
1411943[9]	1411937	1411944[9]	1411938	1411945[9]	1411939	1411946[9]	1411940	1411947[9]	–
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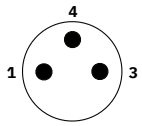
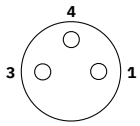
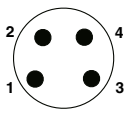
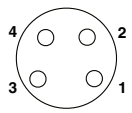
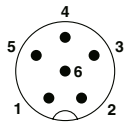
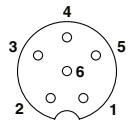
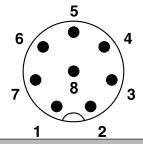
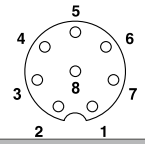
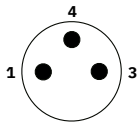
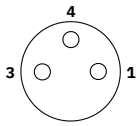
1653258[9]	1647195	1653259[9]	1647197	1647207[9]	1647199	–	–	–	–
1653837[9]	1647196	1653260[9]	1647198	1647208[9]	1647201	–	–	–	–
Male: 1107999[5] / female: 1454494[5]									
Male: 1412078[5] / female: 1412079[5]									
Female: 1454497[7]									
M14 x 1: 1412077 / M16 x 1: 1312511									
Male: 1107993[1] / female: 1454492[1]									
Male: 1414000[1] / female: 1414021[1]									
Male: 1454496[5] / female: 1454495[5]									
Male: 1412080[5] / female: 1412081[5]									

RoHS Lead-free items available	Number of positions	3	
	Coding		
	Rated voltage	50 V AC / 60 V DC	
	Rated current	4 A	
	Pin assignment	Male  	Female 
M8 device connectors, with litz wires			
	Conductor cross-section	0.25 mm²	
	Assembly		
Front mounting			
	M8 x 0.5 fastening thread	1500334	1500350
	M8 flat nut		
	M10 fastening thread	–	–
Rear mounting			
	M8 x 1 fastening thread	1453478	–
	M10 fastening thread	–	1456080
	M12 fastening thread	–	1453449
M8 device connector, solder connection, for wave soldering processes			
Rear mounting, one-piece			
	M8 fastening thread, straight	1694334	–
	M10 fastening thread, straight	–	–
	M12 fastening thread, straight	–	1694363
	M8 fastening thread, straight, shielded	1455997	–
	M8 fastening thread, angled, shielded	1456035	–
	M10 fastening thread, straight, shielded	–	1456116
	M10 fastening thread, angled, shielded	–	1456145
Rear mounting, two-piece			
	M8 fastening thread, straight	–	1524776
	M8 fastening thread, angled	1440070	1524788

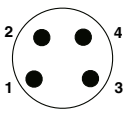
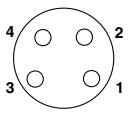
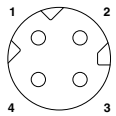
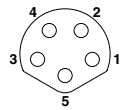
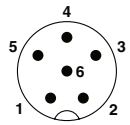
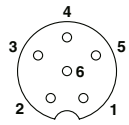
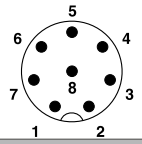
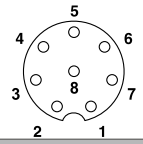
4		6		8	
A					
		30 V AC / 30 V DC			
		1.5 A			
Male 	Female 	Male 	Female 	Male 	Female 
Web code: #0216					
		0.14 mm²			
Preassembled with 0.5 m long litz wires					
1500347	1500363	1542664	1542677	–	–
1504071					
–	–	–	–	1424232	1424231
1453481	–	1453494	–	1424230	–
–	1456093	–	1456103	–	–
–	1453452	–	1453465	–	–
Web code: #0218					
1694347	–	1436521	–	1424238	–
–	–	–	–	–	1424237
–	1694376	–	1436534	–	–
1456019	–	1456022	–	1424236	–
1456048	–	1424244	–	–	–
–	1456129	–	1456132	–	1424235
–	1456158	–	1424243	–	–
–	1524789	–	–	–	–
1440096	1526169	–	–	–	–

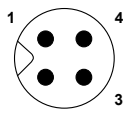
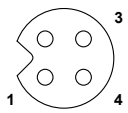
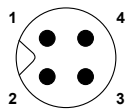
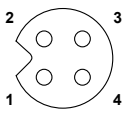
RoHS Lead-free items available	Number of positions	3	
	Coding	A	
	Rated voltage	50 V AC / 60 V DC	
	Rated current	4 A	
	Pin assignment	Male 	Female 

M8 device connector, solder connection, for reflow soldering processes

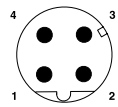
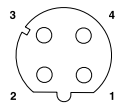
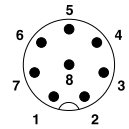
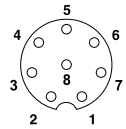
Two-piece, SMD contact carriers			
	Straight, SMD, tray packing	1412225[6]	1412220
	Straight, SMD, tape-on-reel	1412248[6]	1412243
	Straight, shielded, SMD, tray packing, additional gasket for the device when not plugged in	1412240[6]	1412235
	Straight, shielded, SMD, tape-on-reel, additional gasket for the device when not plugged in	1412263[6]	1412257
	Straight, SMD, tray packing, additional gasket for the device when not plugged in	1412233[6]	1412227
	Straight, SMD, tape-on-reel, additional gasket for the device when not plugged in	1412255[6]	1412250
	Straight, shielded, SMD, tray packing	1653248[6]	1653840
	Straight, shielded, SMD, tape-on-reel	1653249[6]	1647176
Two-piece, housing screw connections for SMD contact carriers			
Front mounting			
	Screw locking mechanism	**Male M10 x 0.75 / female M10 x 0.75**	
	Flat nut, M10 x 0.75		
Rear mounting			
	Screw locking mechanism	**Male M12 x 1 / female M12 x 1**	
Press-in versions			
	Screw locking mechanism	**Male / female**	

[1] [2] Distance from PCB upper edge to housing front plate inner edge: DU = [1] 6 mm [2] 6.8 mm, more information from page 10.
[3] [4] [5] Distance from PCB upper edge to housing front plate outer edge: DO = [3] 6 mm [4] 7.5 mm [5] 9 mm, more information from page 10.
[6] Contact carriers with assembly pad.

4			5	6		8	
A		D	B	A		A	
50 V AC / 60 V DC		60 V AC / 60 V DC	30 V AC / 30 V DC	30 V AC / 30 V DC		30 V AC / 30 V DC	
4 A			3 A	1.5 A		1.5 A	
Male	Female	Female	Female	Male	Female	Male	Female
							
Web code: #0219							
1412226[6]	1412221	–	1412222	–	1412223	–	1412224
1412249[6]	1412244	1068453	1412245	–	1412246	–	1412247
1412241[6]	1412236	–	1412237	–	1412238	–	1412239
1412264[6]	1412258	1068454	1412259	–	1412261	–	1412262
1412234[6]	1412228	–	1412229	–	1412230	–	1412232
1412256[6]	1412251	1163177	1412252	–	1412253	–	1412254
1653250[6]	1647177	1647179	1647186	–	1647181	–	1647183
1653247[6]	1647178	1647180	1647189	–	1647182	–	1647185
Male: 1412502[5] / female: 1412504[5]							
1412508							
Male: 1412505[1] / female: 1412506[1]							
Male: 1412500[5] / female: 1412501[5]							

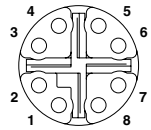
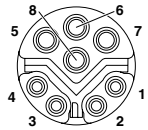
RoHS Lead-free items available	Number of positions	3		4	
	Coding	A			
	Rated voltage	60 V			
	Rated current	1 A		1 A	
	Conductor cross-section	0.14 mm²			
	Pin assignment	Male	Female	Male	Female
					
M5 device connector					**Web code:** #0220
Front mounting, preassembled with 0.5 m long litz wires					
	M5 fastening thread	1530582	1530605	1530595	1530618
	Flat nut with M5 thread	1535901			
Rear mounting, one-piece for wave soldering processes					
	M5 fastening thread	1530621	1530647	1530634	1530650
	Flat nut with M5 thread	1535901			

DATA

RoHS Lead-free items available	Number of positions		4		8	
	Coding		D		A	
	Pin assignment		Male	Female	Male	Female
						
M12 device connectors for networks						**Web code:** #0222
Front mounting, with assembled cable						
Ethernet	**M16 x 1.5, can be positioned, water blue, cable type 93E**	0.5 m	–	1136432	–	–
		2 m	–	1405837	–	–
Rear mounting, with assembled cable						
Ethernet	**M16 x 1.5, water blue, cable type 93E**	0.5 m	–	1413936	–	–
		2 m	–	1405866	–	–
	M16 x 1.5, water blue, cable type 94B	0.5 m	–	1401057	–	
		5 m	–	–	–	1407877
	M16 x 1.5, water blue, cable type 94C	2 m	–	–	–	1412820
Rear mounting, for wave soldering processes						
Ethernet	**M16 x 1.5, one-piece, contact carrier, water blue**		1456514	1456527	1456530	1456543
Rear mounting, with assembled cable						
PROFI NET	**Pg9, green, cable type 93B**	**0.5 m**	1437805	1437766	–	–
		1 m	1437818	1437779	–	–
		2 m	1437821	1437782	–	–
		5 m	1437834	1437795	–	–
	M16 x 1.5, green, cable type 93C	2 m	–	1416209	–	–
	M16 x 1.5, green, cable type 93R	5 m	–	1416263	–	–
Rear mounting, for wave soldering processes						
PROFI NET	**M16 x 1.5, one-piece, contact carrier, green**		1456556	1456569	–	–

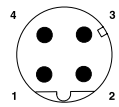
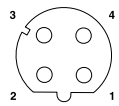
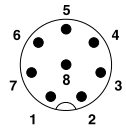
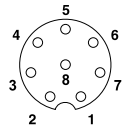
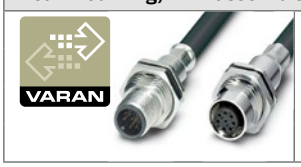
For additional 4-pos., D-coded and 8-pos. A-coded connectors, see section Signals – M12, more information from page 16.

DATA

RoHS Lead-free items available	Number of positions		8	
	Coding		X (CAT6$_A$)	Y (hybrid)
	Pin assignment		Female 	
M12 device connectors for networks				**Web code:** #0224
Rear mounting, with assembled cable				
Ethernet	**M16 x 1.5, water blue, cable type 94F**	0.5 m	1424135	–
		1 m	1424148	–
		2 m	1424151	–
		5 m	1424164	–
Hybrid	**M16 x 1.5, black, cable type 94H**	0.5 m	–	1407504
		1 m	–	1407505
		2 m	–	1407506
		5 m	–	1407507
Rear mounting, preassembled with 0.5 m long litz wires				
Hybrid	**M16 x 1.5**		–	1407618
Rear mounting, for wave soldering processes				
CAT6A 10 Gigabit/s Ethernet Hybrid 	**M16 x 1.5, one-piece, wave soldering**		1424177	1407503
	Pg9, one-piece, wave soldering		1404741	–
Control cabinet feed-through, rear / screw mounting				
	M16 x 1.5, female to female		1822399	–
Two-piece, contact carriers for wave and reflow soldering processes				
CAT6A 10 Gigabit/s Ethernet 	**Straight, shielded, THR, blister packaging**		1402457	–
	Straight, shielded, THR, tape-on-reel		1413446[1)]	–
	Straight, shielded, SMD, tape-on-reel		1411964[1)]	–
	Straight, shielded, SMD, tape-on-reel		1081252[1)]	–
	Angled, shielded, wave soldering		1424180	–
CAT6A 10 Gigabit/s Ethernet 	**Straight, shielded, THR, blister packaging**		–	1405225
	Straight, shielded, THR, tape-on-reel		–	1413445[1)]
	Straight, shielded, SMD, tray packing		–	1411965[1)]
	Straight, shielded, SMD, tape-on-reel		–	1069566[1)]
	Angled, shielded, wave soldering		–	1424193

Housing screw connections for THR and wave soldering contact carriers, more information from page 24.
Housing screw connections for SMD contact carriers, more information from page 26.
[1)] Contact carriers with assembly pad.

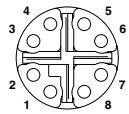
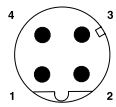
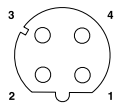
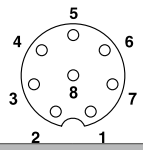
DATA

RoHS Lead-free items available	Number of positions		4		8	
	Coding		D		A	
	Pin assignment		Male	Female	Male	Female
						
M12 device connectors for networks						**Web code:** #0226
Rear mounting, with assembled cable						
	M16 x 1.5, red, cable type 93K	0.5 m	1419158	1419154	–	–
		1 m	1419159	1419155	–	–
		2 m	1419160	1419156	–	–
		5 m	1419161	1419157	–	–
Rear mounting, for wave soldering processes						
	M16 x 1.5, one-piece, contact carrier, red		1457979	1457966	–	–
Rear mounting, with assembled cable						
	M16 x 1.5, green, cable type 93B	0.5 m	1419138	1419134	–	–
		1 m	1419139	1419135	–	–
		2 m	1419140	1419136	–	–
		5 m	1419141	1419137	–	–
Rear mounting, for wave soldering processes						
	M16 x 1.5, one-piece, contact carrier, green		1456556	1456569	–	–
Rear mounting, with assembled cable						
	**M16 x 1.5, black, cable type 970, 6-wire**	0.5 m	–	–	1429059	1429091
		1 m	–	–	1429062	1429101
		2 m	–	–	1429075	1429114
		5 m	–	–	1429088	1429127

For additional 4-pos., D-coded and 8-pos. A-coded connectors, see section Signals – M12, more information from page 16.

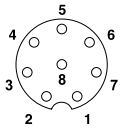
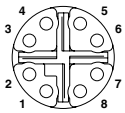
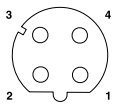
DATA

RoHS

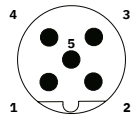
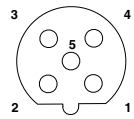
	Number of positions		8	4		8
	Coding		X	D		A
	Pin assignment		Female 	Male 	Female 	Female 
M12 device connectors to RJ45						**Web code:** #3760
	CAT6$_A$, 94F	0.5 m	1417828	–	–	–
		1 m	1412315	–	–	–
		2 m	1412316	–	–	–
		5 m	1419482	–	–	–
	CAT5 **93E**	0.5 m	–	1423476	1404205	–
		1 m	–	–	1404206	–
		2 m	–	–	1406085	–
		5 m	–	–	1404208	–
	93B	0.5 m	–	–	1404367	–
		1 m	–	–	1404368	–
		2 m	–	–	1416158	–
		5 m	–	–	1404369	–
	93C	0.5 m	–	–	-	–
		1 m	–	–	-	–
		2 m	–	–	1416212	–
		5 m	–	–	-	–
	93K	0.5 m	–	–	-	–
		1 m	–	–	-	–
		2 m	–	–	1419167	–
		5 m	–	–	-	–
	94B	0.5 m	–	–	–	1403535
		1 m	–	–	–	1418004
		2 m	–	–	–	-
		5 m	–	–	–	1412082
	94C	0.5 m	–	–	–	-
		1 m	–	–	–	1403374
		2 m	–	–	–	1413095
		5 m	–	–	–	-

For more cable lengths, visit www.phoenixcontact.com.

DATA

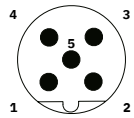
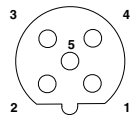
RoHS	Number of positions	8		8		4	
	Coding	A		X		D	
	Orientation	180°	90°	180°	90°	180°	90°
	Pin assignment	Female 		Female 		Female 	
IP20 / IP6X control cabinet feed-through							**Web code:** #0339
	Ethernet **CAT5**	1414396	1414393	–	–	–	–
	Ethernet **CAT6$_A$**	–	–	1404549	1404548	–	–
	PROFINET **CAT5**	–	–	–	–	1414398	1414397

DATA

RoHS Lead-free items available	Number of positions		5	
	Coding		B	
	Pin assignment		Male 	Female 
M12 device connectors for fieldbuses				Web code: #0229
Front mounting, with assembled cable				
	M16 x 1.5, can be positioned, violet, cable type 910	0.5 m	1525555	1525597
		1 m	1525568	1525607
		2 m	1519561	1519574
		5 m	1525571	1525610
Rear mounting, with assembled cable				
	M16 x 1.5, violet, cable type 910	0.5 m	1534342	1534384
		1 m	1534355	1534397
		2 m	1534368	1534407
		5 m	1534371	1534410
Rear mounting, for wave soldering processes				
	M16 x 1.5, one-piece, contact carrier, violet		1456475	1456488

For additional 5-pos.. B-coded connectors, see section Signals – M12, more information from page 16.

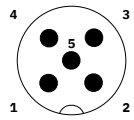
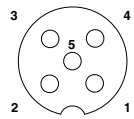
DATA

RoHS Lead-free items available	Number of positions	5	
	Coding	B	
	Pin assignment	Male 	Female 

M12 device connectors for fieldbuses				Web code: #0230
Front mounting, with assembled cable				
	M16 x 1.5, green, cable type 910	0.5 m	1529629	1529742
		1 m	1530223	1529755
		2 m	1529726	1529768
		5 m	1529739	1529771
Rear mounting, with assembled cable				
	M16 x 1.5, green, cable type 900	0.5 m	1534504	1534546
		1 m	1534517	1534559
		2 m	1534520	1534562
		5 m	1534533	1534575
	M16 x 1.5 EMC nut		1440164	–
Rear mounting, for wave soldering processes				
	M16 x 1.5, one-piece, contact carrier, green		1456572	1456585
	M16 x 1.5 EMC nut		1440164	–

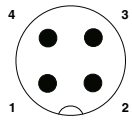
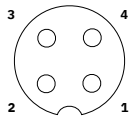
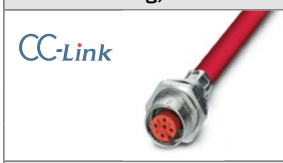
For additional 5-pos.. B-coded connectors, see section Signals – M12, more information from page 16.

DATA

RoHS Lead-free items available	Number of positions		5	
	Coding		A	
	Pin assignment		Male 	Female 
M12 device connectors for fieldbuses				Web code: #0231
Front mounting, with assembled cable				
	M16 x 1.5, violet, cable type 920	0.5 m	1525623	1525678
		1 m	1525636	1525681
		2 m	1525649	1525694
		5 m	1525652	1525704
Rear mounting, with assembled cable				
	M16 x 1.5, violet, cable type 920	0.5 m	1534423	1534465
		1 m	1534436	1534478
		2 m	1534449	1534481
		5 m	1534452	1534494
	M16 x 1.5 EMC nut		1440164	
Rear mounting, for wave soldering processes				
	M16 x 1.5, one-piece, contact carrier, violet		1456491	1456501
	M16 x 1.5 EMC nut		1440164	
	Pg9, one-piece, stainless steel (1.4404)		1554746	1554733
	M16 x 1.5, one-piece, contact carrier, blue		1457953	1457940

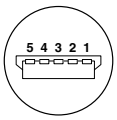
For additional 5-pos.. A-coded connectors, see section Signals – M12, more information from page 16.

DATA

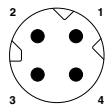
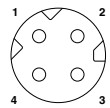
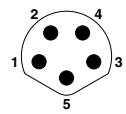
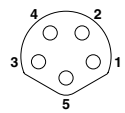
RoHS **Lead-free items available**	Number of positions		**4**	
	Coding		**A**	
	Pin assignment		Male  	Female 
M12 device connectors for fieldbuses				**Web code:** #0232
Rear mounting, with assembled cable				
	**M16 x 1.5, red, cable type 990**	0.5 m	–	1559819
		1 m	–	1559822
		2 m	–	1559835
		5 m	–	1559848
Rear mounting, for wave soldering processes				
	M16 x 1.5, one-piece, contact carrier, red		1457856	1457869
Rear mounting, for wave soldering processes, shielded				
	M16 x 1.5, one-piece, contact carrier, yellow		1457872	–

For additional 4-pos.. A-coded connectors, see section Signals – M12, more information from page 16.

DATA

RoHS **Lead-free items available**	Connection	USB
	Pin assignment	
		
M12 device connectors for USB		**Web code:** #0235
Rear mounting, for wave soldering processes		
	M12 x 1, Mini-B USB 2.0	1440711

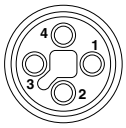
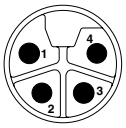
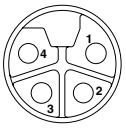
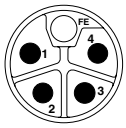
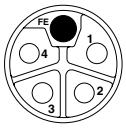
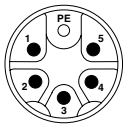
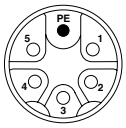
DATA

RoHS Lead-free items available	Number of positions	4		5	
	Coding	D		B	
	Pin assignment	Male	Female	Male	Female
					
M8 device connectors for fieldbuses					Web code: #0237
Front mounting, preassembled with 0.5 m long litz wires					
DeviceNet	**M10 fastening thread**	–	–	1424234	1424233
Rear mounting, for wave soldering processes					
PROFINET Ethernet DeviceNet	**M8 fastening thread, straight, shielded**	1679940	–	1679927	–
	M8 fastening thread, angled, shielded	1679941	–	1679929	–
	M10 fastening thread, straight, shielded	–	1679942	–	1679932
	M10 fastening thread, angled, shielded	–	1679944	–	1679936
Two-piece, SMD contact carriers for reflow soldering processes					
DeviceNet	**Straight, SMD, tray packing**	–	–	–	1412222
	Straight, SMD, tape-on-reel	–	–	–	1412245
	Straight, SMD, tape-on-reel, additional gasket for the device when not plugged in	–	–	–	1412252
	shielded	–	–	–	1412259
	Straight, SMD, tray packing, additional gasket for the device when not plugged in	–	–	–	1412229
	shielded	–	–	–	1412237
PROFINET Ethernet	**Straight, SMD, tape-on-reel**	–	1068453	–	–
	Straight, SMD, tape-on-reel, additional gasket for the device when not plugged in	–	1068454	–	–
	shielded				

Housing screw connections for SMD contact carriers, more information from page 30.

RoHS Lead-free items available						
	Number of positions		3(2+PE)		4(3+PE)	
	Coding		S		S	
	Rated voltage		630 V		630 V	
	Rated current		16 A		12 A	
	Conductor cross-section		16 AWG		16 AWG	
	Pin assignment		Male	Female	Male	Female
M12 device connectors up to 16 A / 630 V						
Front mounting, preassembled with 0.2 m / 0.5 m long litz wires						
	M16 x 1.5 fastening thread, one-piece		1411655 [1]	1411654 [1]	1424139 [1]	1424137 [1]
	Flat nut M16 x 1.5		1504097			
	M16 x 1.5 fastening thread, XL versions, wrench size 19	**litz wires: 16 AWG**	–	–	1411607 [1]	1411605 [1]
		Litz wires: 2.5 mm²	–	–	–	–
		PROFINET-specified, litz wires: 16 AWG	–	–	–	–
		PROFINET-specified, Litz wires: 2.5 mm²	–	–	–	–
	Flat nut M16 x 1.5		–	–		
Rear mounting, preassembled with 0.2 / 0.5 m long litz wires						
	M16 x 1.5 fastening thread, one-piece		1411653 [1]	1411652 [1]	1424132 [1]	1424133 [1]
	M16 x 1.5 fastening thread, XL versions, wrench size 19	**litz wires: 16 AWG**	–	–	1411603 [1]	1411598 [1]
		Litz wires: 2.5 mm²	–	–	–	–
		PROFINET-specified, litz wires: 16 AWG	–	–	–	–
		PROFINET-specified, Litz wires: 2.5 mm²	–	–	–	–
Panel feed-throughs with Push-Lock connection						
	Connection cross-section		–	–	–	–
	M20 fastening thread with anti-rotation protection		–	–	–	–

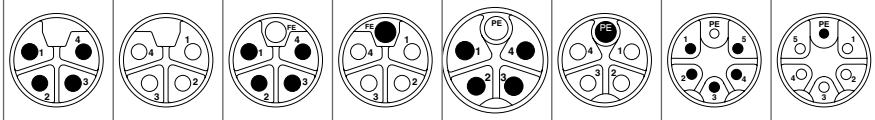
L-coding, 4+FE-pos.: FE not connected to accessible metal parts, no protective function.
[1] With 0.5 m long litz wires
[2] With 0.2 m long litz wires
[3] Deviation from the standard color of black: gray contact carrier

4				5(4+FE)		5(4+PE)		6(5+PE)	
T		L		L		K		M	
63 V		63 V		63 V		630 V		630 V	
12 A		12 A / 16 A		12 A / 16 A		12 A / 16 A		8 A	
16 AWG		16 AWG / 2.5 mm²		16 AWG / 2.5 mm²		16 AWG / 2.5 mm²		16 AWG	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
									
Web code: #0238									
1424140[1]	1424138[1]	–	–	–	–	–	–	–	–
		–	–	–	–	–	–	–	–
1411608[1]	1411606[1]	–	–	–	–	1425635[2]	1425636[2]	1415300[2]	1415301[2]
–	–	–	–	1415295[2]	1415296[2]	1415291[2]	1415292[2]	–	–
–	–	1425631[2]	1425632[2]	1425627[2)3)]	1425628[2)3)]	–	–	–	–
–	–	1425586[2]	1425587[2]	1425582[2)3)]	1425583[2)3)]	–	–	–	–
1504097									
1424136[1]	1424134[1]	–	–	–	–	–	–	–	–
1411604[1]	1411599[1]	–	–	–	–	1425637[2]	1425638[2]	1415302[2]	1415303[2]
–	–	–	–	1415297[2]	1415299[2]	1415293[2]	1415294[2]	–	–
–	–	1425633[2]	1425634[2]	1425629[2)3)]	1425630[2)3)]	–	–	–	–
–	–	1425588[2]	1425589[2]	1425584[2)3)]	1425585[2)3)]	–	–	–	–
–	–	–	–	0.75 mm² ... 2.5 mm²		–	–		
–	–	–	–	1343763	1343764	–	–		

RoHS

Lead-free items available

Number of positions	4		5(4+FE)		5(4+PE)		6(5+PE)	
Coding	L		L		K		M	
Rated voltage	63 V		63 V		630 V		630 V	
Rated current	16 A		16 A		16 A		8 A	
Pin assignment	Male	Female	Male	Female	Male	Female	Male	Female



M12 device connectors up to 16 A / 630 V

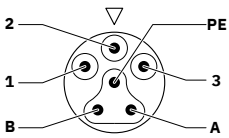
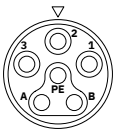
Web code: #0240

One-piece, wave soldering, rear / screw mounting									
	M16 x 1.5, XL versions, wrench size 19	–	–	1415337	1415338	–	–	–	–
	PROFINET-specified	1425592	1425593	1425590[7]	1425591[7]	–	–	–	–
Control cabinet feed-through, rear / screw mounting									
	M16 x 1.5 Male to female, PROFINET-specified	–	–	1456298[7]		–	–	–	–
Two-piece, THR contact carriers									
	Straight, THR, tray packing	1425603	1425604	1420817[8]	1420818[8]	–	–	–	–
	PROFINET-specified	–	–	1425594 [7] [8]	1425595 [7] [8]	–	–	–	–
	Straight, THR, tape-on-reel	1425605	1425606	1420828[8]	1420829[8]	–	–	–	–
	PROFINET-specified	–	–	1425599 [7] [8]	1425600 [7] [8]	–	–	–	–
	Straight, shielded, THR, tray packing	1425639	1425640	1421314[8]	1421315[8]	1420819[8]	1420821[8]	1420822[8]	1420823[8]
	PROFINET-specified	–	–	1425597 [7] [8]	1425598 [7] [8]	–	–	–	–
	Straight, shielded, THR, tape-on-reel	1425641	1425642	1421317[8]	1421318[8]	1420830[8]	1420831[8]	1420832[8]	1420833[8]
	PROFINET-specified	–	–	1425601[7] [8]	1425602[7] [8]	–	–	–	–

Two-piece, housing screw connections for K-, L-, and M-coded THR contact carriers			
Front mounting			
	Push-pull	Male M14 x 1 / female M14 x 1	Male: 1108115[5] / female: 1249213[5]
	Screw lock mech.	Male M14 x 1 / female M14 x 1	Male: 1420824[5] / female: 1420825[5]
	Push-pull	Female countersunk M16 x 1	Female: 1454491[6]
	Flat nut		M14 x 1: 1412077 / M16 x 1: 1312511
Rear mounting			
	Push-pull	Male M15 x 1 / female M16 x 1	Male: 1108101[1] / female: 1249217[1]
	Screw locking mechanism	Male M15 x 1 / female M15 x 1	Male: 1420826[1] / female: 1420827[1]
Press-in versions			
	Push-pull	Male / female	Male: 1189612[5] / Female: 1769604[5]
	Screw locking mechanism		Male: 1732008[5] / female: 1732007[5]

K- and M-coding: PE applied to housing,
L-coding, 4+FE-pos.: FE applied separately to the PCB, not connected to accessible metal parts, no protective function.
[1] [2] Distance from PCB upper edge to housing front plate inner edge: DU = [1] 6 mm [2] 6.8 mm, more information from page 10.
[3] [4] [5] [6] Distance from PCB upper edge to housing front plate outer edge: DO = [3] 6 mm [4] 7.5 mm [5] 9 mm 6) 18.5 mm, more information from page 10.
[7] Deviation from the standard color of black: gray contact carrier
* Contact carriers with assembly pad.

RoHS Lead-free items available	Number of positions	4(3+PE)	
	Coding	S	
	Rated voltage	630 V	
	Rated current	12 A	
	Pin assignment	Male	Female
M12 device connectors up to 16 A / 630 V			**Web code:** #0240
Two-piece, THR contact carriers			
	Straight, THR, blister packaging	1406410	1406409
	Straight, THR, tape-on-reel	1418343	1418344

S15 hybrid connectors up to 16 A / 600 V				
Front mounting, preassembled with 0.25 m / 0.5 m long litz wires				
	Rated voltage		600 V / 63 V	
	Rated current		16 A / 10 A	
	Pin assignment		Male 	Female 
	M20 x 1.5 fastening thread, one-piece	**Litz wires: 0.25 m**	1514512	1514509
		Litz wires: 0.5 m	1514513	1514510
S15 device connector, solder connection, for reflow and wave soldering processes				
Two-piece, THR and wave soldering contact carrier				
	Straight, THR, tray packing		1648166	1648170
Two-piece, housing screw connections				
Front mounting				
	Male M25 x 1.5 / female M25 x 1.5		1648174	1648176

Push-pull housings are not compatible with the S or T coding.
Housing screw connections for S- and T-coded THR contact carriers, more information from page 24.
Housing screw connections for T-coded SMD contact carriers, more information from page 26.
[1] Contact carriers with assembly pad.

RoHS Lead-free items available	Number of positions		4		5		8	
	Coding	Design	Male	Female	Male	Female	Male	Female
M12 connector, designed for assembly								Web code: #0242
Push-Lock connection, conductor cross-section: 0.14 mm² ... 0.75 mm²								
	A	Even	1424657	1424655	1424649	1424652	–	–
		Angled	1424654	1424656	1424651	1424653	–	–
Push-Lock connection, conductor cross-section: 0.14 mm² ... 0.75 mm², shielded								
	A	Even	1424666	1424668	1424658	1424660	–	–
		Angled	1424667	1424669	1424659	1424661	–	–
	B	Even	–	–	1424662	1424664	–	–
		Angled	–	–	1424663	1424665	–	–
Push-Lock connection, conductor cross-section: 0.14 mm² ... 0.75 mm², with push-pull internal locking								
	A	Even	1438146	1438151	1438156	1438159	–	–
		Angled	1438148	1438155	1438158	1438162	–	–
Push-Lock connection, conductor cross-section: 0.14 mm² ... 0.75 mm², shielded, with push-pull internal locking								
	A	Even	1438165	1438169	1438175	1438180	–	–
		Angled	1438168	1438172	1438179	1438181	–	–
IDC connection, conductor cross-section: 0.14 mm² ... 0.34 mm²								
	A	Even	1641691	1641688	–	–	–	–
IDC connection, conductor cross-section: 0.14 mm² ... 0.5 / 0.75 mm²								
	A	Even	–	–	1414600	1414601	1424433	1424434
IDC connection, conductor cross-section: 0.34 mm² ... 0.75 mm²								
	A	Even	1641785	1641772	–	–	–	–
IDC connection, conductor cross-section: 0.14 mm² ... 0.5 / 0.75 mm², shielded								
	A	Even	1413993	1413994	1413991	1413992	1414610	1414611

RoHS Lead-free items available	Number of positions		4		5		8	
	Coding	Design	Male	Female	Male	Female	Male	Female
M12 connector, designed for assembly								Web code: #0242
Crimp connection, shielded								
	A	Even	1422850	1422852	1422850	1422852	–	–
		Angled	1422851	1422853	1422851	1422853	–	–
	Crimp contacts	0.14 mm² ... 0.34 mm²	1064040	1064041	1064040	1064041	–	–
		0.34 mm² ... 1.0 mm²	1423645	1423646	1423645	1423646	–	–
Crimp connection, shielded, with push-pull external locking								
	A	Even	1021815	1021817	1021815	1021817	–	1319946
		Angled	1021816	1021818	1021816	1021818	–	1319948
	Crimp contacts	0.14 mm² ... 0.34 mm²	1064040	1064041	1064040	1064041	–	–
		0.34 mm² ... 1.0 mm²	1423645	1423646	1423645	1423646	–	–
Screw connection, external cable diameter: 4 mm ... 6 mm								
	A	Even	1662528	1681127	1663116	1662968	–	–
		Angled	1681101	1681143	1663129	1662984	–	–
Screw connection, external cable diameter: 6 mm ... 8 mm								
	A	Even	1523230	1696439	1681460	1681486	1513334	1513347
		Angled	–	–	1681473	1681499	–	–
Screw connection, external cable diameter: 4 mm ... 6 mm, with SKINTOP® screw connection								
	A	Even	1556870	1430381	1456466	1559000	–	–
Screw connection, external cable diameter: 6 mm ... 8 mm, with SKINTOP® screw connection								
	A	Even	–	–	1556825	1556838	–	–
		Angled	–	–	1561742	1556812	–	–
Screw connection, external cable diameter: 4 mm ... 6 mm, shielded								
	A	Even	1693830	1694295	1693416	1694305	–	–
		Angled	1694279	–	1693429	–	–	–
Screw connection, external cable diameter: 6 mm ... 8 mm, shielded								
	A	Even	1501540	1515170	1694266	1694318	1511857	1511860
		Angled	–	–	1694282	1430433	–	–

RoHS Lead-free items available	Number of positions		12		17	
	Coding	Design	Male	Female	Male	Female
M12 connectors designed for assembly, high-position						Web code: #0246
Piercecon® connection, conductor cross-section: 0.14 mm²						
	A	Even	1559592	1559631	1559602	1559644
Solder connection, conductor cross-section: 0.08 mm² ... 0.25 mm², shielded						
	A	Even	1404410	1404411	–	–
		Angled	1404412	1404413	–	–

Signal – conductor connectors with IDC						Web code: #0243
Push-Lock connection, conductor cross-section: 0.14 mm² ... 0.75 mm²						
	Number of positions		**3**	**4**	**5**	**8**
	Conductor cross-section	**0.14 mm² ... 0.34 mm², unshielded**	–	1641879	–	–
		0.34 mm² ... 0.75 mm², unshielded	–	1642140	–	–
		0.5 mm² ... 1.5 mm², unshielded	1414702	1414698	1414742	–
		0.14 mm² ... 0.75 mm², shielded	–	1414418	1414417	1414612

SIGNAL DATA

RoHS Lead-free items available	Number of positions		3		4	
	Coding	Design	Male	Female	Male	Female
M8 connector, designed for assembly						Web code: #0246
Push-Lock connection, conductor cross-section: 0.14 mm² ... 0.5 mm²						
	A	Even	1482516	1482523	1482520	1482525
		Angled	1482521	1482526	1482522	1482527
IDC connection, conductor cross-section: 0.08 mm² ... 0.25 mm²						
	A	Even	1441008	1441040	1441011	1441053
IDC connection, conductor cross-section: 0.25 mm² ... 0.5 mm²						
	A	Even	1441024	1441066	1441037	1441079
Screw connection, conductor cross-section: 0.14 mm² ... 0.5 mm²						
	A	Even	1501252	1506888	1501265	1506891
		Angled	1407583	1407582	1407585	1407584
Screw connection, conductor cross-section: 0.14 mm² ... 0.5 mm², shielded						
	A	Even	1542884	1542907	1542897	1542910
Solder connection, conductor cross-section: 0.08 mm² ... 0.25 mm²						
	A	Even	1681156	1681172	1681169	1681185
		Angled	1699902	1529399	1554209	1513444
Solder connection, conductor cross-section: 0.08 mm² ... 0.25 mm², shielded						
	A	Even	1506901	1506927	1506914	1506930
		Angled	1436453	1436479	1436466	1436482
Push-Lock connection, shielded						
PROFI NET	D	Even	–	–	1323169	1328199

RoHS Lead-free items available	Number of positions			4		5		8	
	Fieldbuses/ networks	Coding	Design	Male	Female	Male	Female	Male	Female
M12 connector, designed for assembly									**Web code:** #0249
Push-Lock connection, shielded									
	Ethernet	D	**Even**	1726483	1726485	–	–	–	–
			Angled	1726484	1726487	–	–	–	–
	PROFINET	D	**Even**	1424682	1424683	–	–	–	–
			Angled	1424684	1424685	–	–	–	–
	DeviceNet™ CANopen®	A	**Even**	–	–	1424670	1424672	–	–
			Angled	–	–	1424671	1424673	–	–
	CC-LINK	A	**Even**	1424699	1424700	–	–	–	–
	INTERBUS	B	**Even**	–	–	1424674	1424676	–	–
			Angled	–	–	1424675	1424677	–	–
				2-pos.					
				Male			Female		
	PROFIBUS DP	B	**Even**	1424678			1424680		
			Angled	1424679			1424681		
Push-Lock connection, shielded, with push-pull internal locking									
	PROFINET	D	**Even**	1438182	143183	–	–	–	–
			Angled	1438184	1438185	–	–	–	–
IDC connection, shielded									
	Ethernet	D/A	**Even**	1411066	1411069	–	–	1421679	1421680
			Angled	1553624	1553637	–	–	1553653	1553666
	PROFINET	D	**Even**	1411068	1411071	–	–	–	–
			Angled	1554539	1554542	–	–	–	–
	CAT6$_A$	X	**Even**	–	–	–	–	1411043	1414586
	DeviceNet™	A	**Even**	–	–	1422759	1422760	–	–
	PROFIBUS PA	A	**Angled**	1413933	1413934	–	–	–	–
				2-pos.					
				Male			Female		
	PROFIBUS DP	B	**Even**	1413931			1413932		
Crimp connection, shielded									
	PROFINET	D	**Even**	1422846	1422848	–	–	–	–
			Angled	1422847	1422849	–	–	–	–
	PROFINET CAT6$_A$	X	**Even**	–	–	–	–	1422844	–
			Angled	–	–	–	–	1422845	–
	Crimp contacts	**0.14 mm² ... 0.34 mm²**		1064040	1064041	–	–	1423643	–
		0.34 mm² ... 1.0 mm²		1423645	1423646	–	–	–	–

DATA

RoHS Lead-free items available	Number of positions			4		5		8	
	Fieldbuses/ networks	Coding	Design	Male	Female	Male	Female	Male	Female
Data – M12 connectors, designed for assembly									**Web code:** #0249
Crimp connection, shielded, with push-pull internal locking									
	Ethernet CAT6$_A$	X	**Even**	–	–	–	–	1489580	–
			Angled	–	–	–	–	1489579	–
	Crimp contacts	**0.14 mm² ... 0.34 mm²**		–	–	–	–	1423643	–
Crimp connection, shielded, with push-pull external locking									
	PROFINET	D	**Even**	1021830	1021832	–	–	–	–
			Angled	1021831	1021834	–	–	–	–
	PROFINET CAT6$_A$	X	**Even**	–	–	–	–	1021783	–
			Angled	–	–	–	–	1021784	–
	Crimp contacts	**0.14 mm² ... 0.34 mm²**		1064040	1064041	–	–	1423643	–
		0.34 mm² ... 1.0 mm²		1423645	1423646	–	–	–	–
Piercecon® connection, shielded									
	CAT6$_A$	X	**Even**	–	–	–	–	1417430	–
			Angled	–	–	–	–	1417443	–

Data – conductor connectors with IDC, shielded					**Web code:** #0249
	Number of positions	3	4		8
	Fieldbuses/networks	**PROFIBUS**	**PROFINET**	**Ethernet**	**CAT6$_A$**
	Conductor cross-section	0.25 mm² ... 0.75 mm²	0.14 mm² ... 0.5 mm²	0.14 mm² ... 0.5 mm²	0.14 mm² ... 0.34 mm²
	Item no.	1420426	1414416	1414415	1414412

RoHS Lead-free items available	Number of positions		2+PE		3+PE
	Coding	Design	Male	Female	Male
Power – M12 connectors, designed for assembly					
Push-Lock connection, conductor cross-section: 1.5 mm² ... 2.5 mm², shielded					
	S	**Even**	1080225	1080227	1080220
	K	**Even**	–	–	–
	T	**Even**	–	–	–
	L	**Even**	–	–	–
	L	**Even**	–	–	–
Push-Lock connection, conductor cross-section: 1.5 mm² ... 2.5 mm², unshielded					
	T	**Even**	–	–	–
	L	**Even**	–	–	–
	T	**Even**	–	–	–
	L	**Even**	–	–	–
Screw connection, conductor cross-section: 0.75 mm² ... 1.5 mm², unshielded					
	S	**Even**	1419639	1419640	1404641
		Angled	1419641	1419642	1408985
	T	**Even**	–	–	–
		Angled	–	–	–
Crimp connection, conductor cross-section 1.5 mm² ... 2.5 mm², shielded					
	T	**Even**	–	–	–
	L	**Even**	–	–	–
	S	**Even**	1027467	1027469	1027467
	K	**Even**	–	–	–
	K	**Even**	–	–	–
Crimp contacts					
	Coding		**S/T**		
			Male		**Female**
	Connection cross-section	**1.5 mm²**	1029394		1029395
		2.5 mm²	1029388		1029390
		PE male, 1.5 mm²	1029398		–
		PE male, 2.5 mm²	1029389		–
		PE female, 1.5 mm²	–		1029400
		PE female, 2.5 mm²	–		1029391

Please order crimp contacts separately.

	4		4+FE		4+PE	
Female	Male	Female	Male	Female	Male	Female
						Web code: #0249
1080222	–	–	–	–	–	–
–	–	–	–	–	1080231	1080228
–	1080215	1080218	–	–	–	–
–	1080239	1080237	–	–	–	–
–	–	–	1080235	1080233	–	–
–	1151362	1151366	–	–	–	–
–	–	–	1151368	1151390	–	–
–	1646347	1646348	–	–	–	–
–	–	–	1646349	1646350	–	–
1404642	–	–	–	–	–	–
1408987	–	–	–	–	–	–
–	1404643	1404644	–	–	–	–
–	1408988	1408989	–	–	–	–
–	1027465	1027466	–	–	–	–
–	1027479	1007480	–	–	–	–
1027469	–	–	–	–	–	–
–	–	–	–	–	1027474	1027476
–	–	–	1027477	1027478	–	–

	K/L	
	Male	Female
	1029394	1029396
	1029388	1029392
	–	1029398
	–	1029389
	1029401	–
	1029393	–

Assembled cables with M8 connectors (PUR)				Web code: #0283
RoHS Lead-free items available				
Number of positions	**3**	**4**	**6**	**8**
Coding	**A**			
Straight male, free cable end				
1.5 m	1681664	1681787	1522095	1404178
3 m	1681677	1681790	1522105	1404180
5 m	1681680	1681800	1522118	1404181
10 m	1693584	1694143	1522121	1404179
Variable	1697548	1697755	1522134	1521656
Straight female, free cable end				
1.5 m	1669712	1681842	1522192	1404187
3 m	1669725	1681855	1522202	1404188
5 m	1669628	1681868	1522215	1404189
10 m	1694101	1683484	1522228	1404190
Variable	1697580	1697771	1522231	–
Straight male, straight female				
0.3 m	1681907	1682142	–	1404196
0.6 m	1681910	1682155	–	1404198
1.5 m	1681923	1682168	–	1404199
3 m	1681936	1682171	–	1404200
Variable	1697632	1697797	1551927	–
Angled male, free cable end				
1.5 m	1681693	1681813	1522147	1404182
3 m	1681703	1681826	1522150	1404186
5 m	1681716	1681839	1522163	1404185
10 m	1694114	1694156	1522176	1404183
Variable	1697551	1697768	1522189	–
Angled female, free cable end				
1.5 m	1669738	1681871	1522244	1404191
3 m	1669741	1681884	1522257	1404192
5 m	1669631	1681897	1522260	1404193
10 m	1694169	1694172	1522273	1404194
Variable	1697603	1697784	1522286	
Straight male, angled female				
0.3 m	1681949	1682184	–	1404201
0.6 m	1681952	1682197	–	1404202
1.5 m	1681965	1682207	–	1404203
3 m	1681978	1682210	–	1404204
Variable	1697645	1697807	1551930	

Assembled cables with M8 connectors (PUR), shielded

Web code: #0283

RoHS

Lead-free items available

Number of positions	3	4	6	8
Coding	A			
Straight male, free cable end				
1.5 m	1521614	1521818	1522299	1404137
3 m	1521527	1521821	1522309	1404140
5 m	1521630	1521834	1522312	1404141
10 m	1521643	1521847	1522325	1404138
Variable	1521656	1521850	1522338	–
Straight female, free cable end				
1.5 m	1521711	1521915	1522396	1404147
3 m	1521724	1521928	1522406	1404148
5 m	1521737	1521931	1522419	1404149
10 m	1521740	1521944	1522422	1404150
Variable	1521753	1521957	1522435	–
Straight male, straight female				
0.3 m	1456310	1574580	–	1404133
0.6 m	1456323	1455722	–	1404134
1.5 m	1455285	1455735	–	1404135
3 m	1455298	1574603	–	1404136
Variable	1552052	1552094	1552010	–
Angled male, free cable end				
1.5 m	1521669	1521863	1522341	–
3 m	1521672	1521876	1522354	–
5 m	1521685	1521889	1522367	–
10 m	1521698	1521892	1522370	–
Variable	1521708	1521902	1522383	–
Angled female, free cable end				
1.5 m	1521766	1521960	1522448	–
3 m	1521779	1521973	1522451	–
5 m	1521782	1521986	1522464	–
10 m	1521795	1521999	1522477	–
Variable	1521805	1522008	1522480	–
Straight male, angled female				
Variable	1552065	1552104	1552023	–

Assembled cables with M12 connectors (PUR)

Web code: #0283

RoHS

Lead-free items available

Number of positions	3	4	5	8	12	17
Coding	A					
Straight male, free cable end						
1.5 m	1668014	1668043	1669767	1522493	1430530	1430695
3 m	1668027	1668056	1669770	1522503	1430543	1430705
5 m	1668030	1668069	1669783	1522516	1430556	1430718
10 m	1682566	1682993	1683361	1522529	1430569	1430721
Variable	1696662	1696947	1697098	1522532	–	–
Straight female, free cable end						
1.5 m	1694486	1668108	1669822	1522590	1430611	1430776
3 m	1694499	1668111	1669835	1522600	1430624	1430789
5 m	1683510	1668124	1669848	1520369	1430637	1430792
10 m	1693034	1683002	1683374	1520372	1430640	1430802
Variable	1696688	1696963	1697111	1522613	–	–
Straight male, straight female						
0.3 m	1681509	1668357	1681583	1522671	–	–
0.6 m	1681512	1668360	1681596	1522684	–	–
1.5 m	1681525	1668373	1681606	1522697	–	–
3 m	1681538	1668386	1681619	1522707	–	–
Variable	1696756	1697001	1697140	1522710	–	–
Angled male, free cable end						
1.5 m	1668137	1668166	1669796	1522545	1430572	1430734
3 m	1668140	1668179	1669806	1522558	1430585	1430747
5 m	1668153	1668182	1669819	1522561	1430598	1430750
10 m	1694444	1694457	1694460	1522574	1430608	1430763
Variable	1696675	1696950	1697108	1522587	–	–
Angled female, free cable end						
1.5 m	1694509	1668221	1669851	1522626	1430653	1430815
3 m	1694512	1668234	1669864	1522639	1430666	1430828
5 m	1694525	1668247	1669877	1522642	1430679	1430831
10 m	1694538	1681389	1694541	1522655	1430682	1430844
Variable	1696714	1696989	1697124	1522668	–	–
Straight male, angled female						
0.3 m	1681541	1668470	1681622	1522723	–	–
0.6 m	1681554	1668483	1681635	1522736	–	–
1.5 m	1681567	1668496	1681648	1522749	–	–
3 m	1681570	1668506	1681651	1522752	–	–
Variable	1696772	1697014	1697153	1522765	–	–

Assembled cables with M12 connectors (PUR), shielded

Web code: #0283

RoHS

Lead-free items available

Number of positions	3	4	5	8	12	17
Coding	A					
Straight male, free cable end						
1.5 m	1682650	1682715	1682728	1522778	1430048	1430200
3 m	1682663	1682618	1682744	1522781	1430051	1430213
5 m	1682676	1682647	1682731	1526981	1430064	1430226
10 m	1500664	1694389	1500732	1522794	1430077	1430239
Variable	1697425	1697467	1697506	1522804	–	–
Straight female, free cable end						
1.5 m	1682786	1682841	1682935	1522862	1430129	1430284
3 m	1682799	1682854	1682948	1522875	1430132	1430297
5 m	1682809	1682867	1682951	1522888	1430145	1430307
10 m	1500680	1500716	1500758	1522891	1430158	1430310
Variable	1697441	1697483	1697522	1522901	–	–
Straight male, straight female						
1.5 m	1500800	1500842	1500884	1522969	–	–
3 m	1500813	1500855	1500897	1522972	–	–
5 m	1500826	1500868	1500907	1522985	–	–
10 m	1500839	1500871	1500910	1522998	–	–
Variable	1536049	1536081	1536120	1523007	–	–
Angled male, free cable end						
1.5 m	1682689	1682870	1682757	1522817	1430080	1430242
3 m	1682692	1682883	1682760	1522820	1430093	1430255
5 m	1682702	1682896	1682773	1522833	1430103	1430268
10 m	1500677	1500703	1500745	1522846	1430116	1430271
Variable	1697438	1697470	1697519	1522859	–	–
Angled female, free cable end						
1.5 m	1682812	1682906	1682964	1522914	1430161	1430323
3 m	1682825	1682919	1682977	1522927	1430174	1430336
5 m	1682838	1682922	1682980	1522930	1430187	1430349
10 m	1500693	1500729	1500761	1522943	1430190	1430352
Variable	1697454	1697496	1697535	1522956	–	–
Straight male, angled female						
0.3 m	1500923	1500965	1501003	1523010	–	–
0.6 m	1500936	1500978	1501029	1523023	–	–
1.5 m	1500949	1500981	1501045	1523036	–	–
3 m	1500952	1500994	1501058	1523049	–	–
Variable	1536052	1536094	1536133	1523052	–	–

Assembled cables with M12 push-pull connectors (PUR)				Web code: #0283
RoHS Lead-free items available				
Number of positions	3	4	5	8
Coding	A			
Straight male, free cable end				
1.5 m	1384594	1392638	1393925	1649266
3 m	1385536	1392698	1395703	1649269
5 m	1385538	1392709	1395709	1649272
10 m	1385625	1392713	1395710	1649273
Variable	1825590	1825614	1825633	1866530
Straight female, free cable end				
1.5 m	1385782	1392839	1395814	1649247
3 m	1385791	1393005	1395817	1649249
5 m	1385792	1393026	1395822	1649251
10 m	1385968	1393032	1395827	1649252
Variable	1825592	1825616	1825635	1866528
Straight male, straight female				
0.3 m	1386723	1393188	1395841	1649261
0.6 m	1386786	1393219	1395969	1649265
1.5 m	1223960	1224019	1224208	1649268
3 m	1386788	1393228	1396099	1649271
Variable	1825586	1825605	1825629	1866523
Angled male, free cable end				
1.5 m	1385626	1392735	1395742	1649253
3 m	1385643	1392755	1395750	1649254
5 m	1385646	1392829	1395803	1649257
10 m	1385647	1392834	1395805	1649258
Variable	1825591	1825615	1825634	1866527
Angled female, free cable end				
1.5 m	1386380	1393038	1395830	1649246
3 m	1386394	1393047	1395831	1649248
5 m	1386513	1393072	1395834	1649250
10 m	1386514	1393169	1395835	1649245
Variable	1825593	1825617	1825638	1866529
Straight male, angled female				
0.3 m	1386796	1393235	1396479	1649260
0.6 m	1392195	1393272	1396489	1649263
1.5 m	1224008	1224166	1224223	1649267
3 m	1392208	1393555	1396496	1649270
Variable	1825587	1825606	1825630	1866524
Straight male, M12 female, straight for screwing in				
0.3 m	1392395	1393615	1396523	1649309
0.6 m	1392562	1393900	1396533	1649311
1.5 m	1392625	1393907	1396546	1649312
3 m	1392628	1393910	1396550	1649313
Variable	1825594	1825628	1825639	1866531

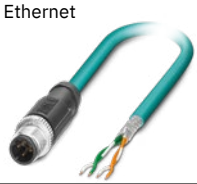
Assembled cables with M12 push-pull connectors (PUR), shielded				Web code: #0283
RoHS Lead-free items available				
Number of positions	3	4	5	8
Coding	A			
Straight male, free cable end				
1.5 m	1476550	1476855	1476903	1649294
3 m	1476806	1476854	1476902	1649297
5 m	1476805	1476853	1476901	1649300
10 m	1476803	1476851	1476900	1649301
Variable	1825601	1825622	1825647	1866536
Straight female, free cable end				
1.5 m	1476794	1476844	1476893	1649276
3 m	1476792	1476843	1476892	1649279
5 m	1476791	1476842	1476890	1649281
10 m	1476788	1476841	1476889	1649283
Variable	1825603	1825626	1825650	1866538
Straight male, straight female				
0.3 m	1476834	1476881	1476912	1649289
0.6 m	1476832	1476878	1476911	1649292
1.5 m	1224012	1224173	1224249	1649296
3 m	1476831	1476877	1476910	1649299
Variable	1825595	1825618	1825641	1866532
Angled male, free cable end				
1.5 m	1476802	1476850	1476899	1649284
3 m	1476800	1476848	1476898	1649285
5 m	1476798	1476846	1476897	1649286
10 m	1476796	1476845	1476895	1649287
Variable	1825602	1825625	1825648	1866537
Angled female, free cable end				
1.5 m	1476786	1476840	1476888	1649275
3 m	1476785	1476839	1476886	1649278
5 m	1476784	1476838	1476885	1649280
10 m	1476782	1476837	1476884	1649282
Variable	1825604	1825627	1825651	1866539
Straight male, angled female				
0.3 m	1476829	1476875	1476909	1649288
0.6 m	1476828	1476873	1476908	1649290
1.5 m	1224014	1224179	1224252	1649295
3 m	1476826	1476872	1476907	1649298
Variable	1825596	1825619	1825642	1866533
Straight male, M12 female, straight for screwing in				
0.3 m	–	–	–	–
0.6 m	–	–	–	–
1.5 m	–	–	–	–
3 m	–	–	–	–
Variable	1878518	1878519	1878520	1866540

Assembled network cables with M8 connectors (PUR)				Web code: #1656
RoHS Lead-free items available	EtherCAT PROFINET Ethernet		EtherCAT PROFINET Ethernet	EtherCAT PROFINET Ethernet
Number of positions	**4**		**4**	
Coding	A		D	
Version	Male, straight	Female, straight	Male, straight	Female, angled
Free cable end				
1 m	1407344	–	1423703	1080526
2 m	1407345	–	1423704	1080528
5 m	1407346	–	1423705	1080530
10 m	1407347	–	1423706	1080531
Variable	1408719	1408716	–	–
Male, straight				
1 m	1407348	–	1423707	1080538
2 m	1407349	–	1423708	1080539
5 m	1407350	–	1423709	1080540
10 m	1407351	–	1423710	1080542
Variable	1408718	1408715	–	–
Angled male				
1 m	–	–	–	1080532
2 m	–	–	–	1080535
5 m	–	–	–	1080536
10 m	–	–	–	1080537
RJ45 connector				
1 m	1407352	–	1423711	1080543
2 m	1407353	–	1423712	1080544
5 m	1407354	–	1423713	1080545
10 m	1407355	–	1423714	1080546
Variable	1408717	1408714	–	–

Additional cable qualities and cables with connectors in sizes M8 to M40 for signals, data, and power can be found at phoenixcontact.com.

Assembled network cables with M12 connectors (PUR)

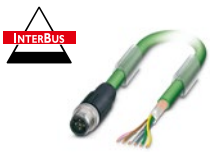
Web code: #0284

RoHS Lead-free items available	Ethernet	Ethernet	Ethernet 	Ethernet	Ethernet
Number of positions	**8**		**4**		**8**
Coding	**X**	**Push-pull, X**	**D**	**Push-pull, D**	**Y**
Straight male, free cable end					
1 m	1407467	1584465	1407356	1476008	1276293
2 m	1407468	1584464	1407357	1476012	1276291
5 m	1407469	1584463	1407358	1476013	1276289
10 m	1407470	1584462	1407359	1476014	1276287
Variable	1408648	1824526	1408713	1824505	1327461
Straight female, free cable end					
1 m	–	1584461	1407380	1476016	1149275
2 m	–	1584459	1407381	1476018	–
5 m	–	1584457	1407382	1476019	1149280
10 m	–	1584456	1407383	1476020	1149285
Variable	–	1824535	1408697	1824517	1327464
Straight male, straight female					
0.3 m	–	1584446	–	1224258	–
0.5 m	–	1584445	–	–	–
0.6 m	–	1584442	–	–	–
1 m	–	1584441	1407400	1476045	–
2 m	–	–	1407401	1476046	1057782
5 m	–	–	1407402	1476058	–
10 m	–	–	1407403	1476056	–
Variable	–	1824523	1408692	1824510	1327468
Straight male, straight male					
1 m	1407483	1584440	1407376	1476055	1275330
2 m	1407484	1584439	1407377	1476054	1274101
5 m	1407485	1584437	1407378	1476051	1276285
10 m	1407486	1584432	1407379	1476048	1328195
Variable	1408644	1824522	1408706	1824507	1327466
Straight male, RJ45					
1 m	–	1584454	–	1476023	–
2 m	–	1584453	–	1476024	–
5 m	–	1584452	–	1476025	–
10 m	–	1584451	–	1476027	–
Variable	–	1824520	–	1824506	–
Straight female, RJ45					
1 m	–	1584450	–	1476029	–
2 m	–	1584449	–	1476030	–
5 m	–	1584448	–	1476031	–
10 m	–	1584447	–	1476032	–
Variable	–	1824532	–	1824518	–

Additional cable qualities and cables with connectors in sizes M8 to M40 for signals, data, and power can be found at phoenixcontact.com.

Assembled network cables with M12 connectors (PUR)			Web code: #0284
RoHS Lead-free items available			
Number of positions	**4**	**2**	**5**
Coding	**D**	**B**	**A**
Straight male, free cable end			
1 m	1407495	–	–
2 m	1407496	1507243	1507421
5 m	1407497	1507256	1507434
10 m	1407498	1507269	1507447
15 m	–	1507272	1507450
Variable	1408640	1538047	1538102
Straight female, free cable end			
1 m	1407528	–	–
2 m	1407529	1507298	1507476
5 m	1407530	1507308	1507489
10 m	1407531	1507311	1507492
15 m	–	1507324	1507502
Variable	1408623	1538063	1538128
Straight male, straight female			
0.3 m	–	1507340	1507528
0.5 m	–	1507353	1507531
0.6 m	–	–	–
1 m	1407553	1507366	1507544
2 m	1407554	1507379	1507557
5 m	1407555	1507382	1507560
10 m	1407556	1507395	1507572
15 m	–	1507405	1507586
Variable	1408617	1538089	1538144
Straight male, straight male			
1 m	1407524	–	–
2 m	1407525	–	–
5 m	1407526	–	–
10 m	1407527	–	–
Variable	1408634	–	–
Termination resistors, M12 male			
	–	1507803	1507816

Additional cable qualities and cables with connectors in sizes M8 to M40 for signals, data, and power can be found at phoenixcontact.com.

Assembled network cables with M12 connectors (PUR)				Web code: #0284
RoHS Lead-free items available				
Number of positions	**5**	**3**	**3**	**3**
Coding, version	**B, straight**	**A, straight**	**A, angled**	**A, straight**
Straight or angled male, free cable end				
2 m	1507065	1419092	–	1431173
5 m	1507078	1419093	–	1431186
10 m	1507081	–	–	1431199
15 m	1507094	–	–	–
20 m	–	–	1419101	–
Variable	1537983	–	–	1431322
Straight or angled female, free cable end				
2 m	1507117	1419082	1419087	–
5 m	1507120	1419083	1419088	–
10 m	1507133	1419084	1419089	–
15 m	1507146	1419085	–	–
20 m		1419086	–	–
Variable	1538005	–	–	–
Straight or angled male, straight female				
0.3 m	1507162	–	–	–
0.5 m	1507175	–	–	–
1 m	1507188	–	1419112	–
2 m	1507191	1419105	–	1431283
5 m	1507201	1419106	–	–
10 m	1507214	1419107	1419115	–
15 m	1507227	–	–	1431319
20 m	–	1419109	–	–
Variable	1538021	–	–	–
Straight or angled male, angled female				
1 m	–	1419120	–	–
2 m	–	–	1419129	–
5 m	–	–	1419130	–
Variable	1431005	–	–	–

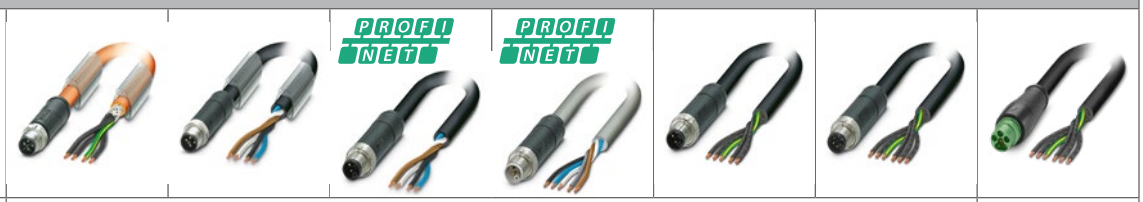
Additional cable qualities and cables with connectors in sizes M8 to M40 for signals, data, and power can be found at phoenixcontact.com.

Assembled cables (PUR)

Web code: #1081

RoHS

Lead-free items available



Design	M12						S15
Coding	S	T	L	L	K	M	-
Number of positions	3+PE	4	4	4+FE	4+PE	5+PE	5+PE
Conductor cross-section	1.5 mm²	1.5 mm²	2.5 mm²	2.5 mm²	2.5 mm²	1.5 mm²	2.5 mm²
Version			PROFINET-specified	PROFINET-specified			
Straight male, free cable end, unshielded							
1.5 m	–	–	–	–	–	–	1514492
2 m	1408836	1408813	–	–	–	–	-
3 m	–	–	1425066	1414887	1414870	1414953	1514494
5 m	1408837	1408814	1425067	1414891	1414875	1414957	1514495
10 m	1408838	1408815	1425028	1414895	1414879	1414961	1514496
Straight female, free cable end, unshielded							
1.5 m	–	–	–	–	–	–	1514497
2 m	1408844	1408824	–	–	–	–	-
3 m	–	–	1425074	1414790	1414788	1414910	1514499
5 m	1408845	1408825	1425075	1414806	1414804	1414918	1514500
10 m	1408846	1408826	1425076	1414823	1414821	1414926	1514501
Angled female, free cable end, unshielded							
2 m	1408852	1408828	–	–	–	–	–
3 m	–	–	1425078	1414786	1414784	1414907	–
5 m	1408853	1408829	1425079	1414802	1414800	1414916	–
10 m	1408854	1408830	1425080	1414819	1414817	1414924	–
Straight male, straight female, unshielded							
0.3 m	–	–	–	–	–	–	1514502
0.6 m	–	–	–	–	–	–	1514503
1.5 m	–	–	–	–	–	–	1514504
3 m	–	–	–	–	–	–	1514506
5 m	–	–	–	–	–	–	1514507
Straight male, free cable end, shielded							
3 m	1424105	1424121	–	1414888	1414871	1414954	–
5 m	1424245	1424122	–	1414892	1414876	1414958	–
10 m	1424107	1424123	–	1414896	1414880	1414962	–
Straight female, free cable end, shielded							
3 m	1424097	1424113	–	1414791	1414789	1414911	–
5 m	1424098	1424114	–	1414807	1414805	1414919	–
10 m	1424099	1424115	–	1414824	1414822	1414927	–
Angled female, free cable end, shielded							
3 m	1424101	1424117	–	1414787	1414785	1414908	–
5 m	1424102	1424118	–	1414803	1414801	1414917	–
10 m	1424103	1424128	–	1414820	1414818	1414925	–

Additional cable qualities and cables with connectors in sizes M8 to M40 for signals, data, and power can be found at phoenixcontact.com.

SIGNAL DATA POWER

Accessories

Web code: #0559

RoHS Lead-free items available	Size	M8		M12	
		Male	Female	Male	Female
Screw plug					
	Plastic	–	1682540	–	1680539
	Plastic for K-, L-, and M-coded versions	–	–	–	1092802
	Metal, with slotted screw head	–	–	–	1503302
	Metal, with hexagonal screw head	–	–	–	1320658
	Stainless steel V4A	–	–	–	1555538
Screw plug for SPEEDCON versions					
	Plastic	–	–	–	1553129
Sealing cap					
	Plastic	–	–	1560251	–
	Metal	–	–	1430488	–
Sealing elements for unused housing cutouts					
	Sealing plug, plastic, for Pg9 / Pg11			1670235	
	Screw plug, metal, M16 x 1.5			1453368	

SIGNAL DATA POWER

Accessories

Web code: #0559

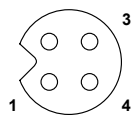
RoHS Lead-free items available	Size	M8		M12	
		Male	Female	Male	Female
Plastic sealing caps and locking screws, with retaining strap					
	For cables	1430857	1430860	1430873	1430899
	With Ø 3 mm fastening lug	–	1441105	–	–
	With Ø 8 mm fastening lug	1441082	–	–	–
	With Ø 12 mm fastening lug	–	1441095	1456187	–
	With Ø 15 mm fastening lug	–	–	1456190	1456200
Metal sealing caps and locking screws, with fastening chain					
	With Ø 16 mm fastening lug	–	–	1430491	1320659
Seal for device connector					
	O-ring for M8 socket housing, green, 5 x 0.8	1098590			
	O-ring for M8 socket housing, black, 7 x 1	1437070			
	O-ring for M12 socket housing, green, 8 x 1.3	1426211			
	O-ring for M12 fastening thread, black, 12 x 1.5	1424275			
	Flat gasket for M16 fastening thread, black, 13 x 16.6 x 1.5	1430394			
	Flat gasket for Pg9 fastening thread, black, 13 x 16.6 x 2	1556320			

SIGNAL DATA POWER

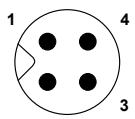
Accessories					Web code: #0559
RoHS Lead-free items available	Size		M5	M8	M12
Screw plug					
	With fine toothing facing inwards. This prevents visible scratch marks from appearing on the device surface.	M12 x 1	–	–	1440151
		M15 x 1	–	–	1104648[1)]
		M16 x 1.5	–	–	1440164
		Pg9	–	–	1440177
Screw plug for SPEEDCON versions					
	Brass (nickel-plated)	M5 x 0.5	1535901	–	–
		M8 x 0.5	–	1504071	–
		M10 x 0.75	–	–	1412508
		M12 x 1	–	–	1405639
		M14 x 1	–	–	1412077
		M15 x 1	–	–	1238276
		M16 x 1	–	–	1312511
		M20 x 1	–	–	1411242
		M20 x 1.5	–	–	1504097
	Plastic	M16 x 1.5	–	–	1640692
	Stainless steel (1.4404)	M16 x 1.5	–	–	1404983

Pin assignments and wire colors

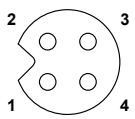
Pin assignments of M5 signal connectors



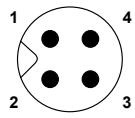
Female, 3-pos.



Male, 3-pos.



Female, 4-pos.



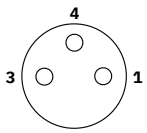
Male, 4-pos.

Wire colors

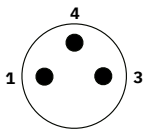
Assignment: M5 male / female

Pin	3-pos.	4-pos.
1	BN	BN
2	–	WH
3	BU	BU
4	BK	BK

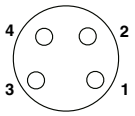
Pin assignments of M8 signal connectors



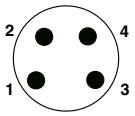
Female, 3-pos.



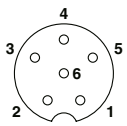
Male, 3-pos.



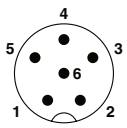
Female, 4-pos.



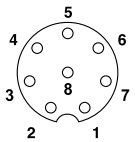
Male, 4-pos.



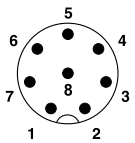
Female, 6-pos.



Male, 6-pos.



Female, 8-pos.



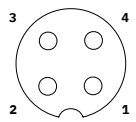
Male, 8-pos.

Wire colors

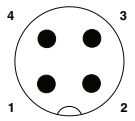
Assignment: M8 male / female

Pin	3-pos.	4-pos.	6-pos.	8-pos.
1	BN	BN	BN	WH
2	–	WH	WH	BN
3	BU	BU	BU	GN
4	BK	BK	BK	YE
5	–	–	GY	GY
6	–	–	PK	PK
7	–	–	–	BU
8	–	–	–	RD

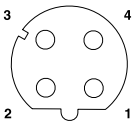
Pin assignments of M12 signal connectors



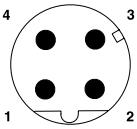
Female, 4-pos., A-coded



Male, 4-pos., A-coded



Female, 4-pos., D-coded



Male, 4-pos., D-coded

Wire colors

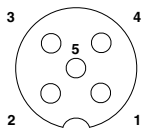
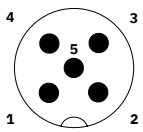
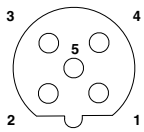
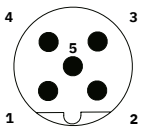
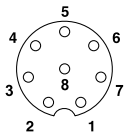
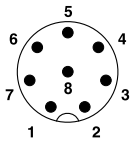
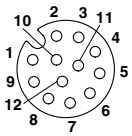
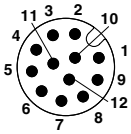
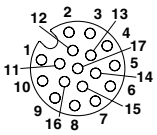
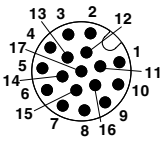
Assignment: M12 male / female

Pin	4-pos., A-coded	4-pos., D-coded
1	BN	YE
2	WH	WH
3	BU	OG
4	BK	BU

SIGNAL DATA

Pin assignments and wire colors

Pin assignments of M12 signal connectors

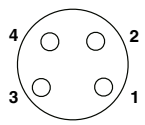
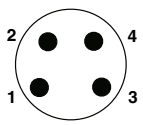
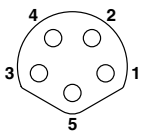
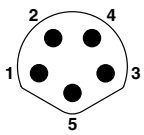
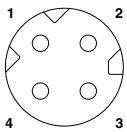
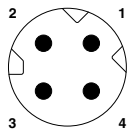
 Female, 5-pos., A-coded	 Male, 5-pos., A-coded	 Female, 5-pos., B-coded	 Male, 5-pos., B-coded
 Female, 8-pos.	 Male, 8-pos.	 Female, 12-pos.	 Male, 12-pos.
 Female, 17-pos.	 Male, 17-pos.		

Wire colors

Assignment: M12 male / female

Pin	5-pos., A-coded	5-pos., B-coded	8-pos.	12-pos.	17-pos.
1	BN	BN	WH	BN	BN
2	WH	WH	BN	BU	BU
3	BU	BU	GN	WH	WH
4	BK	BK	YE	GN	GN
5	GY	GY	GY	PK	PK
6	–	–	PK	YE	YE
7	–	–	BU	BK	BK
8	–	–	RD	GY	GY
9	–	–	–	RD	RD
10	–	–	–	VT	VT
11	–	–	–	GYPK	GYPK
12	–	–	–	RDBU	RDBU
13	–	–	–	–	WHGN
14	–	–	–	–	BNGN
15	–	–	–	–	WHYE
16	–	–	–	–	YEBN
17	–	–	–	–	WHGY

Pin assignments of M8 data connectors

 Female, 4-pos., Ethernet	 Male, 4-pos., Ethernet	 Female, 5-pos., DeviceNet™, B-coded	 Male, 5-pos., DeviceNet™, B-coded
 Female, 4-pos., PROFINET, D-coded	 Male, 4-pos., PROFINET, D-coded		

Wire colors

Assignment: CANopen®/DeviceNet™

Pin	5-pos., B-coded	Signal DeviceNet™
1	Shield	Drain
2	RD	V+
3	WH	CAN_H
4	BK	V–
5	BU	CAN_L

Assignment: PROFINET

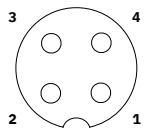
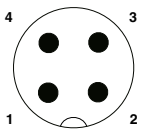
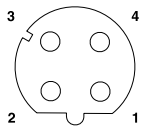
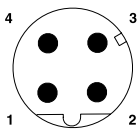
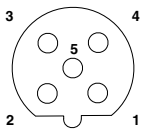
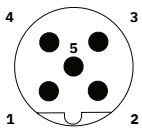
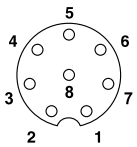
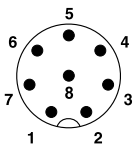
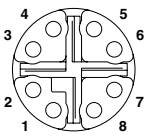
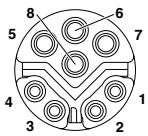
Pin	4-pos., D-coded	Signal
1	YE	TD+
2	WH	RD+
3	OG	TD–
4	BU	RD–

Assignment: Ethernet

Pin	5-pos., B-coded	Signal
1	YE	TD+
2	OG	TD–
3	WH	RD+
4	BU	RD–

Pin assignments and wire colors

Pin assignments of M12 data connectors

 Female, 4-pos., A-coded	 Male, 4-pos., A-coded	 Female, 4-pos., D-coded	 Male, 4-pos., D-coded	 Female, 5-pos., B-coded	 Male, 5-pos., B-coded
 Female, 8-pos., A-coded	 Male, 8-pos., A-coded	 Female, 8-pos., X-coded	 Female, 8-pos., Y-coded		

Wire colors

Assignment: PROFIBUS		
Pin	**5-pos., B-coded**	**Signal**
1	–	–
2	GN	A cable
3	–	–
4	RD	B cable
5	Drain wire	–
Assignment: INTERBUS		
Pin	**5-pos., B-coded**	**Signal**
1	YE	DO
2	GN	DO
3	GY	DI
4	PK	DI
5	BN	COM
–	WH	NC
Assignment: VARAN		
Pin	**8-pos., A-coded**	**Signal**
1	n.c.	–
2	WHOG	TD+
3	OG	TD-
4	n.c.	–
5	WHGN	RD+
6	BU	–
7	BN	–
8	GN	RD–

Wire colors

Assignment: CANopen®		
Pin	**5-pos., A-coded**	**Signal**
1	Shield	Drain
2	RD	V+
3	BK	V–
4	WH	CAN_H
5	BU	CAN_L
Shield on housing		
Assignment: PROFINET, EtherCAT®, Sercos		
Pin	**4-pos., D-coded**	**Signal**
1	YE	TD+
2	WH	RD+
3	OG	TD–
4	BU	RD–
Assignment: AS-Interface		
Pin	**4-pos., A-coded**	**Signal**
1	BU	AS-i+
2	WH	–
3	BN	AS-i–
4	BK	–
Assignment: FOUNDATION Fieldbus		
Pin	**4-pos., A-coded**	**Signal**
1	BU	DATA–
2	OG	DATA+
3	–	Shield
4	–	–

Wire colors

Assignment: DeviceNet™		
Pin	**5-pos., A-coded**	**Signal**
1	Shield	Drain
2	RD	V+
3	BK	V–
4	WH	CAN_H
5	BU	CAN_L
Shield on housing		
Assignment: Ethernet		
Pin	**4-pos., D-coded**	**Signal**
1	WHOG	TD+
2	WHGN	RD+
3	OG	TD–
4	GN	RD–
Shield on housing		
Assignment: CC-Link		
Pin	**4-pos., A-coded**	**Signal**
1	Shield	SLD
2	WH	DS
3	YE	DG
4	BU	DA

DATA POWER

Pin assignments and wire colors

Wire colors		
Assignment: Ethernet		
Pin	**8-pos., A-coded**	**Signal**
1	WHBU	D3-
2	WHBN	D4+
3	BN	D4-
4	OG	D1-
5	WHGN	D2+
6	WHOG	D1+
7	BU	D3+
8	GN	D2-

Wire colors		
Assignment: Ethernet		
Pin	**8-pos. X-coded**	**Signal**
1	WHOG	D1+
2	OG	D1-
3	WHGN	D2+
4	GN	D2-
5	WHBN	D4+
6	BN	D4-
7	WHBU	D3-
8	BU	D3+

Wire colors		
Assignment: Ethernet hybrid		
Pin	**8-pos., Y-coded**	**Signal**
1	WHOG	D1+
2	OG	D1-
3	WHGN	D2+
4	GN	D2-
5	BU	D4+
6	WH	D4-
7	BN	D3-
8	BK	D3+

Pin assignments and wire colors

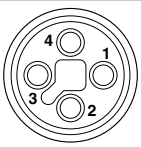
Pin assignments of M12 power connectors

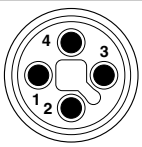
Female, 2+PE, S-coded

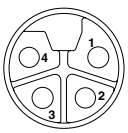
Male, 2+PE, S-coded

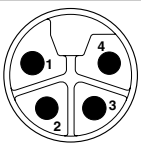
Female, 3+PE, S-coded

Male, 3+PE, S-coded


Female, 4-pos., T-coded


Male, 4-pos., T-coded


Female, 4-pos., L-coded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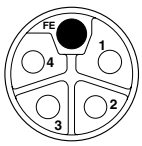
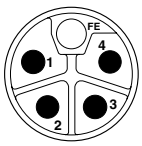
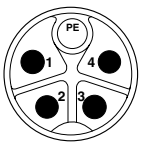
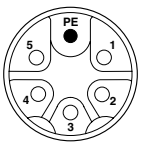
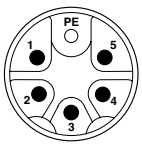

Female, 4+FE, L-coded


Male, 4+FE, L-coded

Female, 4+PE, K-coded


Male, 4+PE, K-coded


Female, 5+PE, M-coded


Male, 5+PE, M-coded

Wire colors	
Assignment: 2+PE-pos., S-coded	
1	BK1
3	BK2
PE	GNYE
Assignment: 4+PE-pos., K-coded	
1	BK1
2	BK2
3	BK3
4	BK4
PE	GNYE

Wire colors	
Assignment: 3+PE-pos., S-coded	
1	BK1
2	BK2
3	BK3
PE	GNYE
Assignment: 5+PE-pos., M-coded	
1	BK1
2	BK2
3	BK3
4	BK4
5	BK5
PE	GNYE

Wire colors	
Assignment: 4-pos., T-coded	
1	BN
2	WH
3	BU
4	BK

Wire colors	
Assignment: 4-pos., L-coded	
1	BN
2	WH
3	BU
4	BK
Assignment: 4+FE-pos., L-coded	
1	BN
2	WH
3	BU
4	BK
FE	PK

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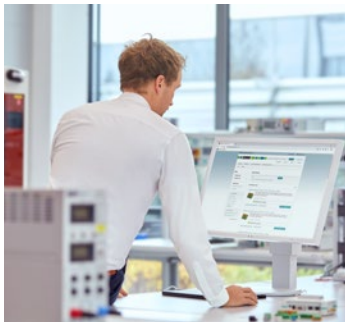
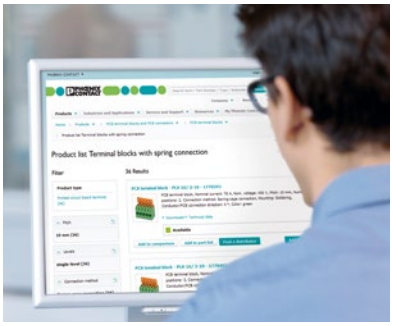
Web code: #2594



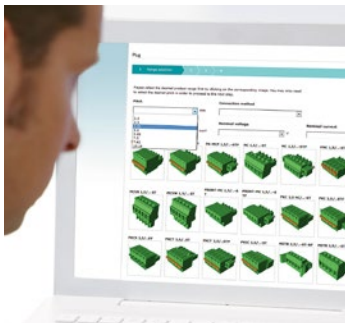
Simple selection using filters and technical data



There is a separate detail page for every product

A data sheet is available to download for every item

With our global network, Phoenix Contact is always nearby



Device connection technology can be comprehensively configured

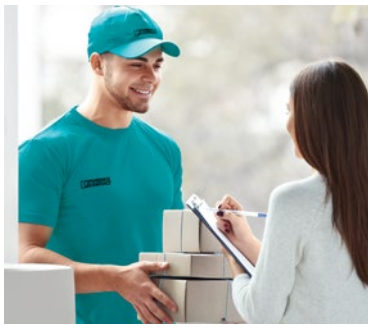
Housing parts and connection technology are easy to configure

Cable and assembly systems can be matched easily

Phoenix Contact provides support from the initial idea right through to series production

Our online sample service is available in a large number of countries

Find the product you want quickly with intuitive filters

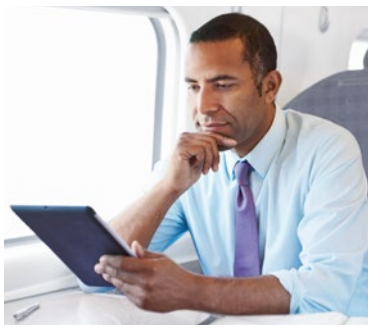


Product samples are available with free shipping

Reliable logistics worldwide

Keep up to date on new products, trends, and technologies

We will provide you with custom training programs – either on site or digitally



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Remain reliably updated with the Phoenix Contact newsletter

Open communication with customers and partners worldwide

Phoenix Contact is a global market leader based in Germany. We are known for producing forward-thinking products and solutions for the comprehensive electrification, networking, and automation of all sectors of the economy and infrastructure. With a global network, we maintain close relationships with our customers, something we believe is essential for our common success.

You can find your local partner at

phoenixcontact.com

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