



M5 to M12 circular connectors

Product overview 2025


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-position

- 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



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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.



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

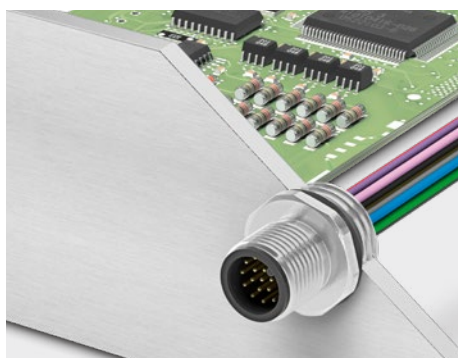
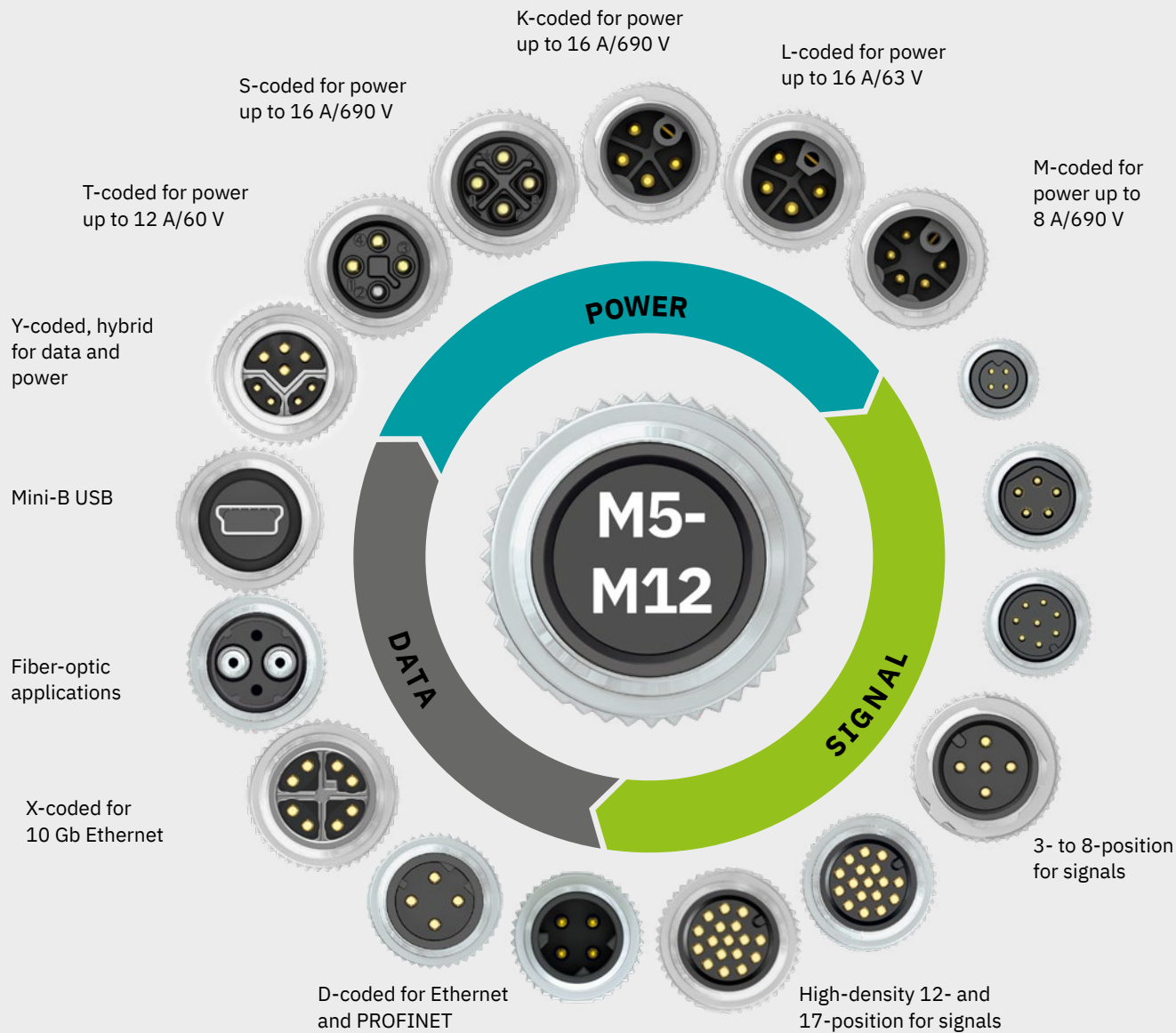
RoHS

Pb < 0,1%



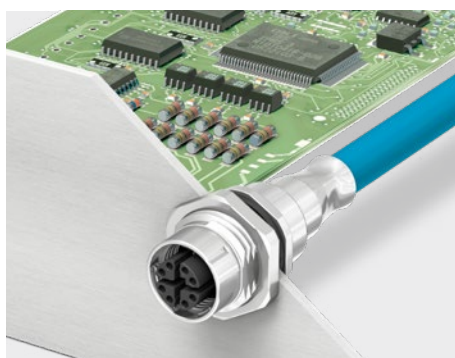
For virtually every application

Various installation options for practical integration into your device.



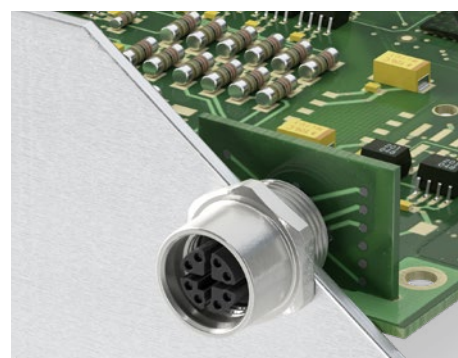
For high contact density

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.



Highly future-proof

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



Flying leads

Establish flying leads with connectors in male and female 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.

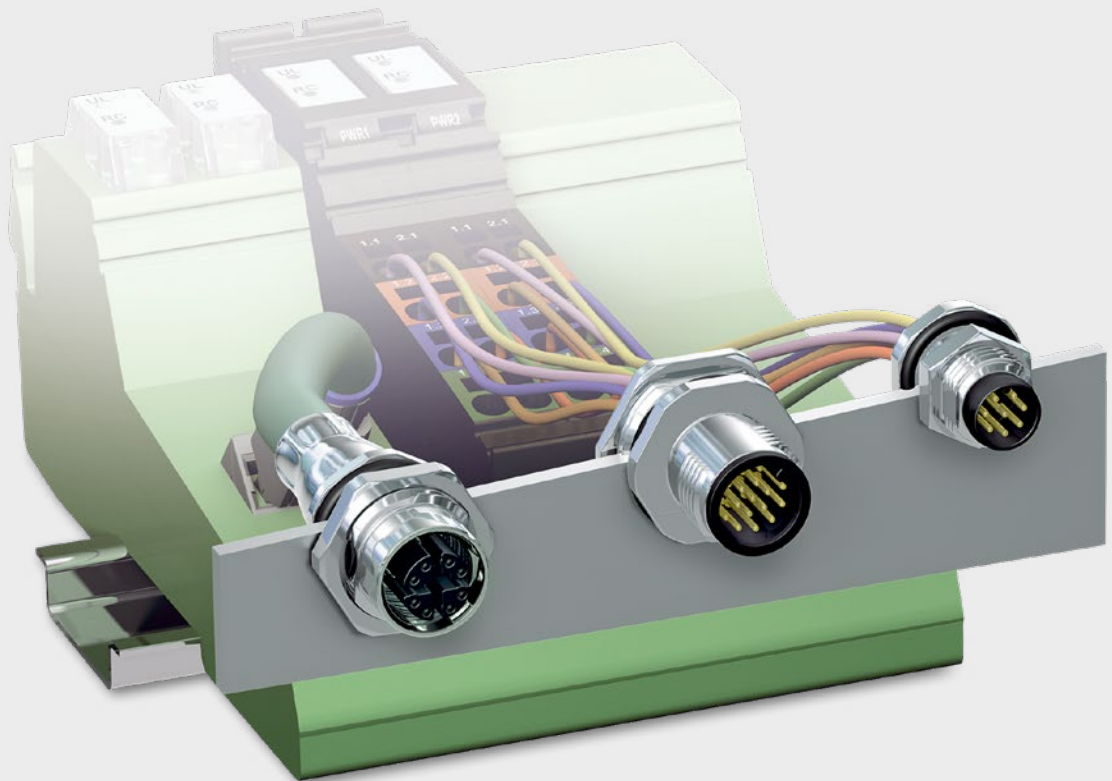


Plug and Produce

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.

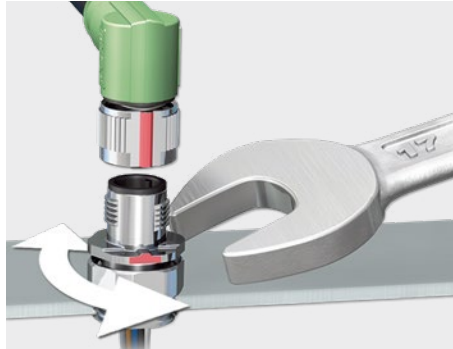


Your advantages at a glance



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



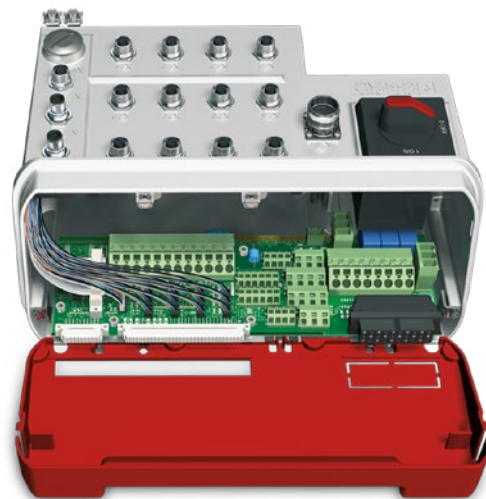
Fieldbus-specific coding

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

Main features

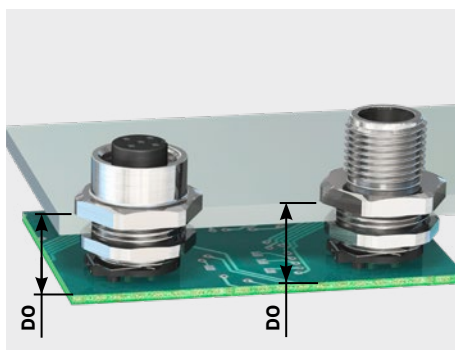
Device connection technology from Phoenix Contact for distributed modules is designed for harsh ambient conditions in industrial production processes.

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



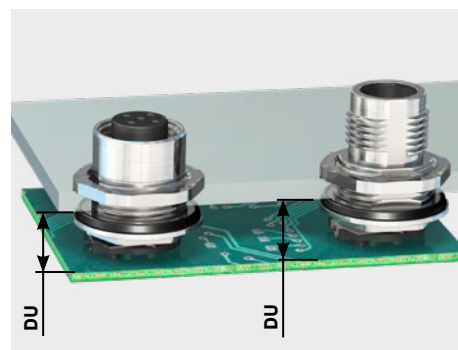
Device connectors for direct PCB mounting

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.



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

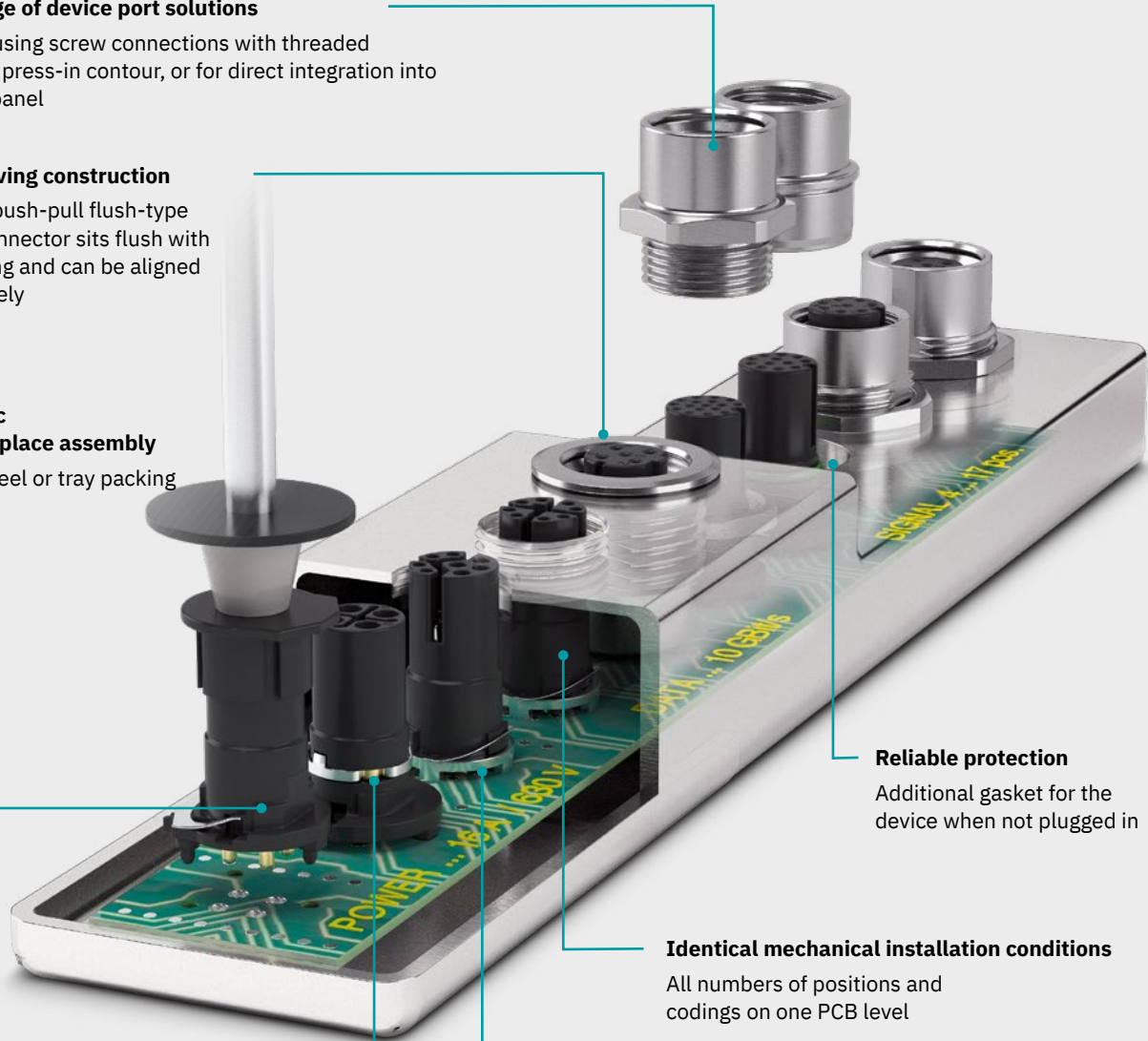
Use of housing screw connections with threaded fastening, press-in contour, or for direct integration into the front panel

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

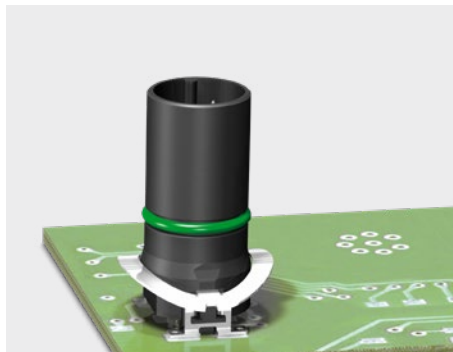
Seamless shielding

Shield connection to the PCB via shield spring



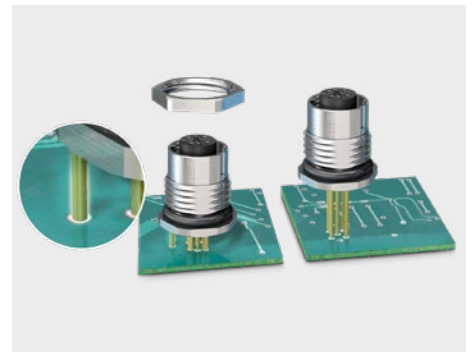
For THR soldering, two-piece

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



For SMT, two-piece

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



For wave soldering, one- and two-piece

3- to 17-position 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.



Your advantages

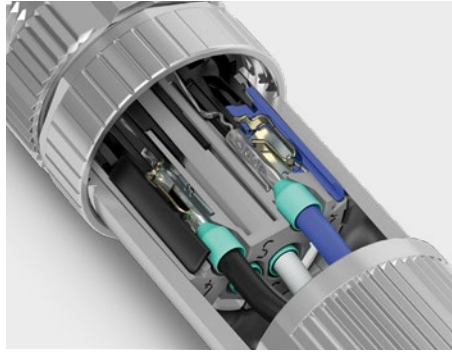
- ✔ Short connect time with push-pull fast-locking system
- ✔ Reliable 360° shielding even under extreme environmental influences
- ✔ Save space with high-position connectors
- ✔ Convenient: increased machine availability with quick and easy diagnostics
- ✔ Customer-specific assemblies and cable lengths

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.



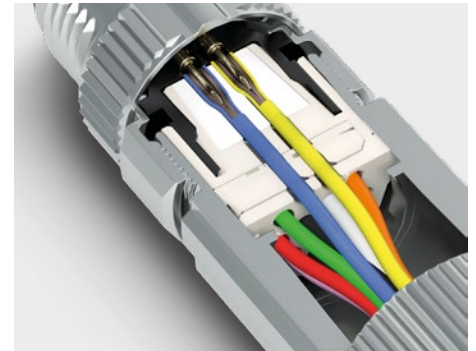
Crimp connection

- 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-position connection. The contact is made via a contact pin, which pierces the single-core wires axially.

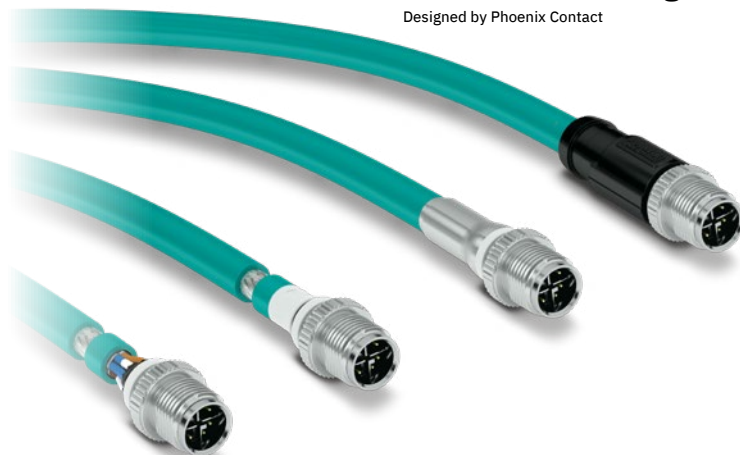
Safe shielding

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




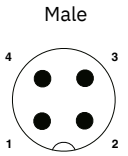
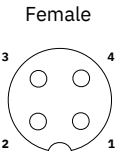
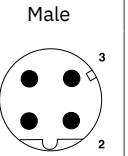
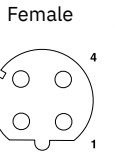
		3	4		5		6
Number of positions							
Coding		 A	  A	  D	  A	 B	 A
M5 to M12 circular connectors							
M12 device connectors for litz wire connection							
	Front mounting with litz wires	–	16	16	16	16	–
	Rear mounting with litz wires	–	18	18	18	18	–
	Front mounting, modular, crimp connection	–	18	18	18	18	–
	Front mounting with solder cups	–	–	–	20	–	–
	Rear mounting with solder cups	–	–	–	22	–	–
M12 device connectors with assembled cable							
	Front mounting	–	–	33	38	36	–
	Rear mounting	–	20 / 39	33	20 / 38	36	–
M12 device connectors for PCB connection							
	One-piece, front mounting	–	20	20	20	20	–
	One-piece, rear mounting	–	22 / 39	22 / 33 / 35	22 / 38	36	–
	Two-piece, for wave / THR soldering processes	–	24	24	24	24	–
	Two-piece, for SMD soldering processes	–	26	26	26	26	–
M12 connector, designed for assembly / with molded cable							
	Designed for assembly	–	48 / 49 / 52	52	48 / 49 / 52	52	–
	Plastic-molded cables	55	55	58	55	61	–
M8 device connectors with litz wires							
	Front mounting	28	28	–	–	41	28
	Rear mounting	28	28	–	–	–	28
M8 device connectors for PCB connection							
	One-piece, rear mounting	28	28	41	–	41	28
	Two-piece, for SMD soldering processes	30	30	30 / 41	–	30 / 41	30
M8 connector, designed for assembly / with molded cable							
	Designed for assembly	51	51	51	–	–	–
	Plastic-molded cables	55	55	58	–	–	–
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	42	42	42	42	42	42
18	-	34	18	18	42	42	42	42	42	42
18	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
20 / 33 / 35	34	34	20	20	-	-	-	-	-	-
20	-	-	-	-	-	-	-	-	-	-
22	34	34	22	22	-	-	-	-	45	-
24	34	34	24	24	-	44	44	45	45	45
26	34	34	26	26	-	-	44	-	-	-
48 / 49 / 52	52 / 53	-	50	50	54	54	54	51 / 52	51 / 52	-
60	59	59			62	62	62	62	62	62
28	-	-	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-


 Lead-free alternative items available	Number of positions	4				
	Coding	 A				 D
	Rated voltage	250 V				
	Rated current	4 A				
	Conductor cross-section	0.34 mm ²				
	Assembly					
	Pin assignment					

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	1504097			
	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	1640692 ¹⁾			
	Brass (nickel-plated) M20 x 1.5	1408451	1408436	-	-
	Flat nut, M20 x 1.5	1411242			

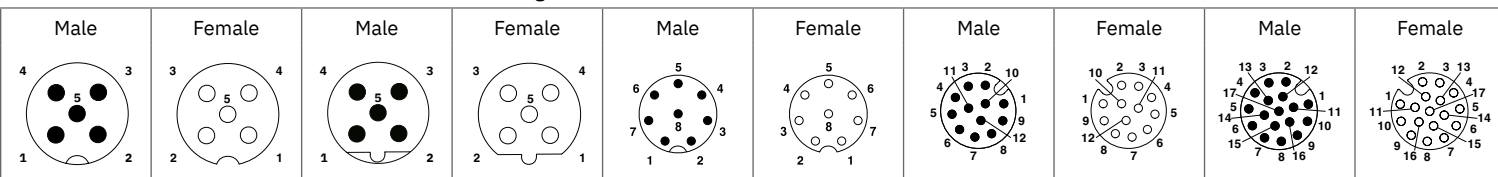
Versions with stainless steel housing (1.4404), for screw fastening

	M16 x 1.5	1405233	1458855	-	1410197
	Flat nut M16 x 1.5				
	M20 x 1.5	1408415	1408416	-	-

Items in bold feature the SPEEDCON fast-locking system and are fully compatible with the M12 standard locking system.
¹⁾ No alternative items yet available with reduced lead content below 0.1%.

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 mm ²		0.25 mm ²		0.14 mm ²		0.14 mm ²	

Preassembled with 0.5 m long litz wires



 Web code: #0207

1027694	-	1788121	-	1687981	-	-	-	-	-
1520055	1520039	1520013	1520000	1523492	1523476	1556265	1556252	1556304	1556294
1411579	1411571	1411580	1411572	1411581	1411573	1411582	1411574	1411583	1411576

1504097




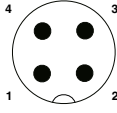
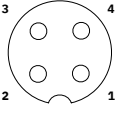
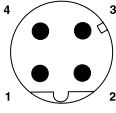
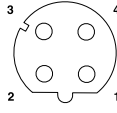
1520068	1520042	1520026	1519998	1523502	1523489	-	-	-	-
1441642	1441655	1441668	1441671	1441684	1441697	1441707	1441710	1441723	1441736
1440973	1440986	1440999	1441558	1441561	1441574	1441587	1441590	1441600	1441613

1436411 ¹⁾	-	-	-	1436424 ¹⁾	-	-	-	-	-
1408446	1408454	-	-	1408442	1408453	-	-	-	-



1458868	1458871	-	-	1405221	1458842	1405238	1405242	1405243	1405244
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1404983

1452097	1452107	1452084	1452097	1452107	1452110	-	-	-	-
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 <p>RoHS</p> <p>Lead-free alternative items available</p>	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 mm ² ... 0.75 mm ²		26 AWG ... 18 AWG	
	M20 fastening thread with anti-rotation protection	1139802	1139803	1139796	1139800

M12 device connectors, with litz wires, rear mounting

	Conductor cross-section	0.34 mm ²		0.34 mm ²	
	Assembly				

Versions with zinc die-cast housing, for screw fastening

	Push-pull, M16 x 1.5	1108128	-	1027691	-
	M12 x 1	1551875	-	151901	-
	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	-	-	-	-
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Versions with stainless steel housing (1.4404), for screw fastening

	Pg9	1405239	1405240	-	-
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¹⁾ The information on the rated current is valid for the maximum connection cross-section. Items in bold feature the SPEEDCON fast-locking system and are fully compatible with the
²⁾ No alternative items yet available with reduced lead content below 0.1%.

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 mm ² ... 0.75 mm ²									
1139804	1139805	-	-	-	-	-	-	-	-

Web code: #0209

0.34 mm ²	0.34 mm ²	0.25 mm ²	0.14 mm ²	0.14 mm ²
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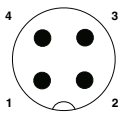
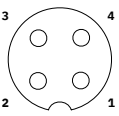
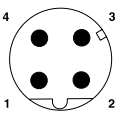
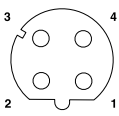
Preassembled with 0.5 m long litz wires

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	-	-	-	-
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1554681	1554717	-	-	1554694	1554720	-	-	-	-
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M12 standard locking system.

 Lead-free alternative 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 ¹⁾

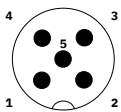
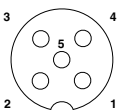
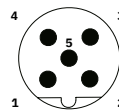
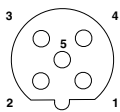
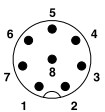
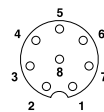
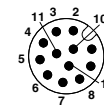
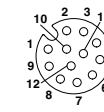
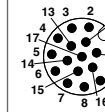
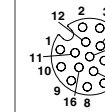
M12 device connectors, solder connection, front mounting

Versions for PCB mounting, with torsion protection, for wave soldering processes

	20 mm square flange, direct PCB mounting	1456417	1456420	1456394	1456404
	M12 x 1	-	-	-	-
	M16 x 1.5	-	-	-	-

Items in bold feature the SPEEDCON fast-locking system and are fully compatible with the M12 standard locking system.

¹⁾ No alternative items yet available with reduced lead content below 0.1%.




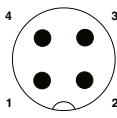
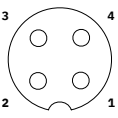
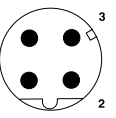
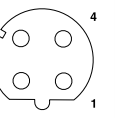
5				8		12		17	
A		B		A		A		A	
60 V				30 V		30 V		30 V	
4 A				2 A		1.5 A		1.5 A	
Male 	Female 	Male 	Female 	Male 	Female 	Male 	Female 	Male 	Female 

 Web code: #0210

1419409	1419328	-	-	1419425	1419357	1442227	1442188	1442308	1442269
1419412	1419331	-	-	1419438	1419344	1442230	1442191	1442311	1442272
1551671 ¹⁾	-	1551684 ¹⁾	-	1551697 ¹⁾	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

 Web code: #0212

1456433	1456446	1456459	1456462	1408574	1408573	-	-	-	-
1436437 ¹⁾	-	-	-	1436440 ¹⁾	-	-	-	-	-
1436398 ¹⁾	-	-	-	1436408	-	-	-	-	-

 Lead-free alternative 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)	-	-	-	-

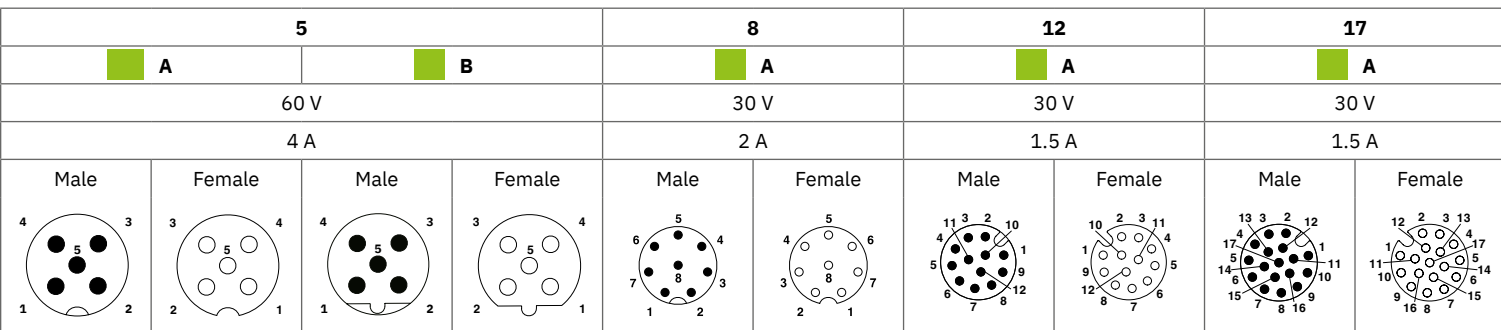
Versions with stainless steel housing (1.4404), one-piece, straight for screw fastening

	Pg9	1404979	1404974	-	-
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Two-piece versions including housing




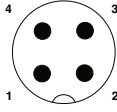
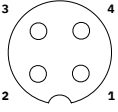
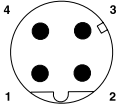
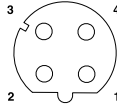
	Straight, shielded, for fastening in the feed-through hole	-	-	-	-
	Straight, for fastening in the feed-through hole	-	-	-	1396602 ²⁾
	Angled, shielded	-	-	-	-
	Angled	-	-	1396620	1396603

¹⁾ Cannot be combined with two-piece contact carriers for PCB mounting for THR, SMD, or wave soldering processes.
²⁾ No alternative items yet available with reduced lead content below 0.1%.




Web code: #0213

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 ²⁾	-	-	-	1436343 ²⁾	-	-	-	-
-	1436314 ²⁾	-	-	-	-	-	-	-	-
-	-	-	-	-	1436327 ²⁾	-	-	-	-
1554746	1554733	-	-	1529807	1529797	-	-	-	-
1396611 ²⁾	1421685 ²⁾	1396618 ²⁾	1437180 ²⁾	-	-	-	-	-	-
1396605 ²⁾	1396599 ²⁾	1514883 ²⁾	1396615 ²⁾	1424017 ²⁾	1556854 ²⁾	-	-	-	-
1396612	1396607	-	-	-	-	-	-	-	-
1396606	1396608	1396609	1396610	-	-	-	-	-	-

 Lead-free alternative 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	1457500⁷⁾	1457623⁷⁾	1457513⁷⁾	1457636⁷⁾
	Straight, THR, tray packing	1437164	1439942	-	1414071
	Straight, THR, tape-on-reel	1457490⁷⁾	1457610⁷⁾	-	1195616⁷⁾

Two-piece, THR contact carriers, angled


	Angled, THR, tape-on-reel	1028588	1706527	-	1028581
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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		

^{3) 2)} Distance from PCB upper edge to housing front plate inner edge: DU = ³⁾ 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

Web code: #0214

1432350	1432363	1552230	1551435	1557581	1551422	1442065⁷⁾	1442052⁷⁾	1442081⁷⁾	1442078⁷⁾
1457539⁷⁾	1457652⁷⁾	1457542⁷⁾	1457665⁷⁾	1457568⁷⁾	1457681⁷⁾	1457584⁷⁾	1457704⁷⁾	1457607⁷⁾	1457720⁷⁾
1552227	1551448	-	1414070	1552269	1557808	1441985⁷⁾	1441970⁷⁾	1442007⁷⁾	1441998⁷⁾
1457526⁷⁾	1457649⁷⁾	-	-	1457555⁷⁾	1457678⁷⁾	1457571⁷⁾	1457694⁷⁾	1457597⁷⁾	1457717⁷⁾

1699744	1028585	-	-	-	1506690				
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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\)}](#)




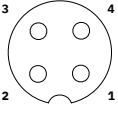
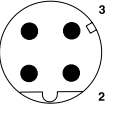
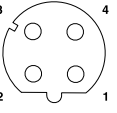
M12 x 1: [1405639](#) / M14 x 1: [1412077](#) / M16 x 1: [1312511](#)

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\)}](#)

 <p>RoHS</p> <p>Lead-free alternative items available</p>	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	1411924⁹⁾	1411907	1411925⁹⁾	1411912
	Straight, SMD, tape-on-reel	1411982⁹⁾	1411974	1411983⁹⁾	1411975
	Straight, shielded, SMD, tray packing, additional gasket for the device when not plugged in	1411955⁹⁾	1411949	1411956⁹⁾	1411950
	Straight, shielded, SMD, tape-on-reel, additional gasket for the device when not plugged in	1412010⁹⁾	1412004	1412011⁹⁾	1412005
	Straight, SMD, tray packing, additional gasket for the device when not plugged in	1411941⁹⁾	1411935	1411942⁹⁾	1411936
	Straight, SMD, tape-on-reel, additional gasket for the device when not plugged in	1411996⁹⁾	1411990	1411997⁹⁾	1411991

Two-piece, housing screw connections for SMD contact carriers


Front mounting

	Push-pull	Male M14 x 1 / female M16 x 1	
	Screw locking 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

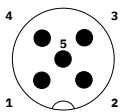
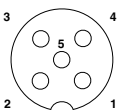
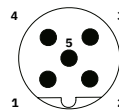
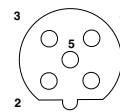
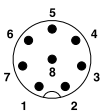
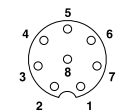
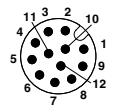
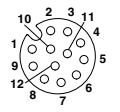
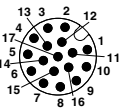
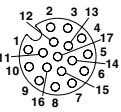
	Push-pull	Male / female	
	Screw locking mechanism		

^{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 

 Web code: #0215

1411926⁹⁾	1411913	1411927⁹⁾	1411914	1411928⁹⁾	1411915	1411929⁹⁾	1411916	1411930⁹⁾	1411917
1411984⁹⁾	1411976	1411985⁹⁾	1411977	1411986⁹⁾	1411978	1411987⁹⁾	1411979	1411988⁹⁾	1411980
1411957⁹⁾	1411951	1411958⁹⁾	1411952	1411959⁹⁾	1411953	1411960⁹⁾	1411954	1411961⁹⁾	1411966⁸⁾
1412012⁹⁾	1412006	1412013⁹⁾	1412007	1412014⁹⁾	1412008	1412015⁹⁾	1412009	1412016⁹⁾	1412018⁸⁾
1411943⁹⁾	1411937	1411944⁹⁾	1411938	1411945⁹⁾	1411939	1411946⁹⁾	1411940	1411947⁹⁾	-
1411998⁹⁾	1411992	1411999⁹⁾	1411993	1412000⁹⁾	1411994	1412001⁹⁾	1411995	1412002⁹⁾	-

Male: [1107999^{5\)}](#) / female: [1454494^{5\)}](#)

Male: [1412078^{5\)}](#) / female: [1412079^{5\)}](#)

Female: [1454497^{7\)}](#)

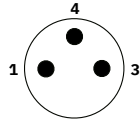
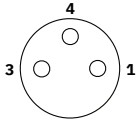





M14 x 1: [1412077](#) / M16 x 1: [1312511](#)

Male: [1107993^{6\)}](#) / female: [1454492^{6\)}](#)

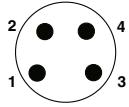
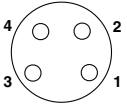
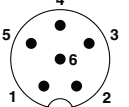
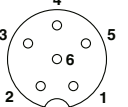
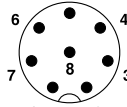
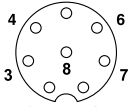


Male: [1414000^{6\)}](#) / female: [1414021^{6\)}](#)

Male: [1454496^{5\)}](#) / female: [1454495^{5\)}](#)

Male: [1412080^{5\)}](#) / female: [1412081^{5\)}](#)

RoHS	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 mm ²	
	Assembly		
Front mounting			
	M8 x 0.5 fastening thread	1500334 ¹⁾	1500350 ¹⁾
	M8 flat nut		
	M10 fastening thread	-	-
Rear mounting			
	M8 x 1 fastening thread	1453478 ¹⁾	-
	M10 fastening thread	-	1456080 ¹⁾
	M12 fastening thread	-	1453449 ¹⁾
M8 device connector, solder connection, for wave soldering processes			
Rear mounting, one-piece			
	M8 fastening thread, straight	1694334 ¹⁾	-
	M10 fastening thread, straight	-	-
	M12 fastening thread, straight	-	1694363 ¹⁾
	M8 fastening thread, straight, shielded	1455997 ¹⁾	-
	M8 fastening thread, angled, shielded	1456035 ¹⁾	-
	M10 fastening thread, straight, shielded	-	1456116 ¹⁾
	M10 fastening thread, angled, shielded	-	1456145 ¹⁾
Rear mounting, two-piece			
	M8 fastening thread, straight	-	1524776 ¹⁾
	M8 fastening thread, angled	1440070 ¹⁾	1524788 ¹⁾




¹⁾ No alternative items yet available with reduced lead content below 0.1%.

4		6		8	
A					
30 V AC / 30 V DC					
1.5 A					
Male 	Female 	Male 	Female 	Male 	Female 
 Web code: #0216					
0.14 mm ²					
Preassembled with 0.5 m long litz wires					
1500347 ¹⁾	1500363 ¹⁾	1542664 ¹⁾	1542677 ¹⁾	-	-
1504071 ¹⁾					
-	-	-	-	1424232 ¹⁾	1424231 ¹⁾
1453481 ¹⁾	-	1453494 ¹⁾	-	1424230 ¹⁾	-
-	1456093 ¹⁾	-	1456103 ¹⁾	-	-
-	1453452 ¹⁾	-	1453465 ¹⁾	-	-
 Web code: #0218					
1694347 ¹⁾	-	1436521 ¹⁾	-	1424238 ¹⁾	-
-	-	-	-	-	1424237 ¹⁾
-	1694376 ¹⁾	-	1436534 ¹⁾	-	-
1456019 ¹⁾	-	1456022 ¹⁾	-	1424236 ¹⁾	-
1456048 ¹⁾	-	1424244 ¹⁾	-	-	-
-	1456129 ¹⁾	-	1456132 ¹⁾	-	1424235 ¹⁾
-	1456158 ¹⁾	-	1424243 ¹⁾	-	-
-	1524789 ¹⁾	-	-	-	-
1440096 ¹⁾	1526169 ¹⁾	-	-	-	-

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


M8 device connector, solder connection, for reflow soldering processes

Two-piece, SMD contact carriers


	Straight, SMD, tray packing	1412225⁶⁾	1412220
	Straight, SMD, tape-on-reel	1412248⁶⁾	1412243
	Straight, shielded, SMD, tray packing, additional gasket for the device when not plugged in	1412240⁶⁾	1412235
	Straight, shielded, SMD, tape-on-reel, additional gasket for the device when not plugged in	1412263⁶⁾	1412257
	Straight, SMD, tray packing, additional gasket for the device when not plugged in	1412233⁶⁾	1412227
	Straight, SMD, tape-on-reel, additional gasket for the device when not plugged in	1412255⁶⁾	1412250

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	
50 V AC / 60 V DC		60 V AC / 60 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	Male	Female	Male	Female	Male	Female

Web code: #0219

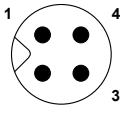
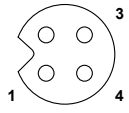
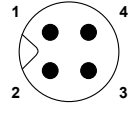
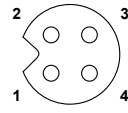



1412226 ⁶⁾	1412221	-	1412222	-	1412223	-	1412224
1412249 ⁶⁾	1412244	1068453	1412245	-	1412246	-	1412247
1412241 ⁶⁾	1412236	-	1412237	-	1412238	-	1412239
1412264 ⁶⁾	1412258	1068454	1412259	-	1412261	-	1412262
1412234 ⁶⁾	1412228	-	1412229	-	1412230	-	1412232
1412256 ⁶⁾	1412251	1163177	1412252	-	1412253	-	1412254

Male: 1412502⁵⁾ / female: 1412504⁵⁾


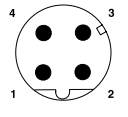
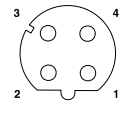
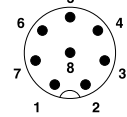
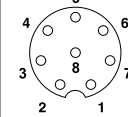






1412508

Male: 1412505¹⁾ / female: 1412506¹⁾




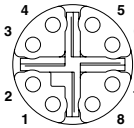
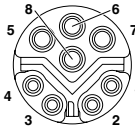







Male: 1412500⁵⁾ / female: 1412501⁵⁾

RoHS	Number of positions	3		4	
	Coding	A			
	Rated voltage	60 V			
	Rated current	1 A		1 A	
	Conductor cross-section	0.14 mm ²			
	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	1530582¹⁾	1530605¹⁾	1530595¹⁾	1530618¹⁾
	Flat nut with M5 thread	1535901¹⁾			
Rear mounting, one-piece for wave soldering processes					
	M5 fastening thread	1530621¹⁾	1530647¹⁾	1530634¹⁾	1530650¹⁾
	Flat nut with M5 thread	1535901¹⁾			

¹⁾ No alternative items yet available with reduced lead content below 0.1%.

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


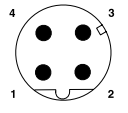
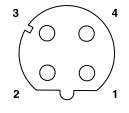
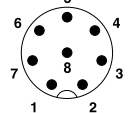
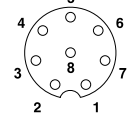











For additional 4-position, D-coded and 8-position A-coded connectors, see section Signals – M12, more information from page 16.

 <p>RoHS</p> <p>Lead-free alternative items available</p>	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				
 <p>Ethernet</p>	M16 x 1.5, water blue, cable type 94F	0.5 m	1424135	-
		1 m	1424148	-
		2 m	1424151	-
		5 m	1424164	-
 <p>Hybrid</p>	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				
 <p>Hybrid</p>	M16 x 1.5	-	1407618	
Rear mounting, for wave soldering processes				
 <p>Ethernet Hybrid</p>	M16 x 1.5, one-piece, wave soldering	1424177	1407503	
	Pg9, one-piece, wave soldering	1404741	-	
Two-piece, contact carriers for wave and reflow soldering processes				
 <p>Ethernet Hybrid</p>	Straight, shielded, THR, blister packaging	1402457	-	
	Straight, shielded, THR, tape-on-reel	1413446¹⁾	-	
	Straight, shielded, SMD, tray packing	1411964¹⁾	-	
	Straight, shielded, SMD, tape-on-reel	1081252¹⁾	-	
	Angled, shielded, wave soldering	1424180	-	
 <p>Ethernet Hybrid</p>	Straight, shielded, THR, blister packaging	-	1405225	
	Straight, shielded, THR, tape-on-reel	-	1413445¹⁾	
	Straight, shielded, SMD, tray packing	-	1411965¹⁾	
	Straight, shielded, SMD, tape-on-reel	-	1069566¹⁾	
	Angled, shielded, wave soldering	-	1424193	

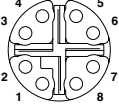
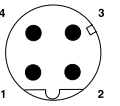
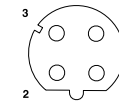
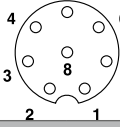








Housing screw connections for THR and wave soldering contact carriers, more information from page 24.

Housing screw connections for SMD contact carriers, more information from page 26.

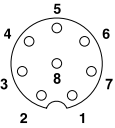
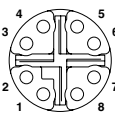
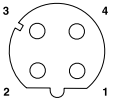




¹⁾ Contact carriers with assembly pad.



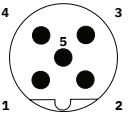
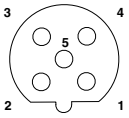







 <p>RoHS</p> <p>Lead-free alternative items available</p>	Number of positions	4		8		
	Coding	D		A		
	Pin assignment	Male	Female	Male	Female	
						
M12 device connectors for networks  Web code: #0226						
Rear mounting, with assembled cable						
 	M16 x 1.5, red, cable type 93K	0.5 m	1419158	1419154	-	-
		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-position, D-coded and 8-position A-coded connectors, see section Signals – M12, more information from page 16.



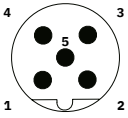
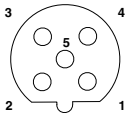







RoHS	Number of positions	8	4		8	
	Coding	■ X	■ D		■ A	
	Pin assignment	Female 	Male 	Female 	Female 	
M12 device connectors to RJ45  Web code: #3760						
	CAT6_a, 94F	0.5 m	1417828	-	-	-
		1 m	1412315	-	-	-
		2 m	1412316	-	-	-
		5 m	1419482	-	-	-
	93E	0.5 m	-	1423476	1404205	-
		1 m	-	-	1404206	-
		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	-	-	-	-
	CAT5 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.



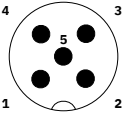
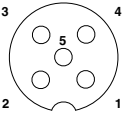






RoHS	Number of positions	8		8		4	
	Coding	■ A		■ X		■ D	
	Orientation	180°	90°	180°	90°	180°	90°
	Pin assignment	Female 		Female 		Female 	
IP20 / IP6X control cabinet feed-through						 Web code: #0339	
	CAT5	1414396	1414393	-	-	-	-
	Ethernet CAT6_A	-	-	1404549	1404548	-	-
	PROFINET CAT5	-	-	-	-	1414398	1414397

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



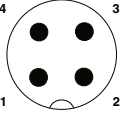
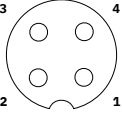






For additional 5-position, B-coded connectors, see section Signals – M12, more information from page 16.

 <p>RoHS</p> <p>Lead-free alternative items available</p>	Number of positions	5		
	Coding	 B		
	Pin assignment	<p>Male</p> 	<p>Female</p> 	
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
		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	-


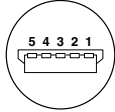


For additional 5-position, B-coded connectors, see section Signals – M12, more information from page 16.


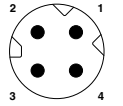
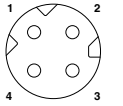
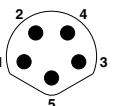
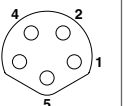





 <p>RoHS</p> <p>Lead-free alternative items available</p>	Number of positions	5		
	Coding	 A		
	Pin assignment	<p>Male</p> 	<p>Female</p> 	
M12 device connectors for fieldbuses				
			 Web code: #0231	
Front mounting, with assembled cable				
	M16 x 1.5, violet, cable type 920	0.5 m	1525623	1525678
		1 m	1525636	1525681
		2 m	1525649	1525694
		5 m	1525652	1525704
		M16 x 1.5 EMC nut		1440164
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-position, A-coded connectors, see section Signals – M12, more information from page 16.

 <p>RoHS</p> <p>Lead-free alternative items available</p>	Number of positions	4		
	Coding	 A		
	Pin assignment	<p>Male</p> 	<p>Female</p> 	
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, green	1457856	1457869	
Rear mounting, for wave soldering processes, shielded				
	M16 x 1.5, one-piece, contact carrier, yellow	1457872	-	








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

 <p>RoHS</p> <p>Lead-free alternative items available</p>	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

 <p>RoHS</p> <p>Lead-free alternative items available</p>	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						
	M10 fastening thread	-	-	1424234 ¹⁾	1424233 ¹⁾	
Rear mounting, for wave soldering processes						
	M8 fastening thread, straight, shielded	1679940 ¹⁾	-	1679927 ¹⁾	-	
	M8 fastening thread, angled, shielded	1679941 ¹⁾	-	1679929 ¹⁾	-	
	M10 fastening thread, straight, shielded	-	1679942 ¹⁾	-	1679932 ¹⁾	
	M10 fastening thread, angled, shielded	-	1679944 ¹⁾	-	1679936 ¹⁾	
Two-piece, SMD contact carriers for reflow soldering processes						
	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
	Straight, SMD, tape-on-reel	-	1068453	-	-	
	Straight, SMD, tape-on-reel, additional gasket for the device when not plugged in	-	1068454	-	-	



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

¹⁾ No alternative items yet available with reduced lead content below 0.1%.



 <p>RoHS</p> <p>Lead-free alternative items available</p>	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


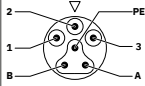


	M16 x 1.5 fastening thread, one-piece	1411655 ¹⁾	1411654 ¹⁾	1424139 ¹⁾	1424137 ¹⁾	
	Flat nut M16 x 1.5	1504097				
	M16 x 1.5 fastening thread, XL versions, wrench size 19	Litz wires: 16 AWG	-	-	1411607 ¹⁾	1411605 ¹⁾
		Litz wires: 2.5 mm ²	-	-	-	-
		PROFINET-specified, litz wires: 16 AWG	-	-	-	-
		PROFINET-specified, Litz wires: 2.5 mm ²	-	-	-	-
	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⁾
Litz wires: 2.5 mm ²			-	-	-	-
PROFINET-specified, litz wires: 16 AWG			-	-	-	-
PROFINET-specified, Litz wires: 2.5 mm ²			-	-	-	-

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

L-coding, 4+FE-position: 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




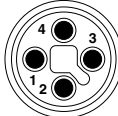
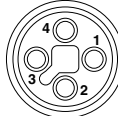





4		5(4+FE)		5(4+PE)		6(5+PE)			
T		L		L		K		M	
63 V		63 V		63 V		630 V		630 V	
12 A		12 A / 16 A		12 A / 16 A		12 A / 16 A		8 A	
16 AWG		16 AWG / 2.5 mm ²		16 AWG / 2.5 mm ²		16 AWG / 2.5 mm ²		16 AWG	
Male	Female	Male	Female	Male	Female	Male	Female	Male	Female

Web code: #0238







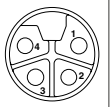
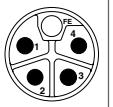
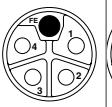
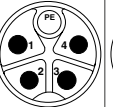
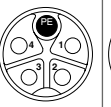
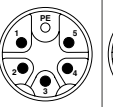
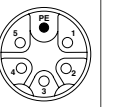












1424140 ¹⁾	1424138 ¹⁾	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
1411608 ¹⁾	1411606 ¹⁾	-	-	-	-	1425635 ²⁾	1425636 ²⁾	1415300 ²⁾	1415301 ²⁾
-	-	-	-	1415295 ²⁾	1415296 ²⁾	1415291 ²⁾	1415292 ²⁾	-	-
-	-	1425631 ²⁾	1425632 ²⁾	1425627 ²⁾³⁾	1425628 ²⁾³⁾	-	-	-	-
-	-	1425586 ²⁾	1425587 ²⁾	1425582 ²⁾³⁾	1425583 ²⁾³⁾	-	-	-	-

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⁾	-	-	-	-

 Lead-free alternative items available	Number of positions	4(3+PE)		4	
	Coding	S		T	
	Rated voltage	630 V		63 V	
	Rated current	12 A		12 A	
	Pin assignment	Male	Female	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	1406396	1406411
	Straight, THR, tape-on-reel	1418343	1418344	1418339 ¹⁾	1418340 ¹⁾
	Straight, shielded, THR, blister packaging	-	-	1406397	1406412
	Straight, shielded, THR, tape-on-reel	-	-	1418341 ¹⁾	1418342 ¹⁾
Two-piece, SMD contact carriers					
	Straight, SMD, tray packing	-	-	1411931 ¹⁾	1411918
	Straight, SMD, tape-on-reel	-	-	1411989 ¹⁾	1411981
	Straight, shielded, SMD, tray packing	-	-	-	1411967
	Straight, shielded, SMD, tape-on-reel	-	-	-	1412019
	Straight, SMD, tray packing, additional gasket for the device when not plugged in	-	-	1411948 ¹⁾	-
	Straight, SMD, tape-on-reel, additional gasket for the device when not plugged in	-	-	1412003 ¹⁾	-
	Straight, shielded, SMD, tray packing, additional gasket for the device when not plugged in	-	-	1411962 ¹⁾	-
	Straight, shielded, SMD, tape-on-reel, additional gasket for the device when not plugged in	-	-	1412017 ¹⁾	-

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.

 Lead-free alternative items available	Number of positions	4		5(4+FE)		5(4+FE)		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	-	-	1420817 ⁸⁾	1420818 ⁸⁾	-	-	-	-
	PROFINET-specified	1425603 ⁸⁾	1425604 ⁸⁾	1425594 ^{7) 8)}	1425595 ^{7) 8)}	-	-	-	-
	Straight, THR, w	-	-	1420828 ⁸⁾	1420829 ⁸⁾	-	-	-	-
	PROFINET-specified	1425605 ⁸⁾	1425606 ⁸⁾	1425599 ^{7) 8)}	1425600 ^{7) 8)}	-	-	-	-
 	Straight, shielded, THR, tray packing	-	-	1421314 ⁸⁾	1421315 ⁸⁾	1420819 ⁸⁾	1420821 ⁸⁾	1420822 ⁸⁾	1420823 ⁸⁾
	PROFINET-specified	1425639 ⁸⁾	1425640 ⁸⁾	1425597 ^{7) 8)}	1425598 ^{7) 8)}	-	-	-	-
	Straight, shielded, THR, tape-on-reel	-	-	1421317 ⁸⁾	1421318 ⁸⁾	1420830 ⁸⁾	1420831 ⁸⁾	1420832 ⁸⁾	1420833 ⁸⁾
	PROFINET-specified	1425641 ⁸⁾	1425642 ⁸⁾	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 locking 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									
	Screw locking mechanism				Male: 1732008 ⁵⁾ / female: 1732007 ⁵⁾				

K- and M-coding: PE applied to housing,

L-coding, 4+FE-position: 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

⁸⁾ Contact carriers with assembly pad.



	Number of positions		4		5		8		
	Lead-free alternative items available	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	Straight	1424657	1424655	1424649	1424652	-	-
			Angled	1424654	1424656	1424651	1424653	-	-
Push-Lock connection, conductor cross-section: 0.14 mm² ... 0.75 mm², shielded									
		A	Straight	1424666	1424668	1424658	1424660	-	-
			Angled	1424667	1424669	1424659	1424661	-	-
		B	Straight	-	-	1424662	1424664	-	-
			Angled	-	-	1424663	1424665	-	-
Push-Lock connection, conductor cross-section: 0.14 mm² ... 0.75 mm², with push-pull internal locking									
		A	Straight	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	Straight	1438165	1438169	1438175	1438180	-	-
			Angled	1438168	1438172	1438179	1438181	-	-
IDC connection, conductor cross-section: 0.14 mm² ... 0.34 mm²									
		A	Straight	1641691	1641688	-	-	-	-
IDC connection, conductor cross-section: 0.14 mm² ... 0.5 / 0.75 mm²									
		A	Straight	-	-	1414600	1414601	1424433	1424434
IDC connection, conductor cross-section: 0.34 mm² ... 0.75 mm²									
		A	Straight	1641785	1641772	-	-	-	-
IDC connection, conductor cross-section: 0.14 mm² ... 0.5 / 0.75 mm², shielded									
		A	Straight	1413993	1413994	1413991	1413992	1414610	1414611

















	Number of positions		4		5		8		
	Lead-free alternative items available	Coding	Design	Male	Female	Male	Female	Male	Female
M12 connector, designed for assembly  Web code: #0242									
Crimp connection, shielded									
	 A	Straight	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	Straight	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	Straight	1662528 ¹⁾	1681127 ¹⁾	1663116 ¹⁾	1662968 ¹⁾	-	-	
		Angled	1681101 ¹⁾	1681143 ¹⁾	1663129 ¹⁾	1662984 ¹⁾	-	-	
Screw connection, external cable diameter: 6 mm ... 8 mm									
	 A	Straight	1523230 ¹⁾	1696439 ¹⁾	1681460 ¹⁾	1681486 ¹⁾	1513334 ¹⁾	1513347 ¹⁾	
		Angled	-	-	1681473 ¹⁾	1681499 ¹⁾	-	-	
Screw connection, external cable diameter: 4 mm ... 6 mm, with SKINTOP[®] screw connection									
	 A	Straight	1556870 ¹⁾	1430381 ¹⁾	1456466 ¹⁾	1559000 ¹⁾	-	-	
		Angled	-	-	-	-	-	-	
Screw connection, external cable diameter: 6 mm ... 8 mm, with SKINTOP[®] screw connection									
	 A	Straight	-	-	1556825 ¹⁾	1556838 ¹⁾	-	-	
		Angled	-	-	1561742 ¹⁾	1556812 ¹⁾	-	-	
Screw connection, external cable diameter: 4 mm ... 6 mm, shielded									
	 A	Straight	1693830 ¹⁾	1694295 ¹⁾	1693416 ¹⁾	1694305 ¹⁾	-	-	
		Angled	1694279 ¹⁾	-	1693429 ¹⁾	-	-	-	
Screw connection, external cable diameter: 6 mm ... 8 mm, shielded									
	 A	Straight	1501540 ¹⁾	1515170 ¹⁾	1694266 ¹⁾	1694318 ¹⁾	1511857 ¹⁾	1511860 ¹⁾	
		Angled	-	-	1694282 ¹⁾	1430433 ¹⁾	-	-	

¹⁾ No items yet available with reduced lead content below 0.1%.








	Number of positions		12		17		
	Lead-free alternative items available	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	Straight	1559592 ¹⁾	1559631	1559602 ¹⁾	1559644
Solder connection, conductor cross-section: 0.08 mm² ... 0.25 mm², shielded							
		A	Straight	1404410 ¹⁾	1404411 ¹⁾	-	-
			Angled	1404412 ¹⁾	1404413 ¹⁾	-	-

¹⁾ No items yet available with reduced lead content below 0.1%.


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


	Number of positions		3		4	
	Lead-free alternative items available	Coding	Design	Male	Female	Male
M8 connector, designed for assembly  Web code: #0246						
Push-Lock connection, conductor cross-section: 0.14 mm² ... 0.5 mm²						
	 A	Straight	1482516	1482523	1482520	1482525
		Angled	1482521	1482526	1482522	1482527
IDC connection, conductor cross-section: 0.08 mm² ... 0.25 mm²						
	 A	Straight	1441008	1441040	1441011	1441053
IDC connection, conductor cross-section: 0.25 mm² ... 0.5 mm²						
	 A	Straight	1441024	1441066	1441037	1441079
Screw connection, conductor cross-section: 0.14 mm² ... 0.5 mm²						
	 A	Straight	1501252 ¹⁾	1506888 ¹⁾	1501265 ¹⁾	1506891 ¹⁾
		Angled	1407583 ¹⁾	1407582 ¹⁾	1407585 ¹⁾	1407584 ¹⁾
Screw connection, conductor cross-section: 0.14 mm² ... 0.5 mm², shielded						
	 A	Straight	1542884 ¹⁾	1542907 ¹⁾	1542897 ¹⁾	1542910 ¹⁾
Solder connection, conductor cross-section: 0.08 mm² – 0.25 mm²						
	 A	Straight	1681156 ¹⁾	1681172 ¹⁾	1681169 ¹⁾	1681185 ¹⁾
		Angled	1699902 ¹⁾	1529399 ¹⁾	1554209 ¹⁾	1513444 ¹⁾
Solder connection, conductor cross-section: 0.08 mm² ... 0.25 mm², shielded						
	 A	Straight	1506901 ¹⁾	1506927 ¹⁾	1506914 ¹⁾	1506930 ¹⁾
		Angled	1436453 ¹⁾	1436479 ¹⁾	1436466 ¹⁾	1436482 ¹⁾
Push-Lock connection, shielded						
 	 D	Straight	–	–	1323169	1328199

¹⁾ No items yet available with reduced lead content below 0.1%.


	Number of positions			4		5		8		
	Lead-free alternative items available	Fieldbuses/ networks	Coding	Design	Male	Female	Male	Female	Male	Female
M12 connector, designed for assembly  Web code: #0249										
Push-Lock connection, shielded										
	PROFINET	■ D	Straight	1424682	1424683	-	-	-	-	
			Angled	1424684	1424685	-	-	-	-	
	DeviceNet [™] CANopen [®]	■ A	Straight	-	-	1424670	1424672	-	-	
			Angled	-	-	1424671	1424673	-	-	
	CC-LINK	■ A	Straight	1424699	1424700	-	-	-	-	
	INTERBUS	■ B	Straight	-	-	1424674	1424676	-	-	
			Angled	-	-	1424675	1424677	-	-	
					2-position					
					Male			Female		
	PROFIBUS DP	■ B	Straight				1424678			1424680
Angled						1424679			1424681	
Push-Lock connection, shielded, with push-pull internal locking										
	PROFINET	■ D	Straight	1438182	143183	-	-	-	-	
			Angled	1438184	1438185	-	-	-	-	
IDC connection, shielded										
	Ethernet	■ D/A	Straight	1411066	1411069	-	-	1421679	1421680	
			Angled	1553624 ¹⁾	1553637 ¹⁾	-	-	1553653 ¹⁾	1553666 ¹⁾	
	PROFINET	■ D	Straight	1411068	1411071	-	-	-	-	
			Angled	1554539 ¹⁾	1554542 ¹⁾	-	-	-	-	
CAT6 _A	■ X	Straight	-	-	-	-	1411043	1414586		
	DeviceNet [™]	■ A	Straight	-	-	1422759	1422760	-	-	
	PROFIBUS PA	■ A	Angled	1413933	1413934	-	-	-	-	
					2-position					
					Male			Female		
	PROFIBUS DP	■ B	Straight				1413931			1413932
Crimp connection, shielded										
	PROFINET	■ D	Straight	1422846	1422848	-	-	-	-	
			Angled	1422847	1422849	-	-	-	-	
	PROFINET CAT6 _A	■ X	Straight	-	-	-	-	1422844	-	
			Angled	-	-	-	-	1422845	-	
	Crimp contacts	0.14 mm ² ... 0.34 mm ²			1064040	1064041	-	-	1423643	-
0.34 mm ² ... 1.0 mm ²			1423645	1423646	-	-	-	-		

¹⁾ No items yet available with reduced lead content below 0.1%.


	Number of positions			4		5		8	
	Lead-free alternative items available	Fieldbuses/networks	Coding	Design	Male	Female	Male	Female	Male

Data – M12 connectors, designed for assembly  Web code: #0249


Crimp connection, shielded, with push-pull internal locking

	Ethernet CAT6 _A	■ X	Straight	-	-	-	-	1489580	-
			Angled	-	-	-	-	1489579	-
	Crimp contacts	0.14 mm ² ... 0.34 mm ²	-	-	-	-	1423643	-	


Crimp connection, shielded, with push-pull external locking







	PROFINET	■ D	Straight	1021830	1021832	-	-	-	-
			Angled	1021831	1021834	-	-	-	-
	PROFINET CAT6 _A	■ X	Straight	-	-	-	-	1021783	-
			Angled	-	-	-	-	1021784	-
	Crimp contacts	0.14 mm ² ... 0.34 mm ²	1064040	1064041	-	-	1423643	-	
		0.34 mm ² ... 1.0 mm ²	1423645	1423646	-	-	-	-	

Piercecon® connection, shielded

	CAT6 _A	■ X	Straight	-	-	-	-	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 mm ² ... 0.75 mm ²	0.14 mm ² ... 0.5 mm ²	0.14 mm ² ... 0.5 mm ²	0.14 mm ² ... 0.34 mm ²		
	Item no.	1420426	1414416	1414415	1414412		

RoHS	Number of positions		2+PE		3+PE		4+PE			
	Coding	Design	Male	Female	Male	Female	Male	Female		
Lead-free alternative items available										
Power – M12 connectors, designed for assembly								 Web code: #0249		
Push-Lock connection, conductor cross-section: 1.5 mm² ... 2.5 mm², shielded										
	S	Straight	1080225	1080227	1080220	1080222	–	–		
		K	Straight	–	–	–	–	1080231	1080228	
	4-position									
	T	Straight	–	–	–	–	1080215	1080218		
		L	Straight	–	–	–	–	1080239	1080237	
	4+FE									
L	Straight	–	–	–	–	1080235	1080233			
Push-Lock connection, conductor cross-section: 1.5 mm² ... 2.5 mm², unshielded										
	4-position									
	T	Straight	–	–	–	–	1151362	1151366		
	4+FE									
L	Straight	–	–	–	–	1151368	1151390			
Screw connection, conductor cross-section: 0.75 mm² ... 1.5 mm², unshielded										
	S	Straight	1419639 ¹⁾	1419640 ¹⁾	1404641 ¹⁾	1404642 ¹⁾	–	–		
		Angled	1419641 ¹⁾	1419642 ¹⁾	1408985 ¹⁾	1408987 ¹⁾	–	–		
	4-position									
	T	Straight	–	–	–	–	1404643 ¹⁾	1404644 ¹⁾		
		Angled	–	–	–	–	1408988 ¹⁾	1408989 ¹⁾		
	Crimp connection, conductor cross-section 1.5 mm² ... 2.5 mm², shielded									
	4-position									
	T	Straight	–	–	–	–	1027465	1027466		
		L	Straight	–	–	–	–	1027479	1007480	
	4+PE									
	S	Straight	1027467	1027469	1027467	1027469	–	–		
	K	Straight	–	–	–	–	1027474	1027476		
		4+FE								
	K	Straight	–	–	–	–	1027477	1027478		
Crimp contacts										
	Coding		S/T		K/L					
			Male	Female	Male	Female				
	Connection cross-section	1.5 mm ²	1029394	1029395	1029394	1029396				
		2.5 mm ²	1029388	1029390	1029388	1029392				
		PE male, 1.5 mm ²	1029398	–	–	1029398				
		PE male, 2.5 mm ²	1029389	–	–	1029389				
		PE female, 1.5 mm ²	–	1029400	1029401 ¹⁾	–				
PE female, 2.5 mm ²	–	1029391	1029393	–						

Please order crimp contacts separately.

¹⁾ No items yet available with reduced lead content below 0.1%.

Assembled cables with M8 or M12 connectors (PUR) Web code: #0283						
 Lead-free alternative items available						
						
Design	M8			M12		
Number of positions	3	4	3	4	5	5, shielded
Coding	A					
Straight male, free cable end						
3 m	1681677¹⁾	1681790¹⁾	1668027	1668056	1669770	1682744
5 m	1681680¹⁾	1681800¹⁾	1668030	1668069	1669783	1682731
10 m	1693584¹⁾	1694143¹⁾	1682566	1682993	1683361	1500732
Straight female, free cable end						
3 m	1669725	1681855	1694499	1668111	1669835	1682948
5 m	1669628	1681868	1683510	1668124	1669848	1682951
10 m	1694101	1683484	1693034	1683002	1683374	1500758
Straight male, straight female						
0.3 m	1681907¹⁾	1682142¹⁾	1681509	1668357	1681583	1500884
0.6 m	1681910¹⁾	1682155¹⁾	1681512	1668360	1681596	1500897
1.5 m	1681923¹⁾	1682168¹⁾	1681525	1668373	1681606	1500907
3 m	1681936¹⁾	1682171¹⁾	1681538	1668386	1681619	1500910
Angled female, free cable end						
3 m	1669741	1681884	1694512	1668234	1669864	1682977
5 m	1669631	1681897	1694525	1668247	1669877	1682980
10 m	1694169	1694172	1694538	1681389	1694541	1500761

¹⁾ No items yet available with reduced lead content below 0.1%.



Assembled cables with M12 push-pull connectors (PUR), unshielded

 Web code: #2679

 <p>Lead-free alternative items available</p>				
	3	4	5	8
Number of positions	A			
Coding	A			
Straight male, free cable end				
1.5 m	1384594	1392638	1393925	1649294
3 m	1385536	1392698	1395703	1649297
5 m	1385538	1392709	1395709	1649300
10 m	1385625	1392713	1395710	1649301
Angled male, free cable end				
1.5 m	1385626	1392735	1395742	1649284
3 m	1385643	1392755	1395750	1649285
5 m	1385646	1392829	1395803	1649286
10 m	1385647	1392834	1395805	1649287
Straight female, free cable end				
1.5 m	1385782	1392839	1395814	1649276
3 m	1385791	1393005	1395817	1649279
5 m	1385792	1393026	1395822	1649281
10 m	1385968	1393032	1395827	1649283
Angled female, free cable end				
1.5 m	1386380	1393038	1395830	1649275
3 m	1386394	1393047	1395831	1649278
5 m	1386513	1393072	1395834	1649280
10 m	1386514	1393169	1395835	1649282
Straight male, straight female				
0.3 m	1386723	1393188	1395841	1649289
0.6 m	1386786	1393219	1395969	1649292
1.5 m	1223960	1224019	1224208	1649296
3 m	1386788	1393228	1396099	1649299
Straight male, angled female				
0.3 m	1386796	1393235	1396479	1649288
0.6 m	1392195	1393272	1396489	1649290
1.5 m	1224008	1224166	1224223	1649295
3 m	1392208	1393555	1396496	1649298
Angled male, straight female				
0.3 m	1392235	1393583	1396499	-
0.6 m	1392254	1393590	1396511	-
1.5 m	1224009	1224169	1224229	-
3 m	1392255	1393595	1396517	-
Straight male, M12 female, straight for screwing in				
0.3 m	1392395	1393615	1396523	-
0.6 m	1392562	1393900	1396533	-
1.5 m	1392625	1393907	1396546	-
3 m	1392628	1393910	1396550	-











Assembled cables with M12 push-pull connectors (PUR), shielded

 Web code: #2679

 <p>Lead-free alternative items available</p>				
	3	4	5	8
Number of positions	A			
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
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
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
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
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
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
Angled male, straight female				
0.3 m	-	-	-	-
0.6 m	-	-	-	-
1.5 m	1224018	1224204	1224256	-
3 m	-	-	-	-

Assembled network cables with M8 connectors (PUR)

Web code: #1656







 Lead-free items available	EtherCAT.   Ethernet 		EtherCAT.   Ethernet 		EtherCAT.   Ethernet 	
	Number of positions		4		4	
Coding		A		D		
Version		Male, straight	Female, straight	Male, straight	Female, angled	
Free cable end						
1 m	1407344¹⁾	–		1423703	1080526	
2 m	1407345¹⁾	–		1423704	1080528	
5 m	1407346¹⁾	–		1423705	1080530	
10 m	1407347¹⁾	–		1423706	1080531	
Variable	1408719¹⁾	1408716		–	–	
Male, straight						
1 m	1407348¹⁾	–		1423707	1080538	
2 m	1407349¹⁾	–		1423708	1080539	
5 m	1407350¹⁾	–		1423709	1080540	
10 m	1407351¹⁾	–		1423710	1080542	
Variable	1408718¹⁾	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.

¹⁾ No items yet available with reduced lead content below 0.1%.

Assembled network cables with M12 connectors (PUR)







Web code: #0284

 Lead-free items available	 Ethernet	 Ethernet	 Ethernet	 Ethernet	 Ethernet
	8		4		8
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
15 m	-	-	-	-	-
Variable	1408648	-	1408713	-	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
15 m	-	-	-	-	-
Variable	-	-	1408697	-	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	-
15 m	-	-	-	-	-
Variable	-	-	1408692	-	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	-	1408706	-	1327466
Straight male, RJ45					
1 m	-	1584454	-	1476023	-
2 m	-	1584453	-	1476024	-
5 m	-	1584452	-	1476025	-
10 m	-	1584451	-	1476027	-
Straight female, RJ45					
1 m	-	1584450	-	1476029	-
2 m	-	1584449	-	1476030	-
5 m	-	1584448	-	1476031	-
10 m	-	1584447	-	1476032	-
Termination resistors, M12 male					
	-	-	-	-	-

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)


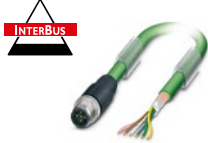



 Web code: #0284

 Lead-free items available	 	 	 
	Number of positions	4	2
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

 Lead-free items available				
	5	3	3	3
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 mm ²	1.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²	1.5 mm ²	2.5 mm ²
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.

Accessories Web code: #0559					
 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 ¹⁾	-
Sealing elements for unused housing cutouts					
	Sealing plug, plastic, for Pg9 / Pg11			1670235	
	Screw plug, metal, M16 x 1.5			1453368 ¹⁾	

¹⁾ No items yet available with reduced lead content below 0.1%.

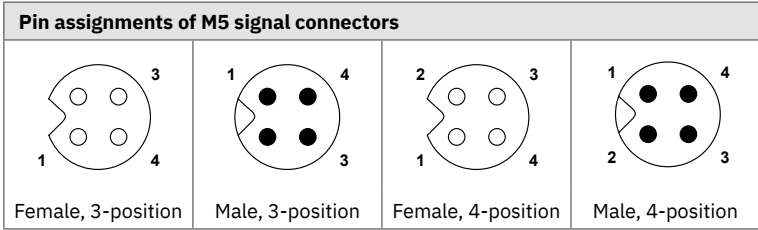
Accessories Web code: #0559					
RoHS	Size	M8		M12	
		Male	Female	Male	Female
Lead-free items available					
Plastic sealing caps and locking screws, with retaining strap					
	For cables	1430857	1430860	1430873	1430899
	With Ø 3 mm fastening lug	-	1441105	-	-
	With Ø 8 mm fastening lug	1441082	-	-	-
	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 ¹⁾	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	

¹⁾ No items yet available with reduced lead content below 0.1%.

Accessories					 Web code: #0559
<div style="background-color: #00a651; color: white; padding: 5px; display: inline-block;">RoHS</div> Lead-free items available	Size		M5	M8	M12
	Screw plug				
	With fine toothings facing inwards. This prevents visible scratch marks from appearing on the device surface.	M12 x 1	-	-	1440151
		M15 x 1	-	-	1104648¹⁾
		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
		M16 x 1	-	-	1312511¹⁾
		M16 x 1.5	-	-	1504097
		M20 x 1	-	-	1411242
	Plastic	M16 x 1.5	-	-	1640692
	Stainless steel (1.4404)	M16 x 1.5	-	-	1404983

¹⁾ No items yet available with reduced lead content below 0.1%.

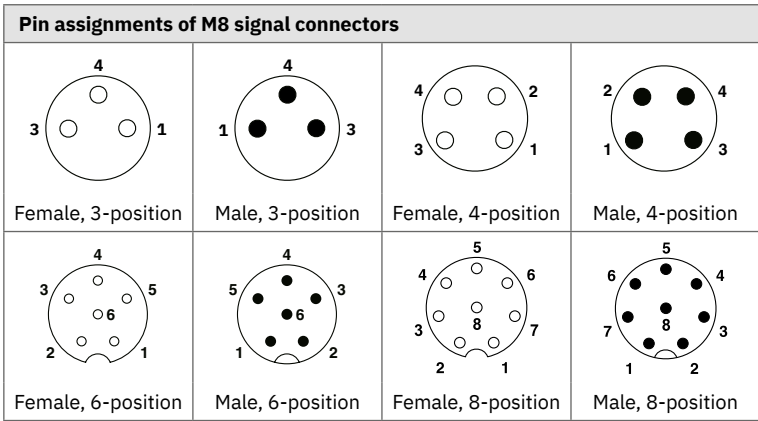
Pin assignments and wire colors



Wire colors

Assignment: M5 male / female

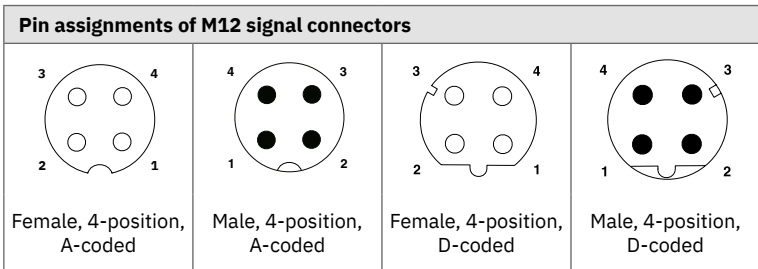
Male	3-position	4-position
1	BN	BN
2	–	WH
3	BU	BU
4	BK	BK



Wire colors

Assignment: M8 male / female

Male	3-position	4-position	6-position	8-position
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



Wire colors

Assignment: M12 male / female

Male	4-position, A-coded	4-position, D-coded
1	BN	YE
2	WH	WH
3	BU	OG
4	BK	BU

Pin assignments and wire colors

Pin assignments of M12 signal connectors

<p>Female, 5-position, A-coded</p>	<p>Male, 5-position, A-coded</p>	<p>Female, 5-position, B-coded</p>	<p>Male, 5-position, B-coded</p>
<p>Female, 8-position</p>	<p>Male, 8-position</p>	<p>Female, 12-position</p>	<p>Male, 12-position</p>
<p>Female, 17-position</p>	<p>Male, 17-position</p>		

Wire colors

Assignment: M12 male / female

Male	5-position, A-coded	5-position, B-coded	8-position	12-position	17-position
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	-	-	-	-	YEEN
17	-	-	-	-	WHGY

Pin assignments of M8 data connectors

<p>Female, 4-position, Ethernet</p>	<p>Male, 4-position, Ethernet</p>	<p>Female, 5-position, DeviceNet™, B-coded</p>	<p>Male, 5-position, DeviceNet™, B-coded</p>
<p>Female, 4-position, PROFINET, D-coded</p>	<p>Male, 4-position, PROFINET, D-coded</p>		

Wire colors

Assignment: CANopen®/DeviceNet™

Male	5-position, B-coded	Signal DeviceNet™
1	Shield	Drain
2	RD	V+
3	WH	CAN_H
4	BK	V-
5	BU	CAN_L

Assignment: PROFINET

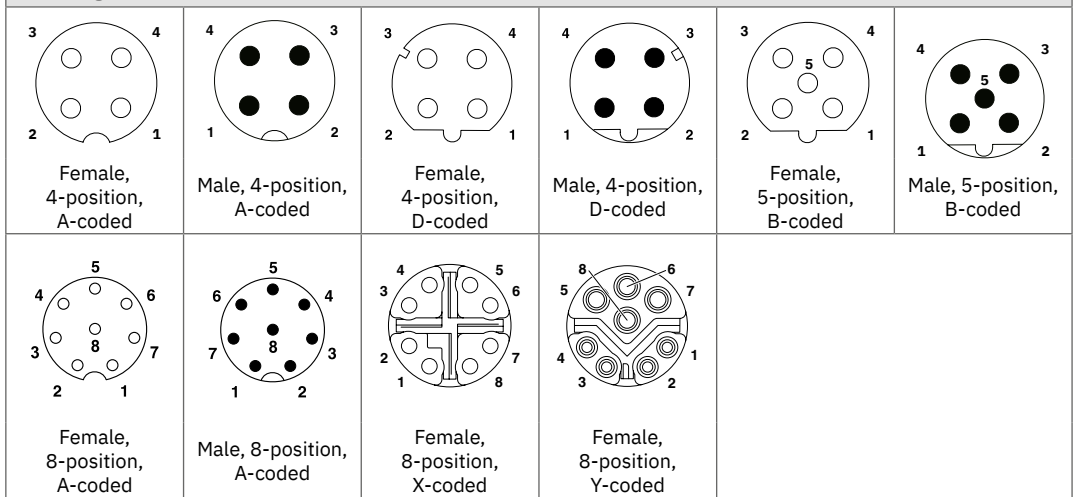
Male	4-position, D-coded	Signal
1	YE	TD+
2	WH	RD+
3	OG	TD-
4	BU	RD-

Assignment: Ethernet

Male	5-position, B-coded	Signal
1	YE	TD+
2	OG	TD-
3	WH	RD+
4	BU	RD-

Pin assignments and wire colors

Pin assignments of M8 data connectors



Wire colors		
Assignment: PROFIBUS		
Male	5-position, B-coded	Signal
1	–	–
2	GN	A cable
3	–	–
4	RD	B cable
5	Drain wire	–
Assignment: INTERBUS		
Male	5-position, B-coded	Signal
1	YE	DO
2	GN	DO
3	GY	DI
4	PK	DI
5	BN	COM
–	WH	NC
Assignment: VARAN		
Male	8-position, 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*		
Male	5-position, 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		
Male	4-position, D-coded	Signal
1	YE	TD+
2	WH	RD+
3	OG	TD-
4	BU	RD-
Assignment: AS-Interface		
Male	4-position, A-coded	Signal
1	BU	AS-i+
2	WH	–
3	BN	AS-i-
4	BK	–
Assignment: FOUNDATION Fieldbus		
Male	4-position, A-coded	Signal
1	BU	DATA-
2	OG	DATA+
3	–	Shield
4	–	–

Wire colors		
Assignment: DeviceNet™		
Male	5-position, 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		
Male	4-position, D-coded	Signal
1	WHOG	TD+
2	WHGN	RD+
3	OG	TD-
4	GN	RD-
Shield on housing		
Assignment: CC-Link		
Male	4-position, A-coded	Signal
1	Shield	SLD
2	WH	DS
3	YE	DG
4	BU	DA

Pin assignments and wire colors

Wire colors		
Assignment: Ethernet		
Male	8-position, 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		
Male	8-position 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		
Male	8-position, 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-position, T-coded	Male, 4-position, T-coded	Female, 4-position, L-coded	Male, 4-position, L-coded
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-position, S-coded	
1	BK1
3	BK2
PE	GNYE
Assignment: 4+PE-position, K-coded	
1	BK1
2	BK2
3	BK3
4	BK4
PE	GNYE

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

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

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

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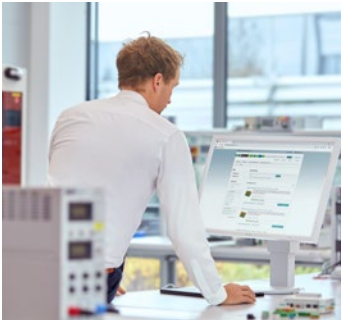
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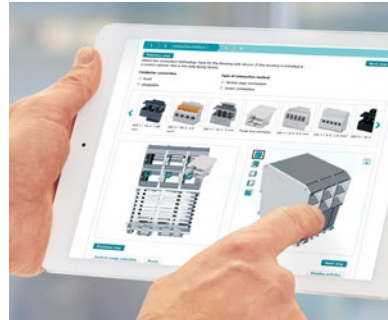
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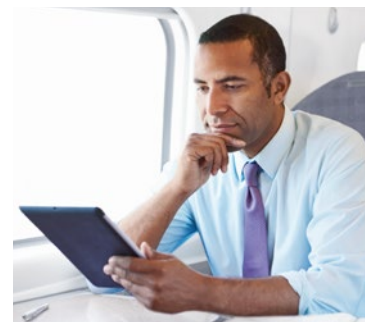
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