

connectors for g applications

icular M5 - M12 range of
enix Contact exemplifies
e plug-in connectors
roven industrial standard
ation, infrastructure,
and outdoor
umber of years.

designs facilitates
ion solutions for devices
n ranges up to 10 Gbps,
signals up to 17-pos., and
o 630 V and 12 A in the



Signals up to 17-pos.

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



Data up to 10 Gbps

- Codings for all commonly used fieldbus systems
- Hybrid for simultaneous data and power transmission, PoE
- Components according to CAT6_A

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Plug-in connectors for assembly

M12 signal plug-in connectors

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M8 signal plug-in connectors

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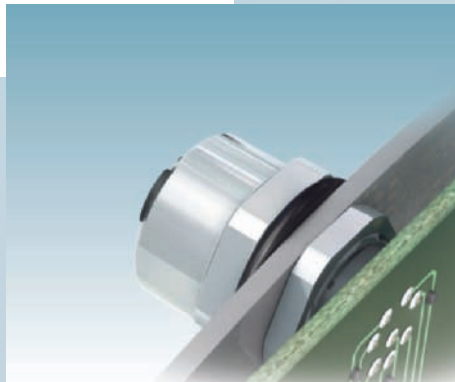
M12 data plug-in connectors



Variety for Data, and power

ment of industrial
stantly placing fresh
connection technology.
an innovative partner
n it comes to the
n capability of device
into a wide variety of

ture of device plug-in
es the simple and cost-
n of various data, signal,
bin assignments into a



For PCB connection



With pre-assembled cable

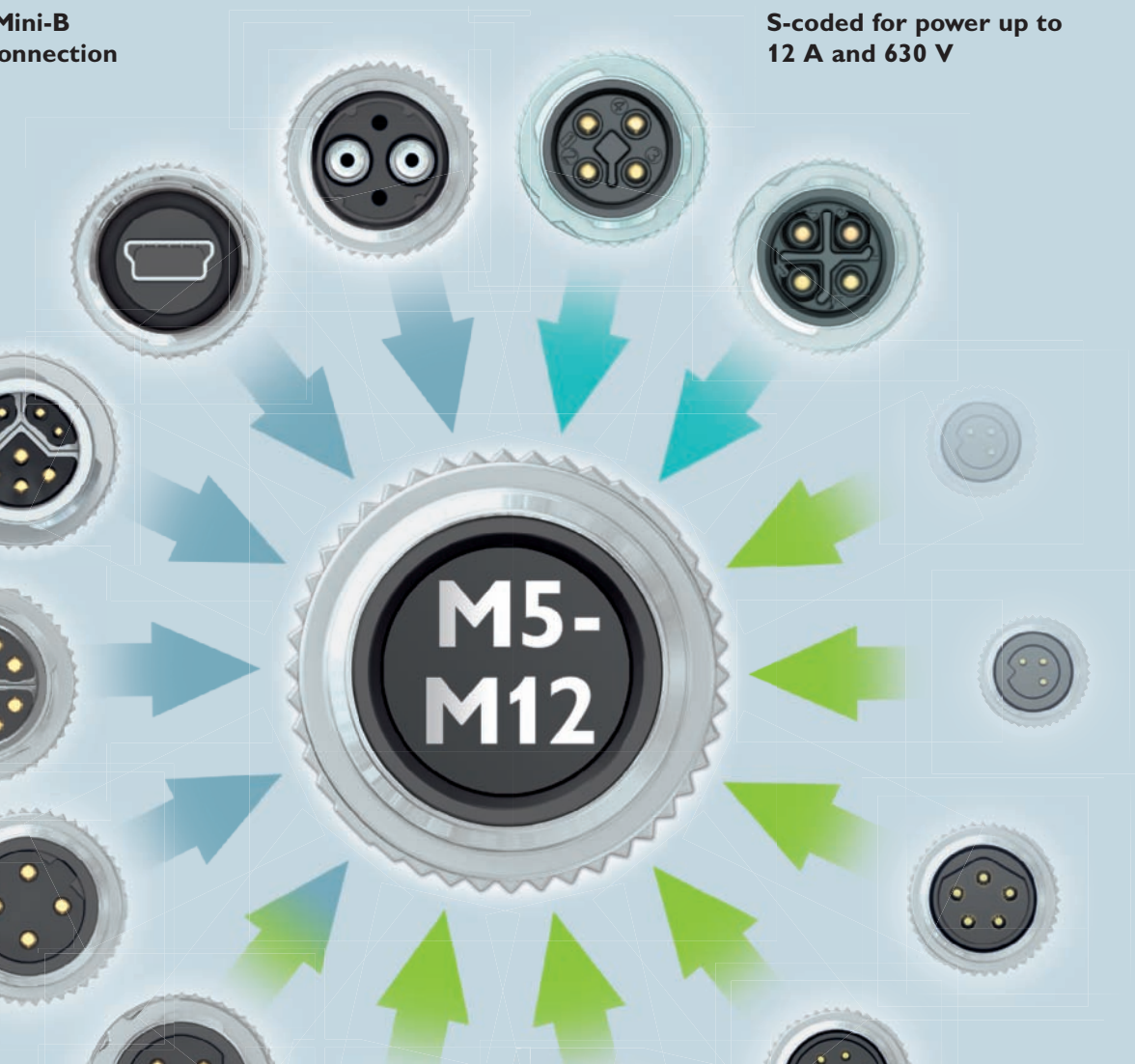


For fiber optic applications in POF

T-coded for power up to 12 A and 60 V

Mini-B connection

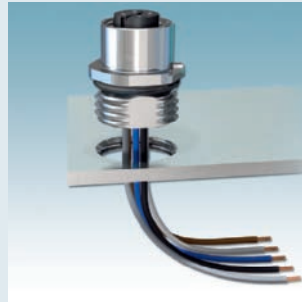
S-coded for power up to 12 A and 630 V



Plug-in connectors with and cable connection

Connectors with litz wires
and M12 round cables are
an alternative to a fixed cable
due to its wide range of
options. Phoenix Contact can offer
a solution for every individual

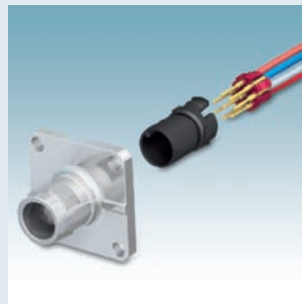
Variety of mounting options




Front mounting



Rear mounting





Our device connection technology for distributed modules is designed for harsh ambient conditions in industrial production processes.

Benefits at a glance



y
assemblies



Positionability

- Defined cable outlet direction



Rapid interlock system

- Compatible with the M12 standard
- Secure locking
- Reduced connection time

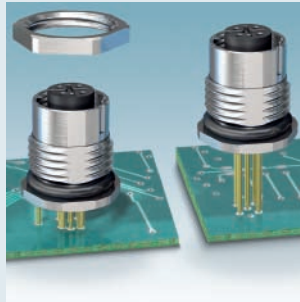
Plug-in connectors for connection

offers a wide range of M5, M8, and M12 design connectors for PCB assembly. Various connection solutions include soldering and reflow

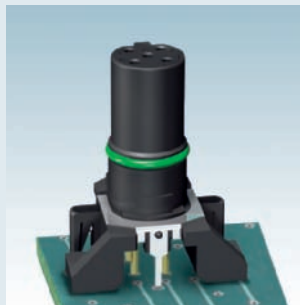
M12 device plug-in connectors provide a wide range of pin configurations for signal, data, and power. They are available in identical mechanical dimensions.



Connection technologies



One-piece, for wave soldering processes

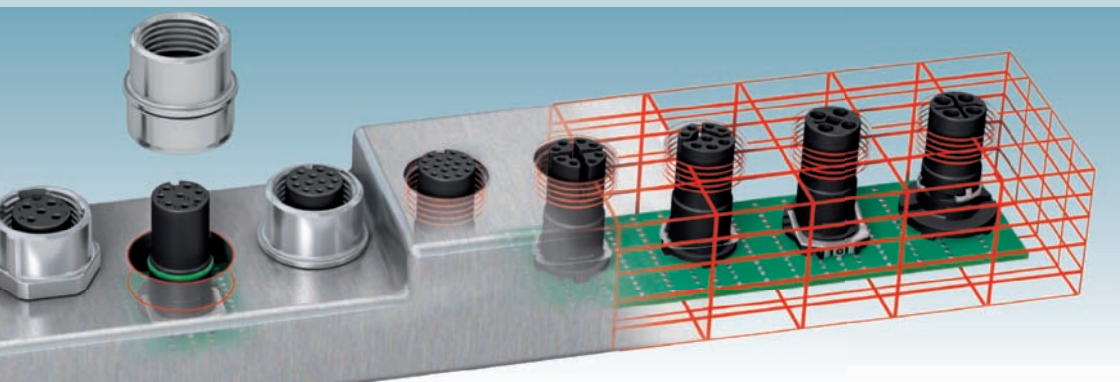


Two-piece, for wave soldering processes





Benefits at a glance



Device plug-in connectors into customer-specific housings

Connections with a threaded fastening, a press-in contour or for front plate

Connection conditions for all numbers of positions and codings on one PCB level

with litz wires, front mounting **4-pos.**

Coding	A	D
Rated voltage	250 V	250 V
Nominal current	4 A	4 A
Conductor cross section	0.34 mm ²	0.34 mm ²
Pin assignment		

fixing

Pg9	1603762	1693788	–	–
Pg9 flat nut				
M16 x 1.5	1523450	1523434	1551558	1535202
M16 x 1.5 flat nut				
Pg9, can be positioned	1693775	1693791	–	–
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

(nickel-plated) versions for screw fixing

Plastic M16 x 1.5	–	–	–	–
Brass (nickel-plated) M20 x 1.5	1408451	1408436	–	–











sions (1.4404), for screw fixing

Pg9	1554555	1555448	–	–
Pg9 flat nut				

		8-pos.		12-pos.		17-pos.	
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	
Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
-	-	1513774	1513758	-	-	-	-
1504084							
20013	1520000	1523492	1523476	1556265	1556252	1556304	1556294
1504097							
15057	1515044	1513787	1513761	-	-	-	-
20026	1519998	1523502	1523489	-	-	-	-
41668	1441671	1441684	1441697	1441707	1441710	1441723	1441736
40999	1441558	1441561	1441574	1441587	1441590	1441600	1441613
-	-	1436424	-	-	-	-	-
-	-	1408442	1408453	-	-	-	-
-	1452343	1554571	1554607	-	-	-	-
1404984							











Crimp connection, front mounting		4-pos.			
		A		D	
	Coding				
	Rated voltage	250 V		250 V	
	Nominal current	4 A		4 A	
	Conductor cross section	0.34 mm ²		0.34 mm ²	
	Pin assignment				
	25 mm square flange, mounting holes 4 x Ø 3.2 mm				
	Pre-assembled contact carrier, with 0.5 m long litz wires	1440805	–	1440821	–
	Contact carrier for crimp contacts, can be assembled	1440931	–	1440944	–
	Crimp contacts Ø 1.0 mm, 0.14 ... 0.34 mm ²	14252356	–	14252356	–
	Crimp contacts Ø 0.8 mm, 0.14 ... 0.34 mm ²	–	–	–	–

with litz wires, rear mounting		4-pos.			
		A		D	
	Coding				
	Rated voltage	250 V		250 V	
	Nominal current	4 A		4 A	
	Conductor cross section	0.34 mm ²		0.34 mm ²	
	Pin assignment				
	fixing				
	Pg9	1556618	1556621	1551532	1551529
	M12 x 1	1551875	–	1551901	–
	M16 x 1.5	1419629	1419632	1419603	1419616

	8-pos.		12-pos.		17-pos.	
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	
Pin  Socket 	Pin  Socket 	Pin  Socket 	Pin  Socket 	Pin  Socket 		

1419959

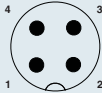
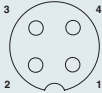

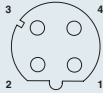
40759	–	1457827	–	–	–	–	–
40915	–	1440928	–	–	–	–	–
252356	–	–	–	–	–	–	–
–	–	1452372	–	–	–	–	–

	8-pos.		12-pos.		17-pos.	
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	
Pin  Socket 	Pin  Socket 	Pin  Socket 	Pin  Socket 	Pin  Socket 		

43663	1543676	1542716	1542732	1430459	1430446	1430475	1430462
51891	–	1551914	–	1437122	–	1437135	–
19661	1419674	1419687	1419690	1419700	1419713	1419726	1419739

with cable, rear mounting **4-pos.**

inet	Coding	A	D
	Rated voltage	250 V	250 V
	Nominal current	4 A	4 A

Pin assignment	Pin	Socket	Pin	Socket
				

fixing, shielded


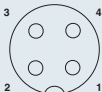

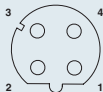
M16 x 1.5 cable length 1 m, PUR black	1419399	1419302	–	–
M16 x 1.5 cable length 2 m, PUR black	1419386	1419315	–	–

ed-throughs for screw fixing

M16 x 1.5 pin to socket	–	–	–	–
M16 x 1.5 socket to socket	–	–	–	1424326

solder connection, front mounting **4-pos.**

inet	Coding	A	D
	Rated voltage	250 V	250 V
	Nominal current	4 A	4 A

Pin assignment	Pin	Socket	Pin	Socket
				

assembly featuring torsion protection

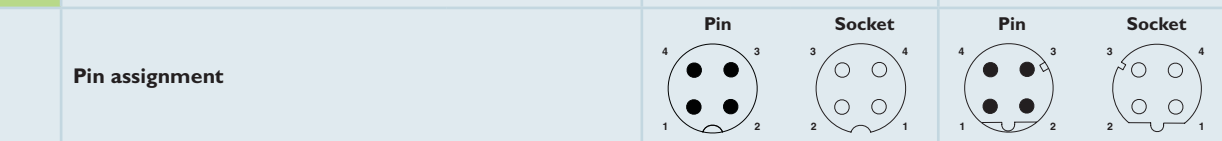
20 mm square flange	1456417	1456420	1456394	1456404

		8-pos.		12-pos.		17-pos.	
B		A		A		A	
60 V		30 V		30 V		30 V	
4 A		2 A		1.5 A		1.5 A	
Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
-	-	1419425	1419357	1442227	1442188	1442308	1442269
-	-	1419438	1419344	1442230	1442191	1442311	1442272
51684	-	1551697	-	-	-	-	-
-	-	-	-	-	-	-	-

		8-pos.		12-pos.		17-pos.	
B		A		A		A	
60 V		30 V		30 V		30 V	
4 A		2 A		1.5 A		1.5 A	
Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
56459	1456462	1408574	1408573	-	-	-	-

Solder connection, rear mounting		4-pos.			
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Features	Coding	A		D	
	Rated voltage	250 V		250 V	
	Nominal current	4 A		4 A	



Mounting options, for screw fixing					
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Pg9	6 mm solder pins	1553459	1553462	1551516	1551503
	12 mm solder pins	-	-	1552308	1552272
M12 x 1		1551820	-	1551859	-
M16 x 1.5		1419742	1419755	1441749	1441752
Pg9, with shield contact	6 mm solder pins	1556841	-	1553035	1553006
	12 mm solder pins	1558535	1558522	1558519	1558506
M12 x 1, with shield contact		1552955	-	1552984	-
M16 x 1.5, with shield contact		1419768	1419771	1441862	1441875

One-piece, straight for screw fixing					
--------------------------------------	--	--	--	--	--

Pg9		-	-	-	-
Pg9 with solder cups	Max. 0.34 mm ²	-	-	-	-
	Max. 0.25 mm ²	-	-	-	-

Options (1.4404), one-piece, straight for screw fixing					
--	--	--	--	--	--

Pg9		1404979	1404974	-	-
-----	--	---------	---------	---	---

		8-pos.		12-pos.		17-pos.	
B		A		A		A	
60 V		30 V		30 V		30 V	
4 A		2 A		1.5 A		1.5 A	
Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
43647	1543650	1542758	1542774	1559932	1559929	1559961	1559958
52324	1552298	–	1408770	–	–	–	–
51846	–	1551862	–	1559945	–	1559974	–
41781	1441794	1441804	1441817	1441820	1441833	1441846	1441859
53051	1553022	1553873	1553860	1436783	1436770	1436819	1436806
58577	1558564	–	1408771	–	–	–	–
52971	–	1552997	–	1437106	–	1437119	–
41901	1441914	1441927	1441930	1441943	1441956	1441969	1441972
–	–	–	1436343	–	–	–	–
–	–	–	–	–	–	–	–
–	–	–	1436327	–	–	–	–
–	–	1529807	1529797	–	–	–	–

Solder connection, rear mounting		4-pos.	
Coding		A	D
Rated voltage		250 V	250 V
Nominal current		4 A	4 A

Pin assignment				
----------------	--	--	--	--

Contact carriers for reflow processes

Straight, shielded, THR in tray	1439939	1439955	1552214	1551451
Straight, shielded, THR on reel	1457500	1457623	1457513	1457636
Straight, THR in tray	1437164	1439942	–	–
Straight, THR on reel	1457490	1457610	–	–

Contact carriers for wave soldering processes

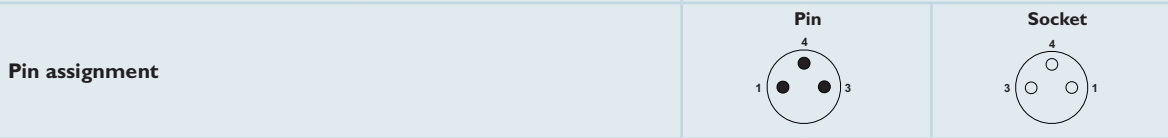
Angled, shielded	1439887	1432444	1436673	1432457
Angled	1436660	1436628	–	–
Straight, shielded	–	–	–	1551480
Straight	–	–	–	–

Connections for two-piece contact carriers

SPEEDCON screw versions with O-Ring	Socket	
	Pin	

		8-pos.		12-pos.		17-pos.	
B		A		A		A	
60 V		30 V		30 V		30 V	
4 A		2 A		1.5 A		1.5 A	
Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
52230	1551435	1557581	1551422	1442065	1442052	1442081	1442078
57542	1457665	1457568	1457681	1457584	1457704	1457607	1457720
–	–	1552269	1557808	1441985	1441970	1442007	1441998
–	–	1457555	1457678	1457571	1457694	1457597	1457717
36699	1432512	1437038	1437009	1424198	1424199	1424200	1424201
–	–	1436987	1436990	1424194	1424195	1424196	1424197
–	1551477	–	–	–	–	–	–
–	–	–	–	–	–	–	–
1552243							
1551493							

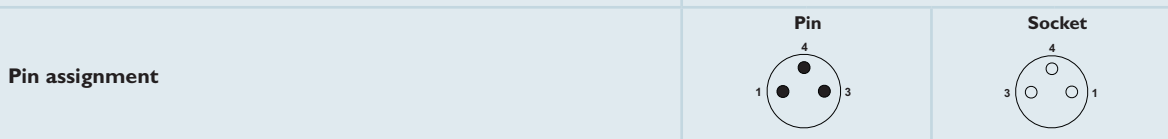
with litz wires		3-pos.	
with res	Coding	A	
	Rated voltage	60 V	
	Nominal current	4 A	
	Conductor cross section	0.25 mm ²	



M8 fastening thread	1500334	1500350
M8 flat nut		
M10 fastening thread	–	–

M8 fastening thread	1453478	–
M10 fastening thread	–	1456080
M12 fastening thread	–	1453449

older connection		3-pos.	
es	Coding	A	
	Rated voltage	60 V	
	Nominal current	4 A	



one-piece		3-pos.	
M8 fastening thread, straight	1694334	–	
M12 fastening thread, straight	–	1694363	

	6-pos.		8-pos.	
	A		A	
	60 V		30 V	
	2 A		1.5 A	
	0.14 mm ²		0.14 mm ²	
Socket	Pin	Socket	Pin	Socket
500363	1542664	1542677	-	-
1504071				
-	-	-	1424232	1424231
-	1453494	-	1424230	-
456093	-	1456103	-	-
453452	-	1453465	-	-
	6-pos.		8-pos.	
	A		A	
	60 V		30 V	
	2 A		1.5 A	
Socket	Pin	Socket	Pin	Socket
-	1436521	-	1424238	-
594376	-	1436534	-	1424237


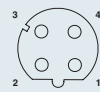


	3-pos.	4-pos.
Coding	A	A
Rated voltage	60 V	60 V
Nominal current	1 A	4 A
Conductor cross section	0.14 mm ²	0.14 mm ²
Pin assignment	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> Pin </div> <div style="text-align: center;"> Socket </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> Pin </div> <div style="text-align: center;"> Socket </div> </div>



pre-assembled with 0.5 m long litz wires

M5 fastening thread	1530582	1530605	1530595	1530618
Flat nut with M5 thread	1535901			

one-piece for wave soldering processes

M5 fastening thread	1530621	1530647	1530634	1530650
Flat nut with M5 thread	1535901			

networks		4-pos.		8-pos.	
Coding		D		A	
Rated voltage		250 V		30 V	
Nominal current		4 A		2 A	
Conductor cross section		0.14/0.34 mm ²		0.14 mm ²	
Pin assignment		Pin 	Socket 	Pin 	Socket 
with assembled cable					
M16 x 1.5, can be positioned, water blue, cable type 93E	2 m	–	1405837	–	–
with assembled cable					
M16 x 1.5, water blue, cable type 93E	2 m	–	1405866	–	–
M16 x 1.5, water blue, cable type 94B	5 m	–	–	–	1407877
M16 x 1.5, water blue, cable type 94C	2 m	–	–	–	1412820
for soldering processes					
M16 x 1.5, one-piece, contact carrier, water blue		1456514	1456527	–	–
with assembled cable					
M16 x 1.5, green, cable type 93B	0.5 m	1437805	1437766	–	–
	1 m	1437818	1437779	–	–
	2 m	1437821	1437782	–	–
	5 m	1437834	1437795	–	–
M16 x 1.5, green, cable type 93C	2 m	–	1416209	–	–
M16 x 1.5, green, cable type 93R	2 m	–	1416263	–	–
for soldering processes					

For networks	8-pos.	8-pos.
Coding	X	Y
Rated voltage	48 V	30 V
Nominal current	0.5 A	0.5 A/6 A
Conductor cross section	0.25 mm ²	0.14/0.5 mm ²
Pin assignment	Socket 	Socket 

ing, with assembled cable			
M16 x 1.5, water blue, cable type 94F	0.5 m	1424135	-
	1 m	1424148	-
	2 m	1424151	-
	5 m	1424164	-

M16 x 1.5, black, cable type 94H	0.5 m	-	1407504
	1 m	-	1407505
	2 m	-	1407506
	5 m	-	1407507

ing, for soldering processes		
M12, two-piece	1440669	-
Pg9, one-piece	1404741	-
M16 x 1.5, one-piece	1424177	-

M12 x 1, two-piece	-	1456666
M16 x 1.5, one-piece	-	1407503

o-piece contact carriers for soldering processes		
Straight, shielded	1402457	-

networks	4-pos.	8-pos.
Coding	D	A
Rated voltage	250 V	30 V
Nominal current	4 A	2 A
Conductor cross section	0.14/0.34 mm ²	0.14 mm ²
Pin assignment	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Pin</p> </div> <div style="text-align: center;"> <p>Socket</p> </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Pin</p> </div> <div style="text-align: center;"> <p>Socket</p> </div> </div>




with assembled cable					
M16 x 1.5, red, cable type 93K	0.5 m	1410158	1419154	-	-
	1 m	1419159	1419155	-	-
	2 m	1419160	1419156	-	-
	5 m	1419161	1419157	-	-

for soldering processes					
M16 x 1.5, one-piece, contact carrier, red		1457979	1457966	-	-


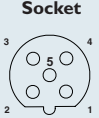
with assembled cable					
M16 x 1.5, green, cable type 93G	0.5 m	1419138	1419134	-	-
	1 m	1419139	1419135	-	-
	2 m	1419140	1419136	-	-
	5 m	1419141	1419137	-	-

for soldering processes					
M16 x 1.5, one-piece, contact carrier, green		1456556	1456569	-	-


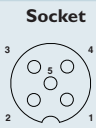




with assembled cable					
M16 x 1.5, black, cable type 970	0.5 m	-	-	1429059	1429091
	1 m				

r fieldbuses		5-pos.	
Coding		B	
Rated voltage		60 V	
Nominal current		4 A	
Conductor cross section		0,34 mm ²	
Pin assignment			
ing, with assembled cable			
 M16 x 1.5, can be positioned, violet, cable type 910	0.5 m	1525555	1525597
	1 m	1525568	1525607
	2 m	1519561	1519574
	5 m	1525571	1525610
ing, with assembled cable			
 Pg9, violet, cable type 910	0.5 m	1437481	1437449
	1 m	1437494	1437452
	2 m	1437504	1437465
	5 m	1437517	1437478
M16 x 1.5, violet, cable type 910	0.5 m	1534342	1534384
	1 m	1534355	1534397
	2 m	1534368	1534407
	5 m	1534371	1534410
ing, for soldering processes			
 M16 x 1.5, one-piece, contact carrier, violet		1456475	1456488

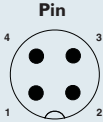
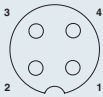
section for additional 5-pos., B-coded plug-in connectors


Weldbuses		5-pos.	
Coding		B	
Rated voltage		60 V	
Nominal current		4 A	
Conductor cross section		0.34 mm ²	
Pin assignment			
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
with assembled cable			
Pg9, green, cable type 900	0.5 m	1437643	1437601
	1 m	1434656	1437614
	2 m	1437669	1437627
	5 m	1437672	1437630
Pg9 EMC nut		1440177	
M16 x 1.5, green, cable type 900	0.5 m	1534504	1534546
	1 m	1534517	1534559
	2 m	1534520	1534562
	5 m	1534533	1534575
M16 x 1.5 EMC nut		1440164	
for soldering processes			
M16 x 1.5, one-piece, contact carrier, green		1456572	1456585
M16 x 1.5 EMC nut		1440164	

on for additional 5-pos., B-coded plug-in connectors

r fieldbuses		5-pos.	
Coding		A	
Rated voltage		60 V	
Nominal current		4 A	
Conductor cross section		0.25/0.34 mm ²	
Pin assignment			
ing, 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
ing, with assembled cable			
 Pg9, violet, cable type 920	0.5 m	1437562	1437520
	1 m	1437575	1437533
	2 m	1437588	1437546
	5 m	1437591	1437559
Pg9 EMC nut	1440177		
 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		
ing, for soldering processes			
 M16 x 1.5, one-piece, contact carrier, violet		1456491	1456501
M16 x 1.5 EMC nut	1440164		



section for additional 5-pos., A-coded plug-in connectors

Weldbuses		4-pos.	
Coding		A	
Rated voltage		250 V	
Nominal current		4 A	
Conductor cross section		0.34 mm ²	
Pin assignment			
with assembled cable			
Pg9, red, cable type 990	0.5 m	–	1559819
	1 m	–	1559822
	2 m	–	1559835
	5 m	–	1559848
M16 x 1.5, red, cable type 990	0.5 m	–	1437847
	1 m	–	1437850
	2 m	–	1437863
	5 m	–	1437876
for soldering processes			
M16 x 1.5, one-piece, contact carrier, red		1457856	1457869
pre-assembled with 0.5 m long litz wires			
Pg9, shielded		1431432	1431429
Pg9 flat nut		1504084	
for soldering processes, shielded			
M16 x 1.5, one-piece, stainless steel (1.4404)		1554746	1554733

r USB and fiber optics		USB	FO
Pin assignment			
ating, with solder connection			
M12 x 1, Mini-B USB 2.0		1440711	-
M16 x 1.5, fiber optic transceiver		-	1416716

5-pos.

Coding	B	
Rated voltage	30 V	
Nominal current	3 A	
Conductor cross section	0.25 mm ²	

Pin assignment	Pin 	Socket 
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-assembled with 0.5 m long litz wires

M10 fastening thread	1424234	1424233

wave soldering processes





M8 fastening thread, straight, shielded	1424242	–
M8 fastening thread, angled, shielded	1424240	–
M10 fastening thread, straight, shielded	–	1424241
M10 fastening thread, angled, shielded	–	1424239

up to 12 A/630 V		4 (3+PE)-pos.		4-pos.	
	Coding	S (AC)		T (DC)	
	Rated voltage	630 V		60 V	
	Nominal current	12 A		12 A	
	Conductor cross section	1.5 mm ²		1.5 mm ²	
	Pin assignment	Pin	Socket	Pin	Socket

pre-assembled with 0.5 m long litz wires					
	M16 x 1.5 fastening thread, one-piece	1424139	1424137	1424140	1424138
	M16 x 1.5 flat nut	1504097			
	25 mm square flange, modular, mounting holes 4 x Ø 2.7 mm	1424131			
	Pre-assembled contact carrier, modular	1424129	–	1424130	–

pre-assembled with 0.5 m long litz wires					
	M16 x 1.5 fastening thread, one-piece	1424132	1424133	1424136	1424134







two-piece contact carriers for reflow processes					
	Straight	1406410	1406409	1406396	1406411
	Straight, shielded	–	–	1406397	1406412
	See page 18 for housing screw connections for two-piece contact carriers				

o 12 A/630 V	4 (3+PE)-pos.		4-pos.	
Coding	S (AC)		T (DC)	
Rated voltage	630 V		60 V	
Nominal current	12 A		12 A	
Conductor cross section	1.5 mm ²		1.5 mm ²	
Pin assignment	Pin 	Socket 	Pin 	Socket 

e end, PUR					
Straight, shielded	1.5 m	1424104	1424096	1424120	1424112
	3.0 m	1424105	1424097	1424121	1424113
	5.0 m	1424245	1424098	1424122	1424114
	10.0 m	1424107	1424099	1424123	1424115
Angled, shielded	1.5 m	1424108	1424100	1424124	1424116
	3.0 m	1424109	1424101	1424125	1424117
	5.0 m	1424110	1424102	1424126	1424118
	10.0 m	1424111	1424103	1424127	1424128
Straight	1.0 m	1408835	1408843	1408812	1408823
	2.0 m	1408836	1408844	1408813	1408824
	5.0 m	1408837	1408845	1408814	1408825
	10.0 m	1408838	1408846	1408815	1408826
Angled	1.0 m	1408839	1408848	1408816	1408827
	2.0 m	1408840	1408852	1408819	1408828
	5.0 m	1408841	1408853	1408820	1408829
	10.0 m	1408842	1408854	1408822	1408830

plug-in connectors in sizes M5 to M40 for signals, data,
phoenixcontact.com

Plug-in connectors that can be assembled

	Coding	Design	4-pos.		5-pos.		8-pos.	
			Pin	Socket	Pin	Socket	Pin	Socket
SPEEDCON knurl, Pg7 screw connection								
	A - Standard	Straight	1542952	1543029	1542965	1543032		
	A - Standard	Angled	1542981	1543058	1542994	1543061		
SPEEDCON knurl, Pg9 screw connection								
	A - Standard	Straight			1542978	1543045		
	A - Standard	Angled			1543003	1543414		
metal knurl, Pg7 screw connection								
	A - Standard	Straight	1662528	1681127	1663116	1662968		
	A - Standard	Angled	1681101	1681143	1663129	1662984		
metal knurl, Pg9 screw connection								
	A - Standard	Straight			1681460	1681486	1513334	1513347
	A - Standard	Angled			1681473	1681499		
metal knurl, Pg7 SKINTOP screw connection								
	A - Standard	Straight	1556870	1430381	1456466	1559000		
metal knurl, Pg9 SKINTOP screw connection								
	A - Standard	Straight			1556825	1556838		
	A - Standard	Angled			1561742	1556812		

in connectors that can be assembled

Coding	Design	4-pos.		5-pos.	
		Pin	Socket	Pin	Socket
A - Standard	Straight	1432635	1432619	1432567	1432583
A - Standard	Angled	1432606	1432622	1432570	1432596

Welded

A - Standard	Straight	1432729	1432745	1432648	1432664
A - Standard	Angled	1432732	1432758	1432651	1432677

mm² – 0.34 mm²

A - Standard	Plastic knurl	1641714	1641701		
A - Standard	SPEEDCON knurl	1521575	1521588		
A - Standard	Metal knurl	1641691	1641688		

mm² – 0.75 mm²

A - Standard	Plastic knurl	1641769	1641756		
A - Standard	SPEEDCON knurl	1521591	1521601		
A - Standard	Metal knurl	1641785	1641772		

in connectors that can be assembled

Coding	Design	12-pos.		17-pos.	
		Pin	Socket	Pin	Socket
014	SPEEDCON				

Plug-in connectors that can be assembled

	Design	3-pos.		4-pos.	
		Pin	Socket	Pin	Socket
	Straight	1681156	1681172	1681169	1681185
	Angled	1699902	1529399	1554209	1513444
shielded					
	Straight	1506901	1506927	1506914	1506930
	Angled	1436453	1436479	1436466	1436482
	Straight	1501252	1506888	1501265	1506891
	Angled	1407583	1407582	1407585	1407584
shielded					
	Straight	1542884	1542907	1542897	1542910
08 mm² – 0.25 mm²					
	Straight	1441008	1441040	1441011	1441053
25 mm² – 0.5 mm²					

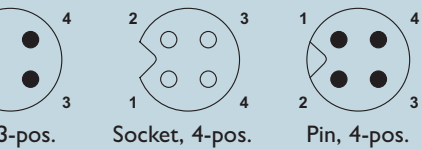
in connectors that can be assembled

Coding	Design	4-pos.		5-pos.		8-pos.	
		Pin	Socket	Pin	Socket	Pin	Socket
Shielded, for fieldbuses							
B - Inverse	Straight			1432680	1432703		
B - Inverse	Angled			1432693	1432716		
Shielded, for fieldbuses							
INTERBUS	Straight			1432800	1432826		
	Angled			1432813	1432839		
PROFIBUS	Straight			1432842	1432868		
	Angled			1432855	1432871		
DeviceNet	Straight			1432761	1432787		
	Angled			1432774	1432790		
Shielded, for networks							
Ethernet	Straight	1543223	1553611				
	Angled	1553624	1553637				
PROFINET	Straight	1554513	1554526				
	Angled	1554539	1554542				
Shielded, for 10 Gbps Ethernet							
CAT6 _A	Straight					1417430	
	Angled					1417443	

Shielded, for networks

Connectors and litz wire colors

Connector

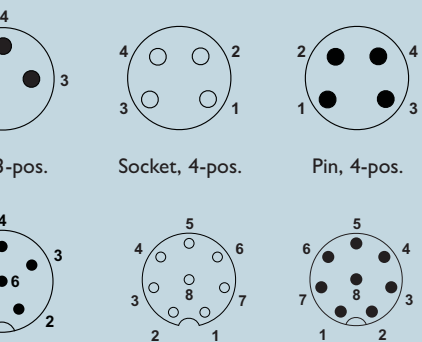


Litz wire colors

Assignment: M5 pin/sockets

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

Connector



Litz wire colors

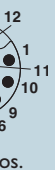
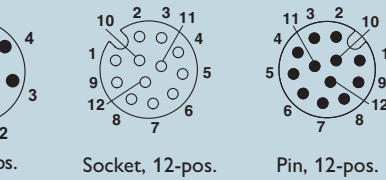
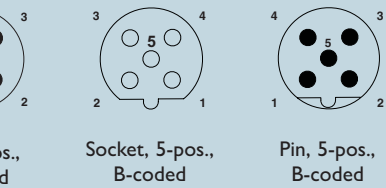
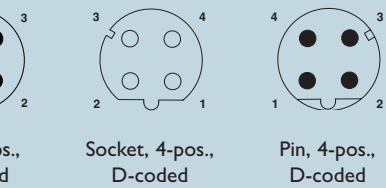
Assignment: M8 pin/sockets

Pin	Wire color			
	3-pos.		4-pos.	
1	BN		BN	
2	–		WH	
3	BU		BU	
4	BK		BK	
5	–		–	
6	–		–	

Assignment: M8 pin/sockets

Pin	Wire color			
-----	------------	--	--	--

connector



Litz wire colors

Assignment: M12 pin/sockets

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

Assignment: M12 pin/sockets

Pin	5-pos. A-coded		5-pos. B-coded	
1	BN		BN	
2	WH		WH	
3	BU		BU	
4	BK		BK	
5	GY		GY	

Assignment: M12 pin/sockets

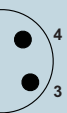
Pin	8-pos.		12-pos.	
1	WH		BN	
2	BN		BU	
3	GN		WH	
4	YE		GN	
5	GY		PK	

Assignment: M12 pin/sockets

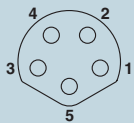
Pin	17-pos.	
1	BN	
2	BU	
3	WH	
4	GN	
5	PK	

Connectors and litz wire colors

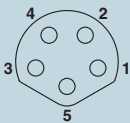
Connector



4-pin,
Ethernet



Socket, 5-pin.,
DeviceNet™,
B-coded



Pin, 5-pin.,
DeviceNet™,
B-coded

Assignment: Ethernet, 4-pin., A-coded

Pin	Wire color	Signal Ethernet
1	YE	TD+
2	OG	TD-
3	WH	RD+
4	BU	RD-

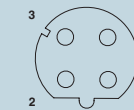
Assignment: CANopen®/DeviceNet™, 5-pin., B-coded

Pin	Wire color	Signal DeviceNet
1	Shield	Drain
2	RD	V+
3	BK	V-
4	WH	CAN_H
5	BU	CAN_L

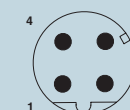
Connector



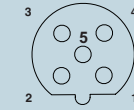
4-pin.,
D-coded



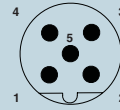
Socket, 4-pin.,
D-coded



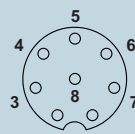
Pin, 4-pin.,
D-coded



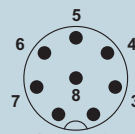
Socket, 5-pin.,
B-coded



Pin, 5-pin.,
B-coded



Socket, 8-pin.,
A-coded

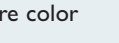
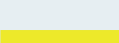




Pin, 8-pin.,
A-coded

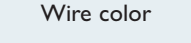





ector

Assignment: PROFINET, EtherCAT, Sercos, 4-pos., D-coded

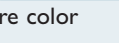







Pin	Wire color	Signal
1	YE 	TD+
2	WH 	RD+
3	OG 	TD-
4	BU 	RD-

Assignment: Ethernet, 4-pos., D-coded

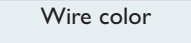






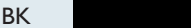
Pin	Wire color	Signal Ethernet
1	WHOG 	TD+
2	WHGN 	RD+
3	OG 	TD-
4	GN 	RD-

Shield on housing

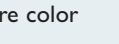



Assignment: Ethernet, 8-pos., X-coded

Pin	Wire color	Signal Ethernet
1	WHOG 	D1+
2	OG 	D1-
3	WHGN 	D2+
4	GN 	D2-
5	WHBN 	D4+
6	BN 	D4-
7	WHBU 	D3-
8	BU 	D3+

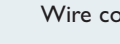
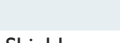

Assignment: Ethernet hybrid, 8-pos., Y-coded

Pin	Wire color	Signal Ethernet
1	WHOG 	TD+
2	OG 	TD-
3	WHGN 	RD+
4	GN 	RD-
5	BU 	
6	WH 	
7	BN 	
8	BK 	

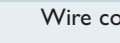

Assignment: AS-Interface, 4-pos., A-coded

Pin	Wire color	Signal
1	BU 	AS-i+
2	WH 	
3	BN 	AS-i-
4	BK 	

Assignment: CC-Link, 4-pos., A-coded

Pin	Wire color	Signal
1	Shield	SLD
2	WH 	DB
3	YE 	DG
4	BU 	DA

Assignment: Foundation Fieldbus, 4-pos., A-coded

Pin	Wire color	Signal
1	BU 	DATA-
2	OG 	DATA+
3		Shield
4		

Not just average Price – added value for you

range of standard plug-in
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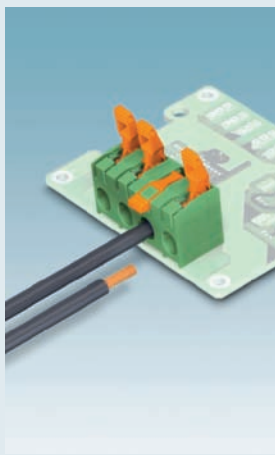
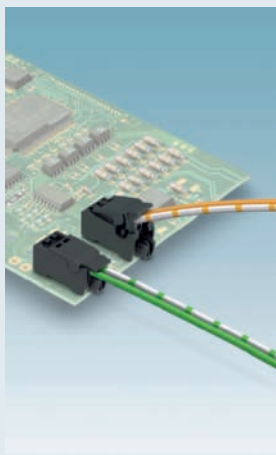
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