

# Circular connectors M5 to M12

Product overview 2018/2019



# Circular connectors for demanding applications

The PLUSCON circular M5 to M12 product range from Phoenix Contact contains standardized circular connectors. These have become the industry standard in various areas of application.

The wide selection of designs enables comprehensive connection solutions for devices with data rates up to 10 Gbps. Versions are also available for signals up to 17-pos. and for supplying power up to 630 V and 16 A.

# Signals up to 17-pos.

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

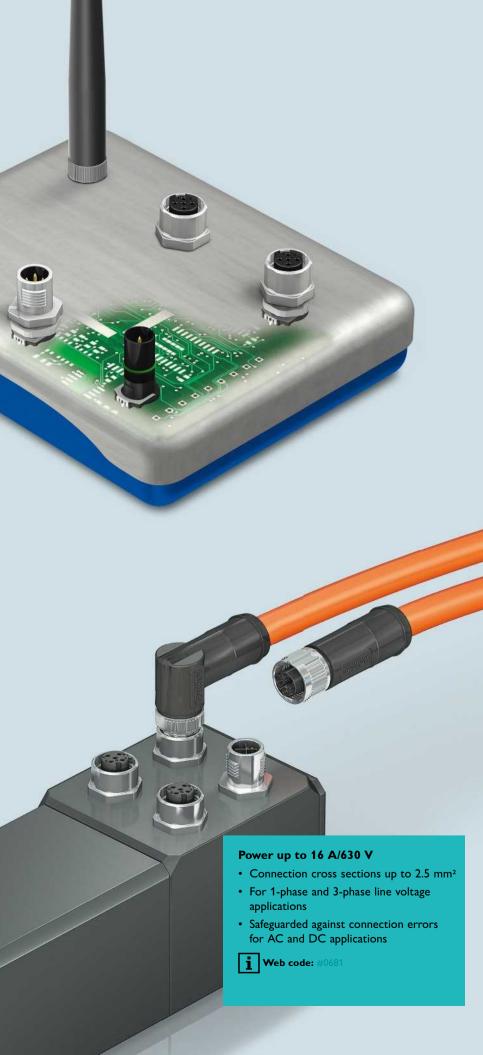
**Web code: #0680** 



# Data up to 10 Gbps

- · Codings for all commonly used fieldbus systems
- Hybrid connectors for simultaneous data and power transmission (Power over Ethernet)
- Components according to CAT6,

Web code: #0682

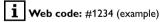


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# Find out more with the web code

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



This allows you to access information on our website quickly.

# It could not be easier:

- 1. Go to the Phoenix Contact website
- 2. Enter # and the number combination in the search field
- 3. Get more information and product versions

#1234 Search

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

# Unique variety for signals, data, and power

The pace of development of industrial electronics constantly places new demands on device connection technology.

Phoenix Contact is your innovative partner for practice-oriented integration of device connectors in almost all applications.

The modular structure of device connectors facilitates the simple and cost-effective integration of various data, signal, and power supply pin assignments into a device concept.



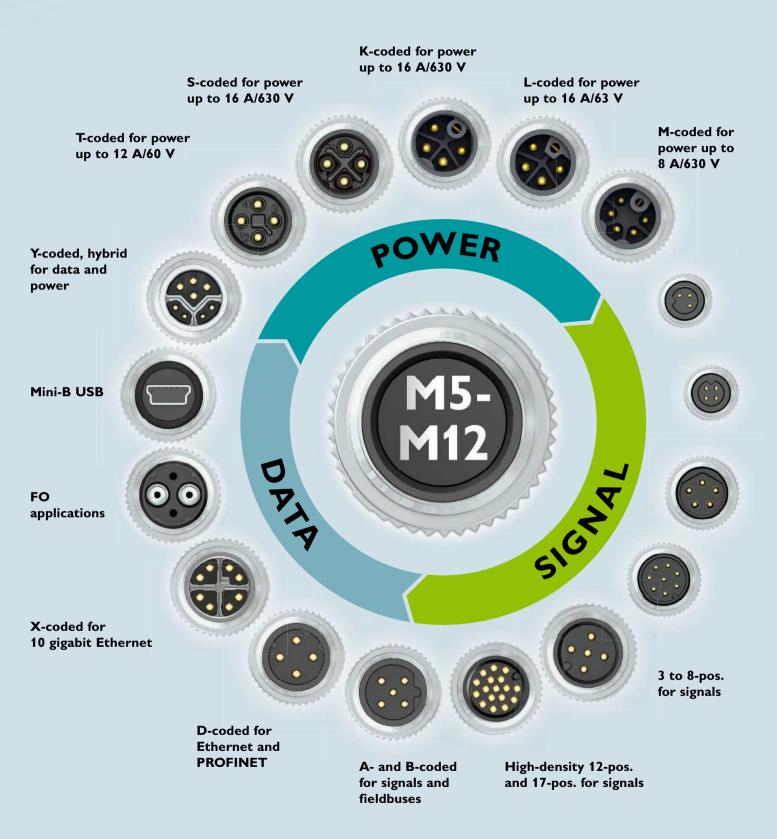
For high contact density



For fast data transmission



For high performance



# Device connectors with litz wire and cable connection

Pluggable device connectors with litz wires or round cables are available in sizes M5, M8, and M12 as an alternative to a fixed cable connection. Thanks to a wide range of housing designs, Phoenix Contact can offer an appropriate solution for every individual application.



# Variety of mounting options



Front mounting



Rear mounting



Modular mounting



- Pre-assembled with litz wires or cables
- · Optional shield connection
- Various assembly methods with metric or Pg fastening threads



# Advantages at a glance



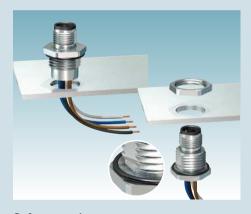
# Pre-assembled cables

- · No field assembly necessary
- · Various cable lengths and assemblies



# Easy positioning

· Defined cable outlet direction



# Safe mounting

- · XL housing versions simplify the device cut-out
- · Increased safety and tightness, thanks to tightening limitation



# Reliable seals

- · When unplugged
- Device electronics protection



# Reliable transmission

- 360° shield connection
- Fieldbus-specific cables



# Fieldbus-specific coding

· Protection against mismatching, thanks to colored and mechanical fieldbus-specific codings

# Device connectors for PCB connection

Phoenix Contact offers a wide range of one-piece and two-piece device connectors for PCB assembly in M5, M8, and M12 types. This provides you with a wide range of connection solutions for wave, THR, and SMD soldering processes.

The two-piece device connectors let you implement all numbers of positions and codings for signal, data, and power supply in identical mechanical installation conditions.



# **PCB** connection



One-piece and two-piece, for wave soldering processes



Two-piece, for SMD processes



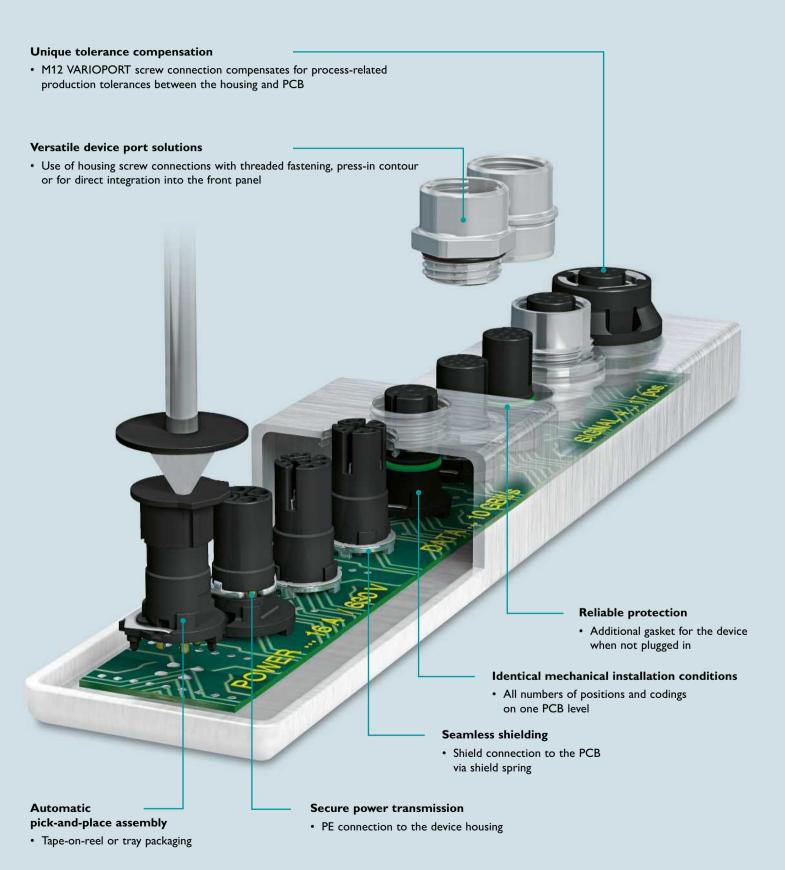
Two-piece, for THR processes



# **Main features**

- One-piece connectors for the wave soldering process with 6 mm and 12 mm contact lengths
- Available with an optional shield connection
- Two-piece device connectors for wave, THR, and SMD soldering processes in all available numbers of positions and codings
- · Easy housing integration, thanks to uniform design-in

# Advantages at a glance



# 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 product range of assembled cables for quick and convenient field cabling. Halogen-free PUR cables, which we use as standard, already meet the requirements in many fields of application.



# Wide variety of cabling



For fieldbuses and networks



For signals, 3 to 17-pos.



For power, up to 16 A/690 V



10 PHOENIX C

## **Main features**

- Short connect time, thanks to push-pull fast locking system
- The right cable and connector for every application
- Flexible cabling arrangement, thanks to connectors for assembly in socket and pin versions
- · Customer-specific assemblies and cable lengths



# Advantages at a glance



# Fast locking with a click

• Non manufacturer-specific M12 push-pull locking system for signal and data transmission (PROFINET CAT6,)



# **Push-in connection**

• Easy, secure wiring for all conductor and insulation types with and without ferrules



# **IDC** insulation displacement connection QUICKON

• Fastest connection on the market, gas-tight contact and vibration-resistant



# **Crimp connection**

- · Extremely compact
- Connection capable of automation for high production volumes



### **Screw connection**

· Well-known connection technology for all conductor and insulation types



### Pierce connection

• Reliable connection in very tight installation spaces

Design	Number of positions	3		4	5	
	Coding	Α	A	D	A	В
M12 device connecto	ors for litz wire connection					
-11 -11	Front mounting with litz wires	_	14 / 37	14	14	14
	Rear mounting with litz wires	_	16	16	16	16
	Front mounting, modular, crimp connection	-	16	16	16	16
1 5 A	Front mounting, with solder cups	-	-	_	18	_
	Rear mounting, with solder cups	_	_	-	20	_
112 device connect	ors with assembled cable					
All the	Front mounting	_	_	31	36	34
	Rear mounting	-	18 / 37	31 / 33	18 / 36	34
112 device connecto	ors for PCB connection					
	One-piece, front mounting	_	18	18	18	18
	One-piece, rear mounting	-	20 / 37	20 / 31 33	20 / 36	34
	Two-piece, for wave/THR soldering processes	-	22	22	22	22
	Two-piece, for SMD soldering processes	-	24	24	24	24
112 connectors, for	assembly/with molded cable					
	Plastic-molded cables	49	49	50	49	49
SA ST	For assembly	_	44	47	44 / 47	47
18 device connecto	rs with litz wires					
A 18	Front mounting	26	26	_	-	39
	Rear mounting	26	26	-	-	-
18 device connecto	rs for PCB connection					
a a a	One-piece, rear mounting	26	26	-	-	39
	Two-piece, for SMD soldering processes	28	28	-	-	39
18 connectors, for a	ssembly/with molded cable					
110	Plastic-molded cables	49	49	-	-	-
	For assembly	46	46	-	-	_
15 device connector	rs with litz wires					
8 8	Front mounting	30	30	_	-	_
5 device connector	rs for PCB connection					
à à	One-piece, rear mounting	30	30	_	_	

6		8		12	17	2+PE	3+PE	4	4+PE	4/4+FE	5+PE
A	A	X	Y	Α	Α	S	S	т	K	L	M
_	14	_	_	14	14	40	40	40	40	40	40
_	16	_	32	16	16	40	40	40	40	40	40
_	16	_	- -	-	-	-	40	40	-	-	-
_	18	_	_	_	_	_	_	-	_	_	_
_	20	_	_	_	_	_	_	_	_	-	_
-	-	-	-	-	-	-	-	-	-	-	-
-	18 / 31 33	32	32	18	18	-	-	-	-	-	-
_	18	_									
	20	32	32	20	20	-	-	-	_	43	-
-	20	32	32	20	22	_	42	- 42	43	43	43
	24	32	32	24	24	_	-	42	-	-	-
		32	32	21	21			12			
-	50	50	-	-	-	-	51	51	51	51	51
-	44 / 47	47	-	-	45	48	48	48	-	-	-
26	26	-	-	-	-	-	-	-	-	-	-
26	26	-	-	-	-	-	-	-	-	-	-
26	26	-	-	-	-	-	-	-	-	_	-
28	28	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
_	_	_	_	_	_	_	_	_	_	_	_
	_								_		

Signal – M12, with	litz wires, front mounting		<b>4-</b> p	os.		
Pre-assembled	Coding		A		)	
with 0.5 m long	Rated voltage		0 V	250		
litz wires	Nominal current		Α ,	4 A 0.34 mm <sup>2</sup>		
	Conductor cross section	0.34 <b>Pin</b>	mm <sup>2</sup> Socket	0.34 <b>Pin</b>	mm <sup>2</sup> Socket	
<b>i</b> Web code: #0207	Pin assignment	4 0 0 3	3 0 0 2 0 1	4	3 0 0 1	
Versions with zinc die-cas	t housing, for screw fastening					
111 111	Pg9	1693762	1693788	-	_	
	Flat nut, Pg9					
	M16 x 1.5	1523450	1523434	1551558	1535202	
	Flat nut M16 x 1.5					
New	M16 x 1.5, XL versions, wrench size 19	1411577	1411568	1411578	1411569	
	Push-pull, M16 x 1.5, XL versions	_	-	_	1027686	
	Flat nut M16 x 1.5					
The state of the s	Pg9, can be positioned	1693775	1693791	_	_	
		1073773	1073771			
	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	
Varsians with plastic and	brass housing (nickel-plated) for screw fastening					
versions with plastic and	Plastic M16 x 1.5					
	Brass (nickel-plated) M20 x 1.5	1408451	1408436	-	-	
Versions with stainless ste	eel housing (1.4404), for screw fastening					
4-	Pg9	1554555	1555448	-	-	
	Flat nut, Pg9					
	M16 x 1.5	1405233	1458855	-	-	
	Flat nut M16 x 1.5					
	Pg9, can be positioned	1554610	1554649	-	-	

	<b>5-</b> p	os.		8-p	os.	12-,	oos.	17-	oos.
	<b>.</b>		3		<b>A</b>	F	\	ı	\
60		60		30		30		30	
4		4			A	1.5		1.5	
0.34		0.34			mm <sup>2</sup>	0.14		0.14	
Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
1 5 0 3	3 0 5 0 4	4 5 0 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 0 5 0 4	6 5 4 7 8 3 3 1 2	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	11 3 2 10 5 0 9 6 7 8 12	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	13 3 2 12 17 14 15 10 11 15 7 8 16	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
447444	4474000			4542774	4542750				
1671111	1671098	1504	<del>-</del> 1084	1513774	1513758	-	_	-	-
4520055	4520020			4522402	4522477	455/2/5	455/252	4557204	455/204
1520055	1520039	<b>1520013</b>	<b>1520000</b>	1523492	1523476	1556265	1556252	1556304	1556294
1411579	1411571	1411580 1504	1411572 1097	1411581	1411573	1411582	1411574	1411583	1411576
	1027683	130							
_	102/683	1504	1097	_	_	_	_	_	
1671124	1671108	1515057	1515044	1513787	1513761				
16/1124	16/1106	1313037	-	1313767	1513/61	-	_	_	_
1520068	1520042	1520026	1519998	1523502	1523489				
1320000	1320042	1320020	-	1323302	1323407				
1441642	1441655	1441668	1441671	1441684	1441697	1441707	1441710	1441723	1441736
		-	-						
1440973	1440986	1440999	1441558	1441561	1441574	1441587	1441590	1441600	1441613
		-	-						
1436411	-	-	-	1436424	-	-	-	-	-
		_	-						
1408446	1408454	_	-	1408442	1408453	-	_	-	-
1554568	1699863	-	1452343	1554571	1554607	-	-	-	-
		1404	1984						
1458868	1458871	-	-	1405221	1458842	1405238	1405242	1405243	1405244
		1404	1983						
1554623	1554652	-	1424023	1554636	1554665	-	-	-	-
		-							
1452068	1452071	1452084	1452097	1452107	1452110	-	-	-	-
		-	-						

	np connection, front mounting		4-p	oos.		
1odular	Coding		A	Г	)	
	Rated voltage	25	0 V	25	0 V	
	Nominal current	4	Α	4	Α	
	Conductor cross section	0.34	mm <sup>2</sup>	0.34	mm <sup>2</sup>	
<b>i</b> Web code: #0208	Pin assignment	Pin 4	3	Pin 4 0 3 1 1 2 2	Socket	
	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, for assembly	1440931	_	1440944	-	
	Crimp contacts Ø 1.0 mm, 0.08 0.5 mm <sup>2</sup>	1452356	_	1452356	_	
	Crimp contacts Ø 0.8 mm, 0.08 0.34 mm <sup>2</sup>	-	-	-	-	
	Crimping tool					
	n litz wires, rear mounting		<b>4-</b> բ A	oos.		
Pre-assembled	Coding Rated voltage		<b>A</b> 0 V	<b>D</b> 250 V		
vith 0.5 m long	Nominal current		Α	4 A		
itz wires	Conductor cross section		mm <sup>2</sup>	0.34 mm <sup>2</sup>		
	Conductor cross section	Pin	Socket	Pin	Socket	
<b>1</b> Web code: #0209	Pin assignment	4	3 0 0	4	3 0 0	
	Pin assignment ast housing, for screw fastening	4	3 0 0	4	3 0 0	
	ast housing, for screw fastening	4	2001	4	2	
ersions with zinc die-ca	ast housing, for screw fastening Pg9	1556618	1556621	1551532	155152	
ersions with zinc die-ca	ast housing, for screw fastening	4	2001	1551532 1551901	2	
ersions with zinc die-ca	Pg9 M12 x 1 M16 x 1.5	1556618	1556621		2	
ersions with zinc die-ca	Pg9 M12 x 1 M16 x 1.5 M16 x 1.5, XL versions, wrench size 19	1556618 1551875	1556621	1551901	155155 - 14196 141158	
Versions with zinc die-ca	Ast housing, for screw fastening Pg9 M12 x 1 M16 x 1.5 M16 x 1.5, XL versions, wrench size 19 Push-pull, M16 x 1.5, XL versions	1556618 1551875 1419629	1556621 - 1419632	1551901 1419603	15515 - 14196 14115	
Versions with zinc die-ca	Pg9 M12 x 1 M16 x 1.5 M16 x 1.5, XL versions, wrench size 19 Push-pull, M16 x 1.5, XL versions using, for screw fastening	1556618 1551875 1419629	1556621 - 1419632	1551901 1419603	155155 - 14196 141158	
Versions with zinc die-ca	Ast housing, for screw fastening Pg9 M12 x 1 M16 x 1.5 M16 x 1.5, XL versions, wrench size 19 Push-pull, M16 x 1.5, XL versions	1556618 1551875 1419629	1556621 - 1419632	1551901 1419603	155155 - 14196 141158	
Versions with zinc die-can New  Versions with plastic hours	Pg9 M12 x 1 M16 x 1.5 M16 x 1.5, XL versions, wrench size 19 Push-pull, M16 x 1.5, XL versions using, for screw fastening Pg9	1556618 1551875 1419629	1556621 - 1419632	1551901 1419603	155155 - 14196 141158	
Versions with zinc die-can New  Versions with plastic hours	Pg9 M12 x 1 M16 x 1.5 M16 x 1.5, XL versions, wrench size 19 Push-pull, M16 x 1.5, XL versions using, for screw fastening Pg9  Atteel housing (1.4404), for screw fastening	1556618 1551875 1419629	1556621 - 1419632	1551901 1419603	155157	
Versions with zinc die-can New  Versions with plastic hours	Pg9 M12 x 1 M16 x 1.5 M16 x 1.5, XL versions, wrench size 19 Push-pull, M16 x 1.5, XL versions using, for screw fastening Pg9	1556618 1551875 1419629	1556621 - 1419632	1551901 1419603	155153 - 14196 141158	

	5-р	os.		8-p	os.	12-pos.		17- <sub>l</sub>	oos.
Į.	АВ			A	4	Α		Α	
60	V	60	٧	30	V	30	) <b>V</b>	30 V	
4	Α	4		2	Α	1.5	5 A	1.5	A
0.34	mm <sup>2</sup>	0.34	mm <sup>2</sup>	0.25	mm <sup>2</sup>	0.14	mm <sup>2</sup>	0.14	mm <sup>2</sup>
Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
1 2	3 0 4	4	3 0 5 0 4	6 7 8 1 2	3 0 6 0 7 2 1	113 2 10 5 9 6 7 8 12	10 2 3 11 1 0 0 0 4 9 0 0 5 12 0 0 6	13 3 2 12 17 17 18 19 10 11 11 15 7 8 16	12 2 3 13 10 0 0 17 11 0 0 0 5 10 0 0 0 6 14 9 0 0 15
		1419	959						
1440818	-	1440759	-	1457827	-	-	-	-	-
		-	-						
1419988	-	1440915	-	1440928	-	-	-	-	-
		-	-						
1452356	-	1452356	-	-	-	_	_	-	_
-	-	-	-	1452372	-	_	-	-	-
		1212	2510						

	5-р	os.		8-pos.		12-pos.		17-pos.	
	4	E	В		Α		<b>A</b>	-	4
60	V	60	60 V		30 V		30 V		V
4		4		2 A		1.5 A		1.5 A	
0.34		0.34			mm <sup>2</sup>	0.14		0.14	
Pin  4  5  0  1  2	3	Pin  4  5  0  1  2	3 5 0 4 2 2 1	Pin 5 4 7 8 3 3	5 6 6 0 7 2 1	Pin  11 3 2 10  5 0 9  12 7 8 12	Socket  10 2 3 11 1 0 0 4 1 9 0 0 5 12 8 7 6	Pin  13 3 2 12  17  18  19  10  11  15  10  10  11  15  7  8  16	Socket  12 2 3 13 10 0 0 17 11 0 0 0 5 10 0 0 6 9 16 8 7
1542703	1542729	1543663	1543676	1542716	1542732	1430459	1430446	1430475	1430462
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
-	1027666	-	-	-	-	-	-	-	-
-	1436356	-	-	-	1436369	-	-	-	-
		-	-						
1554681	1554717	-	-	1554694	1554720	-	-	-	-
		-	-						

Signal – M12, with	cable, rear mounting		<b>4-</b> p	os.	
Assembled cable/ control cabinet feed-through	Coding Rated voltage Nominal current	25	<b>A</b> 0 V A	<b>D</b> 250 V 4 A	
<b>i</b> Web code: #0210	Pin assignment	Pin 4	Socket 3 4 0 0 1	Pin 4 0 3 3 0 0 2	Socket 3 4 0 0 1
Versions for screw fasteni	ng, 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-thro	ughs for screw fastening				
5 5	M16 x 1.5 Pin to socket	-	_	_	-
	M16 x 1.5 Socket to socket	-	-	-	1424326

Signal – M12, sold	er connection, front mounting		<b>4-</b> p	os.		
For soldering	Coding		A		)	
processes	Rated voltage		0 V	250 V		
	Nominal current	4	Α	4	Α	
<b>i</b> Web code: #0212	Pin assignment	Pin 4	Socket 3 4 0 0 1	Pin 4 0 3 1 2	Socket 3 0 0 4 0 0 1	
Versions for PCB mount	ing featuring torsion protection, for wave solderin	ng processes	7 7			
	20 mm square flange, direct PCB mounting	1456417	1456420	1456394	1456404	
Plastic versions, with sol	der cups, for screw fastening					
Tradect versions, with sor	M12 x 1	_	_	_	_	
	M16 x 1.5	_	_	_	_	
				_		

	5-р	os.		8-p	os.	12-	oos.	17-	oos.
,		В		A		Α		Α	
	V	60 V		30 V		30 V		30 V	
4	Α	4	A	2	Α	1.5	A	1.5	5 A
Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
4 5 0 3	3 0 5 0 4 0 0 0 1	4 5 0 3	3 0 5 0 4 2 1 1	6	5 4 5 6 0 8 0 7	111 3 2 10 5 9 9 6 7 8 12	10 2 3 11 10 0 0 4 10 0 0 5 12 0 0 6	13 3 2 12 17, 14 0 1 15 7 8 16	12 2 3 13 1 0 0 4 10 0 0 5 10 0 0 6 14 9 0 0 15
1419409	1419328	_	-	1419425	1419357	1442227	1442188	1442308	1442269
		-	-						
1419412	1419331	-	-	1419438	1419344	1442230	1442191	1442311	1442272
		-	-						
1551671	-	1551684	_	1551697	_	-	_	_	-
		-	-						
-	_	-	-	-	-	_	-	-	-
		-	-						

	5-p	os.		8-р	os.	12-	oos.	17-	pos.
	A B			Α		Α			
60		60		30 V		30 V		30 V	
4		4		2.		1.5		1.5 A	
Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
1 5 0 3	3 0 5 0 0 0 1	1 5 0 3	3 5 0	6 • • • • 4 7 • 8 • 3	4 0 0 6 3 8 0 7 2 1	11 3 2 10 5 9 9 6 7 8 12	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	13 3 2 12 17 17 14 6 0 10 15 7 8 16	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
1456433	1456446	1456459	1456462	1408574	1408573	-	-	-	-
		-	-						
1436437	-	-	-	1436440	-	-	-	-	-
		_	-						
1436398	-	-	-	1436408	-	-	-	-	-
		_	-						

Signal – M12, solde	r connection, rear moun	ting	4-pos.			
For wave	Coding			A		D
soldering processes	Rated voltage Nominal current		250 V 4 A			0 V A
<b>1</b> Web code: #0213	Pin assignment		Pin  4  9  1  2	Socket 3 4 0 0 1	Pin 4	3 4 2 1
Versions with zinc die-case	t housing, one-piece, straight, for	screw fastening				
New	Pg9	6 mm solder pins	1553459	1553462	1551516	1551503
		12 mm solder pins	_	1410777	1552308	1552272
	M12 x 1	6 mm solder pins	1551820	_	1551859	_
	M16 x 1.5	6 mm solder pins	1419742	1419755	1441749	1441752
	Push-pull, M16 x 1.5	6 mm solder pins	-	-	-	1027696
	Pg9, with shield contact	6 mm solder pins	1556841	-	1553035	1553006
	with shield contact	12 mm solder pins	1558535	1558522	1558519	1558506
	M12 x 1, with shield contact	6 mm solder pins	1552955	_	1552984	-
	M16 x 1.5, with shield contact	6 mm solder pins	1419768	1419771	1441862	1441875
Vanciana with plactic have	ing and piece studiely for source	· factoriu =				
versions with plastic nous	ing, one-piece, straight, for screw	rastening				
~	Pg9 with solder cups	Max. 0.34 mm <sup>2</sup>	_	_	_	_
	ago manusanan tapa	Max. 0.25 mm <sup>2</sup>	_	_	_	_
Versions with stainless ste	eel housing (1.4404), one-piece, st Pg9	raight, for screw fas		4.40.107.1		
	187		1404979	1404974	-	-
Versions with brass housing	ng (nickel-plated), two-piece inclu	ding housing, straig	ht*			
DV AV	Straight, shielded, for fastening in the feed-through he	ole	-	-	-	1534627
	Straight, for fastening in the feed-through he	ole	-	-	-	-

<sup>\*</sup> Cannot be combined with two-piece contact carriers for PCB mounting for THR, SMD, and wave soldering processes.

	<b>5</b> -p	os.		8-p	os.	12-pos.		17-	oos.
ı	4	E	3	,	4	Į.	١	Į.	١
	<b>V</b>	60			) V		V	30 V	
4	Α	4	A	2	Α	1.5 A		1.5 A	
Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
4 5 5 0 3 1 1 2 2	3 0 5 0 0 0 2	4 5 6 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 0 5 0 4	5 6 7 8 8 3	5 0 0 0 8 7 2	11 3 2 10 5 0 0 9 6 7 8 12	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	13 3 2 12 17, 14, 15, 14, 10, 11, 15, 7, 8, 16	12 2 3 13 10 0 0 4 11 0 0 0 0 5 11 0 0 0 0 6 14 10 0 0 0 6 9 16 8 7 15
1542745	1542761	1543647	1543650	1542758	1542774	1559932	1559929	1559961	1559958
1552311	1552285	1552324	1552298	-	1408770	-	-	-	-
1551833	-	1551846	-	1551862	-	1559945	_	1559974	-
1441765	1441778	1441781	1441794	1441804	1441817	1441820	1441833	1441846	1441859
-	1027669	-	-	-	-	-	-	-	-
1553048	1553019	1553051	1553022	1553873	1553860	1436783	1436770	1436819	1436806
1558551	1558548	1558577	1558564	-	1408771	-	-	-	-
1552968	-	1552971	-	1552997	-	1437106	-	1437119	-
		_	_						
1441888	1441891	1441901	1441914	1441927	1441930	1441943	1441956	1441969	1441972
			-						
-	1436330	-	-	-	1436343	-	-	-	-
-	1436314	-	-	-	-	-	-	-	-
-	-	-	-	-	1436327	-	-	-	-
1554746	1554733	-	-	1529807	1529797	-	-	-	-
			-						
1437193	1421685	1437203	1437180	-	-	-	-	-	-
			-						
1694211	1694237	1514883	1515934	1424017	1556854	-	_	-	-
		-	_						

	ler connection, PCB mounting		4-pos.					
or reflow and	Coding		A					
vave soldering	Rated voltage		0 V		0 V			
rocesses	Nominal current	4	Α	4	Α			
<b>i</b> Web code: #0214	Pin assignment	Pin 4 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Socket 3 4 0 0 1	Pin 4 • • • • • • • • • • • • • • • • • • •	Socke			
wo-piece, THR cont	act carriers							
AND THE RESERVE	Straight, shielded, THR, tray packaging	1439939	_	1552214	15514			
	Straight, shielded, THR, tape-on-reel	1457500*	1457623*	1457513*	14576			
	traight, smeated, 11m, tape on reel	1137300	1137023	1137313	11370			
	Straight, THR, tray packaging	1437164	1439942	-	14140			
	Straight, THR, tape-on-reel	1457490*	1457610*	_	_			
wo-piece, wave solde	ering contact carriers							
-4	Angled, shielded, wave soldering, blister pack	1439887	1432444	1436673	14324			
A AK	Angled, wave soldering, blister pack	1436660	1436628	_	_			
	Studiekt skielded wew seldening blisten neek				4554			
	Straight, shielded, wave soldering, blister pack	_	-	_	15514			
	Straight, wave soldering, blister pack		_	_	_			
	rew connections for THR and wave soldering	contact carrier	S					
New	Push-pull versions with O-ring							
	Rear mounting	_	-	-	10276			
	Front mounting	_	-	-	10276			
	The push-pull versions are also suitable for 8-pos. X-coded	(CAT6 <sub>A</sub> ), see Section	Data, page <ov< td=""><td><b>'&gt;</b></td><td></td></ov<>	<b>'&gt;</b>				
	Screw versions with O-ring, rear mounting							
	SPEEDCON versions with O-ring,							
	rear mounting							
	rear mounting  Clip-in versions, for straight, two-piece socket	For housi	ng panel thickne:	ss 1.0 1.8 mm				
	Clip-in versions, for straight, two-piece socket contact carriers, tolerance-compensating,		ng panel thickne:					
	Clip-in versions, for straight, two-piece socket contact carriers, tolerance-compensating, rear snap-in mounting (not suitable for S-coded THR contact carriers,	For housi	ng panel thickne	ss 1.7 2.5 mm				
	Clip-in versions, for straight, two-piece socket contact carriers, tolerance-compensating, rear snap-in mounting (not suitable for S-coded THR contact carriers, or SPEEDCON mating connectors)	For housi	ng panel thickne	ss 1.7 2.5 mm ss 2.4 3.2 mm				
	Clip-in versions, for straight, two-piece socket contact carriers, tolerance-compensating, rear snap-in mounting (not suitable for S-coded THR contact carriers, or SPEEDCON mating connectors)  Threaded sleeve	For housi	ng panel thickne	ss 1.7 2.5 mm ss 2.4 3.2 mm ss 3.1 3.9 mm				
	Clip-in versions, for straight, two-piece socket contact carriers, tolerance-compensating, rear snap-in mounting (not suitable for S-coded THR contact carriers, or SPEEDCON mating connectors)	For housi	ng panel thickne	ss 1.7 2.5 mm ss 2.4 3.2 mm				
	rear mounting  Clip-in versions, for straight, two-piece socket contact carriers, tolerance-compensating, rear snap-in mounting (not suitable for S-coded THR contact carriers, or SPEEDCON mating connectors) Threaded sleeve  Fixing sleeve, can be used universally with	For housi	ng panel thickne	ss 1.7 2.5 mm ss 2.4 3.2 mm ss 3.1 3.9 mm				
	Clip-in versions, for straight, two-piece socket contact carriers, tolerance-compensating, rear snap-in mounting (not suitable for S-coded THR contact carriers, or SPEEDCON mating connectors) Threaded sleeve  Fixing sleeve, can be used universally with any threaded sleeve  SPEEDCON versions with O-ring,	For housi	ng panel thickne	ss 1.7 2.5 mm ss 2.4 3.2 mm ss 3.1 3.9 mm				
	Clip-in versions, for straight, two-piece socket contact carriers, tolerance-compensating, rear snap-in mounting (not suitable for S-coded THR contact carriers, or SPEEDCON mating connectors) Threaded sleeve Fixing sleeve, can be used universally with any threaded sleeve  SPEEDCON versions with O-ring, front mounting	For housi	ng panel thickne	ss 1.7 2.5 mm ss 2.4 3.2 mm ss 3.1 3.9 mm				

 $<sup>^{1),\,2)}</sup>$  Distance from PCB upper edge to housing front panel rear edge:  $^{1)}$  6 mm  $^{2)}$  6.8 mm  $^{3),\,4),\,5)}$  Distance from PCB upper edge to housing front panel outer edge:  $^{3)}$  6 mm  $^{4)}$  7.5 mm  $^{5)}$  9 mm

	5-p	os.		8-p	os.	12-pos.		17-	pos.
	4	E			4		4		4
	) V A	60			) V A		) V 5 A	30 V 1.5 A	
7	^	7	Α		^	1	, A	1.5 A	
Pin  4  5  1  2	Socket 3	Pin  4  5  3  1  2	Socket 3	Pin  5  4  7  8  3  1  2	5 6 6 0 6 7 2 1	Pin  11 3 2 10  5 0 0 1  5 0 0 1  7 8 12	Socket  10 2 3 11 10 0 4 10 0 5 12 0 6	Pin  13 3 2 12  17  18  19  10  11  15  7  8 16	Socket  12 2 3 13 10 0 0 17 11 0 0 0 5 10 0 0 6 6 9 0 7 15
1432350	1432363	1552230	1551435	1557581	1551422	1442065*	1442052*	1442081*	1442078*
1457539*	1457652*	1457542*	1457665*	1457568*	1457681*	1457584*	1457704*	1457607*	1457720*
1552227	1551448	_	1414070	1552269	1557808	1441985*	1441970*	1442007*	1441998*
1457526*	1457649*	_	_	1457555*	1457678*	1457571*	1457694*	1457597*	1457717*
1439890	1432431	1436699	1432512	1437038	1437009	1424198	1424199	1424200	1424201
1436686	1436644	-	-	1436987	1436990	1424194	1424195	1424196	1424197
_	_	_	1551477	_	_	_	_	_	_
_	1551464	_	-	_	_	_	_	_	_
_	1027662 <sup>1)</sup>	_	_	_	_	_	_	_	_
_	10276785)	_	_	_	_	_	_	-	_
	<b>Pin:</b> 14139	997¹)/1413996²) / \$	Socket: 1414004	4 <sup>1)</sup> /1414003 <sup>2)</sup>					
		-	_						
	Pin: 141399	9¹)/1413998²) /S	ocket: 1414020	)¹)/1414005²)					
		-		, , , , , , , , , , , , , , , , , , , ,					
			4.440(205)						
			14196305)						
			14196315)						
			14196335)						
Black	Blue	Water blue	1419634 <sup>5)</sup> Red	Yellow	Green	Violet	Orange		
1419697	1417782	1417783	1417784	1417785	1417787	1417788	1417789		
	Pi	n: 1551493 <sup>4)</sup> / S	ocket: 1552243	<b>3</b> <sup>4)</sup>					
		_							
	<b>Pin:</b> 14161	45 <sup>4)</sup> /1417984 <sup>5)</sup> / <b>S</b>	ocket: 1416144	1 <sup>4)</sup> /1417989 <sup>5)</sup>					
	P	Pin: 1436709 <sup>3)</sup> / S	Socket: 143246	03)					
		_							
		Pin: 1437892 <sup>5)</sup> / \$	Socket: 1437889	95)					

<sup>\*</sup> Contact carrier with assembly pad

oignai – M12, soid	er connection, PCB mounting		4-pos.					
or reflow	Coding		A		D			
oldering processes	Rated voltage		50 V	250 V				
	Nominal current	4	4 A		A			
		Pin	Socket	Pin	Socke			
-		4 3	3 4	4 3	3			
<b>i</b> Web code: #0215	Pin assignment		$\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$		000			
		1 2	2 0 0	1 2	2			
wo-piece, SMD conta	act carriers							
• •	Straight, SMD, tray packaging	1411924*	1411907	1411925*	14119			
		1411724	1411707	1411725	14117			
	Straight, SMD, tape-on-reel	1411982*	1411974	1411983*	14119			
	Straight, shielded, SMD, tray packaging,	1411955*	1411949	1411956*	14119			
	additional gasket for the device when not plugged in							
2 352	Straight, shielded, SMD, tape-on-reel, additional gasket for the device	1412010*	1412004	1412011*	14120			
	when not plugged in							
	Studiekt SMD turn nedkaring							
	Straight, SMD, tray packaging, additional gasket for the device	1411941*	1411935	1411942*	14119			
	when not plugged in							
	Straight, SMD, tape-on-reel,	1411996*	1411990	1411997*	14119			
SID	additional gasket for the device	1411770	1411770	1411777	14117			
	when not plugged in							
wo-piece, housing sci	rew connections for SMD contact carriers							
~ ~	Screw versions,							
	rear mounting, M15 x 1 screw fastening							
	SPEEDCON screw versions, rear mounting.							
	M15 x 1 screw fastening							
	Clip-in versions,	For hous	ing panel thickne	ss 0.9 1.6 mm				
	tolerance-compensating,		ing panel thickne					
	rear snap-in mounting, threaded sleeve		01					
		For nous	ing panei thickne	ss 2.3 3.0 mm				
	Fixing sleeve, can be used universally with any threaded sleeve			Color				
	· • • · · · · · · · · · · · · · · · · ·							
	Screw versions,							
	front mounting,							
	M14 x 1 screw fastening							
	Flat nut M14 x 1							
	Press-in versions,							
	front mounting							

 $<sup>^{2)}\,</sup> Distance$  from PCB upper edge to housing front panel rear edge: 6 mm  $^{3)}\, Distance$  from PCB upper edge to housing front panel outer edge: 9 mm

	5-p	os.		8- <sub>F</sub>	os.	12-	pos.	17-	pos.
	4		3		A	1	<b>A</b>		4
60	) V	60	V	30	) V	30	V	30	) V
4	Α	4	Α	2	Α	1.5	S A	1.5	5 A
Pin 4 5 5 0 3 1 1 2 2	Socket 3	Pin 4 5 5 0 3 1 1 2 2	Socket 3 4 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Pin  5  6  8  8  3  1  2	Socket  5 0 0 8 7 2 1	Pin  11 3 2 10  4 9 9 12	Socket  10 2 3 11 1 0 0 5 12 8 7	Pin  13 3 2 17 17 18 19 10 11 15 7 8 16	Socket  12 2 3 13  10 0 4 1  11 0 0 0 0 5  11 0 0 0 0 6  10 0 0 0 6  10 0 0 0 15  10 0 0 0 15  10 0 0 15
1411926*	1411913	1411927*	1411914	1411928*	1411915	1411929*	1411916	1411930*	1411917
1411984*	1411976	1411985*	1411977	1411986*	1411978	1411987*	1411979	1411988*	1411980
1411957*	1411951	1411958*	1411952	1411959*	1411953	1411960*	1411954	1411961*	14119661)
1412012*	1412006	1412013*	1412007	1412014*	1412008	1412015*	1412009	1412016*	14120181)
1411943*	1411937	1411944*	1411938	1411945*	1411939	1411946*	1411940	1411947*	-
1411998*	1411992	1411999*	1411993	1412000*	1411994	1412001*	1411995	1412002*	-
		Pin: 1414000²) / \$	Socket: 1414021	2)					
			-						
	Р	in: 1414002²) / S	Socket: 141402	3 <sup>2)</sup>					
			_						
		Socket:	1419569³)						
		Socket:	1419570³)						
		Socket:	1419571³)						
Bla	ack	Water	blue	Gr	een	Vio	olet		
141	9568	1419	9565	141	9566	1419	9567		
		Pin: 1412078³) / \$	Socket: 1412079	(3)					
			_						
		141	2077						
			-						
	ı	Pin: 1412080 <sup>3)</sup> / \$	Socket: 1412081	3)					
			-						

<sup>\*</sup> Contact carrier with assembly pad 1) Without additional gasket for the device when not plugged in

Signal – M8, with I	itz wires	3-р	os.			
Pre-assembled	Coding	A	1			
with 0.5 m long	Rated voltage	50 V AC/				
litz wires	Nominal current	4	A			
	Conductor cross section	0.25	mm²			
<b>1</b> Web code: #0216	Pin assignment	Pin 4 0 3	Socket  4 ○ ○ ○ ○ ○ 1			
Front mounting						
	M8 x 0.5 fastening thread	1500334	1500350			
All the	M8 flat nut					
	M10 fastening thread	-	-			
Rear mounting						
-	M8 x 1 fastening thread	1453478	_			
	M10 fastening thread	-	1456080			
	M12 fastening thread	-	1453449			
Signal – M8, solder	r connection	3-р	os.			
For wave	Coding	I				
soldering processes	Rated voltage		60 V DC			
	Nominal current	4	A			
<b>i</b> Web code: #0218	Pin assignment	Pin 4 0 3	<b>Socket</b> 4  0  3			
Rear mounting, one-p	iece					
	M8 fastening thread, straight	1694334	-			
A 84						
	M12 fastening thread, straight	-	1694363			
	M8 fastening thread, straight, shielded	1455997	_			
	1456035	-				
	M10 fastening thread, straight, shielded	-	1456116			
	M10 fastening thread, angled, shielded	-	1456145			
Rear mounting, two-p	iece					
	M8 fastening thread, straight	-	1524776			
5						
	M8 fastening thread, angled	1440070	1524788			

4-	·pos.	6-p	oos.	8-p	os.	
	A		A		Δ	
50 V A	.C/60 V DC		/30 V DC	30 V AC/30 V DC 1.5 A		
0.0	4 A		. A		5 A mm²	
Pin	25 mm² Socket	0.14 <b>Pin</b>	mm² Socket	0.14 Pin	Socket	
FIII	JUCKET	4	30cket	5	5 0	
1 3	3 0 0 1	5 6 3	3 0 0 0 0 0 0 1	7 8 3 3	3 0 0 6 0 7	
1500347	1500363	1542664	1542677	_	-	
	15040	71				
-	-	-	-	1424232	1424231	
	-					
1453481	-	1453494	-	1424230	-	
	-					
-	1456093	-	1456103	-	-	
_	1453452	_	1453465	-	_	
4-pos.			oos.		oos.	
	Α		Α	A 30 V AC/30 V DC		
50 V A	.C/60 V DC		7/30 V DC	30 V AC/30 V DC 1.5 A		
	4 A	2 A		1	D A	
Pin	Socket	Pin	Socket	Pin	Socket	
2 4	3 0 0	5 6 3	3 0 0 0 0 0 0 5 2 0 0	6 5 4 7 8 3 3 1 2 2	3 3 3 3 3 3 7 2 1	
1694347	-	1436521	-	1424238	-	
-	1694376	-	1436534	-	1424237	
1456019	_	1456022	-	1424236	_	
1456048	-	1424244	_	-	_	
-	1456129	-	1456132	_	1424235	
-	1456158	-	1424243	-	-	
_	1524789	-	-	-	_	
	_					
1440096	1526169				_	

Signal – M8, solde	r connection, PCB mounting	3-г	oos.
For reflow soldering processes	Coding Rated voltage Nominal current	50 V AC	<b>A</b> /60 V DC A
<b>i</b> Web code: #0219	Pin assignment	Pin  4  0 3	<b>Socket</b> 3  0 1
Two-piece, SMD conta	act carriers		
<b>3 3</b>	Straight, SMD, tray packaging	1412225*	1412220
	Straight, SMD, tape-on-reel	1412248*	1412243
	Straight, shielded, SMD, tray packaging, additional gasket for the device when not plugged in	1412240*	1412235
	Straight, shielded, SMD, tape-on-reel, additional gasket for the device when not plugged in	1412263*	1412257
<b>30 30</b>	Straight, SMD, tray packaging, additional gasket for the device when not plugged in	1412233*	1412227
	Straight, SMD, tape-on-reel, additional gasket for the device when not plugged in	1412255*	1412250
Two-piece, housing sc	rew connections for SMD contact carriers		
	Screw versions, rear mounting, M12 x 1 screw fastening		
	Screw versions, front mounting, M10 x 0.75 screw fastening		
	Flat nut M10 x 0.75		
	Press-in versions for front mounting		

<sup>&</sup>lt;sup>1)</sup> Distance from PCB upper edge to housing front panel rear edge: 6 mm <sup>2)</sup> Distance from PCB upper edge to housing front panel outer edge: 9 mm

4-pos.		6-pe	os.	8-pos.		
	<b>A</b> C/60 V DC	<b>A</b> 30 V AC/3		20 V AC/		
	1 A	2 A		30 V AC/30 V DC 1.5 A		
Di	C. dest	D:	Carlost	Di	Co alone	
Pin  2  4  1  3	Socket  4	Pin  5  6  0  1  0  2	3 0 0 5 0 6 2 0 1	Pin  5  4  7  8  3  1	Socket  5 0 0 0 8 0 7 2 1	
1412226*	1412221	-	1412223	-	1412224	
1412249*	1412244	-	1412246	-	1412247	
1412241*	1412236	-	1412238	-	1412239	
1412264*	1412258	-	1412261	-	1412262	
1412234*	1412228	-	1412230	-	1412232	
1412256*	1412251	-	1412253	-	1412254	
	<b>Pin:</b> 1412505 <sup>1)</sup> / <b>Sc</b>	ocket: 1412506¹)				
	Pin: 1412502 <sup>2)</sup> / Sc	ocket: 1412504 <sup>2)</sup>				
	- 4 4407	****				
	14125	008				
	Pin: 1412500 <sup>2)</sup> / Sc	ocket: 1412501 <sup>2)</sup>				
	-					

\* Contact carrier with assembly pad
Two-piece SMD contact carrier 5-pos. D-coded, see Section Data – M8 for fieldbuses, page 39.

Signal – M5		3-p	os.	4-pos.			
	Coding		Δ.		Α		
	Rated voltage	60	) V	60	A 60 V 1 A 0.14 mm²  Pin Socket 1		
	Nominal current		Α				
	Conductor cross section		mm²		4 mm²		
<b>i</b> Web code: #0220	Pin assignment	Pin  1	Socket  3 0 4	Pin 1 4 2 3	2 3		
Front mounting, pre-assembled with 0.5 m long litz wires							
	M5 fastening thread	1530582	1530605	1530595	1530618		
				-			
	Flat nut with M5 thread		1535901				
		-					
Rear mounting, one-p	iece for wave soldering processes						
	M5 fastening thread	1530621	1530647	1530634	1530650		
<b>a</b>				-			
	Flat nut with M5 thread		153.	5901			
				_			

Data - M12 for ne	tworks		4- <sub>F</sub>	oos.	8-p	os.
	Coding			D		4
	Rated voltage		25	0 V	30	) V
	Nominal current		4	A	2	Α
	Conductor cross section			34 mm²		mm²
<b>1</b> Web code: #0222	Pin assignment		Pin  4  • • • • • • • • • • • • • • • • •	Socket 3 0 0 4 0 0 1	Pin  5 6 8 9 3	5 6 6 0 7 2 1
Front/screw mounting, v	vith assembled cable					
Ethernet	M16 x 1.5, can be positioned, water blue, cable type 93E	2 m	-	1405837	-	-
	, <b>,</b>			-	_	
Rear/screw mounting, w						
Ethernet	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
Rear/screw mounting, fo	r wave soldering processes					
Ethernet	M16 x 1.5, one-piece, contact carrier, water blue		1456514	1456527	-	-
					-	
Rear/screw mounting, w	ith assembled cable					
PROFO Internal	Pg9, green, cable type 93B	0.5 m	1437805	1437766	-	_
		1 m	1437818	1437779	-	-
		2 m	1437821	1437782	-	-
		5 m	1437834	1437795	-	-
	M16 x 1.5, green, cable type 93C	2 m	-	1416209	-	-
	M16 x 1.5, green, cable type 93R	2 m	-	1416263	-	-
Rear/screw mounting, fo	r wave soldering processes					
PROFII INETI	M16 x 1.5, one-piece, contact carrier, green		1456556	1456569	-	-
	, 0				-	

For additional 4-pos. D-coded connectors and 8-pos. A-coded connectors, see Section Signal – M12, from page 14.

Data - M12	for net	works		8-pos.	8-pos.
		Coding		X (CAT6 <sub>A</sub> )	Y (hybrid)
		Rated voltage Nominal current		50 V AC/60 V DC	60 V
				0.5 A	0.5 A/6 A
		Conductor cross section		0.25 mm <sup>2</sup>	0.14/0.5 mm <sup>2</sup>
<b>i</b> Web code: #0	0224	Pin assignment		Socket  3	Socket
Rear/screw mou	nting, with	assembled cable			
Ethernet		M16 x 1.5,	0.5 m	1424135	-
To Oleman	1	water blue, cable type 94F	1 m	1424148	-
	*		2 m	1424151	-
			5 m	1424164	-
Hybrid	10	M16 x 1.5,	0.5 m	_	1407504
	0		1 m	_	1407505
			2 m	-	1407506
			5 m	-	1407507
Rear/screw mou	nting, pre-	assembled with 0.5 m long litz wires			
Hybrid		M16 x 1.5		_	1407618
Rear/screw mou	nting, for	wave soldering processes			
Ethernet	Hybrid			1424177	1407503
		Pg9, one-piece, wave soldering		4404744	-
		1 g7, one-piece, wave soldering		1404741	<del>-</del> -
Two-piece, conta	act carrier	s for wave and reflow soldering proc	esses		
Ethernet		Straight, shielded, <b>THR</b> , <b>blister pack</b>		1402457	-
10 Gillaria		Straight, shielded, <b>THR, tape-on-reel</b>		1413446*	-
		Straight, shielded, <b>SMD</b> , <b>tray packaging</b>		1411964*	-
	Angled, shielded, wave soldering		1424180	-	
_				-	-
Hybrid		Straight, shielded, THR, blister pack		-	1405225
	4	Straight, shielded, THR, tape-on-reel		-	1413445*
		Straight, shielded, SMD, tray packaging		-	1411965*
		Angled, shielded, wave soldering		-	1424193
				-	-

Housing screw connections for THR and wave soldering contact carriers, see page 22.

Housing screw connections for SMD contact carriers, see page 24.

<sup>\*</sup> Contact carrier with assembly pad

Data - M12 for not	works		<i>4</i> _n	05	₽_n	0.5
Data – M12 for networks			4-pos.		8-pos.	
	Coding Rated voltage		<b>D</b> 250 V		<b>A</b> 30 V	
	Nominal current		4 A		2 A	
	Conductor cross section		0.14/0.34 mm <sup>2</sup>		0.14 mm <sup>2</sup>	
<b>1</b> Web code: #0226	Pin assignment		Pin 4	Socket 3 0 0 4 0 0 1	Pin  5  6  8  3  1  2	5 0 6 0 0 7 2 1
Rear/screw mounting, wit	h assembled cable					
Sercos the automation bus	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/screw mounting, for	wave soldering processes					
Sercos the automation bus	M16 x 1.5, one-piece, contact carrier, red		1457979	1457966	-	-
Rear/screw mounting, wit	h assembled cable					
Ether CAT. Technology Group	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	-	-
Rear/screw mounting, for	wave soldering processes					
Ether CAT. Technology Group	M16 x 1.5, one-piece, contact carrier, green		1456556	1456569	-	-
					-	
Rear/screw mounting, wit	h assembled cable					
VARAN	M16 x 1.5, black, cable type 970	0.5 m	-	-	1429059	1429091
		1 m	-	-	1429062	1429101
		2 m	-	-	1429075	1429114
THE RESERVE OF THE PARTY OF THE						

For additional 4-pos. D-coded connectors and 8-pos. A-coded connectors, see Section Signal – M12, from page 14.

5 m

1429088

1429127

Data – M12 for fieldbuses			5-pos.		
	Coding Rated voltage Nominal current		<b>B</b> 60 V 4 A		
	Conductor cross section		0.34 mm <sup>2</sup>		
<b>i</b> Web code: #0229	Pin assignment		Pin  4	Socket  3	
Front/screw mounting, with	th assembled cable				
90000°	M16 x 1.5, can be positioned, violet, cable type 910	0.5 m	1525555	1525597	
		1 m	1525568	1525607	
		2 m	1519561	1519574	
		5 m	1525571	1525610	
Rear/screw mounting, with	h assembled cable				
PAOS D	Pg9, violet, cable type 910	0.5 m	1437481	1437449	
		1 m	1437494	1437452	
that the		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	
Rear/screw mounting, for	wave soldering processes				
90000	M16 x 1.5, one-piece, contact carrier, violet		1456475	1456488	

For additional 5-pos. B-coded connectors, see Section Signal – M12, from page 14.

Data - M12 for field	dbuses		5-p	os.		
	Coding		В			
	Rated voltage Nominal current Conductor cross section		60 V 4 A 0.34 mm <sup>2</sup>			
<b>1</b> Web code: #0230	Pin assignment		Pin  4  5  3  1  2	Socket 3 0 5 0 4 0 0 0 1		
Front/screw mounting, wi	th 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/screw mounting, wit	h assembled cable					
INTERBUS	Pg9, green, cable type 900	0.5 m	1437643	1437601		
		1 m	1437656	1437614		
		2 m	1437669	1437627		
the state of		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		1440	164		
Rear/screw mounting, for	wave soldering processes					
	M16 x 1.5, one-piece, contact carrier, green		1456572	1456585		
			-			
	M16 x 1.5 EMC nut		1440164			
			_			

For additional 5-pos. B-coded connectors, see Section Signal – M12, from page 14.

Data – M	12 for fiel	dbuses		5-р	os.	
		Coding				
		Rated voltage Nominal current		60 V 4 A		
		Conductor cross section		0.25/0.34 mm <sup>2</sup>		
Web code: #0231 Pin assignment			Pin <sup>3</sup>	Socket 3 4		
			1 2			
Front/screw	mounting, wi	th assembled cable				
CANOPER DeviceNet	M16 x 1.5, violet, cable type 920	0.5 m	1525623	1525678		
			1 m	1525636	1525681	
			2 m	1525649	1525694	
Rear/screw i	mounting, wit	h assembled cable				
anopea	DeviceNet DeviceNet	Pg9, violet, cable type 920	0.5 m	1437562	1437520	
		Cable type 720	1 m	1437575	1437533	
			2 m	1437588	1437546	
1	- Con	Pg9 EMC nut	5 m	1437371		
			1710177			
	M16 x 1.5, violet, cable type 920	0.5 m	1534423	1534465		
		2 m	1534436	1534478		
			5 m	1534452	1534494	
		M16 x 1.5 EMC nut	1440164		164	
Rear/screw i	mounting, for	wave soldering processes				
ANopen	M16 x 1.5, one-piece, contact carrier, violet			1456491	1456501	
				<del>-</del>		
		M16 x 1.5 EMC nut		1440164		
			-			
		Pg9, one-piece, stainless steel (1.4404)		1554746	1554733	
			-			
		M16 x 1.5, one-piece, contact carrier, blue		1457953	1457940	

For additional 5-pos. A-coded connectors, see Section Signal - M12, from page 14.

Data - M12 for fie	eldbuses		4-բ	os.
	Coding Rated voltage Nominal current Conductor cross section		25 4	<b>A</b> 0 V A
<b>i</b> Web code: #0232	Pin assignment		Pin 4 0.34	Socket 3 4 0 0 4
Rear/screw mounting, w	rith assembled cable		2	2 ~~ 1
CC-Link	M16 x 1.5, red, cable type 990	0.5 m	-	1559819 1559822
		2 m	-	1559835
	Pg9, red,	5 m	-	1559848 1437847
	cable type 990	1 m	-	1437850
		2 m	-	1437863 1437876
Rear/screw mounting, fo	or wave soldering processes	<b>5</b>		1437070
C-Link	M16 x 1.5, one-piece, contact carrier, red		1457856	1457869
Front/screw mounting, p	ore-assembled with 0.5 m long litz	wires		
OUNDATION	Pg9, shielded		1431432	1431429
FOURACION STATE OF THE STATE OF	Flat nut, Pg9		150	4084
Rear/screw mounting, fo	or wave soldering processes, shield	ed		
M16 x 1.5, one-piece, contact carrier, yellow			1457872	1457885

For additional 4-pos. A-coded connectors, see Section Signal - M12, from page 14.

Data - M12 for US	В	USB						
<b>i</b> Web code: #0235	Pin assignment	5 4 3 2 1 (POCOC)						
Rear/screw mounting, f	Rear/screw mounting, for wave soldering processes							
	M12 x 1, Mini-B USB 2.0	1440711	-					
	Pilli-B USB 2.0	-	_					

Data - M12 for FO			FO					
<b>i</b> Web code: #0236								
Rear/screw mounting, f	Rear/screw mounting, for wave soldering processes							
	M16 x 1.5, fiber optic transceiver	-	1416716					
		-						

Data - M8 for field	buses		5-pos.					
	Coding		В					
	Rated voltage		30 V AC/30 V DC					
	Nominal current		3 A	4				
	Conductor cross section		0.25 r	nm²				
<b>1</b> Web code: #0237	Pin assignment		Pin  2  4  1  5	Socket  4				
Front mounting, pre-assembled with 0.5 m long litz wires								
DeviceNet	M10 fastening thread		1424234	1424233				
			-					
Rear mounting, for wav	e soldering processes							
DeviceNet->	M8 fastening thread, straight, shielded		1424242	-				
	M8 fastening thread, angled, shielded		1424240	-				
	M10 fastening thread, straight, shielded		-	1424241				
	M10 fastening thread, angled, shielded		-	1424239				
Two-piece, SMD contact	t carriers for reflow soldering pro	cesses						
DeviceNet*	Straight, SMD, tray packaging		-	1412222				
	Straight, SMD, tape-on-reel		-	1412245				
	Straight, SMD, tray packaging, additional gasket for the device		-	1412229				
	when not plugged in	Shielded	-	1412237				
	Straight, SMD, tape-on-reel, additional gasket for the device		-	1412252				
	when not plugged in	Shielded	-	1412259				

Housing screw connections for SMD contact carriers, see page 28.

Power – M12 up to	16 A/630 V		3 (2+P	E)-pos.	4 (3+P	E)-pos.
	Coding		S (A	AC)	S (/	AC)
	Rated voltage		630	) V	630	) V
	Nominal current		16	Α	12 A	
	Conductor cross section		1.5 ו	mm <sup>2</sup>	1.5 mm <sup>2</sup>	
<b>i</b> Web code: #0238	Pin assignment		Pin	Socket	Pin O	Socket
Front mounting, pre-asse	mbled with 0.2/0.5 m long litz wires					
	M16 x 1.5 fastening thread, one-piece		1411655 <sup>1)</sup>	14116541)	14241391)	14241371)
	Flat nut M16 x 1.5				1504	4097
New	M16 x 1.5 fastening thread,	1.5 mm² wires	-	-	14116071)	14116051)
	XL versions, wrench size 19	2.5 mm² wires	-	-	-	-
	PROFINET-specified, PROFINET-specified,					
	Flat nut M16 x 1.5		-	-		
	25 mm square flange, modular, mounting holes 4 x Ø 2.7 mm		-	-	1424	4131
	Pre-assembled contact carrier, modular		-	-	14241291)	-
Rear mounting, pre-assen	mbled with 0.2/0.5 m long litz wires					
	M16 x 1.5 fastening thread, one-piece		1411653 <sup>1)</sup>	1411652 <sup>1)</sup>	1424132 <sup>1)</sup>	1424133 <sup>1)</sup>
New	M16 x 1.5 fastening thread,	1.5 mm <sup>2</sup> wires	-	-	1411603 <sup>1)</sup>	1411598 <sup>1)</sup>
~111 -111	XL versions, wrench size 19	2.5 mm <sup>2</sup> wires	-	-	-	-
	PROFINET-specified,					
	PROFINET-specified,	2.5 mm <sup>2</sup> litz wires				

L-coding, 4+FE-pos.: FE not connected to accessible metal parts, no protective function <sup>1)</sup> With 0.5 m long litz wires <sup>2)</sup> With 0.2 m long litz wires \* Deviation from the standard color of black: gray contact carrier

4-pos. T (DC) L (DC) L (DC) 63 V 63 V 63 V 63 V 12 A1 6 A 12 A16 A 13 mm² 1.5 mm² 1.5 mm² 1.5 mm² 1.5 mm² 1.5 mm² 1.4 mm² 2.5 mm² 1.5 mm² 2.5										
60 V 63 V 12 Arl6 A 12 Arl6 A 12 Arl6 A 12 Arl6 A 1.5 mm² 2.5 mm² 1.5	<b>4-</b> p	os.	<b>4-</b> p	os.	5 (4+F	E)-pos.	5 (4+P	E)-pos.	6 (5+P	E)-pos.
12 A 12 A/16 A 12 A/16 A 12 A/16 A 13 A/16 A 1.5 mm² 1									M (	AC)
1.5 mm²										
Pin         Socket         Pin         Socket         Pin         Socket         Pin         Socket           1424140¹¹¹         1424138¹³¹         -										
1424140" 1424138" 1425635" 1425636" 1415300" 1415301" 14254134"										
1411608° 1411606° 1425635° 1425636° 1415300° 1415301° 1415295° 1415296° 1415291° 1415292° 1415295° 1415292° 1425638° 1425586° 1425587° 1425582° 1425582° 1425583° 1425583° 1425583° 1425582° 1425582° 1425582° 1425582° 1425582° 1425583° 1425582° 1425622° 142562° 142562° 142562° 142562° 142562° 142562° 142562° 142562° 142562° 142562° 142562° 142562° 142562° 142562° 142562° 142562° 1425			<b>1 1 1 1 1 1 1 1 1 1</b>					010		50 C C C C C C C C C C C C C C C C C C C
	1424140 <sup>1)</sup>	14241381)	-	-	-	-	-	-	-	-
1415295 <sup>3</sup> 1415296 <sup>3</sup> 1415296 <sup>3</sup> 1415291 <sup>3</sup> 1415292 <sup>3</sup> 1425631 <sup>3</sup> 1425632 <sup>3</sup> 1425587 <sup>3</sup> 1425582 <sup>3</sup> 1425582 <sup>3</sup> 1  1504097			-	-	-	-			-	-
1425632 <sup>3)</sup> 1425632 <sup>3)</sup> 1425627 <sup>3)</sup> 1425582 <sup>3)</sup> 1425582 <sup>3)</sup> 1425582 <sup>3)</sup> 1425582 <sup>3)</sup> 1425582 <sup>3)</sup> 142582 <sup>3)</sup> 142582 <sup>3)</sup> 142582 <sup>3)</sup> 142582 <sup>3)</sup> 142582 <sup>3)</sup> 1424131	14116081)	14116061)	-	-	-	-	14256352)	14256362)	1415300 <sup>2)</sup>	1415301 <sup>2)</sup>
1425631 <sup>2)</sup> 1425632 <sup>2)</sup> 1425582 <sup>2)</sup> 142582 <sup>2)</sup> 142582 <sup>2)</sup> 142582 <sup>2)</sup> 142582 <sup>2)</sup> 1424131	_	_	_	_	1415295 <sup>2)</sup>	1415296 <sup>2)</sup>	1415291 <sup>2)</sup>	1415292 <sup>2)</sup>	_	_
1425586 <sup>2)</sup> 1425587 <sup>2)</sup> 1425582 <sup>2)</sup> * 1425583 <sup>2)</sup> *  1504097										
1504097			1425631 <sup>2)</sup>	14256322)	14256272)*	14256282)*				
1424131			14255862)	14255872)	14255822)*	14255832)*				
				150-	4097					
			-	-						
1424136 <sup>1)</sup> 1424134 <sup>1)</sup> 1425637 <sup>2)</sup> 1425638 <sup>2)</sup> 1415302 <sup>2)</sup> 1415299 <sup>2)</sup> 1415293 <sup>2)</sup> 1415294 <sup>2)</sup> 1425633 <sup>2)</sup>	1424	4131	-	-	-	-			-	-
1424136 <sup>1)</sup> 1424134 <sup>1)</sup> 1425637 <sup>2)</sup> 1425638 <sup>2)</sup> 1415302 <sup>2)</sup> 1415299 <sup>2)</sup> 1415293 <sup>2)</sup> 1415294 <sup>2)</sup> 1425633 <sup>2)</sup>			-	-						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	14241301)	-	-	-	-	-			-	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				_						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$										
1415297 <sup>2)</sup> 1415299 <sup>2)</sup> 1415293 <sup>2)</sup> 1415294 <sup>2)</sup> 1425633 <sup>2)</sup> 1425634 <sup>2)</sup> 1425629 <sup>2)</sup> * 1425630 <sup>2)</sup> *	1424136 <sup>1)</sup>	14241341)	-	-	-	-			-	-
1415297 <sup>2)</sup> 1415299 <sup>2)</sup> 1415293 <sup>2)</sup> 1415294 <sup>2)</sup> 1425633 <sup>2)</sup> 1425634 <sup>2)</sup> 1425629 <sup>2)</sup> * 1425630 <sup>2)</sup> *			-	-						
1415297 <sup>2)</sup> 1415299 <sup>2)</sup> 1415293 <sup>2)</sup> 1415294 <sup>2)</sup> 1425633 <sup>2)</sup> 1425634 <sup>2)</sup> 1425629 <sup>2)</sup> * 1425630 <sup>2)</sup> *										
1425633 <sup>2)</sup> 1425634 <sup>2)</sup> 1425629 <sup>2)</sup> * 1425630 <sup>2)</sup> *	14116041)	14115991)	-	-	-	-	14256372)	14256382)	14153022)	1415303 <sup>2)</sup>
	-	-	-	-	14152972)	14152992)	14152932)	14152942)	-	-
1425588 <sup>2)</sup> 1425589 <sup>2)</sup> 1425584 <sup>2)</sup> * 1425585 <sup>2)</sup> *			1425633 <sup>2)</sup>	14256342)	14256292)*	14256302)*				
			14255882)	14255892)	14255842) *	14255852)*				

Power - M12 up to	16 A/630 V	4 (3+P	E)-pos.	<b>4-</b> p	os.
For reflow	Coding	S (/	AC)	T (DC)	
soldering processes	Rated voltage		0 V	60 V	
3.	Nominal current	12	. A	12	Α
<b>i</b> Web code: #0240	Pin assignment	Pin O D D D D D D D D D D D D D D D D D D	Socket	Pin	Socket 40 1
Two-piece, THR contac	t carriers				
	Straight, THR, blister pack	1406410	1406409	1406396	1406411
	Straight, THR, tape-on-reel	1418343	1418344	1418339*	1418340*
	Straight, shielded, THR, blister pack	-	_	1406397	1406412
	Straight, shielded, THR, tape-on-reel	-	-	1418341*	1418342*
Two-piece, SMD contact	ct carriers				
-	Straight, SMD, tray packaging	-	_	1411931*	1411918
	Straight, SMD, tape-on-reel	-	-	1411989*	1411981
	Straight, shielded, SMD, tray packaging	-	_	-	1411967
	Straight, shielded, SMD, tape-on-reel	-	-	-	1412019
	Straight, SMD, tray packaging, additional gasket for the device	-	-	1411948*	-
	when not plugged in				
	Straight, SMD, tape-on-reel, additional gasket for the device when not plugged in	_	-	1412003*	-
	Straight, shielded, SMD, tray packaging, additional gasket for the device when not plugged in	-	-	1411962*	-
	Straight, shielded, SMD, tape-on-reel, additional gasket for the device when not plugged in	-	-	1412017*	-

Housing screw connections for S- and T-coded THR contact carriers, see page 22. Housing screw connections for T-coded SMD contact carriers, see page 24.

\* Contact carrier with assembly pad

Power – M12 up to	16 A/630 V	<b>4</b> -p	os.	5 (4+F	E)-pos.	5 (4+P	E)-pos.	6 (5+P	E)-pos.
For wave and reflow soldering processes	Coding Rated voltage Nominal current	63	DC)	63	OC)	63	<b>AC)</b> 0 V		<b>AC)</b> 0 V A
	Tronnia carrent	10	, , , ,	10 A		1071		2,1	
<b>i</b> Web code: #0240	Pin assignment	Pin Signature of the state of t	Socket 1 1 2 3 2 3 2 3	Pin	Socket 1	Pin	Socket (4) 10	Pin	Socket (Socket)
One-piece, wave soldering, rear/screw mounting									
New	M16 x 1.5, XL versions, wrench size 19	-	-	1415337	1415338	-	-	-	-
	PROFINET-specified	1425592	1425593	1425590 <sup>3)</sup>	1425591 <sup>3)</sup>	-	-	_	-
Two-piece, THR contac									
New	Straight, THR, tray packaging	_	-	1420817	1420818	1420819	1420821	1420822	1420823
	PROF!								
	PROFINET-specified	1425603	1425604	14255943)	14255953)	-	-	-	-
	Straight, THR, tape-on-reel*	_	-	1420828	1420829	1420830	1420831	1420832	1420833
	PROFI								
	PROFINET-specified	1425605	1425606	1425599³)	1425600³)	-	_	-	-
	Straight, shielded, THR, tray packaging*	_	-	1421314	1421315	-	-	-	-
	PROFO NETO								
	PROFINET-specified	1425639	1425640	14255973)	14255983)	-	-	-	-
	Straight, shielded, THR, tape-on-reel*	_	_	1421317	1421318	_	_	-	-
	PROF <b>O</b>								
	PROFINET-specified	1425641	1425642	1425601 <sup>3)</sup>	14256023)	-	-	-	-
Two-piece, housing scre	ew connections for K-,	<b>L-, and</b>	M-coded	THR co	ntact car	riers			
	Front mounting, screw fastening M14 x 1		Pin: 1420824 <sup>2)</sup> / Socket: 1420825 <sup>2)</sup>						
	Flat nut M14 x 1				141	2077			
	Rear mounting, screw fastening			Pin: 1	420826 <sup>1)</sup>	Socket: 142	.08271)		

K- and M-coding: PE applied to housing,
L-coding: 4+FE-pos.: FE separately applied to the PCB, not connected to accessible metal parts, no protective function.

\* Contact carrier with assembly pad

M15 x 1

<sup>1)</sup> Distance from PCB upper edge to housing front panel rear edge: 6 mm
2) Distance from PCB upper edge to housing front panel outer edge: 9 mm

<sup>&</sup>lt;sup>3)</sup> Deviation from the standard color black: gray contact carrier

# Signal - M12 connectors for assembly

<b>i</b> Web code: #0243	C - 4:	D:	4-pos.		5-p	os.	8-pos.		
_	Coding	Design	Pin	Socket	Pin	Socket	Pin	Socket	
Push-in connection New									
New	Α	Straight	1424657	1424655	1424649	1424652	-	-	
	Α	Angled	1424654	1424656	1424651	1424653	-	-	
Push-in connection, shiel	lded								
New	Α	Straight	1424666	1424668	1424658	1424660	-	-	
	^	Angled	1424667	1424669	1424659	1424661	-	-	
28/ AN 1011	В	Straight	-	-	1424662	1424664	-	-	
	_	Angled	-	-	1424663	1424665	-	-	
IDC connection, conduct	tor cross sect	ion: 0.14 mm	n² 0.34 n	nm²					
	Α	Straight	1641714	1641701	-	-	-	-	
	Α	Straight	1521575	1521588	-	_	-	-	
6) 6)	Α	Straight	1641691	1641688	_	_	_	_	
IDC connection, conductor cross section: 0.14 mm <sup>2</sup> 0.75 mm <sup>2</sup>									
New	Α	Straight	_	_	1414600	1414601	1424433	1424434	
		Ü							
IDC connection, conduct	tor cross sect	ion: 0.34 mm	1² 0.75 n	nm²					
	Α	Straight	1641769	1641756	-	-	-	-	
	Α	Straight	1521591	1521601	_	-	-	-	
	Α	Straight	1641785	1641772	_	_	-	-	
IDC connection, conduct	tor cross sect	ion: 0.14 mm	n² 0.5/0.7		ielded				
New	Α	Straight	1413993	1413994	1413991	1413992	1414610	1414611	
	A	Straight	1043110	1043111	1043112	1043113	-	-	
Crimp connection, shield	ded								
New	Α	Straight	-	-	1422850	1422852	-	-	
	Α	Angled	_	-	1422851	1422853	_	-	
	Crimp contacts	s (accessories)			1423645	1423646			
Crimp connection, shield	ded, with pus	h-pull interlo	cking						
New	Α	Straight	-	-	1021815	-	-	-	
	Α	Angled	-	-	1021816	-	-	-	
	Crimp contact	s (accessories)			1423645	-			

# Signal - M12 connectors for assembly

<b>i</b> Web code: #0242	C 1:	<b>D</b> .	4-p	os.	5- <sub>F</sub>	os.	8-pos.				
1 Web code: #0242	Coding	Design	Pin	Socket	Pin	Socket	Pin	Socket			
Screw connection, cable	outer Ø: 4 n	nm 6 mm									
	Α .	Straight	1662528	1681127	1663116	1662968	-	-			
	Α	Angled	1681101	1681143	1663129	1662984	-	-			
Screw connection, cable	Screw connection, cable outer Ø: 6 mm 8 mm										
2 4	А	Straight	1523230	1696439	1681460	1681486	1513334	1513347			
	Α	Angled	-	-	1681473	1681499	-	-			
Screw connection, cable outer Ø: 4 mm 6 mm, with SKINTOP® screw connection											
	A	Straight	1556870	1430381	1456466	1559000	-	-			
Screw connection, cable	outer Ø: 6 n	nm 8 mm,	with SKIN	TOP® scre	w connect	ion					
	Α	Straight	-	-	1556825	1556838	-	-			
	Α	Angled	-	-	1561742	1556812	-	-			
Screw connection, cable	outer Ø: 4 n	nm 6 mm,	shielded								
De tro	А	Straight	1693830	1694295	1693416	1694305	-	-			
	Α	Angled	1694279	-	1693429		-	-			
Screw connection, cable	outer Ø: 6 n	nm 8 mm,	shielded								
De Jan	Α	Straight	1501540	1515170	1694266	1694318	1511857	1511860			
	Α	Angled	-	-	1694282	1430433	-	-			

# Signal - M12 connectors for assembly, high-position

<b>i</b> Web code: #0245	Cadina	Davies	12-pos.		17-pos.				
	Coding	Design	Pin	Socket	Pin	Socket			
Piercecon® connection, conductor cross section: 0.14 mm²									
	A	Straight	1559592	1559631	1559602	1559644			
Solder connection, cond	uctor cross s	ection: 0.08 n	nm² 0.25	5 mm², shi	elded				
	Α	Straight	1404410	1404411	_	-			
	Α	Angled	1404412	1404413	-	_			

# Signal – M8 connectors for assembly

<b>i</b> Web code: #0246	Design	3- <sub>F</sub>	oos.	4-pos.					
T Web code. #0210	Design	Pin	Socket	Pin	Socket				
IDC connection, conductor cross section	: 0.08 mm² 0	.25 mm²							
	Straight	1441008	1441040	1441011	1441053				
IDC connection, conductor cross section	: 0.25 mm² 0	.5 mm²							
	Straight	1441024	1441066	1441037	1441079				
Screw connection, conductor cross section: 0.14 mm <sup>2</sup> 0.5 mm <sup>2</sup>									
	Straight	1501252	1506888	1501265	1506891				
	Angled	1407583	1407582	1407585	1407584				
Screw connection, conductor cross section	on: 0.14 mm²	0.5 mm², shi	elded						
	Straight	1542884	1542907	1542897	1542910				
Solder connection, conductor cross secti	on: 0.08 mm² .	0.25 mm²							
	Straight	1681156	1681172	1681169	1681185				
	Angled	1699902	1529399	1554209	1513444				
Solder connection, conductor cross secti	on: 0.08 mm <sup>2</sup> .	0.25 mm², sl	hielded						
	Straight	1506901	1506927	1506914	1506930				
	Angled	1436453	1436479	1436466	1436482				

# Data - M12 connectors for assembly

Push-in connection, shielded	<b>i</b> Web code: #0249	Fieldbuses/	Design	4-р	os.	5-p	oos.	8-pos.	
New   INTERBUS   Angled			Design	Pin	Socket	Pin	Socket	Pin	Socket
INTERBUS   Angled   -   -		lded							
PROFIBUS   DP   Straight   PROFIBUS   DP   Straight   PROFIBUS   DP   Straight   PROFIBUS   PROFIBUS   DP   Straight   PROFIBUS   PROFIBUS   DP   Straight   PROFIBUS   PROFIBUS   PROFIBUS   DP   DeviceNet   Two part   PROFIBUS   DP   DeviceNet   Two part   PROFIBUS   DP   DeviceNet   Two part   Two part	New	INTERBUS	Straight	-	-	1424674	1424676	-	-
DP			Angled	-	-	1424675	1424677	-	-
DeviceNet No.   Angled   -			Straight	-	-	1424678	1424680	-	-
DeviceNet™   Angled	6 X / A TO	DP	Angled	-	-	1424679	1424681	-	-
PROFINET   Straight   1424682   1424684   -		DeviceNet™	Straight	-	-	1424670	1424672	-	-
PROFINET		Devicervet	Angled	-	-	1424671	1424673	-	-
Angled   1424683   1424685   -		DDOEINIET	Straight	1424682	1424684	-	-	-	-
Ethernet		FROTINET	Angled	1424683	1424685	-	-	-	-
Ethernet	IDC connection, shielded	d							
Angled 1553624 1553637		Ethernet	Straight	1411066	1411069	-	-	1421679	1421680
CAT6_A Straight			Angled	1553624	1553637	-	-	1553653	1553666
PROFINET CAT6 Angled 1554539 1554542			Straight	-	-	-	-	1411043	1414586
PROFINET   CAT6   Straight   -		,	Straight	1411068	1411071	_	-	-	-
DC connection, shielded   New   PROFIBUS   Profibus			Angled	1554539	1554542	-	-	-	-
New			Straight	-	-	_	-	1411044	1414587
PA Straight 1413933 1413934	IDC connection, shielded								
Pin   Socket   PROFIBUS   Straight   1413931   1413932   -	New		Straight	1413933	1413934	_	_	-	-
PROFIBUS DP DeviceNet™ Straight				2-p	os.				
DP				Pin	Socket				
New			Straight	1413931	1413932	-	-	-	-
New   PROFINET   Straight   1422846   1422848   -   -   -   -   -		DeviceNet™	Straight	-	-	1422759	1422760	-	-
PROFINET Angled Angled 1422847 1422849  Crimp contacts (accessories) 1423645  PROFINET CAT6 Angled 1422844 1422845 1422845  Crimp contacts (accessories)  Crimp connection, shielded, with push-pull interlocking  New  PROFINET Angled 1021830		ded							
Angled 1422847 1422849	New	PROFINET	Straight	1422846	1422848	-	-	-	-
PROFINET CAT6 Angled 1422844 1422845		THOTTINET	Angled	1422847	1422849	-	-	-	-
CAT6		Crimp contact	cs (accessories)	1423645	1423646				
Crimp contacts (accessories)   1423643			Straight	-	-	-	-	1422844	-
New		CAT6 <sub>A</sub>	Angled	-	-	-	-	1422845	-
New         Straight         1021830         -		Crimp contact	cs (accessories)					1423643	
PROFINET		ded, with pus	sh-pull interlo	cking					
Angled 1021831	New	PROFINET	Straight	1021830	-	-	-	-	-
CATA	6 P-	HOTHE	Angled	1021831	-	-	-	-	-
CAT6 <sub>A</sub> Angled – – 1021784 –			Straight	-	-	-	-	1021783	-
		CAT6 <sub>A</sub>	Angled	-	-	-	-	1021784	-
Crimp contacts (accessories) 1423645 1423643		Crimp contact	cs (accessories)	1423645				1423643	

# Data - M12 connectors for assembly

<b>i</b> Web code: #0249	Fieldbuses/ networks	Design	4-p	4-pos.		5-pos.		8-pos.	
_		Design	Pin	Socket	Pin	Socket	Pin	Socket	
Piercecon® connection, shielded									
	Ethernet	Straight	-	-	_	-	1417430	-	
	CAT6 <sub>A</sub>	Angled	-	-	-	-	1417443	-	

# **Data - Cable connectors with IDC**

<b>i</b> Web code: #0249					
Cross section [mm²]	0.14 0.34	0.25 0.5	0.14 0.34	0.25 0.5	0.25 0.75
	Ethernet CAT6 <sub>A</sub>	PROFINET CAT6 <sub>A</sub>	Ethernet 4-pos.	PROFINET 4-pos.	PROFIBUS
	1414412	1414413	1414415	1414416	1420426

# Signal – Cable connectors with IDC

i Web o	code: #0243				
Cr	oss section [mm²]	0.14 0.34	0.34 0.75	0.5 1.5	0.14 0.75
	N° of pos.	Unshielded	Unshielded	Unshielded	Shielded
	3	-	-	1414702	-
	4	1641879	1642140	1414698	1414418
	5	_	-	1414742	1414417
	8	_	-	_	1414612

# Power - M12 connectors for assembly

<b>i</b> Web code: #0252	Cadina	Darina	2+PE-pos. (AC)		3+PE-pos. (AC)		4-pos. (DC)		
T Web Code: #0232	Coding	Design	Pin	Socket	Pin	Socket	Pin	Socket	
Screw connection, conductor cross section up to 1.5 mm <sup>2</sup>									
2	т.	Straight	-	-	_	-	1404643	1404644	
	1	Angled	-	-	_	-	1408988	1408989	
5 5	c	Straight	1419639	1419640	1404641	1404642	-	_	
	3	Angled	1419641	1419642	1408985	1408987	-	-	

Signal – Cables with M8 or M12 connectors

<b>i</b> Web	code: #0283							
	Cable length	Signal cable M8, 3-pos.	Signal cable M8, 4-pos.	Signal cable M12, 3-pos.	Signal cable M12, 4-pos.	Signal cable M12, 5-pos.	Signal cable M12, 5-pos. shielded	
Straight	plug, free	cable end						
	3 m	1681677	1681790	1668027	1668056	1669770	1682744	
	5 m	1681680	1681800	1668030	1668069	1669783	1682731	
	10 m	1693584	1694143	1682566	1682993	1683361	1500732	
Straight	socket, fre	ee 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	plug, strai	ght socket						
	0.3 m	1681907	-	-	1668357	1681583	-	
	0.6 m	1681910	-	-	1668360	1681596	_	
	1.5 m	1681923	-	-	1668373	1681606	-	
	3 m	1681936	-	-	1668386	1681619	-	
Angled :	Angled socket, 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	

Additional cables with connectors in sizes M5 to M40 for signals, data, and power can be found at phoenixcontact.com.

# **Data – Network cables with M12 connectors**

		Ethernet	Ethernet	Ethernet	PROFO NET		DeviceNet
i Web code:	<b>:</b> #0284			San			CANopea
Cable lengt		Ethernet X-coded	<b>Ethernet</b> D-coded	Ethernet Y-coded	<b>PROFINET</b> D-coded	PROFIBUS B-coded	DeviceNet™/ CANopen® A-coded
Straight plug	g, free	cable end					
1 m		1407467	1407356	1407487	1407495	-	-
2 m		1407468	1407357	1407488	1407496	1518025	1518177
5 m		1407469	1407358	1407489	1407497	1518038	1518180
10 m	n	1407470	1407359	1407490	1407498	1518041	1518193
15 m	n	-	_	-	-	-	-
Varia	able	1408648	1408713	1408642	1408640	1538050	1538115
Straight sock	ket, fre	ee cable end					
1 m		-	1407380	-	1407528	-	-
2 m		-	1407381	-	1407529	1518067	1518216
5 m		-	1407382	-	1407530	1518070	1518229
10 m	n	-	1407383	-	1407531	1518083	1518232
15 m	n	-	-	_	_	1518096	1518245
Varia	able	-	1408697	-	1408623	1538076	1538131
Straight plug	g, strai	ght socket					
0.3 n	m	-	-	-	-	1518106	1518258
0.5 n	m	-	-	-	-	1518119	1518261
0.6 n	m	-	-	-	-	-	-
1 m		-	1407400	-	1407553	1518122	1518274
2 m		-	1407401	_	1407554	1518135	1518287
5 m		-	1407402	_	1407555	1518148	1518290
10 m		-	1407403	-	1407556	1518151	1518300
15 m		-	-	_	-	1518164	1518313
Varia		-	1408692	-	1408617	1538092	1538157
Straight plug							
1 m		1407483	1407376	1407491	1407524	-	-
2 m		1407484	1407377	1407492	1407525	_	_
5 m		1407485	1407378	1407493	1407526	_	_
10 m		1407486	1407379	1407494	1407527	4.422272	_
Varia		1408644	1408706	1408641	1408634	1433252	1433294
Termination	resist	ors, M12 conne	ctor				
						PROFIBUS	DeviceNet™/ CANopen®
		ectors in sizes M5 to				1507803	1507816

Additional cables with connectors in sizes M5 to M40 for signals, data, and power can be found at phoenixcontact.com.

# Power – Cables with M12 connectors (PUR)

			New PROFIT	New PROFII	New	New				
<b>i</b> Web code: #1081	5 /s		3/							
Coding	S	Т	L	L	K	М				
Number of positions	3+PE	4	4	4+FE	4+PE	5+PE				
Cross section	1.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>				
Cable length			PROFINET- specified	PROFINET- specified						
Straight plug, free	cable end, unsh	nielded								
2 m	1408836	1408813	-	-	-	-				
3 m	_	_	1425066	1414887	1414870	1414953				
5 m	1408837	1408814	1425067	1414891	1414875	1414957				
10 m	1408838	1408815	1425028	1414895	1414879	1414961				
Straight socket, free cable end, unshielded										
2 m	1408844	1408824	-	_	_	-				
3 m	-	_	1425074	1414790	1414788	1414910				
5 m	1408845	1408825	1425075	1414806	1414804	1414918				
10 m	1408846	1408826	1425076	1414823	1414821	1414926				
Angled socket, free										
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 plug, free										
3 m	1424105	1424121	-	_	1414871	1414954				
5 m	1424245	1424122	_	_	1414876	1414958				
10 m	1424107	1424123	-	-	1414880	1414962				
Straight socket, fre					4.44.4700	4.44.404.4				
3 m 5 m	1424097 1424098	1424113 1424114	_	_	1414789 1414805	1414911 1414919				
3 m 10 m	1424098	1424114			1414822	1414919				
Angled socket, free			_		1414022	1717727				
3 m	1424101	1424117	_	_	1414785	1414908				
5 m	1424102	1424118	_	_	1414801	1414917				
10 m	1424103	1424128	_	_	1414818	1414925				
10 111	1121100	1 12 1120			1111010	1111723				

Additional cables with connectors in sizes M5 to M40 for signals, data, and power can be found at phoenixcontact.com.

# Accessories

<b>i</b> Web code: #0559	Size	٢	15	M8		M12			
		Plugs	Sockets	Plugs	Sockets	Plugs	Sockets		
Locking screw									
	Plastic	-	1533288	-	1682540	-	1680539		
	Metal	-	-	-	-	-	1503302 <sup>1)</sup> 1414148 <sup>2)</sup>		
	Stainl. steel V4A	-	-	-	-	-	1555538		
Locking screw for SPEEDCON versions									
	Plastic	-	-	_	-	-	1553129		

# Sealing cap



Plastic	-	-	-	-	1560251	-
Metal	-	-	-	-	1430488	-

# Sealing elements for non-assigned housing cut-outs



Sealing plug, plastic, for Pg9/Pg11	1670235
Locking screw, metal, M16 x 1.5	1453368

#### Plastic sealing caps and locking screws, with retaining strap For cables 1430857 1430860 1430873 1430899 With Ø 3 mm fastening eye 1441105 With Ø 8 mm fastening eye 1441082 With Ø 12 mm fastening eye 1441095 1456187 With Ø 15 mm fastening eye 1456190 1456200 Metal sealing caps and locking screws, with fastening chain AND ALLES With Ø 16 mm fastening eye 1430491



A STATE OF THE STA	<b>~</b> ,	

<sup>1)</sup> With slotted screw head

<sup>2)</sup> With hexagonal screw head

# Accessories

**i** Web code: #0559

EMC hexagonal nut with fine toothing for device connectors			
and the same of th	With fine toothing facing inwards.	M12 x 1	1440151
	This prevents visible scratch marks from appearing on the device	M16 x 1.5	1440164
	surface.	Pg9	1440177
Seal for device connector			
	Seal for M8 socket		1437070
	Flat gasket for M12 fastening thread		1424275
00	Flat gasket for M16 fastening thread		1430394
	Flat gasket for Pg9 fastening thread		1556320

# Pin assignments and litz wire colors

# **Signal**

#### M5 device connectors

# Pin assignments



Socket, 3-pos.





Socket, 4-pos.

# **M8** device connectors

## Pin assignments









Socket, 3-pos.

Pin, 3-pos.

Socket, 4-pos.

Pin, 4-pos.



Socket, 6-pos.



Pin, 6-pos.

Socket, 8-pos.

Pin, 8-pos.

# **M12** device connectors

## Pin assignments



Socket, 4-pos., A-coded



Pin, 4-pos., A-coded



Socket, 4-pos., D-coded



Pin, 4-pos., D-coded

#### Litz wire colors

Assignment: M5 pin/socket

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

## Litz wire colors

Assignment: M8 pin/socket

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

## Assignment: M8 pin/socket

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

#### Litz wire colors

Assignment: M12 pin/socket

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

# **Signal**

## **M12** device connectors

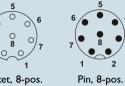
## Pin assignments



Socket, 5-pos., A-coded



Socket, 8-pos.



Pin, 5-pos.,

A-coded

Socket, 17-pos.



Pin, 17-pos.

# 050 0

Socket, 5-pos., B-coded



Pin, 5-pos., B-coded



Socket, 12-pos.



Pin, 12-pos.

# Assignment: M12 pin/socket

G					
Pin	8	3-pos.	1	2-pos.	
1	WH		BN		
2	BN		BU		
3	GN		WH		
4	YE		GN		
5	GY		PK		
6	PK		YE		
7	BU		BK		
8	RD		GY		
9	_		RD		
10	_		VT		
11	_		GYPK		
12	_		RDBU		

#### Litz wire colors

Assignment: M12 pin/socket

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

## Assignment: M12 pin/socket

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

#### **Data**

## M8 device connectors

# Pin assignments



Socket, 4-pos., Ethernet



Pin, 4-pos., Ethernet



Socket, 5-pos.,  $\mathsf{DeviceNet}^{\mathsf{TM}}$ , B-coded



Pin, 5-pos., DeviceNet<sup>™</sup>, B-coded

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

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

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

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

# Pin assignments and litz wire colors

#### **Data**

#### M12 device connectors

## Pin assignments



Socket, 4-pos., A-coded



Pin, 4-pos., A-coded



Socket, 4-pos., D-coded



Pin, 4-pos., D-coded



Socket, 5-pos., B-coded



Pin, 5-pos., B-coded



Socket, 8-pos., A-coded



Pin, 8-pos., A-coded



Socket, 8-pos.,



X-coded

Socket, 8-pos., Y-coded

#### Litz wire colors

Assignment: PROFIBUS, 5-pos., B-coded

Pin	Wi	re color	Signal PROFIBUS
1	_		_
2	GN		A cable
3	_		<del>-</del>
4	RD		B cable
5	Flexibl	e filler lead	<del>_</del>

Assignment: INTERBUS, 5-pos., B-coded

Signal

DO

DO

DI

<u>DI</u>

COM

NC

Wire color

Shield on housing

ΥE

GN

GΥ

PK

BN

Shield on housing

WH

Pin

1

2

3

4

Assignment: CANopen®, 5-pos., A-coded

Pin	Wire color		Signal CANopen®
1	Shield		Drain
2	RD		V+
3	BK		V–
4	WH		CAN_H
5	BU		CAN_L

Shield on housing

4-pos., D-coded

Assignment: PROFINET, EtherCAT, Sercos,

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

Assignment: DeviceNet™, 5-pos., A-coded

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

Shield on housing

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

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

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

r-pos.	703., A-coded				
Pin	Wire color		Signal		
1	BU		DATA-		
2	OG		DATA+		
3			Shield		
4					

## Data

#### M12 device connectors

#### Litz wire colors

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

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

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: VARAIN, 8-pos., A-coded				
Pin	Wire color		Signal	
1	n. c.			
2	OG		TD-	
3	WHOG		TD+	
4	n. c.			
5	WHGN		RD+	
6	BU			
7	BN			
8	GN		RD-	

Assignment: AS-Interface, 4-pos., A-coded Assi							
Pin	Wi	re color	Signal		Pin		
1	BU		AS-i+		1		
2	WH				2		
3	BN		AS-i-		3		
4	BK				4		

Assignment: CC-Link, 4-pos., A-coded			
Pin	Wire color		Signal
1	Shield		SLD
2	WH		DS
3	YE		DG
4	BU		DA

## **Power**

# M12 device connectors

# Pin assignments



Socket, 2+PE, S-coded



Socket, 4-pos., T-coded



Socket, 4+FE, L-coded



Socket, 5+PE, M-coded



Pin, 2+PE, S-coded



Pin, 4-pos., T-coded



Pin, 4+FE, L-coded



Pin, 5+PE, M-coded

# Litz wire colors

Assignment: 2+PE, S-coded

Pin	Wire color		
1	BK1		
3	BK2		
PE	GNYE		

Pin	Wire color		
1	BN		
2	WH		
3	BU		
4	BK		

Assignment: 4-pos., T-coded

Assignment: 3+PE, S-coded

Pin	Wire color		
1	BK1		
2	BK2		
3	BK3		
PE	GNYE		

Pin	Wire color	
1	BK1	
2	BK2	
3	BK3	
4	BK4	
PE	GNYE	

Assignment: 4+PE, K-coded

Assignment: 5+PE, M-coded

Pin	Wire color	
1	BK1	
2	BK2	
3	BK3	
4	BK4	
5	BK5	
PE	GNYE	

Assignment: 4/4+FE, L-coded

Pin	Wire color			
1	BN			
2	WH			
3	BU			
4	BK			
FE*	GY			
* Omitted for 4-pos.				

Socket, 3+PE,

S-coded

Socket, 4-pos.,

L-coded

Socket, 4+PE,

K-coded

Pin, 3+PE,

S-coded

Pin, 4-pos.,

L-coded

Pin, 4+PE,

K-coded

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