

# ectors for ications

2 range of  
exemplifies  
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rs.  
ates  
for devices  
o 10 Gbps,  
7-pos., and  
2 A in the





### Data up to 10 Gbps

Codings for all commonly used  
fieldbus systems

Hybrid for simultaneous data  
and power transmission, PoE

Components according to CAT6<sub>A</sub>

## Contents

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M5, M8, and M12 plug-in  
connectors for device  
connections

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### Device plug-in connectors for front and rear mounting

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M12 signal plug-in connectors

Pages 10 – 19

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M8 signal plug-in connectors

Pages 20 – 21

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M5 signal plug-in connectors

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M12 data plug-in connectors

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M8 data plug-in connectors

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M12 power plug-in connectors

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### Plastic-molded plug-in connectors

Page 33

or  
d power

trial  
fresh  
technology.

e partner  
the  
device  
variety of

e plug-in  
and cost-  
ata, signal,  
ts into a



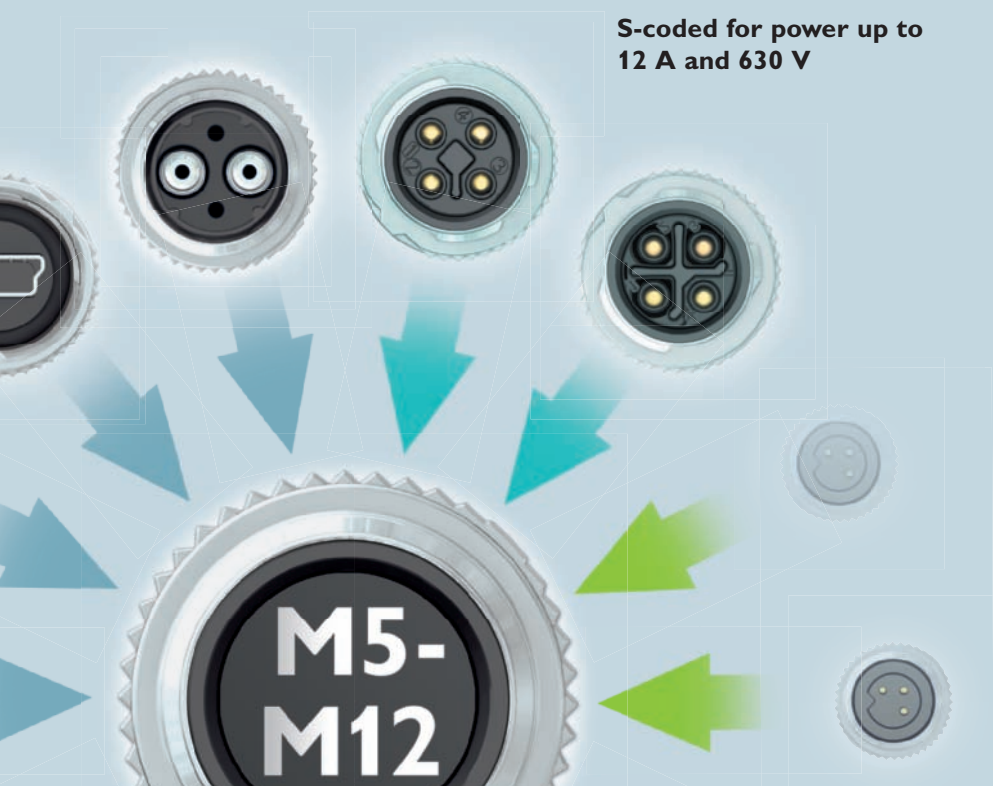
**For PCB connection**



For fiber optic applications in POF

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

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



# Connectors with multiple connection

litz wires  
cables are  
fixed cable  
range of  
product can offer  
by 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.

glance

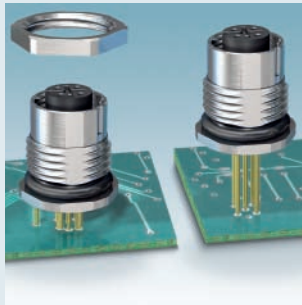


# Connectors for

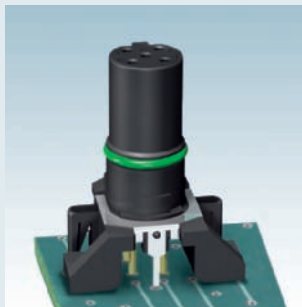
range of  
M12 design  
PCB assembly.  
Connection solutions  
and reflow

in connectors  
numbers  
al, data,  
mechanical

## Connection technologies



One-piece, for  
wave soldering processes



Two-piece, for  
wave soldering processes

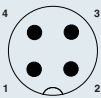
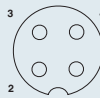
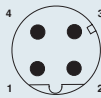
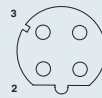


The plug-in connectors for PCB connection are used in controllers requiring compact device connections.

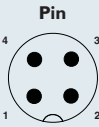
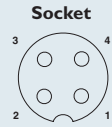
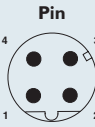
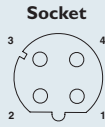






glance



Front mounting		4-pos.			
	A			D	
Rated voltage	250 V			250 V	
Rated current	4 A			4 A	
Conductor cross section	0.34 mm <sup>2</sup>			0.34 mm <sup>2</sup>	
Terminal arrangement					
	1603762	1693788	–	–	
	<b>1523450</b>	<b>1523434</b>	<b>1551558</b>	<b>1535202</b>	
Can be positioned	1693775	1693791	–	–	
Can be positioned	<b>1523463</b>	<b>1523447</b>	<b>1552256</b>	<b>1535215</b>	
Square flange, 4 holes 4 x Ø 3.2 mm	<b>1419784</b>	<b>1419797</b>	<b>1441626</b>	<b>1441639</b>	
Square flange, 4 holes 4 x Ø 2.7 mm	<b>1419991</b>	<b>1420003</b>	<b>1440957</b>	<b>1440960</b>	
Options for screw fixing					
6 x 1.5					

	8-pos.		12-pos.		17-pos.	
	A		A		A	
	30 V		30 V		30 V	
	2 A		1.5 A		1.5 A	
	0.25 mm <sup>2</sup>		0.14 mm <sup>2</sup>		0.14 mm <sup>2</sup>	
et	Pin	Socket	Pin	Socket	Pin	Socket
	1513774	1513758	-	-	-	-
000	1523492	1523476	1556265	1556252	1556304	1556294
044	1513787	1513761	-	-	-	-
998	1523502	1523489	-	-	-	-
571	1441684	1441697	1441707	1441710	1441723	1441736
558	1441561	1441574	1441587	1441590	1441600	1441613
	1436424					

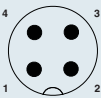
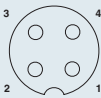
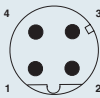
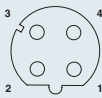
Section, front mounting	4-pos.			
	A		D	
Rated voltage	250 V		250 V	
Rated current	4 A		4 A	
Rated conductor cross section	0.34 mm <sup>2</sup>		0.34 mm <sup>2</sup>	
Terminal arrangement				
Terminal flange, holes 4 x Ø 3.2 mm				
Pre-assembled contact carrier, for long litz wires	1440805	–	1440821	–
Carrier for crimp contacts, pre-assembled	1440931	–	1440944	–
Contacts Ø 1.0 mm, 0.14 ... 0.34 mm <sup>2</sup>	14252356	–	14252356	–
Contacts Ø 0.8 mm, 0.14 ... 0.34 mm <sup>2</sup>	–	–	–	–



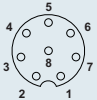
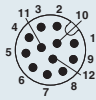
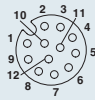
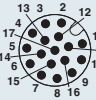
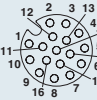
Section, rear mounting	4-pos.			
	A		D	
Rated voltage	250 V		250 V	
Rated current	4 A		4 A	
Rated conductor cross section	0.34 mm <sup>2</sup>		0.34 mm <sup>2</sup>	
Terminal arrangement				

	8-pos.		12-pos.		17-pos.	
	A		A		A	
	30 V		30 V		30 V	
	2 A		1.5 A		1.5 A	
	0.25 mm <sup>2</sup>		0.14 mm <sup>2</sup>		0.14 mm <sup>2</sup>	
et	Pin	Socket	Pin	Socket	Pin	Socket

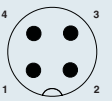
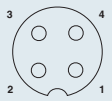
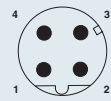
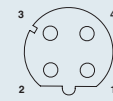
1457827	-	-	-	-	-	-
1440928	-	-	-	-	-	-
-	-	-	-	-	-	-
1452372	-	-	-	-	-	-

	8-pos.		12-pos.		17-pos.	
	A		A		A	
	30 V		30 V		30 V	
	2 A		1.5 A		1.5 A	
	0.25 mm <sup>2</sup>		0.14 mm <sup>2</sup>		0.14 mm <sup>2</sup>	
et	Pin	Socket	Pin	Socket	Pin	Socket

Rear mounting		4-pos.			
Rated voltage		A		D	
Rated current		250 V		250 V	
		4 A		4 A	
Terminal arrangement		Pin	Socket	Pin	Socket
					
Length 1 m, PUR black		1419399	1419302	–	–
Length 2 m, PUR black		1419386	1419315	–	–
Screw fixing					
Socket		–	–	–	–
Socket		–	–	–	1424326
Section, front mounting		4-pos.			
Rated voltage		A		D	
Rated current		250 V		250 V	
		4 A		4 A	
		Pin	Socket	Pin	Socket

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

	8-pos.		12-pos.		17-pos.	
	A		A		A	
	30 V		30 V		30 V	
	2 A		1.5 A		1.5 A	
et	Pin	Socket	Pin	Socket	Pin	Socket

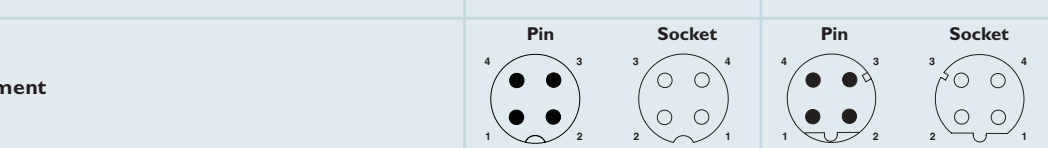
Connection, rear mounting		4-pos.			
		A		D	
Voltage		250 V		250 V	
Current		4 A		4 A	
Mounting					
<b>Mounting</b>					
	6 mm solder pins	<b>1553459</b>	<b>1553462</b>	<b>1551516</b>	<b>1551503</b>
	12 mm solder pins	–	–	<b>1552308</b>	<b>1552272</b>
		<b>1551820</b>	–	<b>1551859</b>	–
		<b>1419742</b>	<b>1419755</b>	<b>1441749</b>	<b>1441752</b>
Solder contact	6 mm solder pins	<b>1556841</b>	–	<b>1553035</b>	<b>1553006</b>
	12 mm solder pins	<b>1558535</b>	<b>1558522</b>	<b>1558519</b>	<b>1558506</b>
Solder contact		<b>1552955</b>	–	<b>1552984</b>	–
Solder contact		<b>1419768</b>	<b>1419771</b>	<b>1441862</b>	<b>1441875</b>
<b>Mounting for screw fixing</b>					
		–	–	–	–
Solder cups	Max. 0.34 mm <sup>2</sup>	–	–	–	–
	Max. 0.25 mm <sup>2</sup>	–	–	–	–



	8-pos.		12-pos.		17-pos.	
	A		A		A	
	30 V		30 V		30 V	
	2 A		1.5 A		1.5 A	
et	Pin	Socket	Pin	Socket	Pin	Socket
50	1542758	1542774	1559932	1559929	1559961	1559958
98	-	1408770	-	-	-	-
	1551862	-	1559945	-	1559974	-
94	1441804	1441817	1441820	1441833	1441846	1441859
22	1553873	1553860	1436783	1436770	1436819	1436806
64	-	1408771	-	-	-	-
	1552997	-	1437106	-	1437119	-
14	1441927	1441930	1441943	1441956	1441969	1441972
	-	1436343	-	-	-	-
	-	-	-	-	-	-
	-	1436327	-	-	-	-

<b>Connection, rear mounting</b>	<b>4-pos.</b>			
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Voltage	<b>A</b>		<b>D</b>	
Current	250 V		250 V	
	4 A		4 A	



<b>Reflow processes</b>				
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Shielded, Tray	1439939	1439955	1552214	1551451
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Shielded, Peel	1457500	1457623	1457513	1457636
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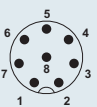
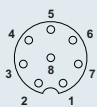
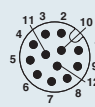
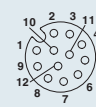
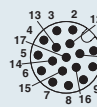
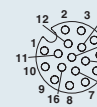
Tray	1437164	1439942	-	-
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



Peel	1457490	1457610	-	-
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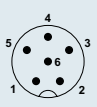
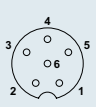
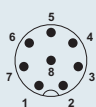
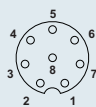




<b>Wave soldering processes</b>				
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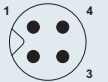
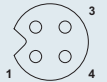

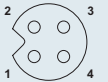
	1439887	1432444	1436673	1432457
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	1436660	1436628	-	-
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

	8-pos.		12-pos.		17-pos.	
	A		A		A	
	30 V		30 V		30 V	
	2 A		1.5 A		1.5 A	
et	<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>
						
35	1557581	1551422	1442065	1442052	1442081	1442078
65	1457568	1457681	1457584	1457704	1457607	1457720
	1552269	1557808	1441985	1441970	1442007	1441998
	1457555	1457678	1457571	1457694	1457597	1457717
12	1437038	1437009	1424198	1424199	1424200	1424201
	1436987	1436990	1424194	1424195	1424196	1424197

		<b>3-pos.</b>	
		<b>A</b>	
age		60 V	
urrent		4 A	
cross section		0.25 mm <sup>2</sup>	
ent		<b>Pin</b> 	<b>Socket</b> 
g thread		1500334	1500350
ng thread		–	–
g thread		1453478	–
ng thread		–	1456080
ng thread		–	1453449
		<b>3-pos.</b>	
		<b>A</b>	
age		60 V	
urrent		4 A	
		<b>Pin</b> 	<b>Socket</b> 

6-pos.		8-pos.	
<b>A</b>		<b>A</b>	
60 V		30 V	
2 A		1.5 A	
0.14 mm <sup>2</sup>		0.14 mm <sup>2</sup>	
<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>
			
1542664	1542677	–	–
–	–	1424232	1424231
1453494	–	1424230	–
–	1456103	–	–
–	1453465	–	–
6-pos.		8-pos.	
<b>A</b>		<b>A</b>	
60 V		30 V	
2 A		1.5 A	
<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>
			



	3-pos.		4-pos.	
Category	A		A	
Rated voltage	60 V		60 V	
Rated current	1 A		4 A	
Conductor cross section	0.14 mm <sup>2</sup>		0.14 mm <sup>2</sup>	
Terminal configuration	<b>Pin</b> 	<b>Socket</b> 	<b>Pin</b> 	<b>Socket</b> 
<b>Product line with 0.5 m long litz wires</b>				
Product line with M5 thread	1530582	1530605	1530595	1530618
Product line with M5 thread	1535901			
<b>Product line for wave soldering processes</b>				
Product line with M5 thread	1530621	1530647	1530634	1530650
Product line with M5 thread	1535901			



		4-pos.		8-pos.	
		<b>D</b>		<b>A</b>	
		250 V		30 V	
nt		4 A		2 A	
ss section		0.14/0.34 mm <sup>2</sup>		0.14 mm <sup>2</sup>	
		<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>
<b>l cable</b>					
be positioned, ole type 93E	2 m	–	<b>1405837</b>	–	–
<b>able</b>					
er blue, cable type 93E	2 m	–	<b>1405866</b>	–	–
er blue, cable type 94B	5 m	–	–	–	<b>1407877</b>
er blue, cable type 94C	2 m	–	–	–	<b>1412820</b>
<b>rocesses</b>					
-piece, ; water blue		<b>1456514</b>	<b>1456527</b>	–	–
<b>able</b>					



		<b>8-pos.</b>	<b>8-pos.</b>
		<b>X</b>	<b>Y</b>
Voltage		48 V	30 V
Current		0.5 A	0.5 A/6 A
Cable cross section		0.25 mm <sup>2</sup>	0.14/0.5 mm <sup>2</sup>
Termination		<b>Socket</b> 	<b>Socket</b> 
<b>Shielded cable</b>			
Cable type 94F	0.5 m	<b>1424135</b>	-
	1 m	<b>1424148</b>	-
	2 m	<b>1424151</b>	-
	5 m	<b>1424164</b>	-
Cable type 94H	0.5 m	-	<b>1407504</b>
	1 m	-	<b>1407505</b>
	2 m	-	<b>1407506</b>
	5 m	-	<b>1407507</b>
<b>Mounting processes</b>			
One-piece		<b>1440669</b>	-
One-piece		<b>1404741</b>	-
One-piece		<b>1424177</b>	-
Two-piece			<b>1456666</b>




		4-pos.		8-pos.	
		<b>D</b>		<b>A</b>	
		250 V		30 V	
ent		4 A		2 A	
cross section		0.14/0.34 mm <sup>2</sup>		0.14 mm <sup>2</sup>	
		<b>Pin</b>	<b>Socket</b>	<b>Pin</b>	<b>Socket</b>
<b>cable</b>					
	<b>0.5 m</b>	<b>1410158</b>	<b>1419154</b>	-	-
	<b>1 m</b>	<b>1419159</b>	<b>1419155</b>	-	-
	<b>2 m</b>	<b>1419160</b>	<b>1419156</b>	-	-
	<b>5 m</b>	<b>1419161</b>	<b>1419157</b>	-	-
<b>processes</b>					
	<b>-piece,</b>	<b>1457979</b>	<b>1457966</b>	-	-
	<b>, red</b>				
<b>cable</b>					
	<b>0.5 m</b>	<b>1419138</b>	<b>1419134</b>	-	-
	<b>1 m</b>	<b>1419139</b>	<b>1419135</b>	-	-
	<b>2 m</b>	<b>1419140</b>	<b>1419136</b>	-	-
	<b>5 m</b>	<b>1419141</b>	<b>1419137</b>	-	-



		<b>5-pos.</b>	
		<b>B</b>	
Voltage		60 V	
Current		4 A	
Conductor cross section		0.34 mm <sup>2</sup>	
Terminal		<b>Pin</b> 	<b>Socket</b> 
<b>Shielded cable</b>			
Can be positioned, see type 910	0.5 m	<b>1525555</b>	<b>1525597</b>
	1 m	<b>1525568</b>	<b>1525607</b>
	2 m	<b>1519561</b>	<b>1519574</b>
	5 m	<b>1525571</b>	<b>1525610</b>
<b>Shielded cable</b>			
Type 910	0.5 m	<b>1437481</b>	<b>1437449</b>
	1 m	<b>1437494</b>	<b>1437452</b>
	2 m	<b>1437504</b>	<b>1437465</b>
	5 m	<b>1437517</b>	<b>1437478</b>
Type 910, violet	0.5 m	<b>1534342</b>	<b>1534384</b>
	1 m	<b>1534355</b>	<b>1534397</b>
	2 m	<b>1534368</b>	<b>1534407</b>
	5 m	<b>1534371</b>	<b>1534410</b>
<b>Shielding processes</b>			
One-piece,		1456475	1456488

		<b>5-pos.</b>	
		<b>B</b>	
		60 V	
nt		4 A	
ss section		0.34 mm <sup>2</sup>	
		<b>Pin</b>	<b>Socket</b>
			
<b>l cable</b>			
pe 910	<b>0.5 m</b>	<b>1529629</b>	<b>1529742</b>
	<b>1 m</b>	<b>1530223</b>	<b>1529755</b>
	<b>2 m</b>	<b>1529726</b>	<b>1529768</b>
	<b>5 m</b>	<b>1529739</b>	<b>1529771</b>
<b>cable</b>			
	<b>0.5 m</b>	<b>1437643</b>	<b>1437601</b>
	<b>1 m</b>	<b>1434656</b>	<b>1437614</b>
	<b>2 m</b>	<b>1437669</b>	<b>1437627</b>
	<b>5 m</b>	<b>1437672</b>	<b>1437630</b>
		1440177	
en,	<b>0.5 m</b>	<b>1534504</b>	<b>1534546</b>
	<b>1 m</b>	<b>1534517</b>	<b>1534559</b>
	<b>2 m</b>	<b>1534520</b>	<b>1534562</b>
	<b>5 m</b>	<b>1534533</b>	<b>1534575</b>
nut		1440164	

		<b>5-pos.</b>	
		<b>A</b>	
Voltage		60 V	
Current		4 A	
Conductor cross section		0.25/0.34 mm <sup>2</sup>	
Terminal		<b>Pin</b> 	<b>Socket</b> 
<b>Shielded cable</b>			
Cable type 920	0.5 m	<b>1525623</b>	<b>1525678</b>
	1 m	<b>1525636</b>	<b>1525681</b>
	2 m	<b>1525649</b>	<b>1525694</b>
	5 m	<b>1525652</b>	<b>1525704</b>
<b>Shielded cable</b>			
Cable type 920	0.5 m	<b>1437562</b>	<b>1437520</b>
	1 m	<b>1437575</b>	<b>1437533</b>
	2 m	<b>1437588</b>	<b>1437546</b>
	5 m	<b>1437591</b>	<b>1437559</b>
Part number		1440177	
Cable type 920, violet	0.5 m	<b>1534423</b>	<b>1534465</b>
	1 m	<b>1534436</b>	<b>1534478</b>
	2 m	<b>1534449</b>	<b>1534481</b>
	5 m	<b>1534452</b>	<b>1534494</b>
MC nut		1440164	

		<b>4-pos.</b>	
		<b>A</b>	
		250 V	
<b>nt</b>		4 A	
<b>ss section</b>		0.34 mm <sup>2</sup>	
		<b>Pin</b> 	<b>Socket</b> 
<b>cable</b>			
	<b>0.5 m</b>	–	1559819
	<b>1 m</b>	–	1559822
	<b>2 m</b>	–	1559835
	<b>5 m</b>	–	1559848
	<b>0.5 m</b>	–	1437847
	<b>1 m</b>	–	1437850
	<b>2 m</b>	–	1437863
	<b>5 m</b>	–	1437876
<b>processes</b>			
<b>-piece,</b>		1457856	1457869
<b>, red</b>			
<b>with 0.5 m long litz wires</b>			
		1431432	1431429

Fiber optics	USB	FO
ment		
er connection		
B 2.0	1440711	-
transceiver	-	1416716

5-pos.		
	<b>B</b>	
	30 V	
nt	3 A	
ss section	0.25 mm <sup>2</sup>	
	<b>Pin</b> 	<b>Socket</b> 
with 0.5 m long litz wires		
hread	1424234	1424233
processes		
hread, straight, shielded	1424242	–
hread, angled, shielded	1424240	–
hread, straight, shielded	–	1424241
hread, angled, shielded	–	1424239

30 V	4 (3+PE)-pos.		4-pos.	
Category	S (AC)		T (DC)	
Rated current	630 V		60 V	
Rated current	12 A		12 A	
Rated cross section	1.5 mm <sup>2</sup>		1.5 mm <sup>2</sup>	
Terminal	Pin	Socket	Pin	Socket
<b>with 0.5 m long litz wires</b>				
fastening thread, one-piece	1424139	1424137	1424140	1424138
Flat nut	1504097			
Square flange, modular, holes 4 x Ø 2.7 mm	1424131			
Double contact carrier,	1424129	–	1424130	–
<b>with 0.5 m long litz wires</b>				
fastening thread, one-piece	1424132	1424133	1424136	1424134
<b>contact carriers for reflow processes</b>				



V	4 (3+PE)-pos.		4-pos.	
	S (AC)		T (DC)	
	630 V		60 V	
nt	12 A		12 A	
ss section	1.5 mm <sup>2</sup>		1.5 mm <sup>2</sup>	
	Pin	Socket	Pin	Socket

led	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

ed	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

	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

	1.0 m	1408839	1408848	1408816	1408827
	2.0 m	1408840	1408852	1408819	1408828

## ectors that can be assembled

	Design	4-pos.		5-pos.		8-pos.	
		Pin	Socket	Pin	Socket	Pin	Socket
<b>knurl, Pg7 screw connection</b>							
Standard	Straight	1542952	1543029	1542965	1543032		
Standard	Angled	1542981	1543058	1542994	1543061		
<b>knurl, Pg9 screw connection</b>							
Standard	Straight			1542978	1543045		
Standard	Angled			1543003	1543414		
<b>Pg7 screw connection</b>							
Standard	Straight	1662528	1681127	1663116	1662968		
Standard	Angled	1681101	1681143	1663129	1662984		
<b>Pg9 screw connection</b>							
Standard	Straight			1681460	1681486	1513334	1513347
Standard	Angled			1681473	1681499		
<b>Pg7 SKINTOP screw connection</b>							
Standard	Straight	1551070	1420004	1451466	1550000		

## ors that can be assembled

Design	4-pos.		5-pos.		
	Pin	Socket	Pin	Socket	
Straight	1432635	1432619	1432567	1432583	
Angled	1432606	1432622	1432570	1432596	
Straight	1432729	1432745	1432648	1432664	
Angled	1432732	1432758	1432651	1432677	
Plastic knurl	1641714	1641701			
SPEEDCON knurl	1521575	1521588			
Metal knurl	1641691	1641688			
Plastic knurl	1641769	1641756			
SPEEDCON knurl	1521591	1521601			
Metal knurl	1641785	1641772			

## Factors that can be assembled

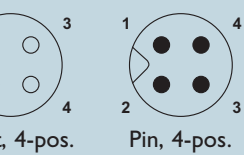
Design	3-pos.		4-pos.	
	Pin	Socket	Pin	Socket
Straight	1681156	1681172	1681169	1681185
Angled	1699902	1529399	1554209	1513444
Straight	1506901	1506927	1506914	1506930
Angled	1436453	1436479	1436466	1436482
Straight	1501252	1506888	1501265	1506891
Angled	1407583	1407582	1407585	1407584
Straight	1542884	1542907	1542897	1542910

## rs that can be assembled

Design	4-pos.		5-pos.		8-pos.	
	Pin	Socket	Pin	Socket	Pin	Socket
<b>10 Gbps Ethernet</b>						
Straight			1432680	1432703		
Angled			1432693	1432716		
<b>10 Gbps Ethernet</b>						
Straight			1432800	1432826		
Angled			1432813	1432839		
Straight			1432842	1432868		
Angled			1432855	1432871		
Straight			1432761	1432787		
Angled			1432774	1432790		
<b>10 Gbps Ethernet</b>						
Straight	1543223	1553611				
Angled	1553624	1553637				
Straight	1554513	1554526				
Angled	1554539	1554542				

10 Gbps Ethernet

# and litz wire colors



## Litz wire colors

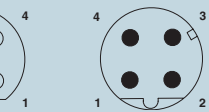
Assignment: M5 pin/sockets

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

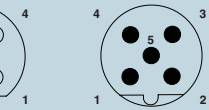
## Litz wire colors

Assignment: M8 pin/sockets

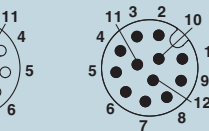
Pin	Wire color			
	3 pos.		4 pos.	
1	BN		BN	
2	-		WH	
3	BU		BU	
4	BK		BK	



Pin, 4-pos.,  
D-coded



Pin, 5-pos.,  
B-coded



Pin, 12-pos.

### 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

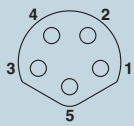
Assignment: M12 pin/sockets

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

# and litz wire colors



5-pos.,  
Net™,  
oded



Pin, 5-pos.,  
DeviceNet™,  
B-coded

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

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

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

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



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

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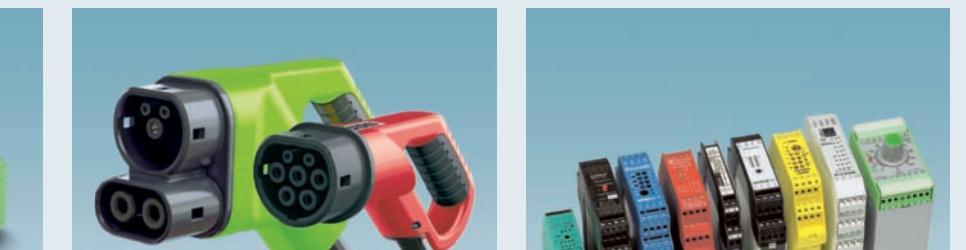
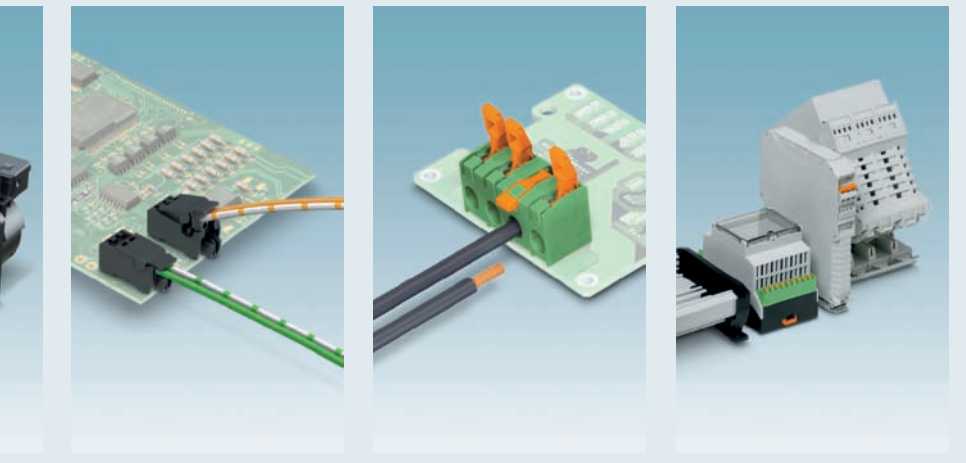
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