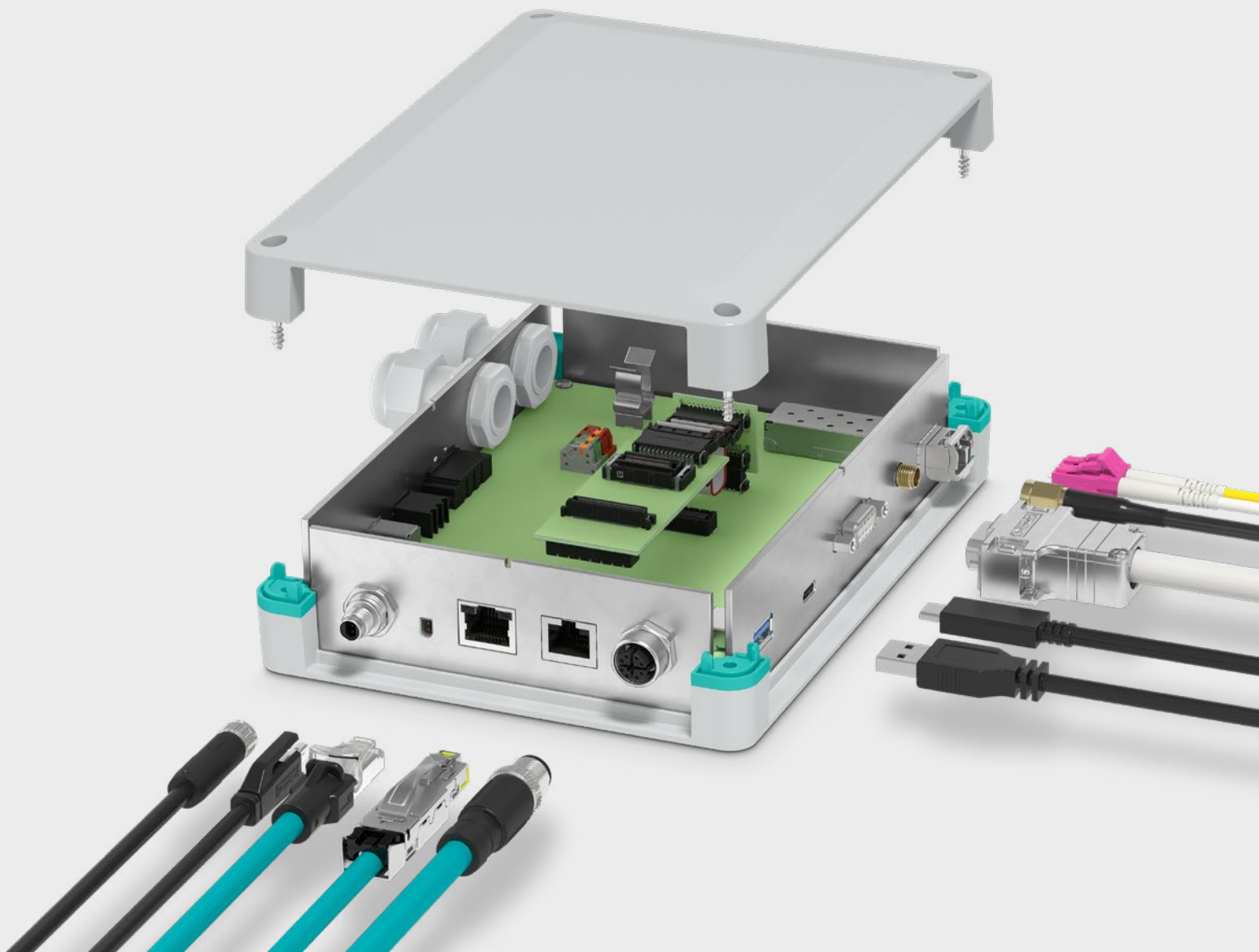


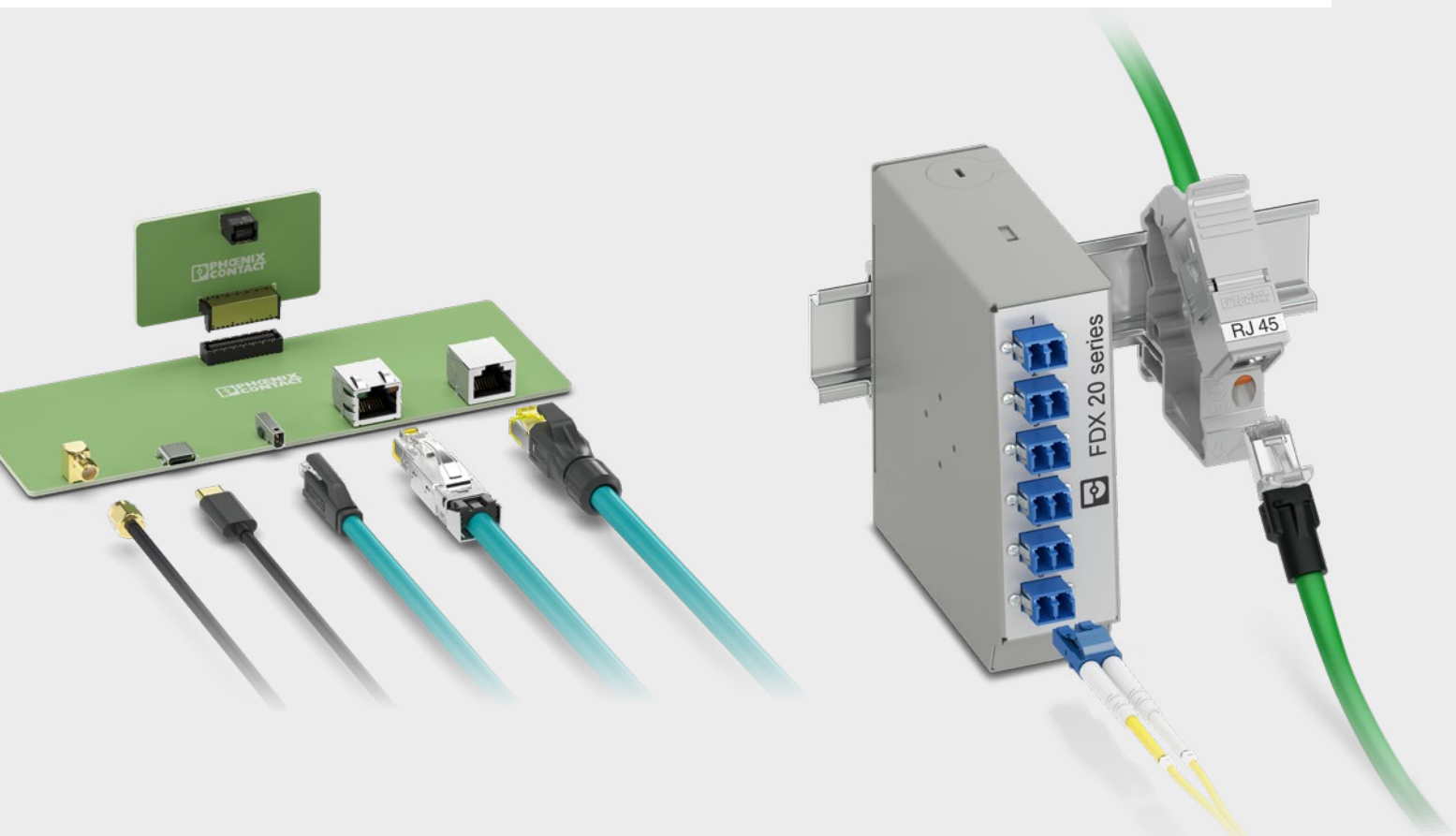


Data connectors

Product overview 2026

Reliable data connectors for copper and FO applications

Phoenix Contact provides reliable data connectors for a wide range of industrial and semi-industrial applications. Whether for copper or fiber optics, IP20 or IP69K protection class – our connection solutions satisfy high demands. Splice boxes, distributors, and adapters round out the comprehensive solution range.



Solutions for device connection

Phoenix Contact has the right device connector for your application. From SPE, RJ45, USB, coaxial for printed circuit boards and M12 panel feed-throughs to D-SUB connectors, Phoenix Contact has a comprehensive portfolio of different pin connector patterns for a wide range of transmission properties.

Solutions for control cabinet cabling

Along with classic connectors, the product portfolio also includes creative solutions for your control cabinet application. Phoenix Contact DIN rail adapters and splice boxes combine high packing density with easy handling.



Solutions for field cabling

From IP20 degree of protection right through to IP67, Phoenix Contact enables assembly without the need for special tools and provides reliable components for every application. Whether for use directly on your machine, in buildings, or even outdoors, Phoenix Contact connection solutions are the perfect choice in any environment.

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Find out more with the web code

For detailed information, use the web codes provided in this brochure. Simply enter # and the four-digit number in the search field on our website.

 **Web code: #1234** (example)

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

Product range overview

Unrivalled variety for copper and FO cabling

Create consistent solutions for reliable data transmission at speeds of up to 40 Gbps with our wide range of designs, codings, and pin assignments.

Always the right connection



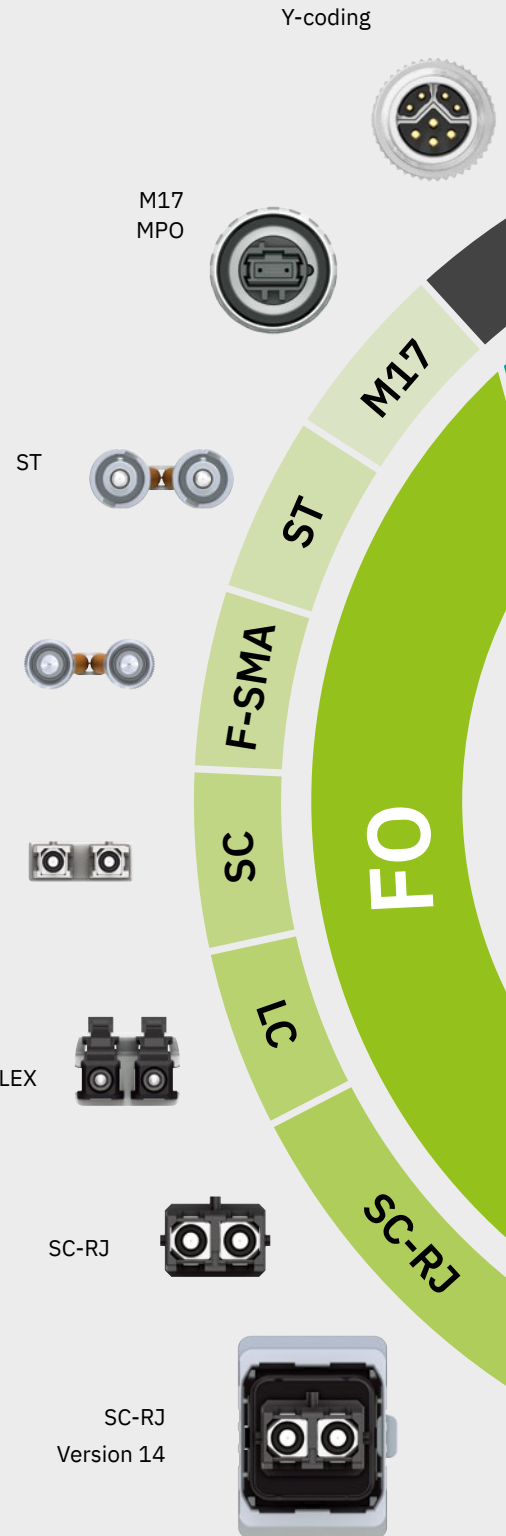
For compact device connection

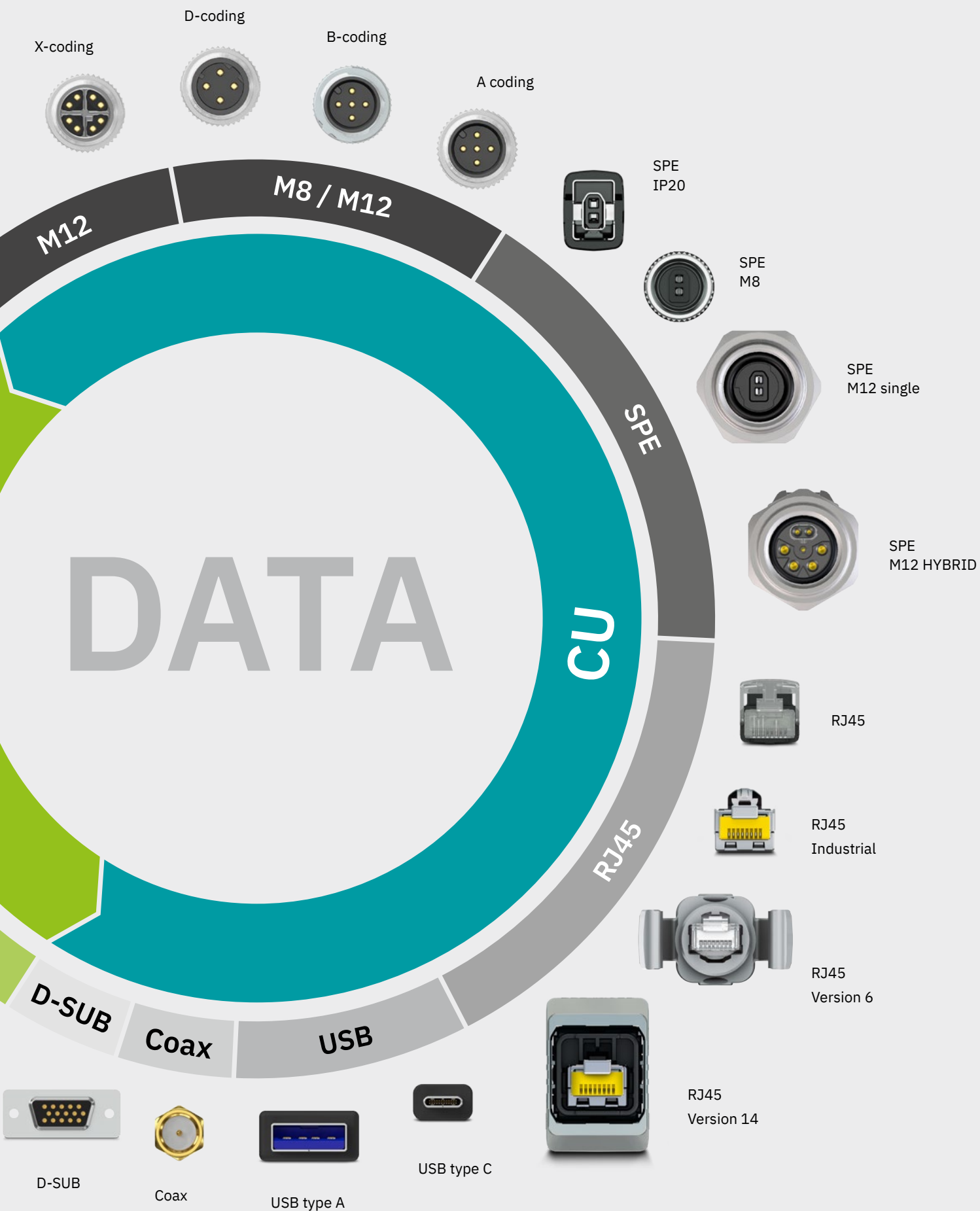


For flexible on-site connection



For easy cabling





Application solutions for your data connectors

Solutions for industrial device connection

Special shielding concepts and torsion-resistant, optimally coordinated components are essential for the reliable operation of robots and conveyor systems. Use Phoenix Contact's reliable and consistent product range for error-free data transmission.



Solutions for control cabinet cabling

Select the FO or copper components in cabling solutions for Ethernet and PROFINET applications that suit your data transmission system. The comprehensive product range for control cabinet applications provides the right solution for your requirements.



Solutions for industrial IP20 cabling

Phoenix Contact provides RJ45 and USB patch cables and RJ45 connectors for assembly that do not need special tools for reliable connection solutions and consistent data transmissions of up to 10 Gbps (CAT6_a) designed to meet the special requirements in industrial cabling applications.



Solutions for industrial IP6X cabling

Special shielding concepts and torsion-resistant components are essential for the reliable operation of robots and conveyor systems. Use Phoenix Contact's reliable and consistent product range for error-free data transmission.



Solutions for office and building cabling

Our connectors and patch cables allow you to realize secure and flexible cabling in your building. From copper-based transmission up to 10 Gbps to FO-based transmission at 40 Gbps, Phoenix Contact provides the right solution for every application.



Solutions for railways applications

The components used for data and signal transmission in the railroad sector are subject to particularly high demands. Phoenix Contact provides connectors and cables for these tasks that are not only flame-retardant, but also highly resistant to temperature influences. This means they reliably meet the strict environmental and material requirements specific to the railway industry.



Product overview for data connectors

Copper-based connectors			
		Cables by the meter	Pages 10–13
SPE		PCB connectors	Pages 14–15
		Field connectors and patch cables	Pages 15–16
RJ45		PCB connectors / couplings	Pages 17–20
		Connectors	Page 21
		Patch cable	Pages 21–23
V6		Connectors / patch cables / panel-mount frames / couplings	Pages 24–25
V14		Connectors / patch cables / panel-mount frames	Pages 26–28, 30
		Socket inserts / couplings	Page 29
		Multiports	Page 29
M12		Connectors / PCB connectors	Pages 32–33
		Control cabinet feed-throughs / wall distributors	Page 34
		Device connectors / patch cables / accessories	Pages 31, 35–41
M8		Patch cables / accessories	Pages 42–44
D-SUB		Contact inserts / patch cables	Pages 45–46, 48
		Contacts	Page 47
		Sleeve housings / panel-mount frames / protective covers	Page 47

Copper-based connectors

USB		Patch cables / PCB connectors	Page 49
		Panel-mount frames	Page 50
DSI		Service interfaces	Page 51
Coax		Patch cables / PCB connectors	Page 52

Fiber optics

POF, PCF, and GOF		Coupling	Pages 53, 55
		Connectors	Page 55
		Patch cable	Page 58
		Cables by the meter	Pages 56–57
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Distributor/ splice boxes		DIN rail	Pages 53–54
		19"	Page 54
		M17 MPO	Pages 59–60

Discover further products

Visit our website and find out more about our entire portfolio of data connectors.

 Web code: #0343

Cables by the meter

Ethernet PROFINET cabling								
Type	93A	93B	93C	93E	93K	93M	93R	
Sheath material	PVC Green	PVC Green	PUR Green	PUR Water blue	PVC Red	PUR Green	PUR Green	
								
Number of positions	4-pos.							
Transmission	CAT5 (up to 100 Mbps)							
Cable design	2 x 2 x AWG22-100	2 x 2 x AWG22-100	1 x 4 x AWG22	2 x 2 x AWG26-100	1 x 4 x AWG22	1 x 4 x AWG22	1 x 4 x AWG22/19	
Shielding	SF/TQ	SF/TQ	SF/TQ	SF/UTP	SF/TQ	SF/TQ	S/TQ	
Wire insulation	PE	PE	PE	PE	PE	PE	PE	
Minimum bending radius, fixed installation	4 x D	4 x D	5 x D	4 x D	3 x D	5 x D	5 x D	
Minimum bending radius, flexible installation	-	8 x D	7.5 x D	8 x D	7 x D	10 x D	-	
Temperature range	-40°C ... +80°C	-40°C ... +80°C	-40°C ... +70°C	-40°C ... +80°C	-40°C ... +70°C	-40°C ... +80°C	-40°C ... +80°C	
AWM style	UL 21695 (80°C / 600 V)	UL 21695 (80°C / 600 V)	UL 20233 (80°C / 300 V)	UL 21238 (80°C / 600 V)	UL 21695 (80°C / 600 V)	UL 20233 (80°C / 300 V)	UL 20233 (80°C / 300 V)	
Properties								
UL approval		✓	✓			✓		
		✓	✓	✓		✓		
		✓	✓	✓	✓	✓	✓	
								
UV-resistant	✓	✓	✓		✓		✓	
Oil-resistant	✓	✓	✓	✓	✓		✓	
Halogen-free			✓	✓		✓	✓	
Flame-retardant	✓	✓	✓	✓	✓		✓	
Item no.	1416486	1417362	1417491	1417320	1419173	- ¹⁾	1417388	

Further information on our cables can be found in the technical data for the item in our web shop.

¹⁾ Only available as an assembled cable.

	94A	94B	94C	94D	94E	94F	94H	94S	94U	937
	PUR Water blue	PUR Water blue	PUR Water blue	PVC Black	FRNC Water blue	PUR Water blue	PUR Black	PE-X Black	PUR Green	PE-X Black
										
	8-pos.									4-pos.
	CAT5 (up to 100 Mbps)	CAT5 (up to 1 Gbps)	CAT5 (up to 1 Gbps)	CAT5 (up to 1 Gbps)	CAT6 _A (up to 10 Gbps)	CAT6 _A (up to 10 Gbps)	CAT5 (up to 100 Mbps)	CAT7 (up to 10 Gbps)	CAT7 (up to 10 Gbps)	CAT5 (up to 100 Mbps)
	4 x 2 x AWG24-100	4 x 2 x AWG26	4 x 2 x AWG26/19	4 x 2 x AWG26/7	4 x 2 x AWG23/1	4 x 2 x AWG26	1 x 4 x AWG26-100 + 1 x 4 x AWG18	4 x 2 x AWG26/7	4 x 2 x AWG24/7	1 x 4 x AWG22/7
	SF/UTP	SF/UTP	S/UTP	SF/UTP	S/FTP	S/FTP	SF/UTP	S/FTP	S/FTP	SF/TQ
	Foamed PE	PE	PP	PP	Foamed PE	ProdDoc	PP	PE	Foamed PE	PE-X
	4 x D	4 x D	4 x D	9.5 x D	7.5 x D	4 x D	4 x D	6 x D	7.5 x D	6 x D
	-	8 x D	8 x D	9.5 x D	-	8 x D	8 x D	-	-	10 x D
	-40°C ... +80°C	-40°C ... +80°C	-20°C ... +80°C	-40°C ... +80°C	-20°C ... +80°C	-20°C ... +80°C	-40°C ... +80°C	-40°C ... +80°C	-40°C ... +80°C	-40°C ... +90°C
	UL 21238 (80°C / 600 V)	UL 21238 (80°C / 600 V)	UL 20233 (80°C / 300 V)	UL 2464 (80°C / 300 V)	UL 10797 (80°C / 30 V)	UL 21238 (80°C / 600 V)	UL 20233 (80°C / 300 V)	-	UL 20233 (80°C / 300 V)	-
	✓		✓			✓	✓		✓	
				✓	✓					
				✓	✓				✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓		✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	1416415	1417333	1417346	1416444	1416460	1417359	1474283	1423514	- ¹⁾	1402687

Cables by the meter

Fieldbus cabling							
Type	900	910	915	920	921	923	
Sheath material	PUR Green	PUR Violet	PUR Turquoise blue	PUR Violet	PUR Black	PUR Gray	
							
Number of positions	6-pos.	2-pos.	2-pos.	5-pos.	5-pos.	5-pos.	
Transmission	INTERBUS (up to 16 Mbps)	PROFIBUS DP (up to 10 Mbps)	PROFIBUS PA (up to 31.25 kbps)	CANopen [®] /DeviceNet [™]	CANopen [®] /DeviceNet [™]	CANopen [®] /DeviceNet [™]	
Cable design	3 x 2 x AWG24/32	1 x 2 x AWG24-150	1 x 2 x AWG24-150	1 x 2 x AWG24-120 + 2 x AWG22	2 x AWG24/19 + 2 x AWG22/19	2 x AWG24/19 + 2 x AWG22/19	
Shielding	S/TP	SF/UTP	SF/UTP	S/FTP	S/FTP	S/FTP	
Wire insulation	PE	Foamed PP	Foamed PP	Foamed PP (data) PE (voltage)	Foamed PP	Foamed PP	
Min. bending radius, fixed inst.	7.5 x D	4 x D	4 x D	4 x D	4 x D	4 x D	
Minimum bending radius, flexible installation	15 x D	8 x D	8 x D	8 x D	8 x D	8 x D	
Temperature range	-40°C ... +80°C	-40°C ... +80°C	-40°C ... +80°C	-40°C ... +80°C	-40°C ... +80°C	-40°C ... +80°C	
AWM style	-	UL 21238 (80°C / 600 V)	-	UL 21198 (80°C / 300 V)	UL 21238 (80°C / 600 V)	UL 21238 (80°C / 600 V)	
Properties							
UL approval							
			✓				
		✓		✓	✓	✓	
							
UV-resistant				✓	✓	✓	
Oil-resistant		✓	✓	✓	✓	✓	
Halogen-free	✓	✓	✓	✓	✓	✓	
Flame-retardant	✓	✓	✓	✓	✓	✓	
Item no.	- ¹⁾	1511491	- ¹⁾	1511504	1420751	1408544	

Further information on our cables can be found in the technical data for the item in our web shop.

¹⁾ Only available as an assembled cable.

									SPE
	925	950	960	961	970	971	990	92X	99B
	FRNC Violet	PUR Black	PVC Orange	PVC Blue	SANTOPRENE Black	PVC Black	PVC Red	FRNC Black	PUR Green
									
	5-pos.	4-pos.	2-pos.	2-pos.	6-pos.	6-pos.	3-pos.	5-pos.	2-pos.
	CANopen/ DeviceNet™	INTERBUS	FOUNDATION Fieldbus (up to 31.25 kbps)	FOUNDATION Fieldbus / PROFIBUS PA (up to 31.25 kbps)	VARAN CAT5 (up to 100 Mbps)	VARAN CAT5 (up to 100 Mbps)	CC-Link (up to 10 Mbps)	CANopen/ DeviceNet™	CAT B (up to 1 Gbps)
	2 x AWG24/19 + 2 x AWG22/19	2 x AWG26/19 + 2 x AWG22/19	2 x AWG18/7 + 1 x AWG20/7	2 x AWG18/7 + 1 x AWG20/7	1 x 2 x AWG22/19 + 1 x 4 x AWG24/19	1 x 2 x AWG24/32 + 2 x 2 x AWG24/19	3 x AWG20/7 + 1 x AWG22/19	2 x AWG24/19 + 2 x AWG22/19	1 x 2 x AWG22
	S/FTP	S/FTP	F/UTP	F/UTP	F/UTP	SF/UTP	SF/UTP	S/FTP	S/FTP
	PE	PP	PO	PO	PP	PE	Foamed PE	PE	PE
	16 x D	5 x D	10 x D	10 x D	12 x D	4 x D	10 x D	5 x D	4 x D
	-	7.5 x D	-	-	12 x D	8 x D	-	10 x D	8 x D
	-25°C ... +80°C	-40°C ... +80°C	-40°C ... +105°C	-40°C ... +105°C	-20°C ... +80°C	-40°C ... +80°C	-30°C ... +60°C	-40°C ... +105°C	-40°C ... +80°C
	-	UL 20963 (80°C / 30 V)	-	-	-	UL 2461 (80°C / 300 V)	-	UL 21281 (80°C / 300 V)	UL 20233 (80°C / 300 V)
	✓		✓	✓			✓		
	✓		✓	✓			✓		
									✓
		✓				✓		✓	
								✓	✓
	✓				✓	✓		✓	✓
	✓	✓			✓			✓	✓
	✓		✓	✓		✓	✓	✓	✓
	1417688	1543401	1432389	1434620	1404174	- ¹⁾	- ¹⁾	1422415	1583504

ONEPAIR Single Pair Ethernet

Ethernet is the leading communication protocol for local data networks (LAN), e.g., at the corporate and operational level. With Single Pair Ethernet, the established protocol is now also advancing into the final automation level and forms the basis for future-proof networking from the sensor to the cloud.

The IP20 PCB connectors and patch cables as well as the M8 and M12 connectors in the ONEPAIR series are ideal for efficient and future-proof data transmission.



SPE IP20 and M8 PCB connectors in accordance with IEC 63171-2 and -5

 Web code: #2671					
Pin connector pattern	IP20		M8		
Soldering process	Wave / THR		SMD	Wave / THR	
Contact connection type	Male				
Orientation	180° vertical	90° horizontal	180° vertical		90° horizontal
Without LEDs	1163798	1163797	1215777	1163793	1163795
With LEDs		1215778			
Compatible housings (front mounting)			1412502		
Compatible housings (rear mounting)			1412505		

SPE M12 PCB connectors in accordance with IEC 63171-5

 Web code: #2670						
Contact connection type	Male		Female		Male	Female
Orientation	180° vertical				90° horizontal	
Soldering process	THR	SMD	THR	SMD	THR	THR
Item no.	1363336	1363342	1363337	1363344	1363338	1363341
Compatible housings (front mounting)	1027679	1107999	1027678	1412079	1107999	1027678
Compatible housings (rear mounting)	1027661	1107993	1027662	1414021	1107993	1027662

ONEPAIR Single Pair Ethernet

SPE M12 hybrid PCB connectors in accordance with IEC 63171-7			
NEW  Web code: #2670			
	Male		Female
Contact connection type	Male		
Number of contacts	2 x data, 4 x power, 1 x shielding		
Voltage, current (max. per power contact)	50 V AC / 63 V DC, 2 x 8 A		
Soldering process	THR		
Orientation	180° vertical		
Item no.	1439775		1439722
Compatible housings (front mounting)	1108115 (incl. push-pull)	1420824	1420825
Compatible housings (rear mounting)	1108101 (incl. push-pull)	1420826	1420827

SPE IP20 patch cables in accordance with IEC 63171-2			
 Web code: #2240			
Transmission	1 Gbps (up to 600 MHz)	1.0 m	1640268
Sheath material	PUR	2.0 m	1640269
Cable design	1 x 2 x 22 AWG	3.0 m	1640270
Shielding	S/FTP	5.0 m	1640271
Connector shielding	360° zinc die-cast housing	10.0 m	1640272

SPE IDC connectors in accordance with IEC 63171-2	
 Web code: #2671	
Transmission	1 Gbps (up to 600 MHz)
Conductor cross-section range	26/7 AWG ... 22/7 AWG
Shielding	360° zinc die-cast housing
Item no.	1343953

SPE M8 network cables in accordance with IEC 63171-5						
 Web code: #2670						
Contact connection type	Male – female	Female – female	Male – male	Male – female	Female – female	Male – male
Sheath material	PVC			PUR		
Cable design	1 x 2 x 22 AWG					
Item no.	1217524 (2 m)	1217530 (2 m)	1217526 (2 m)	1150575 (2 m)	1217320 (2 m)	1217316 (2 m)

SPE control cabinet feed-through (IP20/M8) in accordance with IEC 63171-2 and -5	
 Web code: #2671	
Description	Control cabinet feed-through IP20 to M8
Contact connection type	Male – male
Transmission	1 Gbps (600 MHz)
Orientation 90°	1358333

ONEPAIR Single Pair Ethernet

SPE M12 patch cables (IP67) in accordance with IEC 63171-5									
 Web code: #2670									
Contact connection type		Male – female	Female – female	Male – male	Male – free cable end	Female – free cable end	Male – female	Male – male	Male – female
Transmission		1 Gbps (up to 600 MHz)							
Sheath material		PUR							
Cable design		1 x 2 x 22 AWG							
Shielding		S/FTP – Advanced Shielding Technology							
Length	1.0 m	1478372		1478376	1478364	1478368			
	2.0 m	1364621	1364623	1364622	1478365	1478369	1503280	1844193	
	5.0 m	1478373		1478377	1478366	1478370		1844035	1868676
	10.0 m	1478375		1478380	1478367	1478371			1817960

SPE M12 hybrid patch cables (IP67) in accordance with IEC 63171-7							
 Web code: #2670		 		 		 	
		Female – male		Female – free cable end		Male – free cable end	
Contact connection type							
Transmission		1 Gbps (up to 600 MHz)					
Number of contacts		2 x data, 4 x power, 1 x shielding					
Length	1.0 m	1524221		1524234		1524230	
	2.0 m	1524222		1524235		1524231	
	5.0 m	1524224		1524236		1524232	
	10.0 m	1524229		1524237		1524233	

Our Single Pair Ethernet portfolio for the new pin connector pattern

Whether IP20, M8, M12, or M12 Hybrid – with the standardized SPE pin connector pattern in accordance with IEC 63171-7 ED2 (in progress), you will soon benefit from all the advantages of the Single Pair Ethernet connection for your devices. Making this technology interoperable and future-proof across manufacturers.

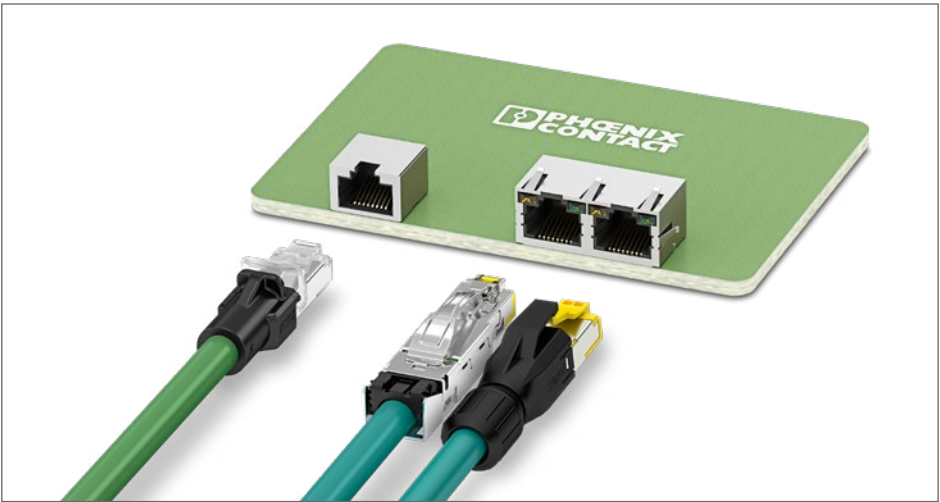
More about the new SPE pin connector pattern



RJ45

The RJ45 connector range includes PCB connectors, connectors for field assembly, and a comprehensive portfolio of patch cables with various cable types.

The future-proof cabling solutions are suitable for various applications in the field of building automation as well as for Industrial Ethernet applications. The optimally coordinated components ensure reliable data transmission.



Modular RJ45 singleport PCB connectors

 Web code: #2341						
Mounting type/for soldering	SMT/reflow		THT/wave		THR/reflow	
Orientation	180° vertical	90° horizontal	180° vertical	90° horizontal	180° vertical	90° horizontal
Locking clip		Top Bottom		Top Bottom		Top
Without LEDs	1149611	11498821149874	1149872	11498701149868	1337238	1337240
With LEDs		1149873	1149871	11498671149866	1337239	1337243

Modular RJ45 multiport PCB connectors

 Web code: #2341					
Mounting type/for soldering	THT/wave				THR/reflow
Orientation	90° horizontal				
RJ45 ports	2		4		2
Locking clip	Top	Bottom	Top	Bottom	Top
Without LEDs	1149858	1149855	1149851	1149849	1337251
With LEDs	1149854	1149852	1149848	1149616	1337254

Modular RJ45 singleport PCB connectors (Industrial Connection System)

 Web code: #2059								
Mounting type/for soldering	THT/wave				THR/reflow			
Orientation	90° horizontal		180° vertical		90° horizontal		180° vertical	
Housing shield springs	Yes	No	Yes	No	Yes	No	Yes	No
Without LED	1099280	1091946	1099279	1091942	1321248	1321104	1321249	1321106
With LED	1099281	1091950	1099282	1091947	1321246	1321101	1321247	1321102

RJ45

Magnetic RJ45 singleport PCB connectors										
 Web code: #3710										
Orientation	90° horizontal								180° vertical	
Locking clip	Top				Bottom				-	
LED	Yes	No	Yes	No	Yes	No	Yes	No	No	Yes
Housing shield springs	Yes	No	No	Yes	Yes	No	No	Yes	No	No
THT / wave										
10/100 Mbps (figure 1)	1663967	1663964	1663962	1663969	1664077	1664070	1664067	1664081	1663979	1663977
10/100 Mbps (figure 2)	1663968	1663966	1663963	1663971	1664073	1664069	1664065	1664080		
10/100 Mbps (figure 3)									1663980	1663978
Up to 1 Gbps (figure 4)	1664026	1664017	1664011	1664032					1664051	1664048
Up to 1 Gbps (figure 5)	1664027	1664019	1664012	1664035	1664107	1664104	1664100	1664111	1664049	1664046
Up to 1 Gbps (figure 6)	1664028	1664020	1664013	1664036	1664106	1664103	1664099	1664109		
Up to 1 Gbps (figure 7)					1664108	1664105	1664101	1664112		
Up to 1 Gbps (figure 8)	1664029	1664022	1664014	1664037						
Up to 1 Gbps (figure 9)	1664030	1664024	1664015	1664038						
up to 1 Gbps (figure 10)	1664031	1664025	1664016	1664039						
THR / reflow										
10/100 Mbps (figure 1)	1663957	1663955	1663953	1663960	1664059	1664056	1664054	1664062	1663975	1663973
10/100 Mbps (figure 2)	1663959	1663956	1663954	1663961	1664057	1664055	1664053	1664061		
10/100 Mbps (figure 3)									1663976	1663974
Up to 1 Gbps (figure 4)	1663995	1663988	1663981	1664003					1664045	1664043
Up to 1 Gbps (figure 5)	1663996	1663989	1663982	1664004	1664094	1664088	1664083	1664097	1664044	1664041
Up to 1 Gbps (figure 6)	1663997	1663991	1663983	1664006	1664093	1664087	1664082	1664096		
Up to 1 Gbps (figure 7)					1664095	1664090	1664085	1664098		
Up to 1 Gbps (figure 8)	1664000	1663992	1663984	1664007						
Up to 1 Gbps (figure 9)	1664001	1663993	1663986	1664008						
Up to 1 Gbps (figure 10)	1664002	1663994	1663987	1664010						

RJ45

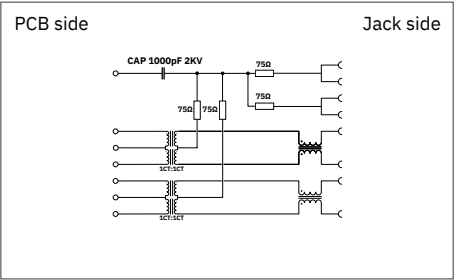


Figure 1

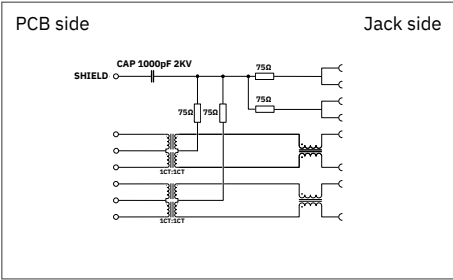


Figure 2

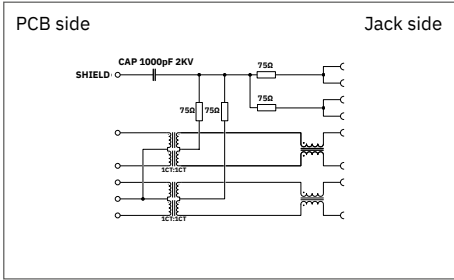


Figure 3

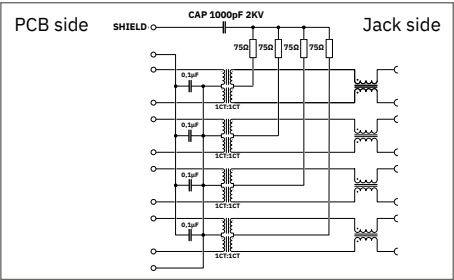


Figure 4

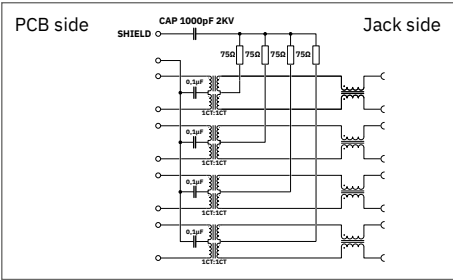


Figure 5

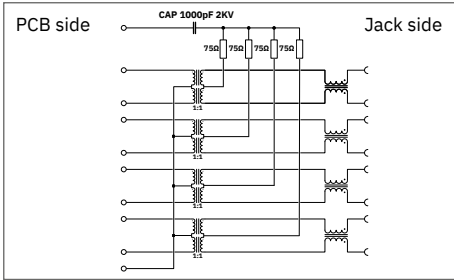


Figure 6

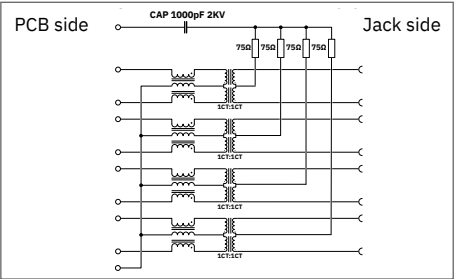


Figure 7

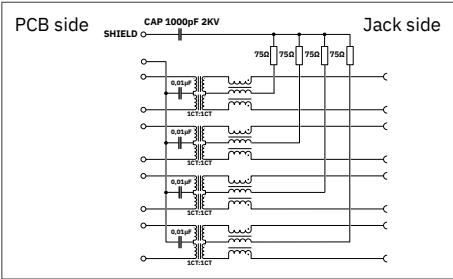


Figure 8

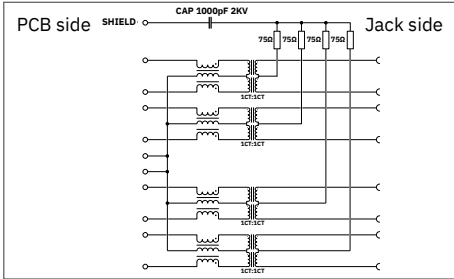


Figure 9

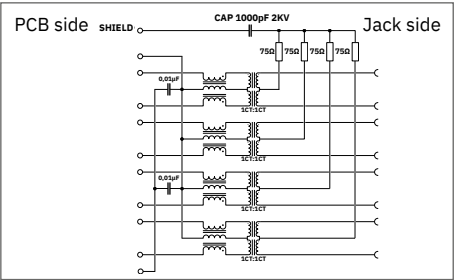


Figure 10

RJ45

RJ45 jack insert

 Web code: #0329				
	Cable module		Coupler module	
	Connection system	Freenet	Keystone	Freenet
	CAT5	1652936	1689064	
	CAT6 _A	1418984	1086108	1086111

DIN rail adapters / marshalling panels

 Web code: #1643		
	Description	Marshalling panel
	Gray, RJ45 IDC	1100077
	Gray, RJ45 coupler module	1769127
	Gray, unassembled	1041740
	Gray, unassembled, Freenet	1422978
	Black, unassembled	1652994

RJ45 modules for the DIN rail adapter

 Web code: #1643		
	Inserts	RJ45 cable connection with IDC connection
	CAT6 _A	1041760

RJ45

RJ45 connector (Industrial Connection System)								
 Web code: #0330								
Connection technology	IDC terminal blocks							
Protocol	PROFINET				Ethernet			
Connection range	23 AWG ... 22 AWG				26 AWG ... 24 AWG			
Category	CAT5			CAT6 _A	CAT5			CAT6 _A
Cable outlet	Straight	Top	Bottom	Straight	Straight	Top	Bottom	Straight
Item no.	1421126	1421127	1421128	1149847	1421607	1421876	1421877	1149846

RJ45 connectors					
 Web code: #0330					
Protocol	Ethernet			PROFINET	Ethernet
Connection technology	IDC terminal blocks				Crimp
Connection range	26 AWG ... 24 AWG	26 AWG ... 23 AWG		22 AWG	26 AWG ... 24 AWG
CAT5		1656725	1658008	1658435	1414382
CAT6 _A	1419001				1414395

RJ45 patch cables, unshielded					
 Web code: #3628					
Transmission	CAT5 (up to 1 Gbps)				
Sheath material	PVC				
Cable design	4 x 2 x 24/7 AWG				
Shielding	UTP				
Length	0.5 m	1413086	Length	5.0 m	1410694
	1.0 m	1410595		10.0 m	1412973
	2.0 m	1410596		15.0 m	1412971
	3.0 m	1413019		20.0 m	1412974

RJ45

INDUSTRIAL patch cables									
 Web code: #2675									
Protocol		PROFINET / EtherCAT® / Sercos®							
Transmission		CAT5 (up to 100 Mbps)							
Cable		93B/93C/93K/93M/93R							
Configurable item ¹⁾		1247656				1247661			
Cable		93B	93C	93M	93K	93B	93C	93M	93K
Length	0.3 m	1113825	1112940	1112926	1112932	1112878	1112872	1113337	
	0.5 m	1112785	1112939	1112925	1112931	1112877	1112871	1113336	
	1.0 m	1112817	1112937	1112924	1112930	1112876	1112857	1113335	
	2.0 m	1112820	1112936	1112923	1112929	1112875	1112870	1113334	
	3.0 m	1112823	1112935	1112921	1112928	1112874	1112869	1113333	1112858
	5.0 m	1112856	1112933	1112920	1112927	1112873	1112868	1113332	1113178
									
Configurable item ¹⁾		1247660	1247629	1247652	1247633	1247630	1247634	1247658	1247649
Cable		93B							
Length	0.3 m	1113311	1113322	1113292	1113297	1113302	1113308	1113318	1113314
	0.5 m	1113304	1113321	1113291	1113295	1113301	1113307	1113317	1113313
	1.0 m	1113310	1113320	1113290	1113294	1113299	1113306	1113316	1113312
	2.0 m	1113309	1113319	1113289	1113293	1113298	1113305	1113315	1113303
	5.0 m								1113217

INDUSTRIAL patch cables									
 Web code: #2675									
Protocol		Ethernet							
Transmission		CAT5 (up to 1 Gbps)				CAT6 _A (up to 10 Gbps)			
Cable		94B / 94C / 94D				94F			
Configurable item ¹⁾		1247639		1247647		1387606		1387607	
Cable		94C		94C		94F		94F	
Length	0.3 m	1112919		1113213		1112911		1113205	
	0.5 m	1112918		1113331		1113823		1113204	
	1.0 m	1112916		1113212		1112909		1113202	
	2.0 m	1112914		1113211		1112908		1113198	
	3.0 m	1112913		1113210		1112907		1113197	
	5.0 m	1112912		1113209		1112906		1113196	

Standard item in fixed length (other lengths available via web code #2675)

¹⁾ Configurable cable and length between 0.5 m and 90 m

RJ45

RJ45 patch cables						
 Web code: #2676						
Transmission		CAT5 (up to 1 Gbps)	CAT6 _A (up to 10 Gbps)			
Sheath material		LSZH				
Cable design		4 x 2 x 26/7 AWG				
Shielding		S/UTP	S/FTP			
Length	0.3 m	1227558	1227572	1697689	1698015	1697671
	0.5 m	1227559	1227573	1697691	1698016	1697672
	1.0 m	1227560	1227575	1697692	1698017	1697673
	1.5 m	1227561	1227578	1697693	1698018	1697675
	2.0 m	1227562	1227580	1697694	1698019	1697676
	3.0 m	1227563	1227581	1697696	1698020	1697677
	5.0 m	1227564	1227583	1697697	1698021	1697678
	7.5 m	1227565	1227585	1697698	1698022	1697679
	10.0 m	1227566	1227588	1697703	1698023	1697680
	12.5 m	1227567	1227590	1697704	1698024	1697685
	15.0 m	1227570	1227591	1697705	1698025	1697686
	20.0 m	1227571	1227593	1697706	1698027	1697688
						
Transmission		CAT6 _A (up to 10 Gbps)				
Shielding		S/FTP				
Length	0.3 m	1523697	1698001	1697660	1639416	1698028
	0.5 m	1523698	1698002	1697662	1639417	1698029
	1.0 m	1523699	1698003	1697663	1639418	1698030
	1.5 m	1523700	1698004	1697664	1639419	1698031
	2.0 m	1523701	1698005	1367338	1639421	1698032
	3.0 m	1523702	1698006	1697665	1639423	1698033
	5.0 m	1523703	1698007	1367339	1639424	1698034
	7.5 m	1523704	1698008	1697666	1639425	1698035
	10.0 m	1523705	1698009	1697667	1639426	1698036
	12.5 m	1523707	1698010	1697668	1639427	1698037
	15.0 m	1523708	1698011	1697669	1639428	1698038
	20.0 m	1523709	1698012	1697670	1639429	1698040

Version 6

The version 6 data connectors from Phoenix Contact are a cost-effective option for IP-protected connectors. The portfolio includes versions with IDC and crimp connection for CAT5 and CAT6_A applications, as well as preassembled patch cables. In addition to the data connectors, panel-mount frames and other accessories are available for a reliable IP-protected connection.



RJ45 connectors (IP67)				
 Web code: #0329				
	IDC	Crimp	IDC	Crimp
	5 mm ... 8.5 mm			
	26 AWG ... 23 AWG	26 AWG ... 24 AWG	26 AWG ... 23 AWG	26 AWG ... 24 AWG
	Gray		Black	
CAT5	1656990	1414383 ¹⁾	1658493	1414408 ¹⁾
CAT6 _A		1414406 ¹⁾		1414410 ¹⁾

¹⁾ Tool 1653265 required

Version 6 assembled patch cables (IP6x)						
						
Protocol	Ethernet					
Transmission	CAT5 (up to 1 Gbps)	CAT5 (up to 100 Mbps)	CAT5 (up to 1 Gbps)	CAT5 (up to 100 Mbps)	CAT5 (up to 1 Gbps)	CAT5 (up to 100 Mbps)
Cable	94B / 94C / 94 D	93E	94B / 94C / 94D	93E	94B / 94C / 94 D	93E
Configurable item ¹⁾	1411839	1411828	1411846	1411835	1411843	1411832
						
Protocol	Ethernet					
Transmission	CAT6 _A (up to 10 Gbps)					
Cable	94F					
Configurable item ¹⁾	1415639	1414322	1414321			

¹⁾ Configurable cable and length between 0.2 m and 100 m

Version 6

FO connectors (IP67)	
 Web code: #0329	
Connection	FO
Fiber type	POF
Item no.	1657009

Couplings	
 Web code: #0329	
Description	Coupling
Connections	1 x RJ45/RJ45
Gray	1689268
Black	1658684

Panel-mount frames				
 Web code: #0329				
Panel cutout	Circular		Square	
Color	Gray	Black	Gray	Black
For Keystone modules	1689844	1658053	1689080	1658642
For Freenet modules	1653744	1658668		
For PCB modules ¹⁾			1689446	1658655

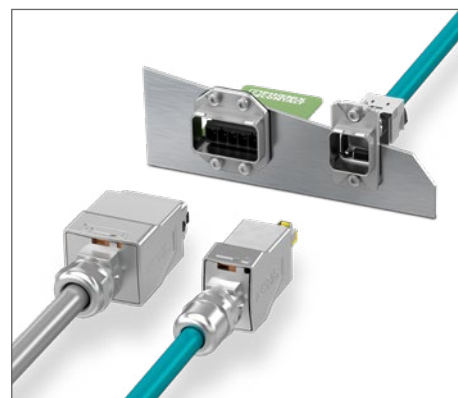
¹⁾ For corresponding modules, see page 20

Accessories			
 Web code: #0329			
Description	Protective cover, for covering the contact insert in the panel-mount frame		Protective cover, for covering the pin inserts in the sleeve housing
Color	Gray	Black	Gray
Item no.	1652606	1658066	1653757

Version 14

The version 14 push-pull ADVANCE connectors enable the high IP65/ IP67 protection classes in PROFINET and Ethernet cabling. With their 360° shielding and optimum mechanical locking mechanism, the connectors provide maximum safety when used in the field.

Version 14 push-pull connectors for FO cabling and power cabling round out the portfolio. With the matching panel-mount frames and push-pull outlets, you get a complete solution for industrial applications.



RJ45 connectors

 Web code: #0325				
Connection technology	IDC terminal block			Crimp
Cable outlet	Straight		Bottom	Straight
Connection range	26 AWG ... 24 AWG	23 AWG ... 22 AWG	23 AWG ... 22 AWG	26 AWG ... 24 AWG
CAT5	1422661	1422664	1422665	
CAT6 _A	1149841	1149843		1422108

RJ45 connectors (plastic)

 Web code: #0325				
Connection technology	IDC terminal blocks		Crimp	
Position/contacts	8P4C	8P8C	8P8C	8P8C
Connection range	22 AWG	26 AWG ... 23 AWG	26 AWG ... 24 AWG	26 AWG ... 24 AWG
CAT5	1608126	1657834	1608139	
CAT6				1422205

FO connectors

 Web code: #0334		
Fiber type	POF	PCF
Material	Die-cast zinc	Metal
Cable outlet	Straight	Straight
Item no.	1407896	1608045

Version 14

Version 14 assembled PROFINET patch cables (IP6x) up to 100 Mbps						
						
Protocol	PROFINET					
Transmission	CAT5 (up to 100 Mbps)					
Cable	937 / 93B / 93C / 93R / 93M					
Configurable item ¹⁾	1411859	1411860	1411866	1411867	1411863	1411864

¹⁾ Configurable cable and length between 0.2 m and 100 m

Version 14 assembled Ethernet patch cables (IP6x) up to 10 Gbps						
						
Protocol	Ethernet					
Transmission	CAT6 _A (up to 10 Gbps)					
Cable	94F					
Configurable item ¹⁾	1415637	1415638	1414323	1414324	1411855	1411856

¹⁾ Configurable cable and length between 0.2 m and 100 m

Version 14

Version 14 assembled Ethernet patch cables (IP6x) up to 1 Gbps						
						
Protocol	Ethernet					
Transmission	CAT5 (up to 1 Gbps)	CAT5 (up to 100 Mbps)	CAT5 (up to 1 Gbps)	CAT5 (up to 100 Mbps)	CAT5 (up to 1 Gbps)	CAT5 (up to 100 Mbps)
Cable	94B / 94C / 94D	93E	94B / 94C / 94D	93E	94B / 94C / 94D	93E
Configurable item ¹⁾	1411840	1411829	1411841	1411830	1411844	1411833
						
Protocol	Ethernet					
Transmission	CAT5 (up to 1 Gbps)	CAT5 (up to 100 Mbps)	CAT5 (up to 1 Gbps)	CAT5 (up to 100 Mbps)	CAT5 (up to 1 Gbps)	CAT5 (up to 100 Mbps)
Cable	94B / 94C / 94D	93E	94B / 94C / 94D	93E	94B / 94C / 94D	93E
Configurable item ¹⁾	1411845	1411834	1411847	1411836	1411848	1411837

¹⁾ Configurable cable and length between 0.2 m and 100 m

Panel-mount frames and inserts					
 Web code: #0325					
Panel cutout	Square			Circular	Square
Panel-mount frame, unassembled	For PCB modules			For Freenet modules	For Freenet modules
Item no.	1413963			1405222	1608197
Panel-mount frame, assembled	CAT6 _A cable connection	CAT6 _A coupler module	SC-RJ coupling	SC-RJ coupling Freenet system	SC-RJ coupling Freenet system
Item no.	1413961	1413962	1413964	1405235	1405374

Version 14

Accessories			
 Web code: #0325			
Description	Protective cap	Protective covers	Protective covers
Accessories for	Connectors	Panel-mount frames	
Degree of protection	IP65	IP65/IP67	
Item no.	1405316	1413985	1413970

RJ45 modules and couplings				
 Web code: #0325				
Description	RJ45 cable module for V14 panel-mount frames	RJ45 coupler module for V14 panel-mount frames	RJ45 V14 coupling	SC-RJ V14 coupling
CAT5	1652936		1405183	
CAT6_A	1418984	1086111		
FO				1405206

Multiports			
 Web code: #0325			
Connections	Power	RJ45	Power / RJ45
Connection range	18 AWG ... 13 AWG	26 AWG ... 22 AWG	18 AWG ... 13 AWG 26 AWG ... 22 AWG
Cable module	1403681	1403678	1403682
Coupling module	1403684	1403685	

Version 14

Power connectors				
 Web code: #0341				
	18 AWG ... 13 AWG			
Connection range				
Coding	Fixed		Variable	
External cable diameter	6.5 mm ... 9 mm	9 mm ... 13 mm	6.5 mm ... 9 mm	9 mm ... 13 mm
Item no.	1421785	1421783	1425515	1425514

Assembled panel-mount frames			
 Web code: #0341			
Panel cutout	Square		
Connection range	18 AWG ... 13 AWG		
Assembly	Fixed coding	Variable coding	Unassembled, for PCB connection
Item no.	1608249	1408235	1608087

Push-pull power contact inserts		
 Web code: #0321		
Orientation	90° horizontal	180° vertical
Item no.	1657915	1609565

Power distributors		
 Web code: #0341		
Cable	5 x 2.5 mm² / 0.2 m cable length	
Description	Y distributor	H distributor
Connections	2 x push-pull / 1 x push-pull	2 x push-pull / 2 x push-pull
Item no.	1404799	1405387

Power accessories				
 Web code: #0341				
Description	Protective cap	Coding profile	Protective covers	Coding section
Accessories for	Connectors	Connectors, variable	Panel-mount frames	Panel-mount frames, variable
Degree of protection	IP65		IP65/IP67	
Item no.	1405329	1734634	1424989	1734401

M12

For demanding applications, Phoenix Contact offers a broad product portfolio of circular connectors for all common networks and fieldbus systems in size M12.

Various numbers of positions and codings are available for device connectors, preassembled patch cables, and circular connectors designed for assembly with different connection technologies.



M12 device connectors with assembled cable

 Web code: #0222								
Category/version		CAT5, 93E	CAT5, 93B		CAT5, 93K		CAT5, 94H	CAT6 _A , 94F
		Female	Male	Female	Male	Female	Female	Female
Length	0.5 m	1413936	1437805	1437766	1419158	1419154	1407504	1424135
	1.0 m		1437818	1437779	1419159	1419155	1407505	1424148
	2.0 m	1405866	1437821	1437782	1419160	1419156	1407506	1424151
	5.0 m		1437834	1437795	1419161	1419157	1407507	1424164

Standard item in fixed length (other lengths available via web code #0222)

M12 device connectors to RJ45

 Web code: #3760								
Coding		A-coded		D-coded				X-coded
Category/version		CAT5, 94B	CAT5, 94C	CAT5, 93E	CAT5, 93B	CAT5, 93C	CAT5, 93K	CAT6 _A , 94F
		Female	Female	Female	Female	Female	Female	Female
Length	0.5 m	1403535		1404205	1404367			1417828
	1.0 m	1418004		1404206	1404368			1412315
	2.0 m		1413095	1406085	1416158	1416212	1419167	1412316
	5.0 m	1412082		1404208	1404369			1419482

Standard item in fixed length (other lengths available via web code #3760)

M12

M12 PCB connector

 Web code: #0222



Network	Technology	Wave soldering		THR		SMD	
		Male	Female	Male	Female	Male	Female
Ethernet	CAT5, 4-pos.	1456514	1456527	1552214	1551451	1411956	1411950
	CAT5, 8-pos.	1456530	1456543	1557581	1551422	1411959	1411953
	CAT5, 8-pos., hybrid		1407503		1405225		1411965
	CAT6 _A , 8-pos.		1424177		1402457		1411964
PROFINET	4-pos.	1456556	1456569				
Sercos®	4-pos.	1457979	1457966				
EtherCAT™	4-pos.	1456556	1456569				
PROFIBUS	5-pos.	1456475	1456488				
INTERBUS	5-pos.	1456572	1456585				
CANopen®, EtherNet/IP™	5-pos.	1456491	1456501				
CC-Link	4-pos.	1457856	1457869				
FOUNDATION Fieldbus	4-pos.	1457872					

Corresponding housings can be found under web code [#0214](#) and web code [#0215](#)

M12 conductor connectors with IDC, shielded

 Web code: #0249



Number of positions	3-pos.	4-pos.	4-pos.	8-pos.
Fieldbuses/networks	PROFIBUS DP	PROFINET	Ethernet	Ethernet CAT6 _A
Conductor cross-section	0.25 mm² ... 0.75 mm²	0.14 mm² ... 0.5 mm²	0.14 mm² ... 0.5 mm²	0.14 mm² ... 0.34 mm²
Item no.	1420426	1414416	1414415	1414412

M12

M12 connector, designed for assembly												
 Web code: #0338												
			Push-Lock connection		IDC connection		Piercecon connection		Crimp connection ²⁾		Screw connection	
			Straight	Angled	Straight	Angled	Straight	Angled	Straight	Angled	Straight	Angled
Networks												
Ethernet	CAT5, 4-pos.	Male			1411066	1553624 ¹⁾					1521261	
		Female			1411069	1553637 ¹⁾						
	CAT5, 8-pos.	Male			1421679	1553653 ¹⁾						
		Female			1421680	1553666 ¹⁾						
	CAT6 _A , 8-pos.	Male			1411043		1417430	1417443				
		Female			1414586							
PROFINET		Male	1424682	1424684	1411068	1554539 ¹⁾			1422846	1422847	1521261	
		Female	1424683	1424685	1411071	1554542 ¹⁾			1422848	1422849		
PROFINET CAT6 _A		Male							1422844	1422845		
VARAN		Male			1429130	1429156						
		Female			1429143	1429169						
Fieldbuses												
INTERBUS		Male	1424674	1424675							1507764	1430417
		Female	1424676	1424677							1507777	1430420
PROFIBUS		Male	1424678	1424679	1413931	1413933					1507764	1430417
		Female	1424680	1424681	1413932	1413934					1507777	1430420
CANopen®, DeviceNet™		Male	1424670	1424671	1422759						1508352	
		Female	1424672	1424673	1422760						1508365	
CC-Link		Male	1424699									
		Female	1424700									

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

²⁾ Corresponding crimp contacts can be found in the e-shop via web code #0023

M12 push-pull connectors, for assembly									
 Web code: #3213									
			Push-Lock		Crimp connection ¹⁾		Crimp connection ¹⁾		
			Push-pull internal locking					Push-pull external locking	
			Straight	Angled	Straight	Angled	Straight	Angled	
Networks									
Ethernet	CAT6 _A , 8-pos.	Male			1489580	1489579			
PROFINET	CAT5, 4-pos.	Male	1438182	1438184			1021830	1021831	
		Female	1438183	1438185			1021832	1021834	
	CAT6 _A , 8-pos.	Male					1021783	1021784	

¹⁾ Corresponding crimp contacts can be found in the e-shop via web code #0023

M12

M12 T distributor					
 Web code: #4004					
Coding		A		B	A
Networks	Number of positions	uSH	SH	SH	uSH
CANopen™	5-pos.	1424712	1256941		
DeviceNet™	5-pos.	1424712	1256941		
PROFIBUS	5-pos.			1424711	
				1424713	
CC-Link	4-pos.				1559783

M12 Y distributor with cable outlet				
 Web code: #4005				
Coding		A		
Networks	Number of positions	SH		
CANopen™	5-pos. ¹⁾	1436013	1436123	1436097
DeviceNet™				

¹⁾ Further lengths available via web code [#4005](#)

IP20/IP6X control cabinet feed-through			
 Web code: #0339			
Protocol	Ethernet		PROFINET
Coding	A	X	D
Transmission	CAT5 (up to 1 Gbps)	CAT6 _A (up to 10 Gbps)	CAT5 (up to 100 Mbps)
Orientation 180°	1414396	1404549	1414398
Orientation 90°	1414393	1404548	1414397

M12

Assembled M12 fieldbus cabling										
 Web code: #0284										
Protocol		FOUNDATION Fieldbus/ PROFIBUS PA		FOUN- DATION Fieldbus	CC-Link	DeviceNet™/CANopen*		PROFIBUS	INTERBUS	
Number of positions		3-pos.			4-pos.	5-pos.		2-pos.	5-pos.	
Coding		A, straight	A, angled	A, straight	A, straight	A, straight	A, angled	B, straight	B, straight	B, angled
Straight or angled male, free cable end										
Length	1.0 m					1528581				
	2.0 m	1419092		1431173	1558328	1507421		1507243	1507065	
	5.0 m	1419093		1431186	1558331	1507434		1507256	1507078	
	10.0 m			1431199	1558344	1507447		1507269	1507081	
	Variable ¹⁾					1538102	1431089	1538047	1537983	1430970
Straight or angled female, free cable end										
Length	2.0 m	1419082	1419087		1558360	1507476		1507298	1507117	
	5.0 m	1419083	1419088		1558373	1507489		1507308	1507120	
	10.0 m	1419084	1419089		1558386	1507492		1507311	1507133	
	Variable ¹⁾					1538128	1431092	1538063	1538005	1430983
Straight or angled male, straight female										
Length	1.0 m		1419112		1558425	1507544		1507366	1507188	
	2.0 m	1419105		1431283	1558438	1507557		1507379	1507191	
	5.0 m	1419106			1558441	1507560		1507382	1507201	
	10.0 m	1419107	1419115		1558454	1507573		1507395	1507214	
	Variable ¹⁾					1538144	1431115	1538089	1538021	1431005
Straight or angled male, angled female										
Length	1.0 m	1419120								
	2.0 m		1419129							
	5.0 m		1419130							
	Variable ¹⁾					1431102	1431128		1430996	1431018
Straight or angled male, angled male										
Length	2.0 m						1543935			
	5.0 m						1543919			
	Variable ¹⁾						1433171			
Straight or angled male, straight male										
Length	1.0 m					1525775				
Termination resistors, M12 male										
		1431403			1558470	1507816		1507803		

¹⁾ Configurable length between 0.2 m and 40.0 m

M12

Assembled M12 Ethernet cabling

 Web code: #0284



Protocol	Ethernet					
Number of positions	8-pos.			4-pos.		
Coding	A			D		
Version	Male, straight	Male, angled	Male, straight	Male, angled	Female, straight	Female, angled

Free cable end

Length	1.0 m			1407356		1407380		
	2.0 m			1407357		1407381		
	5.0 m			1407358		1407382		
	10.0 m			1407359		1407383		
	Variable ¹⁾	1408682	1408675	1408713	1408705	1408697	1408690	

Male, straight

Length	1.0 m			1407376		1407400		
	2.0 m			1407377		1407401		
	5.0 m			1407378		1407402		
	10.0 m			1407379		1407403		
	Variable ¹⁾	1408676		1408706		1408692		

Male, angled

Length	1.0 m							
	2.0 m							
	5.0 m							
	10.0 m							
	Variable ¹⁾	1408667	1408666	1408700	1408699			

Female, straight

Length	1.0 m							
	2.0 m							
	5.0 m							
	10.0 m							
	Variable ¹⁾			1408692	1408691			

Female, angled

Length	1.0 m							
	2.0 m							
	5.0 m							
	10.0 m							
	Variable ¹⁾			1408684	1408683			

RJ45 connector

Length	1.0 m							
	2.0 m							
	5.0 m							
	10.0 m							
	Variable ¹⁾	1408681	1408674	1408712	1408704	1408696	1408689	

Version 14, metal

Length	Variable ¹⁾	1408678	1408670	1408709	1408702	1408694	1408687	
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Version 14, plastic

Length	Variable ¹⁾	1408677	1408668	1408707	1408701	1408693	1408686	
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Version 6

Length	Variable ¹⁾	1408679	1408671	1408710	1408703	1408695	1408688	
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¹⁾ Configurable cable and length between 0.2 m and 85.0 m

M12

						
Ethernet						
8-pos.						
X				Y		
Male, straight	Male, angled	Female, straight	Female, angled	Male, straight	Female, straight	
1407467	1080716			1276293	1149275	
1407468	1080717			1276291		
1407469	1080718			1276289	1149280	
1407470	1080719			1276287	1149285	
1408648	1295150	1295156	1295162	1327461	1327464	
1407483				1275330		
1407484				1274101	1057782	
1407485				1276285		
1407486				1328195		
1408644				1327466	1327468	
1080724	1080720					
1080725	1080721				1340769	
1080726	1080722					
1080727	1080723			1340750	1340770	
1295152	1295153	1295154		1327467		
1080742					1146441	
1080743					1146442	
1080744					1146448	
1080745					1146451	
1295161		1295158			1327477	
1080751						
1080752	1054099					
1080753						
1080754						
1295164	1295155	1295159		1327469	1327478	
		1080733				
		1080734				
		1080736				
		1080737				
1408647	1295151	1295157	1295163			
1408646						
1408645						

M12

Assembled M12 Ethernet cabling, push-pull					
 Web code: #3661					
Protocol		Ethernet			
Number of positions		8-pos.		4-pos.	
Coding		X		D	
Version		Male, straight	Female, straight	Male, straight	Female, straight
Free cable end					
Length	1.0 m	1584465	1584461	1476008	1476016
	2.0 m	1584464	1584459	1476012	1476018
	5.0 m	1584463	1584457	1476013	1476019
	10.0 m	1584462	1584456	1476014	1476020
Male, straight					
Length	1.0 m	1584440		1476055	
	2.0 m	1584439		1476054	
	5.0 m	1584437		1476051	
	10.0 m	1584432		1476048	
Female, straight					
Length	1.0 m	1584446		1476045	
	2.0 m	1584445		1476046	
	5.0 m	1584442		1476058	
	10.0 m	1584441		1476056	
RJ45 connector					
Length	1.0 m	1584454	1584450	1476023	1476029
	2.0 m	1584453	1584449	1476024	1476030
	5.0 m	1584452	1584448	1476025	1476031
	10.0 m	1584451	1584447	1476027	1476032

Assembled M12 PROFINET cabling					
 Web code: #0284					
Protocol		PROFINET			
Number of positions		4-pos.			
Coding		D			
Version		Male, straight	Male, angled	Female, angled	Female, straight
Free cable end					
Length	1.0 m	1407495			1407528
	2.0 m	1407496			1407529
	5.0 m	1407497			1407530
	10.0 m	1407498			1407531
	Variable ¹⁾	1408640	1408633	1408615	1408623
Male, straight					
Length	1.0 m	1407524			1407553
	2.0 m	1407525			1407554
	5.0 m	1407526			1407555
	10.0 m	1407527			1407556
	Variable ¹⁾	1408634		1408608	1408617
Male, angled					
Length	Variable ¹⁾	1408625	1408624	1408607	
Female, straight					
Length	Variable ¹⁾		1408616		
RJ45 connector, straight					
Length	Variable ¹⁾	1408639	1408632	1408613	1408622
RJ45 connector, angled					
Length	Variable ¹⁾	1408638	1408631	1408612	1408621
Version 14, metal					
Length	Variable ¹⁾	1408636	1408628	1408610	1408619
Version 14, plastic					
Length	Variable ¹⁾	1408635	1408626	1408609	1408618

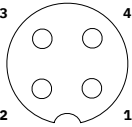
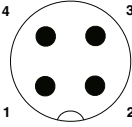
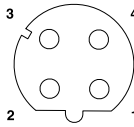
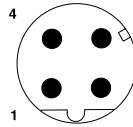
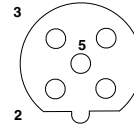
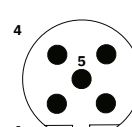
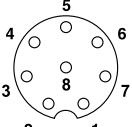
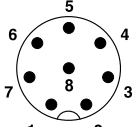
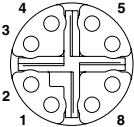
¹⁾ Configurable cable and length between 0.2 m and 85.0 m

M12

M12 accessories								
 Web code: #0559								
	Female				Female	Male	Female	Male
Description	Screw plug				Sealing caps with fastening strap			
	Plastic	Metal		Stainless steel V4A	Plastic		Metal	
Degree of protection	IP65/IP67	IP67		IP69K	IP65/IP67		IP69K	
Item no.	1680539 ¹⁾	1503302 ¹⁾	1320658	1555538	1430899	1430873	1320659	1430491 ²⁾
								
	Male		Female	Male	Female		Male	
Description	Sealing cap		Sealing element for unused housing cutouts					
	Plastic	Metal	Plastic			Metal		
Degree of protection	IP65/IP67		IP65			IP65/IP67		
Item no.	1560251 ¹⁾	1430488 ²⁾	1670235			1453368 ²⁾		

Further accessories via web code #0559
¹⁾ Can also be used for push-pull with duo contour
²⁾ No items yet available with reduced lead content below 0.1%

M12, pin assignments and wire colors

Pin assignments of M12 data connectors					
 Female, 4-pos., A-coded	 Male, 4-pos., A-coded	 Female, 4-pos., D-coded	 Male, 4-pos., D-coded	 Female, 5-pos., B-coded	 Male, 5-pos., B-coded
 Female, 8-pos., A-coded	 Male, 8-pos., A-coded	 Female, 8-pos., X-coded	 Female, 8-pos., Y-coded		

M12, pin assignments and wire colors

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

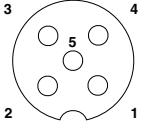
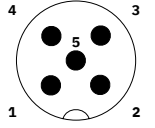
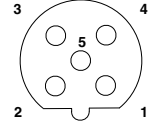
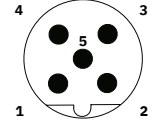
Wire colors		
Assignment: DeviceNet™, CANopen™		
Pin	5-pos., A-coded	Signal
1	Shield	Drain
2	RD	V+
3	BK	V–
4	WH	CAN_H
5	BU	CAN_L
Shield on housing		
Assignment: PROFINET, EtherCAT®, Sercos		
Pin	4-pos., D-coded	Signal
1	YE	TD+
2	WH	RD+
3	OG	TD–
4	BU	RD–
Assignment: AS-Interface		
Pin	4-pos., A-coded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

Wire colors		
Assignment: Ethernet		
Pin	4-pos., D-coded	Signal
1	WHOG	TD+
2	WHGN	RD+
3	OG	TD–
4	GN	RD–
Shield on housing		
Assignment: CC-Link		
Pin	4-pos., A-coded	Signal
1	Shield	SLD
2	WH	DS
3	YE	DG
4	BU	DA

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

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

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

Pin assignments of M12 signal connectors			
 Female, 5-pos., A-coded	 Male, 5-pos., A-coded	 Female, 5-pos., B-coded	 Male, 5-pos., B-coded

Wire colors		
Assignment: M12 male / female		
Pin	5-pos., A-coded	5-pos., B-coded
1	BN	BN
2	WH	WH
3	BU	BU
4	BK	BK
5	GY	GY

M8

In addition to M12 circular connectors, Phoenix Contact also provides preassembled M8 circular connectors. These are available with A and D coding (4-pos.) and with B coding (5-pos.). They enable the reliable transmission of signals and data.



Assembled M8 fieldbus cabling					
 Web code: #1656					
Protocol		DeviceNet™/CANopen®		INTERBUS	
Number of positions		5-pos.		4-pos.	
Coding		B, straight	B, angled	A, straight	A, angled
Straight or angled male, free cable end					
Length	1.0 m				
	2.0 m	1575712		1543249	1550850
	5.0 m	1575725		1543252	1550863
	10.0 m			1543265	1550876
	Variable ¹⁾	1575767	1575903		
Straight or angled female, free cable end					
Length	2.0 m	1575770		1543294	1550902
	5.0 m	1575783		1543304	1550915
	10.0 m	1575796			
	Variable ¹⁾	1575819	1575916		
Straight or angled male, straight female					
Length	1.0 m	1575848		1543537	
	2.0 m	1575851		1543359	
	5.0 m	1575864		1543362	
	10.0 m	1575877		1543375	
	Variable ¹⁾	1575893	1575932		
Straight or angled male, angled female					
Length	1.0 m				1550986
	2.0 m				1550999
	5.0 m				1551008
	10.0 m				1551011
	Variable ¹⁾		1575945		
Termination resistors, M8 male					
		1435988			

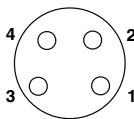
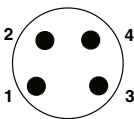
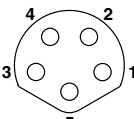
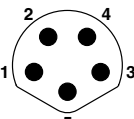
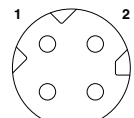
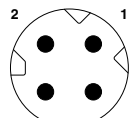
¹⁾ Configurable length between 0.2 m and 40.0 m

Assembled M8 PROFINET cabling					
 Web code: #1656					
Protocol		PROFINET			
Number of positions		4-pos.			
Coding		A		D	
Version		Male, straight	Female, straight	Male, straight	Female, angled
Free cable end					
Length	1.0 m	1407344		1423703	1080526
	2.0 m	1407345		1423704	1080528
	5.0 m	1407346		1423705	1080530
	10.0 m	1407347		1423706	1080531
	Variable ¹⁾	1408719	1408716		
Male, straight					
Length	1.0 m	1407348		1423707	1080538
	2.0 m	1407349		1423708	1080539
	5.0 m	1407350		1423709	1080540
	10.0 m	1407351		1423710	1080542
	Variable ¹⁾	1408718	1408715		
Male, angled					
Length	1.0 m				1080532
	2.0 m				1080535
	5.0 m				1080536
	10.0 m				1080537
	Variable ¹⁾				
RJ45 connector, straight					
Length	1.0 m	1407352		1423711	1080543
	2.0 m	1407353		1423712	1080544
	5.0 m	1407354		1423713	1080545
	10.0 m	1407355		1423714	1080546
	Variable ¹⁾	1408717	1408714		

¹⁾ Configurable length between 0.2 m and 40.0 m

M8 accessories			
 Web code: #0559			
		Female	Male
Description	Screw plug		Sealing caps with fastening strap
	Plastic		
Degree of protection		IP65 / IP67	
Item no.		1682540	1430860 1430857

M8, pin assignments and wire colors

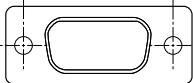
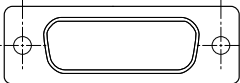
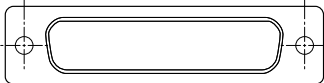
Pin assignments of M8 data connectors			
 Female, 4-pos., Ethernet	 Male, 4-pos., Ethernet	 Female, 5-pos., DeviceNet™, B-coded	 Male, 5-pos., DeviceNet™, B-coded
 Female, 4-pos., PROFINET, D-coded	 Male, 4-pos., PROFINET, D-coded		

Wire colors		
Assignment: CANopen®/DeviceNet™		
Pin	5-pos., B-coded	Signal DeviceNet™
1	Shield	Drain
2	 RD	V+
3	 WH	CAN_H
4	 BK	V-
5	 BU	CAN_L
Assignment: PROFINET		
Pin	4-pos., D-coded	Signal
1	 YE	TD+
2	 WH	RD+
3	 OG	TD-
4	 BU	RD-
Assignment: Ethernet		
Pin	5-pos., B-coded	Signal
1	 YE	TD+
2	 OG	TD-
3	 WH	RD+
4	 BU	RD-

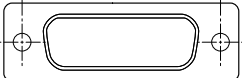
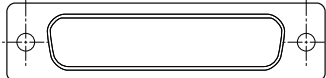
D-SUB

With an extensive D-SUB portfolio, Phoenix Contact offers solutions for the proven cabling of bus systems. The range includes robust contact carriers with different connection technologies for power and data transmission as well as matching sleeve housings in IP20 and IP6x.



D-SUB contact inserts						
 Web code: #0340	Housing size 1 25 mm  Housing size 2 33 mm  Housing size 3 47 mm 					
	Connection technology	Thread/ drill hole	Housing size	Contact connection type	Number of positions	Item no.
	Solder connection with solder cup	3 mm hole	1	Male	9-pos.	1688793
			2	Male	15-pos.	1688874
			3	Male	25-pos.	1689899
			1	Female	9-pos.	1688803
			2	Female	15-pos.	1688887
			3	Female	25-pos.	1689909
	PCB connection with angled solder pins	M3 thread	1	Male	9-pos.	1688382
			2	Male	15-pos.	1688081
			3	Male	25-pos.	1689873
			1	Female	9-pos.	1688405
			2	Female	15-pos.	1688120
			3	Female	25-pos.	1689886
	PCB connection with angled solder pins and solder plate	2.5 mm hole	1	Male	9-pos.	1654785
			2	Male	15-pos.	1654808
			3	Male	25-pos.	1654824
			1	Female	9-pos.	1654798
			2	Female	15-pos.	1654811
			3	Female	25-pos.	1654837
	Crimp connection	3 mm hole	1	Male	9-pos.	1688858
			2	Male	15-pos.	1688939
			3	Male	25-pos.	1689954
			1	Female	9-pos.	1688861
			2	Female	15-pos.	1688942
			3	Female	25-pos.	1689967

D-SUB

D-SUB contact inserts						
 Web code: #0340	Housing size 1 25 mm		Housing size 2 33 mm		Housing size 3 47 mm	
						
	Connection technology	Thread/ drill hole	Housing size	Contact connection type	Number of positions	Item no.
	Crimp connection for high-density contacts	3 mm hole	1	Female	9-pos.	1655137
			1	Female	9-pos.	1655124
	IDC connection for flat-ribbon cables	3 mm hole	1	Male	9-pos.	1688816
			2	Male	15-pos.	1688890
			3	Male	25-pos.	1689912
			1	Female	9-pos.	1688829
			2	Female	15-pos.	1688900
			3	Female	25-pos.	1689925
	Solder connection for straight combination contacts with solder cup	3 mm hole	1	Male	9-pos.	1688418
			2	Male	15-pos.	1688201
			1	Female	9-pos.	1688421
			2	Female	15-pos.	1688214
	PCB connection for angled combination contacts with solder pin	4-40 UNC thread	1	Male	9-pos.	1655292
			2	Male	15-pos.	1655331
			1	Female	9-pos.	1655289
	Screw connection for IP6x sleeve housings, panel-mount frames, and protective covers	2.5 mm hole	1	Male	9-pos.	1688379 ¹⁾
			2	Male	15-pos.	1688078 ¹⁾
			3	Male	25-pos.	1689789 ¹⁾
			1	Female	9-pos.	1688395 ¹⁾
			2	Female	15-pos.	1688094 ¹⁾
			3	Female	25-pos.	1689776 ¹⁾
	Coupling for IP6x sleeve housings, panel-mount frames, and protective covers	4-40 UNC thread	1	Male	9-pos.	1652651 ¹⁾
			2	Male	15-pos.	1652677 ¹⁾
			3	Male	25-pos.	1652693 ¹⁾
			1	Female	9-pos.	1688722 ¹⁾
			2	Female	15-pos.	1652664 ¹⁾
			3	Female	25-pos.	1652680 ¹⁾

¹⁾Corresponding sleeve housings, panel-mount frames, and protective covers for IP6x can be found on page 47.

D-SUB

D-SUB contacts			
 Web code: #0676	Connection technology	Contact connection type	Item no.
	Solder connection for power contacts with solder cup	Male	1688243
		Male	1688269
		Female	1688256
		Female	1688272
	Power contacts with solder connection for PCB mounting	Male	1655467
		Female	1655454
	Crimp connection for standard contacts 28 AWG ... 26 AWG, 24 AWG ... 20 AWG	Male	1418784
		Male	1418786
		Female	1418787
		Female	1418788
	Crimp connection for high-density contacts 28 AWG ... 22 AWG	Male	1418789
		Female	1418790

D-SUB IP20 sleeve housing					
 Web code: #0340	Material	Thread / drill hole	Housing size	Cable outlet	Item no.
	ABS, metal-plated	4-40 UNC screw thread	1	Straight	1419705
			1	Angled	1419706
			2	Straight	1419710
			2	Angled	1419718
			3	Straight	1419719
			3	Angled	1419721
	Die-cast zinc	4-40 UNC screw thread	1	Straight	1419722
			1	Angled	1419723
			2	Straight	1419724
			2	Angled	1419725
			3	Straight	1419727
			3	Angled	1419728

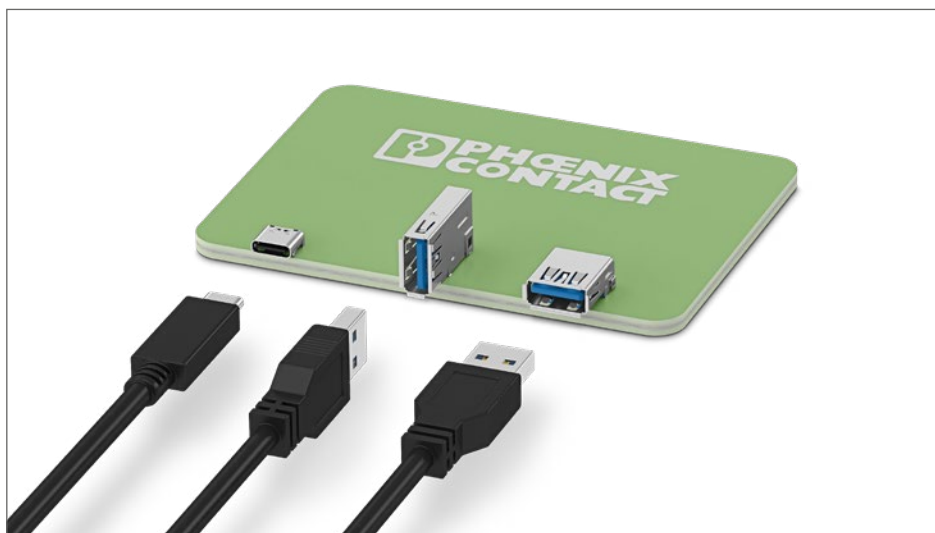
D-SUB IP6x sleeve housings, panel-mount frames, and protective covers					
 Web code: #0340	Material	Thread / drill hole	Housing size	Cable outlet	Item no.
	PA	M16 thread	1	Slanted	1688353
		Pg11 thread	2	Slanted	1688052
		M20 thread	3	Slanted	1689792
	PA		1		1688366
			2		1688036
			3		1689750
	PA, gray		1		1887086
			2		1887099
			3		1652211

D-SUB

D-SUB patch cables				
 Web code: #3207				
Housing size		1	2	3
Number of positions		9-pos.	15-pos.	25-pos.
Contact connection type		Female – male		
Sheath material		PVC		
Length	1.0 m	1656233	1656262	1656291
	2.0 m	1656246	1656275	1656301
	5.0 m	1656259	1656288	1656314

USB

Phoenix Contact provides USB PCB connectors and patch cables. Type A and type C are available in the versions USB 2.0, USB 3.0, and USB 3.2 Gen. 1/USB 3.2 Gen. 2 in a variety of combinations. The data connectors for transmission speeds up to 10 Gbps are ideal for use as a service interface or for permanent transmission in protected industrial applications. The PCB connectors are available in three outlet directions and enable automated processing for SMD, THR, and wave soldering processes.



USB PCB connectors											
 Web code: #2888											
Version	USB 2.0				USB 3.2 Gen. 1				USB 2.0	USB 3.2 Gen. 2	
Designation	USB type A								USB type C		
Orientation	90° vertical	90° horizontal	180° vertical	90° horizontal	90° horizontal	180° vertical	90° vertical	180° vertical	90° horizontal	180° vertical	90° horizontal
Mounting type	THT			SMT	THT			THR	SMT		SMT/THR
Item no.	1332630	1332631	1332632	1332634	1332637	1332638	1332636	1430989	1332645	1332646	1332643

USB patch cables					
 Web code: #2888					
USB version		USB 2.0		USB 3.2 Gen. 1	
Head 1 USB type		USB type A			USB type C
Head 2 USB type		USB type A		USB type C	
Sheath material		PVC			
Length	0.3 m	1333130	1333148	1333158	1333194
	0.5 m	1333131	1333150	1333160	1333195
	1.0 m	1333136	1333151	1333165	1333197
	1.5 m	1333137	1333153	1333166	1333210 ¹⁾
	1.8 m	1333138	1333155	1333185	1333211 ¹⁾
	2.0 m	1333139	1333156	1333187	1333213 ¹⁾
	3.0 m	1333140	1333157	1333190	1333214 ¹⁾
	5.0 m	1333145			

¹⁾ USB 3.2 Gen. 1

USB

Version 6 USB PCB connectors					
 Web code: #0335					
Description	Panel-mount frame, assembled		Panel-mount frame, unassembled		Solder connection
Connections	USB A / USB B	USB B / USB A	Freenet		M12 / mini USB
Item no.	1411904	1411905	1653744	1658668	1440711

Data Service Interfaces

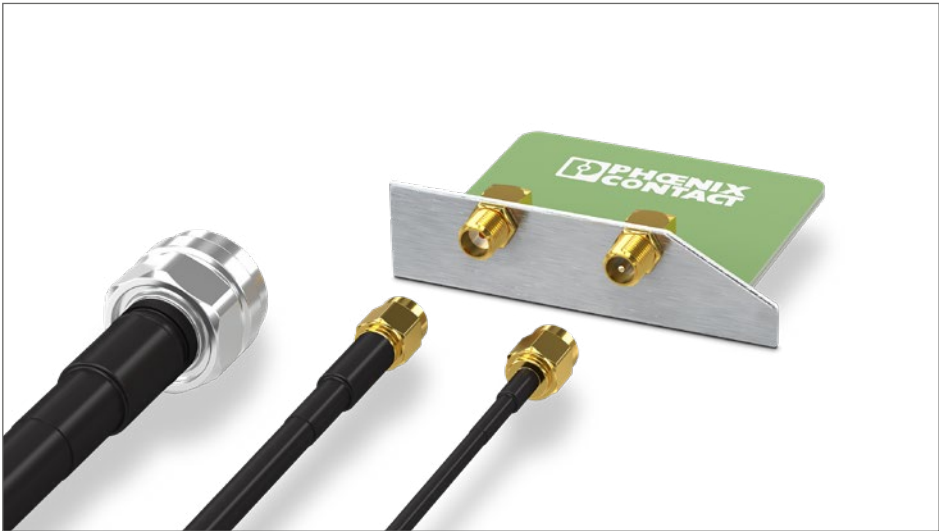
Our space-saving service interfaces with IP65/IP67 degree of protection offer a simple and convenient solution for carrying out service and maintenance work directly on the control cabinet and other devices, for example. With the integration of various interfaces such as RJ45 and USB, they enable the optimum connection of additional electrical devices.



Service interfaces				
 Web code: #3807				
Description	Coupling module	Cable connection module with IDC connection	Coupling module	Coupling module
Connections	RJ45 / RJ45	RJ45	USB-A 2.0 / USB-A 2.0	USB-A 3.0 / USB-A 3.0
Transmission	CAT6 _A (up to 10 Gbps)		USB 2.0 (25 to 400 Mbps)	USB 3.0 (up to 5 Gbps)
Connection range		AWG 26 ... AWG 22/1 AWG 27/7 ... AWG 22/7		
Item no.	1484212	1484215	1484217	1484218

Coax

The assembled coaxial cables and coaxial PCB connectors are the perfect choice for transmitting WLAN, Bluetooth, LTE, or 5G signals. The cables with N, SMA, and R-SMA series connectors are suitable for frequencies up to 7.25 GHz and have excellent attenuation properties. The use of materials with a lead content of <0.1% ensures future-proof use.



Coaxial PCB connectors				
 Web code: #2890				
Soldering process	Wave / THR	Wave	Wave / THR	Wave
Series	SMA	SMA	R-SMA	R-SMA
Orientation	90°	90° bulkhead	90°	90° bulkhead
Item no.	1340151	1340153	1340150	1340152

Assembled coaxial cables							
 Web code: #2890							
Head 1 coax type		N (m)	N (f) BH	N (m)	N (f) BH	N (m)	SMA (m)
Head 2 coax type		N (m)	R-SMA (m)	R-SMA (m)	SMA (m)	SMA (m)	SMA (f)
Length	0.5 m	1340122	1340129	1340130	1340138	1340139	
	1.0 m			1340131		1340143	
	1.5 m			1340133			
	2.0 m			1340135			
	3.0 m	1340123		1340136		1340144	
	5.0 m	1340124		1340137		1340147	1340149
	10 m	1340125					1340148
	15 m	1340126					
	30 m	1340127					

Fiber optics

Fiber optics (FO) enable safe and reliable data transmission with high data rates. For the connection of fiber optics with POF, PCF or GOF fibers, Phoenix Contact offers a comprehensive portfolio of connection and cabling components as well as components for PCB connection such as cages, PCB connectors, and transceivers. Modern fiber classes such as multimode OM4 and singlemode OS2 are suitable for applications that require high data rates, wide range of removals, and insensitivity to electromagnetic interference.



FO transceivers								
 Web code: #2893								
Type	SFP				SFP+			
Wavelength	850 nm	1,310 nm	850 nm	1,310 nm	850 nm	1,310 nm	850 nm	1,310 nm
Temperature range	-25°C ... +70°C		-40°C ... +85°C		-25°C ... +70°C		-40°C ... +85°C	
Item no.	1334209	1334212	1334210	1334213	1334214	1334218	1334215	1334219

Cages and PCB connectors			
 Web code: #2893			
Type	SFP/SFP+		
Mounting	Press-fit		SMD
Module slots	1	2	
Item no.	1334220	1334221	1334224

FO coupling modules	
 Web code: #1643	
Inserts	FO coupling module
LC duplex	1041780
SC simplex	1041800

DIN rail adapters / marshalling panels			
 Web code: #1643			
Description	DIN rail adapters	Marshalling panel	
Gray, assembled with SC-RJ	1658121		
Gray, unassembled	1041740	1422978	1409283 ¹⁾ /1407994 ¹⁾
Black, unassembled		1422979	1409284 ¹⁾

¹⁾ Screw set accessories 1407989

Fiber optics

FO splice boxes, FDX 20 series, IP20

 Web code: #0336						
	DIN rail mounting					
	6 x LC duplex	12 x LC duplex	6 x SC duplex	6 x ST duplex 6 x SC duplex	6 x ST duplex 6 x ST duplex	6 x LSH duplex
Without pigtails, multimode, polymer couplings	1019710	1019705	1019686			
Without pigtails, multimode, metal couplings	1343385		1343387	1343388	1343383	
Without pigtails, singlemode, polymer couplings	1343386	1565846	1084827			
Without pigtails, singlemode, metal couplings					1343384	
OM1 (G62.5/125 µm)	1343377		1343380	1019684		1335178
OM2 (G50/125 µm)	1019713	1019709	1019700	1019683		
OM3 (G50/125 µm)	1343378		1343381			
OM4 (G50/125 µm)	1019712	1019708	1019698			
OS2 UPC (E9/125 µm)	1019711	1019707	1019692	1019682		
OS2 APC (E9/125 µm)	1083665		1343382			1019680

FO splice boxes, FDX 20 series, 19" mounting

 Web code: #0336						
	12 x LC duplex	24 x LC duplex	12 x SC duplex	24 x SC duplex	12 x ST duplex	24 x ST duplex
OM1 (G62.5/125 µm)					1145399	1145389
OM2 (G50/125 µm)		1145375	1145408	1145407	1145398	
OM4 (G50/125 µm)	1145415	1145413				
OS2 UPC (E9/125 µm)	1145411	1145409	1143631	1145400		1145392

FO splicing accessories

 Web code: #2875					
	Splicing protection			Splicing protection holder	
Mounting	Shrink	Crimp	Shrink	Splicing protection fixing, 12-pos.	Splicing protection fixing, 6-pos.
Dimensions	1.3 x 30 mm	1.2 x 30 x 3 mm	2.4 x 45 mm	Ø 1.2 ... 1.3 mm	Ø 2.4 mm
Item no.	1019676	1019678	1469294	1086804	1469293

Fiber optics

FO connectors – POF

 Web code: #0332							
	Connectors		Tools		Measuring case	Meas. cable set	Microscope
	Type	SC-RJ F-SMA	SC-RJ	wF-SMA	F-SMA/ST	SC-RJ	2.5 mm ferrules
	Item no.	1654879 2799720	1658820	2744131	2799539	2901560	2744898

FO connectors – PCF

 Web code: #0332							
	Type	SC-RJ	ST	SC	SC-RJ	ST	F-SMA
	Cable diameter	ø (2.2 mm)			ø (2.9 mm)		
	Connectors	1404087	2313782	2313779	1654866	2708481	2799487
Tool set	2708876	2708465	2708876	2708876	2708465	2799526	

FO connectors – GOF

 Web code: #0332			
	Type	2 x LC simplex	SC duplex
	MM	1089521	1089518
	SM UPCSM UPC	1089520	1089517
	SM APC	1089519	1089516
Tool set	1089515		

FO couplings – GOF, PCF, and POF

 Web code: #2678							
Type	LC duplex	SC duplex	ST duplex	ST duplex SC duplex	ST simplex	F-SMA	SC-RJ
Multimode	1207355	1208081					1652978
Multimode metal	1208069	1208083	1208094	1208096	1208099	2799416	
OM3	1208070	1208084					
OM4	1208072	1208085					
Singlemode	1208073	1208086	1208095	1208098	1208100		1652978
Singlemode APC	1208077	1208088					

Fiber optics

FO accessories					
 Web code: #3585					
Description	Cleaning tool for connectors			Cleaning stick for couplings and end surfaces	
Application	For M17 MPO/ MT ferrules	2.5 mm ferrules	1.25 mm ferrules	1.25 mm sleeves	2.5 mm sleeves
Item no.	1111534	1407029	1407032	1407000	1407002

FO pigtail sets						
 Web code: #2678						
Type	OM1	OM2	OM3	OM4	OS2 UPC	OS2 APC
LC	1250833	1208101	1208103	1208104	1208105	1208106
SC	1208107	1208109	1208111	1208112	1208113	1208114
ST	1208117	1208118			1208119	

FO cables by the meter										
 Web code: #2894										
Type	Loose tube									
Fiber category	OM1	OM2	OM3	OM4	OS2	OM1	OM2	OM3	OM4	OS2
Number of fibers	12					24				
Item no.	1286223	1286222	1286221	1286220	1286219	1286217	1286215	1286214	1286211	1286210
										
Type	Full breakout				Duplex					
Fiber category	OM2				OM1	OM2		OM3		OM4
Number of fibers	2				2					
Item no.	1406429		1406430		1411566	1411561		1411563		1411564

Fiber optics

Fiber optic tools				
 Web code: #2875				
Description	Stripping pliers			
Application	Removing insulation			
For FO dimensions	AWG 30-22 / (0.25 ... 0.64 mm)	AWG 18-10 / (1.0 ... 2.6 mm)	900 and 250 µm (GOF)	500 µm primary coating (PCF)
Item no.	1407014	1407016	1414099	1684796

FO duplex cable						
	FO duplex cable	Sheath color	Fiber category	Typical range	Typical wavelength	Fiber structure
Multimode		Orange	OM1	1000Base-SX: max. 350 m 1000Base-LX: max. 550 m	850 nm 1,300 nm	
		Orange	OM2	1000Base-SX: ≥500 m 1000Base-LX: ≥500 m	850 nm 1,300 nm	
		Aqua	OM3	1000Base-SX: max. 1,000 m 1000Base-LX: max. 500 m 10GBASE-SX: max. 300 m	850 nm	
		Heather violet	OM4	1000Base-SX: max. 1,500 m 1000Base-LX: max. 600 m 10GBASE-SX: max. 550 m	850 nm	
Singlemode		Yellow	OS2	10GBASE-LR: ≥10 km	1,310 nm 1,550 nm	

Fiber optics

FO patch cables (length: 1.0 m ¹⁾)								
 Web code: #0333								
Description	OM1				OM2			
Type	LC	SC	ST		LC	SC	ST	SC-RJ
LC	1146497	1146498	1146499		1115633	1115607	1115588	1405694 ²⁾
SC	1146498	1146504	1413791		1115607	1115536	1115574	1405700 ²⁾
ST	1146499	1413791	1146501		1115588	1115574	1115560	1405710 ²⁾
SC-RJ					1405694 ²⁾	1405700 ²⁾	1405710 ²⁾	1405703 ²⁾
								
Description	OM3				OM4			
Type	LC	SC		SC-RJ	LC	SC	ST	SC-RJ
LC	1185473	1185480		1405695 ²⁾	1115625	1115601	1492352	1405696 ²⁾
SC	1185480	1185485		1405701 ²⁾	1115601	1115424		1405702 ²⁾
ST					1492352			
SC-RJ	1405695 ²⁾	1405701 ²⁾		1405704 ²⁾	1405696 ²⁾	1405702 ²⁾		1405705 ²⁾
								
Description	OS2 UPC				OS2 APC			
Type	LC	SC	ST		LC	SC	ST	
LC	1115636	1115618	1115596		1115630	1115613		
SC	1115618	1115550	1115582		1115613	1115544		
ST	1115596	1115582	1115565					

¹⁾ Other available length versions 0.5 m, 1 m, 2 m, 3 m, 5 m, 10 m configurable

²⁾ Only available as configurable versions

Go directly to the online configurator

Simply enter the web code into the search field on our website.

 Web code: #1975

NEW

Fiber optics

FO multi-fiber patch cables (plug) with multimode OM1 fiber				
 Web code: #1623				
		M17, 4-pos.	M17, 12-pos.	M17, 24-pos.
Degree of protection		IP67	IP67	IP67
Length	5 m		1807805	
	10 m	1087168	1792567	1087149
	20 m	1087167	1807810	
	25 m	1183913		
	30 m	1087166	1807808	
	35 m	1183914	1184008	
	40 m	1087165	1807806	
	45 m	1183915		
	50 m	1087164	1807800	
	60 m	1087163	1807799	
	70 m	1087162	1807797	
	80 m	1087161	1807796	
	90 m		1807793	
	100 m	1087158	1807812	1087125
	110 m		1126995	1087128
	120 m		1127010	1087130
	130 m		1127004	
	140 m		1127003	
	150 m		1127002	
	160 m		1127001	
	170 m		1127000	
	200 m	1087138	1807809	

Fiber optics

FO multi-fiber socket cables, M17, with multimode OM1 fiber				
Web code: #1623				
		M17, 4-pos.	M17, 12-pos.	M17, 24-pos.
		2 x LC duplex	6 x LC duplex	12 x LC duplex
Length	0.6 m	1087118	1807818	1087113
	1.0 m		1807816	
	2.0 m	1087114	1807815	

FO multi-fiber connection boxes and modules with multimode OM1 fiber				
Web code: #1626				
		M17, 4-pos.	M17, 12-pos.	M17, 24-pos.
Rack unit	1U, 2 sockets	1087121	1807822	1087112
	1U, 1 socket	1087135	1807821	1087109
	3U, 1 socket		1807823	
	DIN rail, 1 socket	1208051	1208052	1208053
19" mounting frame, 3U		1419976		
Central plate, 3U		1419977		

PCB terminal blocks and PCB connectors for data transmission

PCB connection technology for data transmission up to 1 Gbps

Complex automation processes demand communication in many areas. You can now benefit from reliable PCB terminal blocks and PCB connectors that have been qualified in accordance with various

transmission standards. These include Single Pair Ethernet, Ethernet-APL, PROFINET, Ethernet CAT5, and EtherCAT P.



Single Pair Ethernet

Web code: #3357



Ethernet APL

Web code: #2390



PROFINET

Web code: #1598



Ethernet CAT5

Web code: #2713



EtherCAT P

Web code: #2332

FINEPITCH series board-to-board connectors

In addition to the comprehensive COMBICON portfolio, the FINEPITCH series offers numerous connectors for connecting two PCBs in a device.

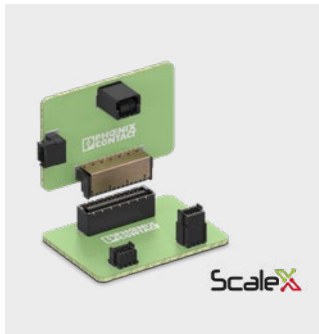
With pitches ranging from 0.635 to 1.27 mm, you will find the right series for your application. For example, for signal transmission or high-speed data transmission with or without shielding.

Our signal integrity experts will be happy to help you integrate our connectors into your device design.



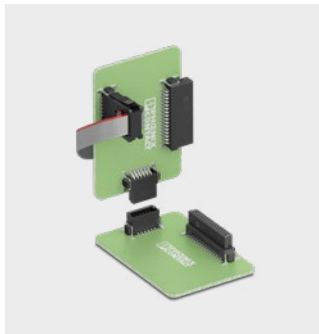
FS 0,635 unshielded

Web code: #3465



FP 0,8 (un)shielded

Web code: #3491



Unshielded FR 1,27

Web code: #1520

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Throughout your development process, Phoenix Contact will provide excellent services that make the difference. Discover how modern configurators, comprehensive technical data, and free product samples can make your daily work easier. As your partner, we will support you in the design-in process all the way to the development of customized connection and housing solutions.

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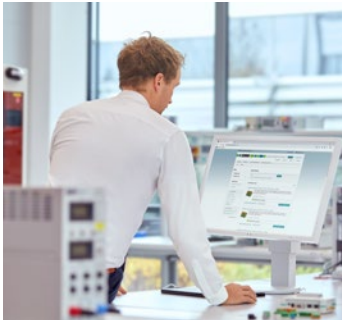
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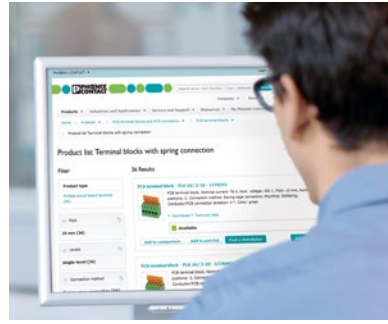
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 Web code: #2594



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There is a separate detail page for every product



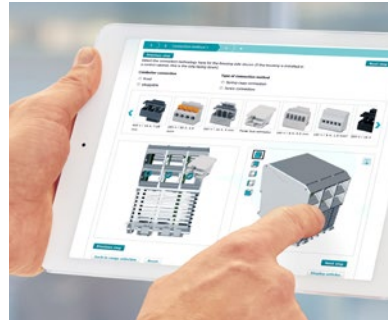
A data sheet is available to download for every item



With our global network, Phoenix Contact is always nearby



Device connection technology can be comprehensively configured



Housing parts and connection technology are easy to configure



Cable and assembly systems can be matched easily



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



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



Find the product you want quickly with intuitive filters



Product samples are available with free shipping



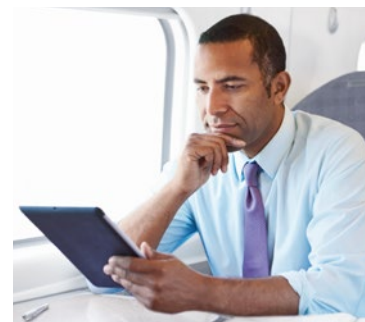
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