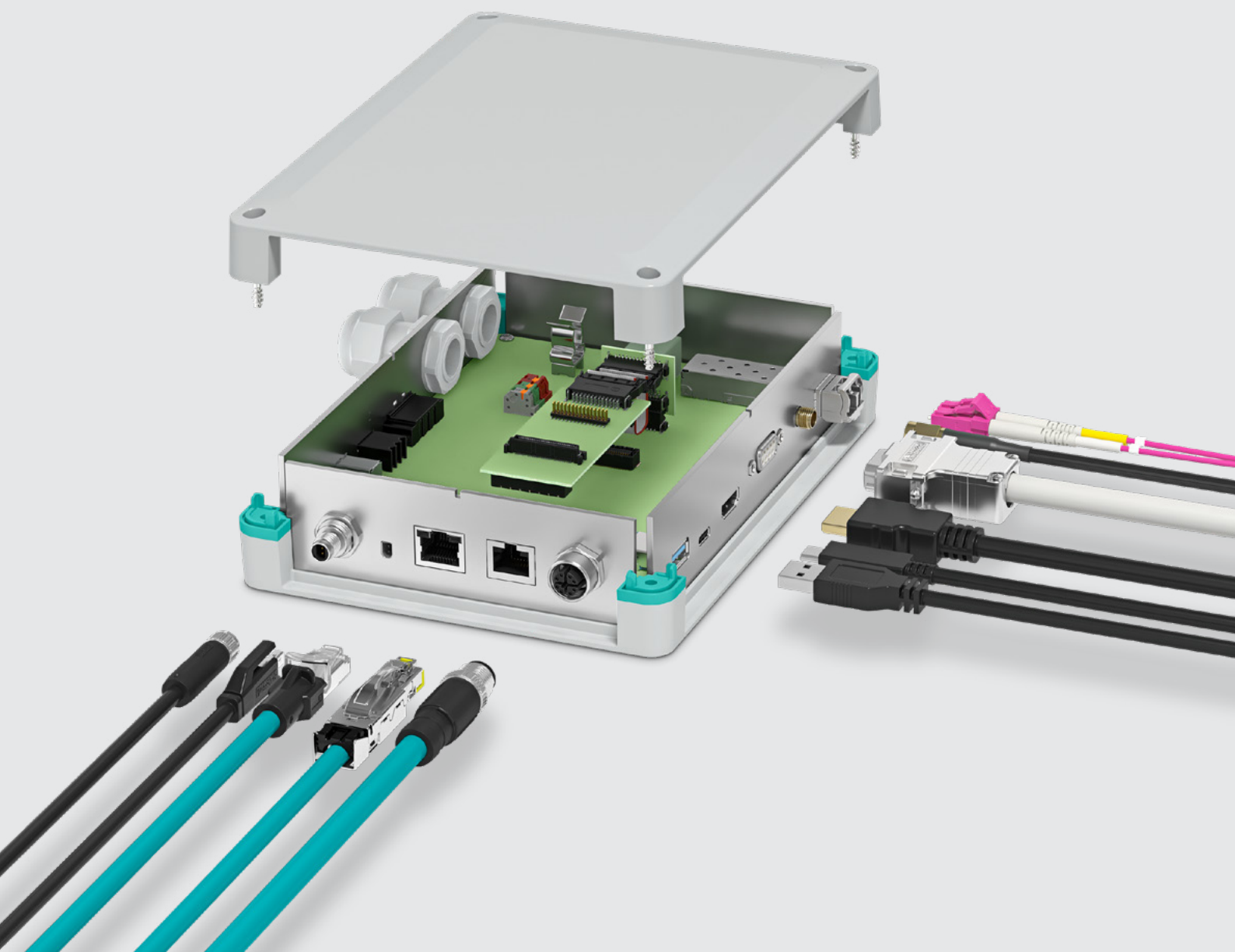


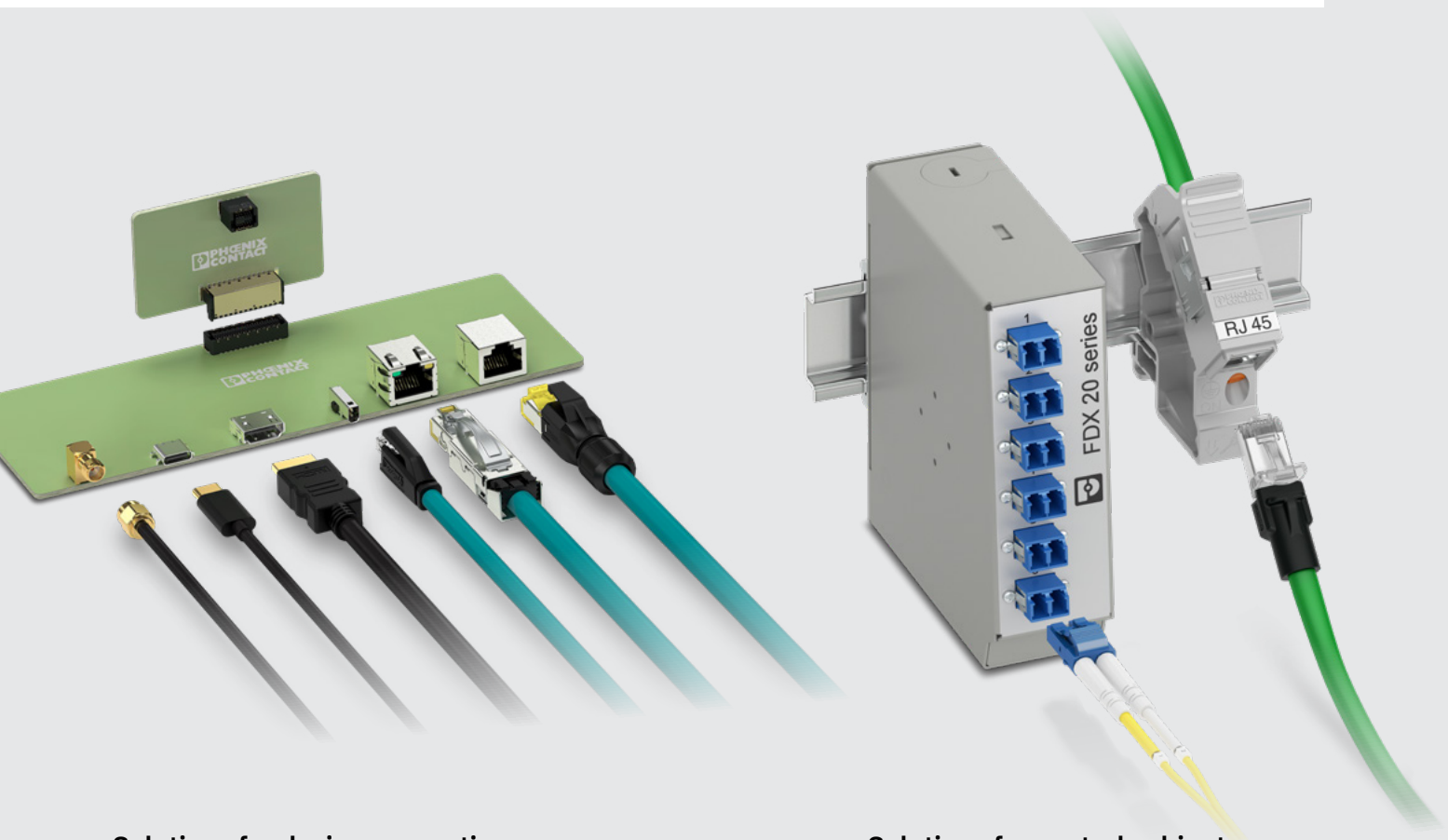


Data connectors

Product overview

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.

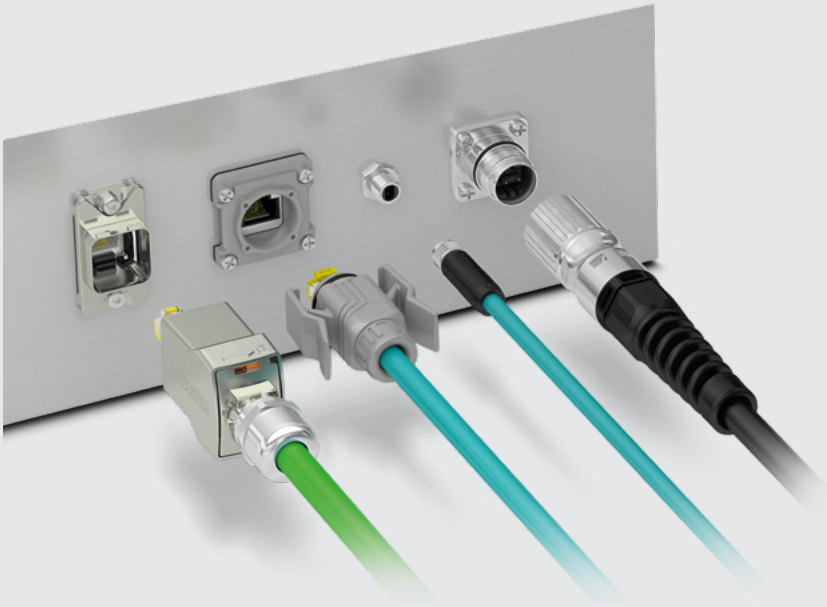


Solutions for device connection

Phoenix Contact has the right device connector for your application. From SPE, RJ45, HDMI, 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 protection 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.

Contents

Product range overview	4
Application solutions	6
Product overview	8
Cables by the meter	10
Copper-based data cabling	12
Single Pair Ethernet	12
RJ45	15
V6	22
V14	24
M12	29
D-SUB	33
USB	36
HDMI	38
Coax	39
FO-based data cabling	40
PCB terminal blocks and PCB connectors for data transmission	47
Excellent services	48

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 in 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

SC DUPLEX



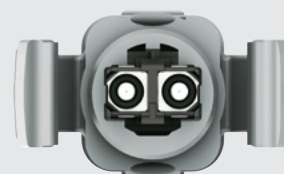
LC DUPLEX



SC-RJ



SC-RJ
version 6

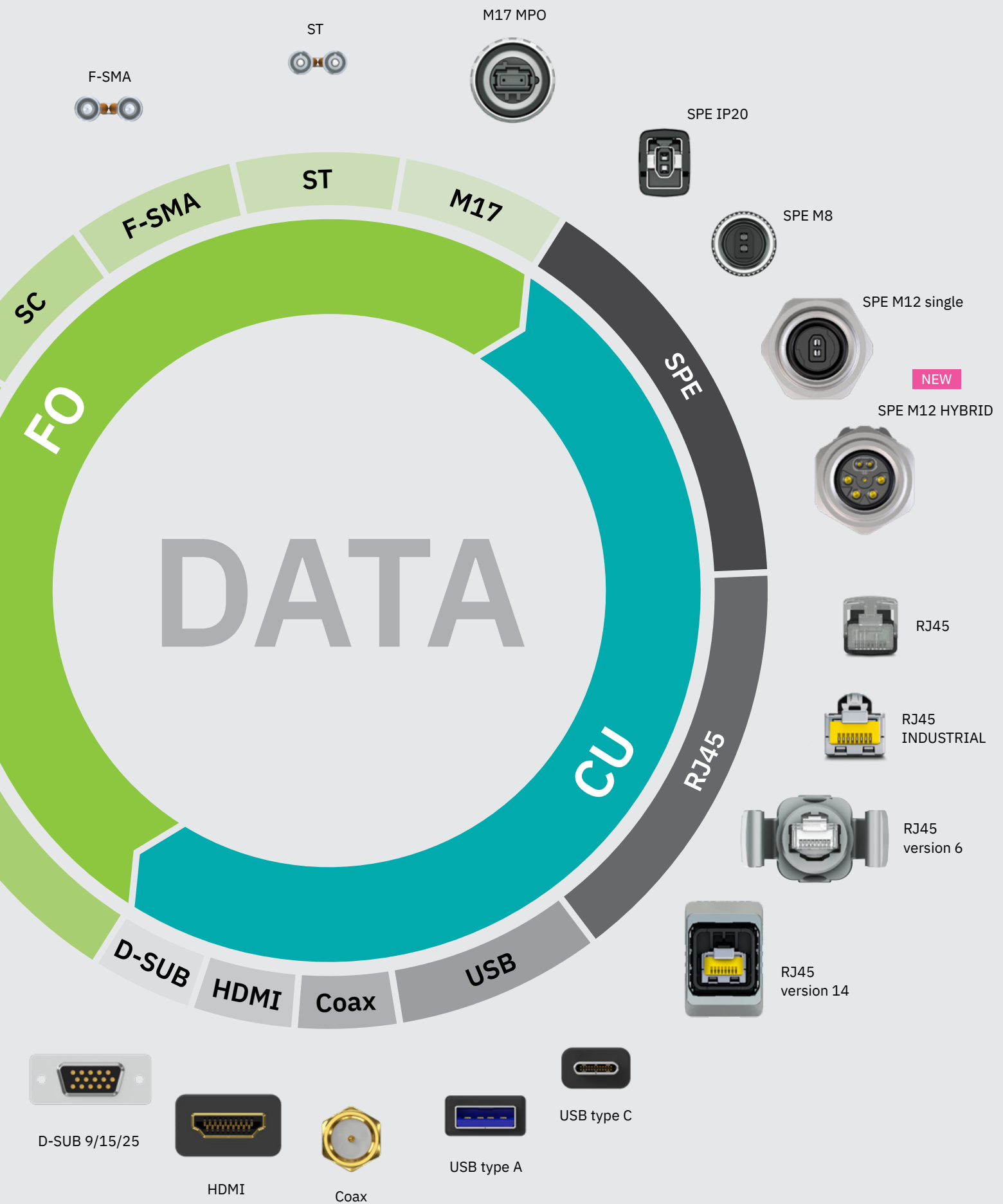


SC-RJ
version 14



LC

SC-RJ



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 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.



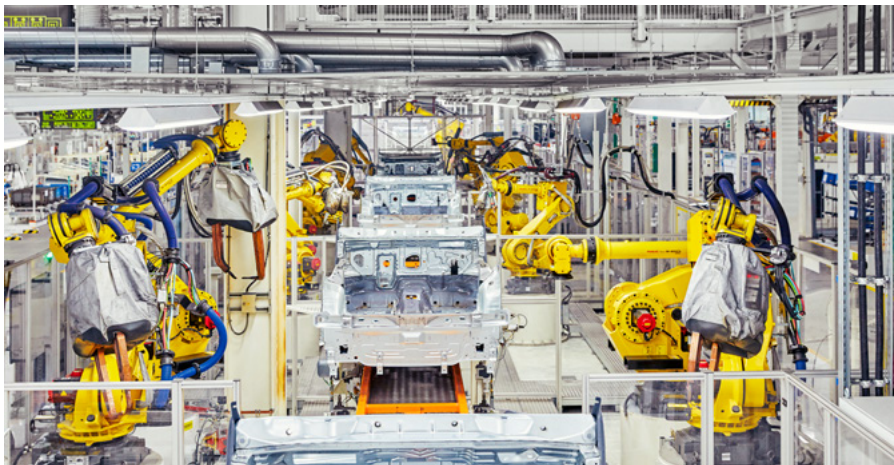
Solutions for industrial IP20 cabling

For the special requirements in industrial cabling, Phoenix Contact provides RJ45, USB, and HDMI patch cables, as well as RJ45 connectors designed for assembly without special tools. This ensures reliable connection solutions and consistent data transmission up to 10 Gbps (CAT6_A).



Solutions for industrial IP6X cabling

Configure your cable connection for signal, data, and power transmission in IP6X environments with freely selectable cable lengths and cable ends for customized cable assemblies.



Solutions for office and building cabling

Our connectors and patch cables allow you to implement 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 outdoor applications

High demands are placed on components used for outdoor data transmission, for example, in fields such as telecommunications and renewable energy. Phoenix Contact provides special connectors for outdoor applications that can withstand demanding environmental conditions with extreme temperature variations, humidity, UV rays, and vibrations.



Product overview for data connectors

Copper-based connectors			
		Cables by the meter	Pages 10 – 11
SPE		PCB connectors	Pages 12 – 13
		Field connectors and patch cables	Pages 13 – 14
RJ45		PCB connectors / couplings	Pages 15 – 18
		Connectors	Page 19
		Patch cables	Pages 19 – 21
V6		Connectors / patch cables / panel-mount frames / couplings	Pages 22 – 23
V14		Connectors / patch cables / panel-mount frames	Pages 24 – 26, 28
		Socket inserts / couplings	Page 27
		Multi-ports / terminal outlets	Page 27
M12		Connectors / PCB connectors	Pages 30 – 31
		Device connectors	Pages 29, 31 – 32
D-SUB		Contact inserts	Pages 33 – 34
		Contacts	Page 35
		Sleeve housings / panel-mount frames / protective covers	Page 35

Copper-based connectors

USB		Patch cables / PCB connectors	Pages 36 – 37
		Panel-mount frames	Page 37
HDMI		Patch cables / PCB connectors	Page 38
Coax		Patch cables / PCB connectors	Page 39

Fiber optics

POF, PCF, and GOF		Couplings	Pages 40, 42
		Connectors	Page 42
		Patch cables	Page 44
		Cables by the meter	Page 43
		Transceivers	Page 40
Distributor/ splice boxes		DIN rail	Page 41
		19"	Page 41
		M17 MPO	Pages 45 – 46

Discover more products

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



Web code: #0343

Cables by the meter

Type	93A	93B	93C	93E	93F	93K	
Sheath material	PVC Green	PVC Green	PUR Green	PUR Water blue	TPE Water blue	PVC Red	
							
Number of positions	4-pos.	4-pos.	4-pos.	4-pos.	4-pos.	4-pos.	
Transmission	CAT5 (up to 100 Mbps)						
Cable design	1 x 4 x 22/1 AWG	1 x 4 x 22/7 AWG	1 x 4 x 22/7 AWG	2 x 2x 26/7 AWG	2x2xAWG24/7	1 x 4 x 22/7 AWG	
Shielding	SF/TQ	SF/TQ	SF/TQ	SF/UTP	SF/UTP	SF/TQ	
Wire insulation	PE	PE	PE	PE	PE	PE	
Minimum bending radius	7.5 x D	7 x D	7.5 x D	5 x D	20 x D	7 x D	
Temperature range	-25°C ... +80°C	-40°C ... +70°C	-40°C ... +70°C	-20°C ... +80°C	-40 °C ... 80 °C	-40°C ... +70°C	
AWM style	UL 2464 (80°C / 300 V)	UL 21694 (60°C / 600 V)	UL 20233 (80°C / 300 V)	UL 20963 (80°C / 30 V)	UL 2463 (80 °C / 600 V)	UL 21694 (60°C / 600 V)	
Properties							
UL approval	 US LISTED	 US LISTED	 US LISTED	 US LISTED	 US LISTED	 US LISTED	
UV-resistant		✓	✓	✓	✓	✓	
Oil-resistant			✓	✓	✓		
Halogen-free				✓			
Flame-retardant	✓	✓	✓	✓		✓	
Resistant to chemicals			✓	✓			
Suitable for use with drag chains			✓	✓			
Suitable for torsional stress					✓		
Suitable for railway applications							
Item no.	1416486	1417362	1417491	1417320	1180721	1419173	

Further information on our cables can be found in the technical data for the item online

	93M	94B	94C	94D	94E	94F	94L	94S
	PUR Green	PUR Water blue	PUR Water blue	PVC Black	FRNC Water blue	PUR Water blue	TPE Water blue	PE-X Black
								
	4-pos.	8-pos.	8-pos.	8-pos.	8-pos.	8-pos.	8-pos.	8-pos.
		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 1 Gbps)	CAT6 _A (up to 10 Gbps)
	1 x 4 x 22/7 AWG	4 x 2 x 26/7 AWG	4 x 2 x 26/19 AWG	4 x 2 x 26/7 AWG	4 x 2 x 23/1 AWG	4 x 2 x 26/7 AWG	4x2xAWG24/7	4 x 2 x 26/7 AWG
	SF/TQ	SF/UTP	S/UTP	SF/UTP	S/FTP	S/FTP	SF/UTP	S/FTP
	PE	PE	PP	PP	PE	PE	PE	PE-X
	8 x D	5 x D	5 x D	9.5 x D	7.5 x D	10 x D	20 x D	6 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
	UL 20236 (80°C / 30 V)	UL 20963 (80°C / 30 V)	UL 20963 (80°C / 30 V)	UL 2464 (80°C / 300 V)	UL 10797 (80°C / 30 V)	UL 20963 (80°C / 30 V)	UL 2463 (80 °C / 600 V)	
								
				✓			✓	
		✓	✓	✓	✓	✓	✓	✓
		✓	✓		✓	✓		✓
		✓	✓	✓	✓	✓		✓
		✓	✓	✓	✓	✓		✓
			✓					
							✓	
								✓
		1417333	1417346	1416444	1416460	1417359	1180723	1423514

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 connectors: Winner of the Best of Industry Awards 2021

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

 Web code: #2671					
Description	IP20 PCB connector		M8 PCB connectors		
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

Single Pair Ethernet

SPE M12 hybrid PCB connectors in accordance with IEC 63171-7			
NEW  Web code: #2670			
	Male		Female
Contact connection type	2 x data, 4 x power, 1 x shielding		
Number of contacts	50 V AC / 63 V DC, 2 x 8 A		
Voltage, current (max. per power contact)	THR		
Soldering process	180° vertical		
Orientation	1439775		
Item no.	1108115 (incl. push-pull)		1420824
Compatible housings (front mounting)	1108101 (incl. push-pull)		1420825
Compatible housings (rear mounting)	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 1183807
Sheath material	PVC	2.0 m	1183808
Cable design	1 x 2 x 22 AWG	3.0 m	1183810
Shielding	S/FTP	5.0 m	1183811

SPE IDC connectors in accordance with IEC 63171-2	
 Web code: #2671	
Transmission	1 Gbps (up to 600 MHz)
Conductor cross-section	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						
	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)

Single Pair Ethernet

SPE M12 patch cables (IP67) in accordance with IEC 63171-5									
 Web code: #2670									
Description		M12 patch cable, PVC			M12 patch cable, PUR				
Contact connection type		Male – female	Female – female	Male – male	Male – female	Female – female	Male – male	Male – free cable end	Female – free cable end
Transmission		1 Gbps (up to 600 MHz)							
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	1364626	1364631	1364629	1364621	1364623	1364622	1478365	1478369
	5.0 m				1478373		1478377	1478366	1478370
	10.0 m				1478375		1478380	1478367	1478371

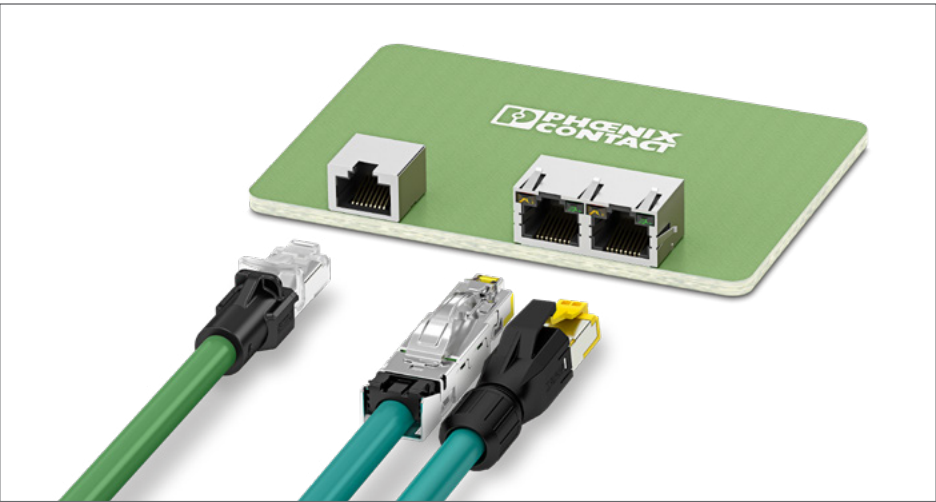
SPE M12 hybrid patch cables (IP67) in accordance with IEC 63171-7				
NEW  Web code: #2670				
Contact connection type		Female – male	Female – free cable end	Male – free cable end
Transmission		1 Gbps (up to 600 MHz)		
Number of contacts		2 x data, 4 x power, 1 x shielding		
Length	1.0 m	1524221	1524234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

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

RJ45

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

These 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 single-port PCB connectors

 Web code: #2341						
Mounting/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	1149882 1149874	1149872	1149870 1149868	1337238	1337240
With LEDs		1149873	114w9871	1149867 1149866	1337239	1337243

Modular RJ45 multi-port PCB connectors

 Web code: #2341					
Mounting/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 single-port PCB connectors (Industrial Connection System)

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

RJ45

Magnetic RJ45 single-port PCB jacks										
 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

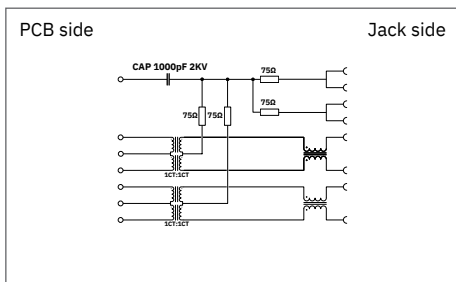


Figure 1

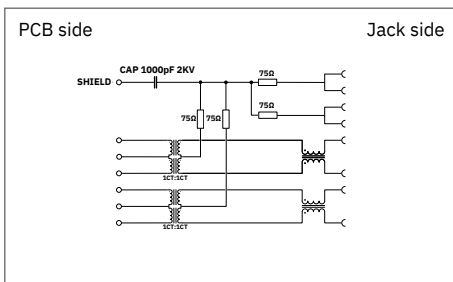


Figure 2

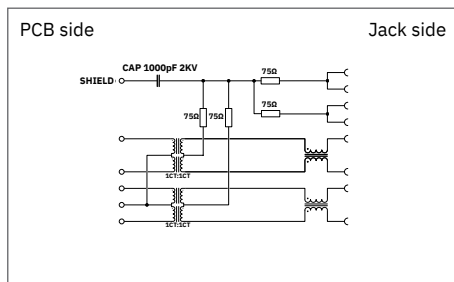


Figure 3

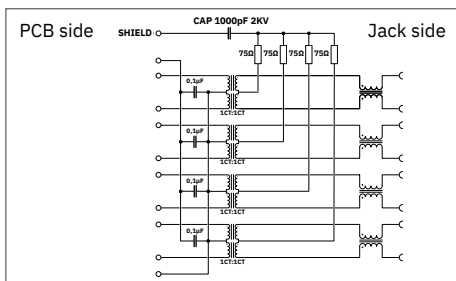


Figure 4

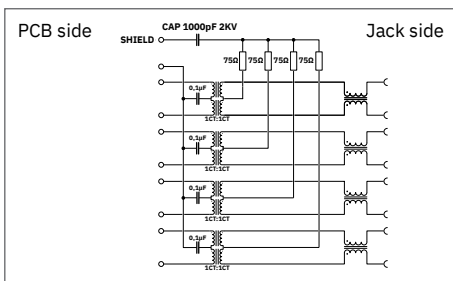


Figure 5

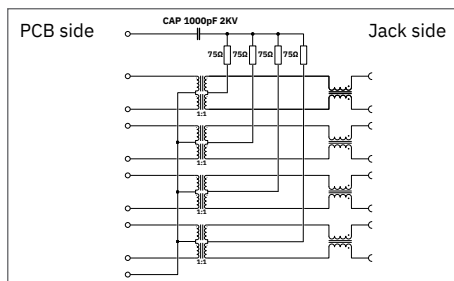


Figure 6

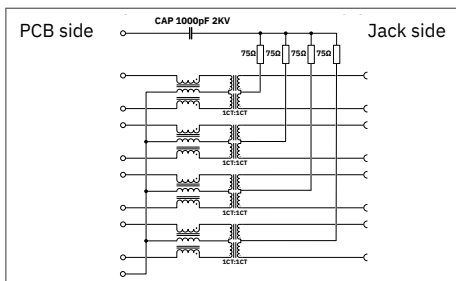


Figure 7

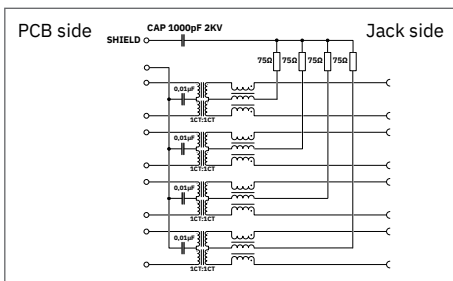


Figure 8

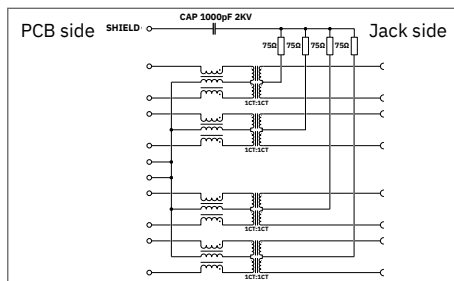


Figure 9

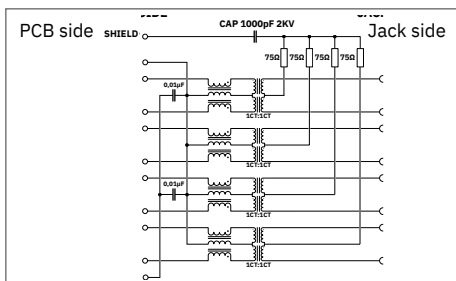


Figure 10

RJ45

RJ45 jack insert

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

DIN rail adapters / marshalling panels

 Web code: #1643		
	DIN rail adapters	Marshalling panel
	Gray, RJ45 IDC	1100077
	Gray, RJ45 coupler module	1769127
	Gray, unassembled	1041740
	Black, unassembled	1422978
		1422979

RJ45 modules for the DIN rail adapter

 Web code: #1643		
	RJ45 coupling module	RJ45 cable connection with IDC connection
	CAT6 _A	1041760
		1417274

RJ45

RJ45 connector (Industrial Connection System)

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

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
	30.0 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
	30.0 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
Cable		94B					
Length	1.0 m			1408955			
	2.0 m			1408956			
	5.0 m			1408954			
	10.0 m			1408958			
							
Protocol		Ethernet					
Transmission		CAT6 _A (up to 10 Gbps)					
Cable		94F					
Configurable item ¹⁾		1415639		1414322		1414321	

Standard item in fixed lengths

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 and terminal outlets		
 Web code: #0329		
Description	Coupling	Terminal outlet
Connections	1 x RJ45/RJ45	2 x RJ45
Gray	1689268	
Black	1658684	1404278

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

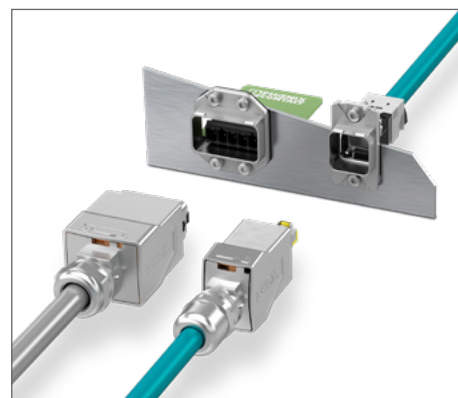
¹⁾ For corresponding modules, see page 18

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. Matching panel-mount frames and push-pull outlets provide a complete solution for industrial applications.



RJ45 connectors

 Web code: #0325							
Connection technology	IDC terminal block						Crimp
Cable outlet	Straight		Bottom		Top		Straight
Connection range	26 AWG ... 24 AWG	23 AWG ... 22 AWG	26 AWG ... 24 AWG	23 AWG ... 22 AWG	26 AWG ... 24 AWG	23 AWG ... 22 AWG	26 AWG ... 24 AWG
CAT5	1422661	1422664	1422662	1422665	1422663	1422667	
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		
Material	Die-cast zinc		
Cable outlet	Straight	Bottom	Top
Item no.	1407896	1407902	1408028

Version 14

Version 14 assembled PROFINET patch cables (IP6X)							
							
Protocol		PROFINET					
Transmission		CAT5 (up to 100 Mbps)					
Cable		937 / 93B / 93C / 93R / 93M					
Configurable item ¹⁾		1411859	1411860	1411866	1411867	1411863	1411864
Cable		93B					
Length	1.0 m			1408974	1408978		
	2.0 m			1408975	1408979		
	5.0 m			1408972	1408977		
	10.0 m			1408976	1408980		

Standard item in fixed lengths

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
Cable						94B	
Length	1.0 m						
	2.0 m					1414428	
	5.0 m						
	10.0 m						
							
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
Cable				94B	93E	94B	93E
Length	1.0 m			1408961	1408941	1408965	1408947
	2.0 m			1408962	1408942	1408966	1408948
	5.0 m			1408959	1408943	1408964	1408946
	10.0 m			1408963	1408945	1408967	1408949

Standard item in fixed lengths

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 AVAGO transceivers	For Freenet modules	For Freenet modules
Item no.		1413963	1413981	1405222	1608197
Panel-mount frame, assembled		CAT6 _A cable connection	SC-RJ coupler	SC-RJ coupler	
Item no.		1413961	1413962	1413964	1405235

Version 14

Accessories				
 Web code: #0325				
Description	Protective cap	Protective covers	Protective covers	Spacer
Accessories for	Connectors	Panel-mount frames		
Degree of protection	IP65	IP65/IP67		
Item no.	1405316	1413985	1413970	1413989

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

Multi-ports			
 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			
Coding	Fixed		Variable	
Outside 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 the M12 size.

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

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	Male	Female	Female	Female	Female
Length	0.5 m	1403535		1404205	1423476	1404367			1417828
	1.0 m	1418004	1403374	1404206		1404368			1412315
	2.0 m		1413095	1406085		1416158	1416212	1419167	1412316
	5.0 m	1412082		1404208		1404369			1419482

M12

M12 PCB connectors

 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-position, hybrid		1407503		1405225		1411965
	CAT6 _u , 8-position		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

M12 connectors												
 Web code: #0338												
			Push-in connection		IDC connection		Piercecon connection		Screw connection			
			Straight	Angled	Straight	Angled	Straight	Angled	Straight	Angled		
Networks												
Ethernet	CAT5, 4-pos.	Male			1411066	1553624			1521261			
		Female			1411069	1553637						
	CAT5, 8-pos.	Male			1421679	1553653						
		Female			1421680	1553666						
	CAT6 _A , 8-pos.	Male			1411043		1417430	1417443				
		Female			1414586							
PROFINET		Male	1424682	1424684	1411068	1554539			1521261			
		Female	1424686	1424685	1411071	1554542						
VARAN		Male			1429130	1429156						
		Female			1429143	1429169						
Fieldbuses												
INTERBUS		Male	1424674	1424675					1507764	1430417		
		Female	1424676	1424677					1507777	1430420		
PROFIBUS		Male	1424678	1424679	1413931				1507764	1430417		
		Female	1424680	1424681	1413932				1507777	1430420		
CANopen [®] , DeviceNet [™]		Male	1424670	1424671	1422759				1508352			
		Female	1424672	1424673	1422760				1508365			
CC-Link		Male	1424699									
		Female	1424700									
IP20/IP6X control cabinet feed-throughs												
 Web code: #0339												
			Ethernet						PROFINET			
			Protocol									
Coding	A-coded				X-coded				D-coded			
Category	CAT5				CAT6 _A				CAT5			
Orientation 180°	1414396				1404549				1414398			
Orientation 90°	1414393				1404548				1414397			

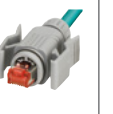
M12

IP65/IP67 PROFINET cables up to 100 Mbps, variable cable length (937, 93B, 93C, 93R, 93M)

 Web code: #0326									
		Free cable end	RJ45 connector, IDC, IP20	RJ45 connector, straight, IP20	RJ45 connector, angled, IP20	RJ45 connector, version 14, metal	RJ45 connector, version 14, plastic	M12 male, straight	M12 male, angled
	M12 male, straight	1408640	1403496	1408639	1408638	1408636	1408635	1408634	1408608
	M12 male, angled	1408633		1408632	1408631	1408628	1408626	1408625	1408624
	M12 female, straight	1408623		1408622	1408621	1408619	1408618	1408617	1408616
	M12 female, angled	1408615		1408613	1408612	1408610	1408609	1408608	1408607

Cable type is configurable.

IP65/IP67 Ethernet cables up to 1 Gbps, variable cable length (94B, 94Cm 94D)

 Web code: #0327 Up to 1 Gbps, IP65/IP67, variable cable length									
		Free cable end	RJ45 connector, crimp, IP20	RJ45 connector, IDC, IP20	RJ45 connector, version 6, plastic	RJ45 connector, version 14, metal	RJ45 connector, version 14, plastic	M12 male, straight	M12 male, angled
	M12 male, straight	1408682	1408681		1408679	1408678	1408677	1408676	1408667
	M12 male, angled	1408675	1408674		1408671	1408670	1408668	1408667	1408666

Cable type is configurable.

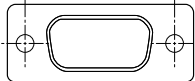
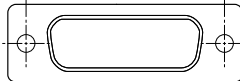
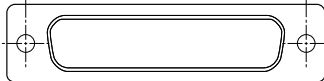
IP65/IP67 Ethernet cables up to 10 Gbps, variable cable length (94F)

 Web code: #0328						
		Free cable end	RJ45 connector, IP20	RJ45 connector, version 14, metal	RJ45 connector, version 14, plastic	M12 male, straight
	M12 male, straight	1408648	1408647	1408646	1408645	1408644

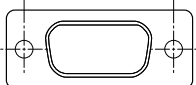
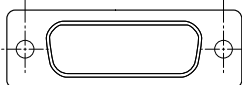
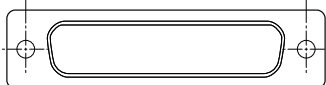
D-SUB

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.



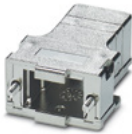
D-SUB contact inserts						
 Web code: #0340	Housing size 1 25 mm  Housing size 2 33 mm  Housing size 3 47 mm 					
	Connection technology	Thread/ drill hole	Housing size	Contact connection type	Number of positions	Item no.
	Solder connection with solder cup	3 mm hole	1	Male	9-pos.	1688793
			2	Male	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
			3	Male	25-pos.	1689970
			1	Female	9-pos.	1688421
			2	Female	15-pos.	1688214
			3	Female	25-pos.	1689983
	PCB connection for angled combination contacts with solder pin	4-40 UNC thread	1	Male	9-pos.	1655292
			2	Male	15-pos.	1655331
			3	Male	25-pos.	1655441
			1	Female	9-pos.	1655289
			2	Female	15-pos.	1655328
			3	Female	25-pos.	1655438
	Screw connection	2.5 mm hole	1	Male	9-pos.	1688379
			2	Male	15-pos.	1688078
			3	Male	25-pos.	1689789
			1	Female	9-pos.	1688395
			2	Female	15-pos.	1688094
			3	Female	25-pos.	1689776
	Coupling	4-40 UNC thread	1	Male	9-pos.	1652651
			2	Male	15-pos.	1652677
			3	Male	25-pos.	1652693
			1	Female	9-pos.	1688722
			2	Female	15-pos.	1652664
			3	Female	25-pos.	1652680

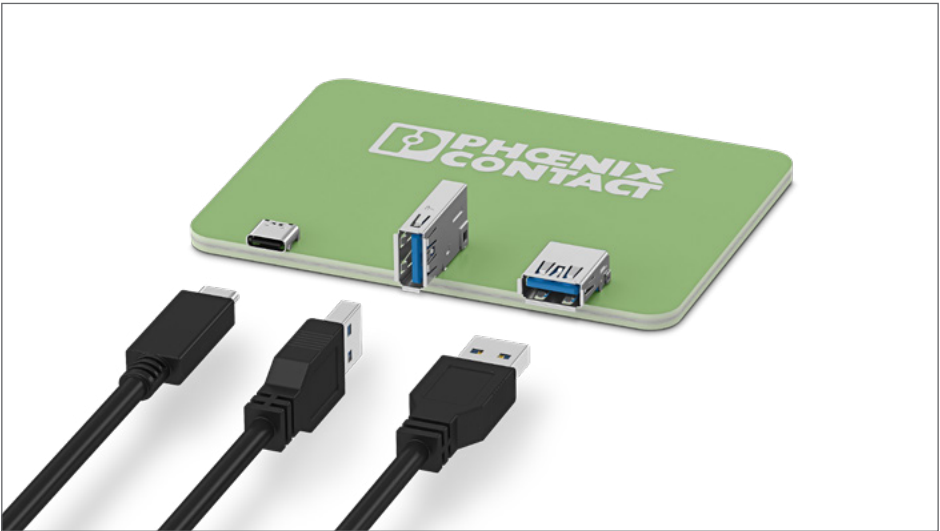
D-SUB

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 sleeve housings, panel-mount frames, and protective covers					
 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
	PA	M16 thread	1	Angled	1688353
		Pg11 thread	2	Angled	1688052
		M20 thread	3	Angled	1689792
	PA		1		1688366
			2		1688036
			3		1689750
	PA, gray		1		1887086
			2		1887099
			3		1652211

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 3.1	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					USB 3.2 Gen. 2			
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

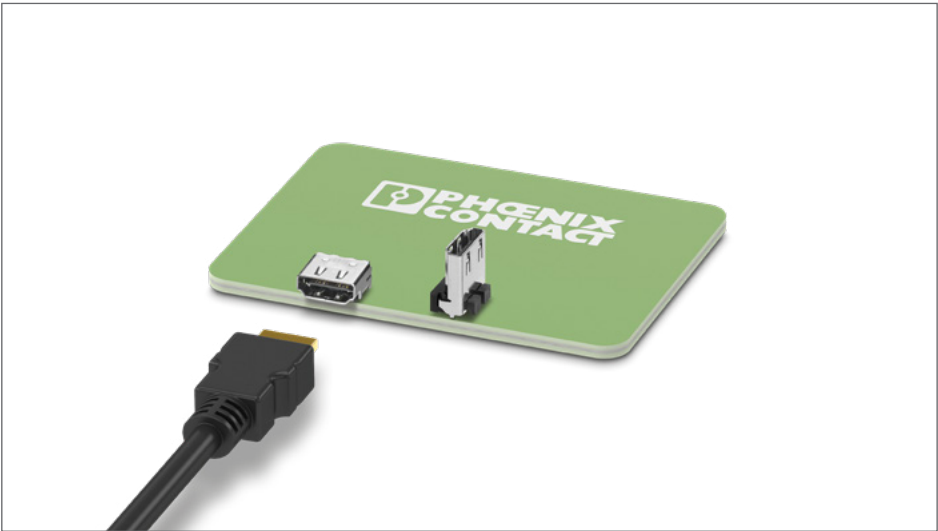
 Web code: #0335							
	Panel-mount frame, assembled		Panel-mount frame, unassembled		Freenet modules		Solder connection
	USB A / USB B	USB B / USB A	Freenet		USB A	USB B	M12 / mini USB
	1411904	1411905	1653744	1658668	1653854	1653867	1440711

Version 6 USB patch cables

 Web code: #0335					
USB version		USB 2.0			
Head 1 USB type		USB type A			USB type B
Head 2 USB type		OE	USB type B	USB type B	USB type A
Sheath material		PUR			
Length	1.0 m	1655742			
	2.0 m	1655755	1653870		1653919
	5.0 m	1655768	1653883	1653906	1653922

HDMI

The HDMI type A PCB connectors and patch cables extend our portfolio of data interfaces. These products are ideal for the reliable transmission of audio and video data and Ethernet (HEC) in protected applications. The PCB connectors are available in two outlet directions and are dimensioned for processing in automated SMD soldering processes.

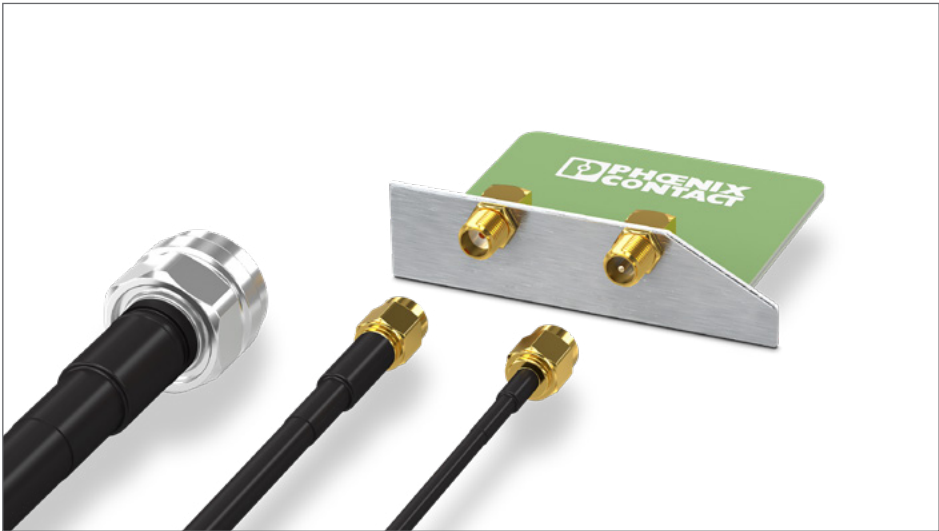


HDMI PCB connectors				
 Web code: #2889				
Version		HDMI 2.0		
Designation		HDMI type A		
Orientation		90° horizontal		180° vertical
Mounting type/soldering process		SMT/reflow		
Item no.		1332071		1332073

HDMI patch cables								
 Web code: #2889								
HDMI version		HDMI high speed with Ethernet channel						
Head 1 HDMI type		HDMI type A						
Head 2 HDMI type		HDMI type A						
Length	0.3 m	1332077	Length	1.5 m	1332081	Length	5.0 m	1332084
	0.5 m	1332078		2.0 m	1332082		7.5 m	1332086
	1.0 m	1332079		3.0 m	1332083			

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 single-mode 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				
Form factor	SFP/SFP+			
Mounting	Press-fit			SMD
Module slots	1	2	4	
Item no.	1334220	1334221	1334222	1334224

FO coupling modules	
 Web code: #1643	
Inserts	FO coupling module
LC duplex, singlemode APC	1041780
SC simplex, singlemode APC	1041800
MPO/MTP type A	1041820
MPO/MTP type B	1041840

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

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 PC (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)	1145416	1145375	1145408	1145407	1145398	1145397
OM4 (G50/125 µm)	1145415	1145413	1145406	1145403		
OS2 (PC) (E9/125 µm)	1145411	1145409	1143631	1145400	1145395	1145392

FO splicing accessories

 Web code: #2875			
	Splicing protection		
Description			
Mounting	Shrink	Crimp	Shrink
Dimensions	1.3 x 30 mm	1.2 x 30 x 3 mm	2.4 x 45 mm
Item no.	1019676	1019678	1469294

Fiber optics

FO connectors – POF

 Web code: #0332						
	Connectors		Tools			
	Type	SC-RJ	F-SMA	SC-RJ	F-SMA	
	Item no.	1654879	2799720	1658820	2744131	

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)		
	Connector	1404087	2313782	2313779	1654866	2708481	2799487
Tool set	2708876	2708465	2708876	2708876	2708465	2799526	

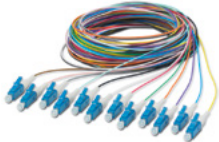
FO connectors – GOF

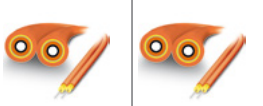
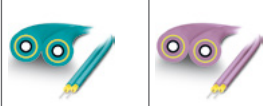
 Web code: #0332			
	Type	2 x LC simplex	SC duplex
	MM	1089521	1089518
	SM PC	1089520	1089517
	SM APC	1089519	1089516
	Tool set	1089515	

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 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		Mini breakout		Duplex						
Fiber category	OM2		OM4		OM1		OM2		OM3		OM4
Number of fibers	2		12		24		2				
Item no.	1406429	1406430	1286209	1286208	1411566	1411561	1411563	1411564			

	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		1018494	
	10 m	1087168	1018526	1087149
	15 m			
	20 m	1087167	1019181	1087150
	25 m	1183913	1184007	1183986
	30 m	1087166	1018528	1087152
	35 m	1183914	1184008	1183987
	40 m	1087165	1018529	1087153
	45 m	1183915	1183993	1183988
	50 m	1087164	1018530	1087154
	55 m	1183958	1184009	1183989
	60 m	1087163	1018554	1087148
	65 m		1184011	1183991
	70 m	1087162	1018556	1087155
	75 m		1184012	1183992
	80 m	1087161	1018557	1087156
	85 m			
	90 m	1087160	1018559	1087127
	95 m			
	100 m	1087158	1018560	1087125
	105 m			
	110 m	1087157	1126995	1087128
	115 m			
	120 m	1087146	1127010	1087130
	125 m			
	130 m	1087145	1127004	1087132
	135 m			
	140 m	1087144	1127003	1087123
	145 m			
	150 m	1087430	1127002	1087133
	155 m			
	160 m	1087143	1127001	1087134
	165 m			
	170 m	1087142	1127000	1087122
	175 m			
	180 m	1087141	1150514	1087120
	185 m			
	190 m	1087139	1150515	1087117
	195 m			
	200 m	1087138	1018562	1087116

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	4 x ST	6 x LC duplex	12 x LC duplex
Length	0.6 m	1087118	1126996	1018563	1087113
	1.0 m	1087115	1087108	1018564	1087111
	2.0 m	1087114	1087107	1018567	1087110

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	1018570	1087112
	1U, 1 socket	1087135	1018568	1087109
	3U, 1 socket		1018571	
	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



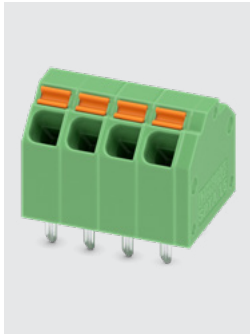
Ethernet APL

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

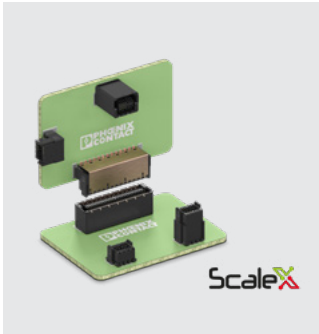
2.54 mm, you will find the right series for your application. For example, for signal transmission or high-speed data transmission with or without shielding. Our signal integrity experts will be happy

to help you integrate our connectors into your device design.



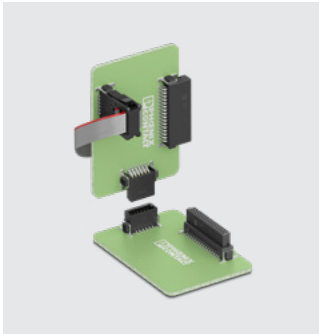
FS 0,635 unshielded

Web code: #3465



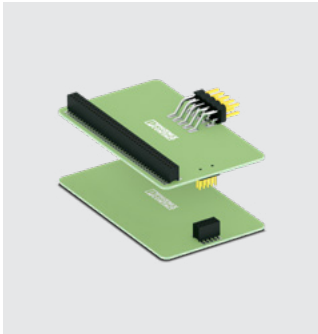
FP 0,8 (un)shielded

Web code: #3491



FR 1,27 unshielded

Web code: #1520



FQ 1,27 / FQ 2,54

Web code: #2658

Web code: #2659

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A data sheet is available to download for every item



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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 through to series production

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 **Web code: #2594**

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 **Web code: #2594**

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