



RJ45 patch cables

The right patch cables for your application

Selection guidelines

Cable jacket

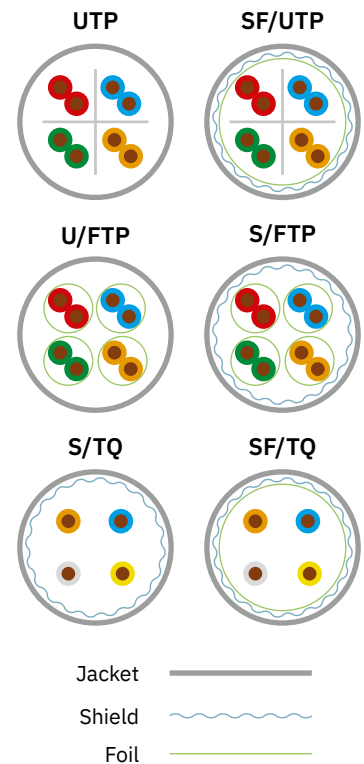
When selecting the right cable jacket for your application, the following guidelines will clarify intended use:

- LSZH** Low smoke, zero halogen
- PVC** Wide temperature range, sunlight-resistant
- PUR** Halogen-free, abrasion- and oil-resistant
- TPE** Flexible, UV-resistant, outdoor CMX-rated, resistant to welding splashes

Cable shielding

Data cable shielding is identified by the shielding of the overall cable and the shielding of each pair of wires.

	Cable shield	Wire shield
UTP	No cable shield	UTP – Unshielded twisted pair
F/UTP	F – Foil shield	UTP – Unshielded twisted pair
S/UTP	S – Braided shield	UTP – Unshielded twisted pair
SF/UTP	SF – Braided and foil shield	UTP – Unshielded twisted pair
U/FTP	No cable shield	FTP – Foil shielded twisted pair
F/FTP	F – Foil shield	FTP – Foil shielded twisted pair
S/FTP	S – Braided shield	FTP – Foil shielded twisted pair
S/TQ	S – Braided shield	TQ – Twisted quad (Star quad)
SF/TQ	S – Braided and foil shield	TQ – Twisted quad (Star quad)



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 2 x 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						
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

Wiring pin-out

Positions	Category	Transmission speed	Cable type	Pos. 1	Pos. 2	Pos. 3	Pos. 4	Pos. 5	Pos. 6	Pos. 7	Pos. 8
4	CAT5	100 Mbps	Twisted pair	White	Orange	White	-	-	Green	-	-
			x 2	Orange		Green					
4	CAT5	100 Mbps	Twisted quad	Yellow	Orange	White	-	-	Blue	-	-
8	CAT5	1 Gbps	Twisted pair	Orange	White	White	Blue	White	Green	White	Brown
			x 4		Orange	Green		Blue		Blue	
8	CAT6 _A	10 Gbps	Twisted pair	Orange	White	White	Blue	White	Green	White	Brown
			x 4		Orange	Green		Blue		Blue	
8 (TIA 568B)	CAT5	1 Gbps	Twisted pair	White	Orange	White	Blue	White	Green	White	Brown
	CAT6 _A	10 Gbps	x 4	Orange		Green		Blue		Blue	

RJ45 patch cables

The right patch cables for your application

Phoenix Contact offers four grades of patch cables, ranging from unshielded to industrial-rated. Both the INDUSTRIAL and the HIGH-FLEX-rated products feature a robust over-molded strain relief that extends into the connector while the CABINET-rated products feature reliable locking-clip protection.



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 1Gbps)	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




Cabinet

Future-proof cabling solutions for cabinet and building automation

Patch cables from the RJ45 standard series are ideal for use in buildings or protected industrial applications such as cabinets. Whether inside a building or in a control cabinet, the shielded and unshielded cable offerings from Phoenix Contact ensure reliable data transmission up to 10 Gbps.

Approvals: CE, RoHS, REACH, WEEE, EAC, UL

RJ45 standard patch cables			
Product image			
Transmission	CAT5 (up to 1 Gbps)		CAT6 _A (up to 10 Gbps)
Sheath material	PVC		LSZH
Cable structure	2x4xAWG26/7		
Shielding	UTP	S/UTP	S/FTP
0.3 m	1438324	1227558	1227572
0.5 m	1413086	1227559	1227573
1.0 m	1410595	1227560	1227575
1.5 m	-	1227561	1227578
2.0 m	1410596	1227562	1227580
3.0 m	1413019	1227563	1227581
5.0 m	1410694	1227564	1227583
7.5 m	1438325	1227565	1227585
10.0 m	1412973	1227566	1227588
12.5 m	-	1227567	1227590
15.0 m	1412971	1227570	1227591
20.0 m	1412974	1227571	1227593
25.0 m	1412975	-	-













Product image								
Transmission	CAT6 _A (up to 10 Gbps)							
Sheath material	LSZH							
Cable structure	2x4xAWG26/7							
Shielding	S/FTP							
Color	Blue	Green	Black	Red	Yellow	Violet	Orange	White
.3 m	1697660	1523697	1639416	1697671	1697689	1698001	1698015	1698028
.5 m	1697662	1523698	1639417	1697672	1697691	1698002	1698016	1698029
1.0 m	1697663	1523699	1639418	1697673	1697692	1698003	1698017	1698030
1.5 m	1697664	1523700	1639419	1697675	1697693	1698004	1698018	1698031
2.0 m	1367338	1523701	1639421	1697676	1697694	1698005	1698019	1698032
3.0 m	1697665	1523702	1639423	1697677	1697696	1698006	1698020	1698033
5.0 m	1367339	1523703	1639424	1697678	1697697	1698007	1698021	1698034
7.5 m	1697666	1523704	1639425	1697679	1697698	1698008	1698022	1698035
10.0 m	1697667	1523705	1639426	1697680	1697703	1698009	1698023	1698036
12.5 m	1697668	1523707	1639427	1697685	1697704	1698010	1698024	1698037
15.0 m	1697669	1523708	1639428	1697686	1697705	1698011	1698025	1698038
20.0 m	1697670	1523709	1639429	1697688	1697706	1698012	1698027	1698040

Industrial

Individual cabling solutions for industrial applications

RJ45 patch cables specifically developed for industrial applications feature special shielding and robust molding to ensure reliable data transmission in high-vibration environments. With different outlet directions to choose from and a wide variety of cables, Phoenix Contact's RJ45 Industrial line offers cabling for flexible installations, drag chains, and robots.

Approvals: CE, RoHS, REACH, WEEE, EAC, UL










RJ45 industrial patch cables (Straight X2)							
Cable type	93B	93C	93K	93M	94C	94F	
Product image							
Transmission	CAT5 (100 Mbps)	CAT5 (100 Mbps)	CAT5 (100 Mbps)	CAT5 (100 Mbps)	CAT5 (1 Gbps)	CAT6 _A (10 Gbps)	
Positions	4	4	4	4	8	8	
Cable structure	AWG 22/7	AWG 22/19	AWG 22/7	AWG 22/7	AWG 26/7	AWG 26/7	
Sheath material	SFTQ	SFTQ	SFTQ	SFTQ	SF/UTP	SF/UTP	
Shielding	PVC	PUR	PVC	PUR	PUR	PUR	
Product image							
	0.13 m	-	-	-	-	1113122	
	0.2 m	-	1113146	-	-	-	
	0.3 m	1113825	1112940	1112932	1112926	1112919	1112911
	0.5 m	1112785	1112939	1112931	1112925	1112918	1113823
	1.0 m	1112817	1112937	1112930	1112924	1112916	1112909
	1.5 m	1442768	1113326	-	-	-	15536420
	1.75 m	-	-	-	-	-	1113120
	2.0 m	1112820	1112936	1112929	1112923	1112914	1112908
	3.0 m	1112823	1112935	1112928	1112921	1112913	1112907
	4.0 m	-	-	-	1113325	-	-
	5.0 m	1112856	1112933	1112927	1112920	1112912	1112906
	7.5 m	1113330	-	-	1113324	-	-
	10.0 m	1113329	-	-	1113125	-	1113118
	12.5 m	-	-	-	-	-	-
	15.0 m	1113328	-	1113142	1113323	-	1586501
	20.0 m	1113327	-	1113141	1586509	-	1586503
	25.0 m	-	-	-	1586513	-	1586504
	30.0 m	1441505	-	-	-	-	1586506
	35.0 m	-	-	-	1586513	-	-













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RJ45 industrial patch cables – Additional configurations							
Cable type	93B						93K
Product image							
Transmission	CAT5 (100 Mbps)						CAT5 (100 Mbps)
Positions	4						4
Cable structure	AWG 22/7						AWG 22/7
Sheath material	SFTQ						SFTQ
Shielding	PVC						PVC
Product image							
Configuration	ST – RA Top latch	ST - RA Bottom latch	RA – RA Top latch	RA – RA Bottom latch	RA – OE Top latch	RA – OE Bottom latch	RA - RA Bottom latch
0.3 m	1113311	1113322	1113302	1113314	1113308	1113318	-
0.5 m	1113304	1113321	1113301	1113313	1113307	1113317	-
1.0 m	1113310	1113320	1113299	1113312	1113306	1113316	-
2.0 m	1113309	1113319	1113298	1113303	1113305	1113315	1113274

RJ45 industrial patch cables (Straight – Open-ended)						
Cable type	93B	93C	93K	93M	94C	94F
Product image						
Transmission	CAT5 (100 Mbps)	CAT5 (100 Mbps)	CAT5 (100 Mbps)	CAT5 (100 Mbps)	CAT5 (1 Gbps)	CAT6 _A (10 Gbps)
Product image						
Positions	4	4	4	4	8	8
Cable structure	AWG 22/7	AWG 22/19	AWG 22/7	AWG 22/7	AWG 26/7	AWG 26/7
Shielding	SFTQ	SFTQ	SFTQ	SFTQ	SF/UTP	SF/UTP
Sheath material	PVC	PUR	PVC	PVC	PUR	PUR
0.3 m	1112878	1112872	-	1113337	1113213	1113205
0.5 m	1112877	1112871	-	1113336	1113331	1113204
1.0 m	1112876	1112857	-	1113335	1113212	1113202
2.0 m	1112875	1112870	-	1113334	1113211	1113198
3.0 m	1112874	1112869	1112858	1113333	1113210	1113197
5.0 m	1112873	1112868	1113178	1113332	1113209	1113196

Open communication with customers and partners worldwide

Phoenix Contact is a global market leader based in Germany. We are known for producing forward-thinking products and solutions for the comprehensive electrification, networking, and automation of all sectors of the economy and infrastructure. With a global network, we maintain close relationships with our customers, something we believe is essential for our common success.

You can find your local partner at
phoenixcontact.com

