

RJ 45 Cat6 cords

Cat. No(s): 0 517 52/53/54/55/62/63/64/65/72/73/74/75
 0 518 15/18/31/32/33/34/35/50/51/52/53/54/55/56
 57/58/59/60/61/62/63/64/65
Configure To Order (CTO) range



1. USE

Patch cords and user cords for high speed transmission networks.
 Straight RJ45 - RJ45.
 The cord is snagless : it has a strain-relief boot to protect the connector's lock from being snapped off easily.

Compatible with a "PoE" remote power supply up to 90W (IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt) when installed according to standards ISO/IEC 14763-2:2019 and/or and EN 50174-2:2018

2. RANGE

Type	Type of sleeve	Colour	RAL	Length (m)	Cat. Nos.
U/UTP	LSZH	Green	RAL 6026	1	0 518 58
				2	0 518 59
				3	0 518 60
				5	0 518 61
				1	0 518 62
		Red	RAL 3020	2	0 518 63
				3	0 518 64
				5	0 518 65
				0,5	0 518 31
				1	0 518 32
	Blue	RAL 5015	2	0 518 33	
			3	0 518 34	
			5	0 518 35	
			0,5	0 518 18	
			1	0 517 72	
PVC	Blue	RAL 5015	2	0 517 73	
			3	0 517 74	
			5	0 517 75	

F/UTP	LSZH	Green	RAL 6026	1	0 518 50
				2	0 518 51
				3	0 518 52
				5	0 518 53
				1	0 518 54
	Red	RAL 3020	2	0 518 55	
			3	0 518 56	
			5	0 518 57	
			0,5	0 518 15	
			1	0 517 62	
PVC	Blue	RAL 5015	2	0 517 63	
			3	0 517 64	
			5	0 517 65	
			1	0 517 52	
			2	0 517 53	
SF/UTP	PVC	Blue	RAL 5015	3	0 517 54
				5	0 517 55

Configurations of above table are also available on-demand in the following colors.

Yellow	Black	White	Grey
RAL 1018	RAL 9005	RAL 9003	RAL 7035

For other lengths (0,3m and from 0,5 to 5m by 0,5m step), cable types, sleeves and colours, please contact us.

3. MARKINGS

Marking on products:

- LEGRAND
- Catalogue number
- Gauge
- Type
- Impedance
- Category

4. PERFORMANCE AT 20°

Maximum length of Permanent Link based on architecture

	Maximum cord length*	Maximum Permanent Link	Total Channel
2 Connector Channel	10m	89m	99m
3 Connector Channel	10m	88m	98m
4 Connector Channel	10m	87m	97m

* = sum of 2 cords

Note: calculations based on ISO/IEC 11801. Legrand products support the 100m 2-connector channel, confirmed by laboratory testing.

5. TECHNICAL AND MECHANICAL FEATURES

Type	U/UTP		F/UTP		SF/UTP
	LSZH	PVC	LSZH	PVC	PVC
Type of sleeve	LSZH	PVC	LSZH	PVC	PVC
Number of pairs	4				
Assembly	Pairs				
Cable type	Cable with stranded wire				
Diameter over insulation (mm)	0.97±0.05	0.97±0.05	0.92±0.05	0.92±0.05	0.90±0.05
Cable diameter (mm)	6±0.2	6±0.2	6±0.2	6±0.2	6.2±0.2
AWG gauge	24	24	26	26	26
Min. bending radius when laying (mm)	24	24	24	24	24
Tensile strength of the cord	≥50 N	≥50 N	≥50 N	≥50 N	≥50 N
Number of twists	500	500	500	500	500
Number of insertions	2500	2500	2500	2500	2500
Wiring method	T568B				

6. ELECTRICAL FEATURES AT 20°C

Loop resistance	< 2Ω
Contact resistance	< 20 mΩ
Total resistance of the cord	< 5Ω
Resistance per 100m of cable with cords	< 14Ω
DC dielectric strength	1 kV/1 min
Characteristic impedance from 1 to 250 MHz	100Ω ± 15

7. ENVIRONMENTAL FEATURES

LSZH cords only:

LSZH cable sheath compliant with :

Smoke density: Series IEC 61034 including IEC 61034-2, EN 61034-2
 Toxicity of fire effluent: Series IEC 60754 including IEC 60754-2, EN 60754-2

Fire resistance: Series IEC 60332-1 including IEC 60332-1-2

LSZH and PVC cords:

Storage and transport temperature: -20 to +75°C

Operating temperature: -20 to +60°C

Installation temperature : 0 to +60°C

8. STANDARDS AND APPROVALS

Cords are compliant to the following series

ISO/IEC 11801 series : International standard for generic cabling for customer premises

ANSI/TIA 568 series : North American standard for generic cabling for customer premises

EN 50173 series : European standard for generic cabling for customer premises

Components of the cords are compliant to the following series

IEC 61156 : International standard for twisted pair cable specifications

IEC 60603-7 : International standard for connector specifications

Cords are compliant to requirements for the following remote powering applications

IEEE 802.3af , IEEE 802.3at , IEEE 802.3bt : "Power over Ethernet", Types 1 to 4, up to 90W.