

## RJ 45 Cat6A cords

Cat. No(s): 0 517 80/81/82/83  
 0 518 16/48/66/67/68/69/70/71/72/73  
 0 518 74/75/76/77/78/79/80/81/82/83/84/85  
 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 6020	1	0 518 74			
				2	0 518 75			
				3	0 518 76			
				5	0 518 77			
				1	0 518 78			
	Red	RAL 3020	2	0 518 79				
			3	0 518 80				
			5	0 518 81				
			PVC	Yellow	RAL 1018	1	0 518 82	
						2	0 518 83	
3	0 518 84							
5	0 518 85							
S/FTP	LSZH	Green				RAL 6020	1	0 518 66
			2	0 518 67				
			3	0 518 68				
			5	0 518 69				
			1	0 518 70				
		Red	RAL 3020	2	0 518 71			
				3	0 518 72			
				5	0 518 73			
				PVC	Yellow	RAL 1018	0.3	0 518 48
							0.5	0 518 16
	1	0 517 80						
	2	0 517 81						
	3	0 517 82						
	5	0 517 83						

The configurations in the above table are also available on demand with the following colors.

Blue	Grey	Black	White
RAL 5015	RAL 7035	RAL 9005	RAL 9003

For other lengths (0,3m and from 0,5 to 5m by step 0.5m), 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	S/FTP	U/UTP	S/FTP
Type of sleeve	LSZH		PVC	
Number of pairs	4			
Assembly	Pairs			
Cable type	Cable with stranded wire			
Diameter over insulation (mm)	0.97±0,05	1.00±0,05	1.00±0,05	1.00±0,05
Cable diameter (mm)	6,2±0,2	6,2±0,2	6,1±0,2	6,2±0,2
AWG gauge	26	26	26	26
Min. bending radius when laying (mm)	24	24	24	24
Tensile strength of the cord	≥50 N	≥50 N	≥50 N	≥50 N
Number of twists	500	500	500	500
Number of insertions	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	<5 Ω
Resistance per 100 m of cable with cords	<14 Ω
DC dielectric strength	1 KV/1 min
Characteristic impedance from 1 to 500 MHz	100 Ω ± 25%

**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.