

## 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  |
|       |                | Red    | RAL 3020 | 1          | 0 518 62  |
|       |                |        |          | 2          | 0 518 63  |
|       |                |        |          | 3          | 0 518 64  |
|       |                |        |          | 5          | 0 518 65  |
|       |                | Blue   | RAL 5015 | 0,5        | 0 518 31  |
|       |                |        |          | 1          | 0 518 32  |
|       |                |        |          | 2          | 0 518 33  |
|       |                |        |          | 3          | 0 518 34  |
|       |                |        |          | 5          | 0 518 35  |
|       | PVC            | Blue   | RAL 5015 | 0,5        | 0 518 18  |
|       |                |        |          | 1          | 0 517 72  |
|       |                |        |          | 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 |
|        |      | Red   | RAL 3020 | 1   | 0 518 54 |
|        |      |       |          | 2   | 0 518 55 |
|        |      |       |          | 3   | 0 518 56 |
|        |      |       |          | 5   | 0 518 57 |
|        | PVC  | Blue  | RAL 5015 | 0,5 | 0 518 15 |
|        |      |       |          | 1   | 0 517 62 |
|        |      |       |          | 2   | 0 517 63 |
|        |      |       |          | 3   | 0 517 64 |
| SF/UTP | PVC  | Blue  | RAL 5015 | 5   | 0 517 65 |
|        |      |       |          | 1   | 0 517 52 |
|        |      |       |          | 2   | 0 517 53 |
|        |      |       |          | 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    |
|--------------------------------------|--------------------------|-----------|-----------|-----------|-----------|
| 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.