

## RJ 45 Cat6 High Density LSZH cords

Cat. No(s): 0 515 40/41/42/43/44/45/46/47/48/49



### 1. USE

For LAN and Data Center applications.  
Patch Cords with small diameter for easy deployment in high density environment.  
Ability to achieve a tight bend radius and easy access for maintenance.

### 2. RANGE

| Cat Nos  | Length (m) | Colour        | Type  | Type of sleeve |
|----------|------------|---------------|-------|----------------|
| 0 515 40 | 0,5        | Blue RAL 5015 | F/UTP | LSZH           |
| 0 515 41 | 1          |               |       |                |
| 0 515 42 | 2          |               |       |                |
| 0 515 43 | 3          |               |       |                |
| 0 515 44 | 5          |               |       |                |
| 0 515 45 | 0,5        |               | U/UTP |                |
| 0 515 46 | 1          |               |       |                |
| 0 515 47 | 2          |               |       |                |
| 0 515 48 | 3          |               |       |                |
| 0 515 49 | 5          |               |       |                |

### 3. CORD MARKINGS

Marking on the products:

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

### 4. PERFORMANCE AT 250 MHZ

**4.1** Performance of cords only :  
standard ANSI/TIA 568.2-D

| Cat Nos  | Minimum NEXT (dB) | Return Loss (dB) |
|----------|-------------------|------------------|
| 0 515 40 | 39.5              | 14               |
| 0 515 41 | 39.2              |                  |
| 0 515 42 | 38.8              |                  |
| 0 515 43 | 38.5              |                  |
| 0 515 44 | 38.1              |                  |
| 0 515 45 | 39.5              |                  |
| 0 515 46 | 39.2              |                  |
| 0 515 47 | 38.8              |                  |
| 0 515 48 | 38.5              |                  |
| 0 515 49 | 38.1              |                  |

**4.2** Performance of cords in system :  
Maximum recommended lengths to ensure optimum performance of the system, using a copper feedthrough and/or RJ45 sockets:

|       | Length associated with the cord lengths (m) |                       | Channel |
|-------|---------------------------------------------|-----------------------|---------|
|       | Patch cord length                           | Permanent link length |         |
| Cat.6 | 0.5                                         | 90                    | 91      |
|       | 1                                           | 90                    | 92      |
|       | 2                                           | 90                    | 94      |
|       | 3                                           | 90                    | 96      |
|       | 5                                           | 82                    | 92      |

These lengths are for a 2-connector channel only (without cross-connect)

### 5. TECHNICAL AND MECHANICAL FEATURES

Straight RJ45 - RJ45 (cable with multicore cords).



| Type                                 | F/UTP     | U/UTP     |
|--------------------------------------|-----------|-----------|
| Type of sleeve                       | LSZH      | LSZH      |
| Number of pairs                      | 4         | 4         |
| Assembly                             | Pairs     | Pairs     |
| Diameter over insulation (mm)        | 0.68±0,04 | 0.61±0,05 |
| Cable diameter (mm)                  | 5,2±0,2   | 4,2±0,1/0 |
| AWG gauge                            | 28        | 28        |
| Min. bending radius when laying (mm) | 20        | 20        |
| Tensile strength of the cord         | ≥50 N     | ≥50 N     |
| Number of twists                     | 500       | 500       |
| Number of insertions                 | 750       | 750       |

## 6. ELECTRICAL FEATURES AT 20°C

|                                                 |                     |         |
|-------------------------------------------------|---------------------|---------|
| Contact resistance                              | <20mΩ               |         |
| Resistance per 100m of cable with cords at 20°C | <22.3Ω              |         |
| DC dielectric strength                          | 1KV/1min            |         |
| Characteristic impedance                        | from 1 to 100 MHz   | 100±15Ω |
|                                                 | from 100 to 250 MHz | 100±22Ω |

## 7. ENVIRONMENTAL FEATURES

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

Operating temperature: -20 to +60°C

Installation temperature : 0 to +60°C

Smoke density : IEC 61034

Toxicity : IEC 60754

## 8. STANDARDS AND APPROVALS

ISO/IEC 60603-7

ANSI/TIA 568.2-D