

## Twisted Pair Patchcord - Kategorie 6 Clas E -Slim U/FTP - LSZH



- ✓ LSZH (LowSmoke Zero Halogen)
- ✓ Red colored plug for CAT 6
- ✓ Kink prot., strain relief, latch prot.
- ✓ various lengths and colors available

### Short description

CAT 6 Class E, U/FTP, Twisted Pair Patchcord, Cu, LSZH, AWG 28/7, various lengths and color available

### Technical Properties

2x RJ45 connectors (8P8C)

Boots with kink protection, strain relief and latch protection

Length marking on boot

Conductor: Cu (Copper)

Shielding: U/FTP (pairs foil shielded)

Structure: 4x 2 AWG 28/7, twisted pair;

Sheath: LSZH (Low Smoke Zero Halogen)

PoE+ ready

### Long Description

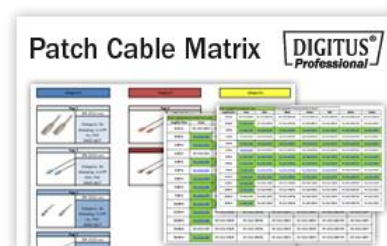
DIGITUS<sup>®</sup> slim patch cords are characterised by their small outer diameter and flexible sheath. Slim design enables versatile use in your network. Moreover, DIGITUS<sup>®</sup> slim patch cords are manufactured according to ISO/IEC 11801 and DIN EN 50173 CAT 6 standards. They guarantee that the cable installation complies with the ISO & EN channel specification and provide excellent performance in DIGITUS<sup>®</sup> CAT 6 cabling. Performance was tested up to 250 MHz, including performance characteristics such as near-end crosstalk ("NEXT"). DIGITUS<sup>®</sup> patch cords were specifically designed to fully meet all requirements in various application areas. Each cable is equipped with a moulded anti-kink sleeve with strain relief. In addition, the sleeve has a locking lever protection, which prevents kinking of the cables and breaking-off of the locking lever from the connector. Category 6 is simply identified by the red coloured connectors.

### Patch Cord Matrix and Configuration

Patch cords can be wide-ranging. Therefore we prepared a complete overview of our range, which guides you to the cable you require.

One E-Mail or one call will be enough and we will send you the latest version as a PDF file.

You can also check our Patch Cord Configuration tool on our website [www.digitus-professional.com](http://www.digitus-professional.com)



## Performance- and Specification Overview

|                        |  |
|------------------------|--|
| Conductor              | Stranded AWG 28/7 bare copper, 0.12 ± 0.005 mm                 |
| Insulations            | HD-PE (High Density Polyethylene)                              |
| Outer sheath           | LSZH (Low Smoke Zero Halogen)                                  |
| Overall diameter       | 4.8 mm ± 0.30 mm   |
| Bending radius         | 15x OD   |
| RJ45 connector         | 3 μ nominal gold flash over 60 μ nickel undercoat contact pins |
| Color code             | Orange x White, Green x White, Blue x White, Brown x White     |
| Wiring standard        | EIA/TIA 568B   |
| Pin assignment         | 1:1  |
| Durability             | 750 insertion cycles   |
| Contact resistance     | 30 mΩ maximum  |
| Resistance unbalance   | 3% maximum   |
| Dielectric strength    | 2500 VDC for 3 seconds   |
| Uninsulated resistance | 150 MΩ/km minimum  |
| Operating temperature  | -20 °C up to +60 °   |
| NVP                    | 69%  |
| Flame retardancy       | IEC 60332-1  |
| Smoke emission         | IEC 61034  |
| Typical applications   | IEEE 802.3: 10BASE-T; 100BASE-T; 1000BASE-T                    |
| Norms                  | ISO/IEC 11801-1; EN-50173; ANSI/TIA 568-C; EN 60603-7-4        |
| Colors                 | Various colors available on request                            |
| Marking                | Brand name, cable length and cable information                 |

## Transmission Properties

| Freq.  | Insertion Loss | NEXT  | RL    | ACR-N | ACR-F | PS NEXT | PS ACR-N | PS ACRF |
|--------|----------------|-------|-------|-------|-------|---------|----------|---------|
| MHz    | dB             | dB    | dB    | dB    | dB    | dB      | dB       | dB      |
| 1.00   | 4.00           | 65.00 | 19.00 | 61.00 | 63.30 | 62.00   | 58.00    | 60.30   |
| 10.00  | 6.60           | 56.60 | 19.00 | 50.00 | 43.30 | 54.00   | 47.40    | 40.30   |
| 20.00  | 9.30           | 51.60 | 17.50 | 42.30 | 37.20 | 49.00   | 39.70    | 34.20   |
| 25.00  | 10.50          | 50.00 | 17.00 | 39.60 | 35.30 | 47.30   | 36.90    | 32.30   |
| 62.50  | 16.90          | 43.40 | 14.00 | 26.50 | 27.30 | 40.60   | 23.70    | 24.30   |
| 100.00 | 21.70          | 39.90 | 12.00 | 18.20 | 23.30 | 37.10   | 15.40    | 20.30   |
| 200.00 | 31.70          | 34.80 | 9.00  | 3.10  | 17.20 | 31.90   | 0.10     | 14.20   |
| 250.00 | 35.90          | 33.10 | 8.00  | -2.80 | 15.30 | 30.20   | -5.80    | 12.30   |

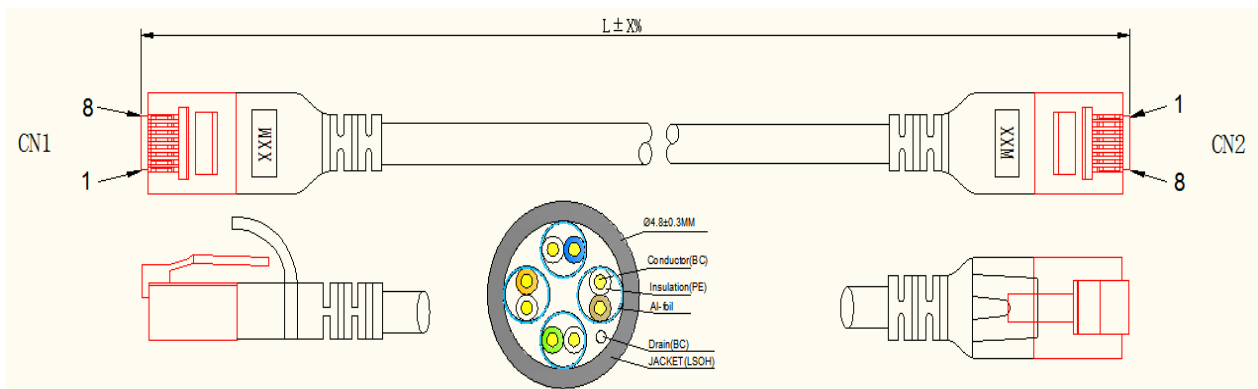
Die Ergebnisse in der obigen Tabelle sind typisch für Kategorie 6, Klasse E Patchkabel 2 m, 5 m bis zu 10 m Länge

### Length Tolerances

| Length (m) | Tolerance (mm) | Length (m) | Tolerance (mm) |
|------------|----------------|------------|----------------|
| 0.15       | +20/-6         | 8          | +/-155         |
| 0.25       | +20/-6         | 10         | +/-200         |
| 0.5        | +20/-10        | 12         | +/-250         |
| 0.75       | +20/-13        | 13         | +/-270         |
| 1          | +/-20          | 15         | +/-310         |
| 1.5        | +/-30          | 20         | +/-400         |
| 2          | +/-40          |            |                |
| 2.5        | +/-50          |            |                |
| 3          | +/-60          |            |                |
| 4          | +/-90          |            |                |
| 5          | +/-110         |            |                |
| 6          | +/-120         |            |                |
| 7          | +/-140         |            |                |
| 7.5        | +/-150         |            |                |

\*The cable length is measured from plug A to plug B

### Technical Drawing



#### MATERIAL LIST:

| NO. | PART NO:    | SPECIFICATION DESCRIPTION   |
|-----|-------------|---|
| ①   | CABLE       | U/FTP 28AWG ((7/0.12±0.005)*IPR+A)*4+Drain +LSOH OD: 4.8±0.3mm COLOR: Assorted upon request |
| ②   | CONNECTOR   | RJ45, 8P8C, TWO FORK GOLD PLATED CONTACTS RED TRANSPARENT                                   |
| ③   | MOLDING PVC | MOLDING PVC 45P COLOR: Assorted upon request  |

