

## Twisted Pair Patch Cord - Category 6A Class EA -Slim U/UTP - LSZH



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

### Short description

CAT 6A Class EA , U/UTP, Twisted Pair Patch Cord, Cu, LSZH, AWG 28/7, various lengths and colors available

### Technical Properties

2x RJ45 connectors (8P8C)  
Covers with kink protection, strain relief and locking lever protection  
Length indication on hoods  
Inner conductors: Copper (Cu)  
Halogen free: yes  
Pin Assignment: 1:1  
AWG cross-section: 28  
Anti-kink sleeve: moulded  
Connector 1 type: RJ45 8(8)  
Connector 2 type: RJ45 8(8)  
Cable design: 4x2  
Flame retardant version: yes  
Anti-kink sleeve colour: Grey  
Locking lever protection: yes  
NVP value: 76  
Oil resistant to EN 60811-404: no  
Bending radius: 4D (outer diameter x 4)  
Sheath colour: Grey

### Long Description

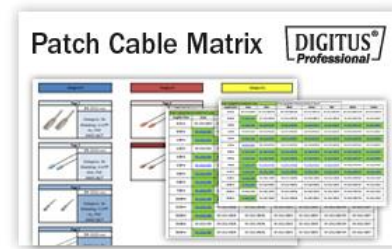
DIGITUS® slim patch cords are characterised by their small outer diameter and flexible sheath. Slim design enables versatile use in your network. Moreover, DIGITUS® slim patch cords are manufactured according to ISO/IEC 11801 and DIN EN 50173 CAT 6A standards. They guarantee that the cable installation complies with the ISO & EN channel specification and provide excellent performance in DIGITUS® CAT 6A cabling. Performance was tested up to 500 MHz, including performance characteristics such as near-end crosstalk ("NEXT"). DIGITUS® 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       | 3.65 mm ± 0.30 mm                                              |
| Bending radius         | 8x 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                 |

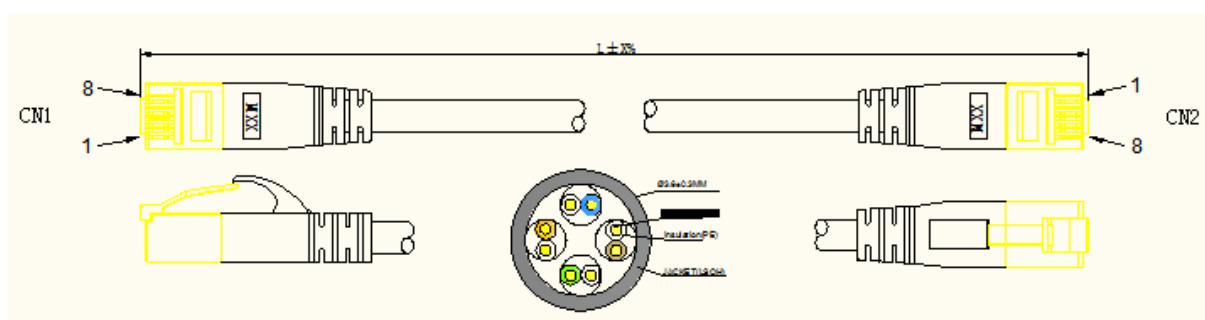
## Transmission Properties

| Freq.  | Insertion Loss | NEXT  | RL    | ACR-F | PS NEXT | PS ACRF |
|--------|----------------|-------|-------|-------|---------|---------|
| MHz    | dB             | dB    | dB    | dB    | dB      | dB      |
| 1.00   | 4.00           | 65.00 | 19.00 | 63.30 | 62.00   | 60.30   |
| 10.00  | 6.50           | 56.60 | 19.00 | 43.30 | 54.00   | 40.30   |
| 20.00  | 9.20           | 51.60 | 17.50 | 37.20 | 49.00   | 34.20   |
| 25.00  | 10.20          | 50.00 | 17.00 | 35.30 | 47.30   | 32.30   |
| 62.50  | 16.40          | 43.40 | 14.00 | 27.30 | 40.60   | 24.30   |
| 100.00 | 20.90          | 39.90 | 12.00 | 23.30 | 37.10   | 20.30   |
| 200.00 | 30.10          | 34.80 | 9.00  | 17.20 | 31.90   | 14.20   |
| 350.00 | 40.60          | 30.30 | 6.60  | 12.40 | 27.60   | 9.40    |
| 500.00 | 49.30          | 27.90 | 6.00  | 9.30  | 24.80   | 6.30    |

## Order information and length tolerances

| Article No      | *Length (m) | Tolerance (mm)                                       |
|-----------------|-------------|------------------------------------------------------|
| DK-1617-A-0025S | 0.25        | +20/-6                                               |
| DK-1617-A-005S  | 0.5         | +20/-10                                              |
| DK-1617-A-010S  | 1.0         | +/-20                                                |
| DK-1617-A-015S  | 1.5         | +/-30                                                |
| DK-1617-A-020S  | 2.0         | +/-40                                                |
| DK-1617-A-025S  | 2.5         | +/-50                                                |
| DK-1617-A-030S  | 3.0         | +/-60                                                |
| DK-1617-A-050S  | 5.0         | +/-110                                               |
| DK-1617-A-050S  | 5.0         | +/-110                                               |
| DK-1617-A-070S  | 7.0         | +/-140                                               |
| DK-1617-A-100S  | 10          | +/-200                                               |
|                 |             | * The cable length is measured from plug A to plug B |

## Technical Drawing



### MATERIAL LIST:

| NO. | PART NO:    | SPECIFICATION DESCRIPTION                                                              |
|-----|-------------|----------------------------------------------------------------------------------------|
| ①   | CABLE       | U/UTP 28AWG (7/0.12 ± 0.005) *4PR+LSOH<br>OD: 3.6 ± 0.3mm COLOR: Assorted upon request |
| ②   | CONNECTOR   | RJ45, 8P8C, TWO FORK GOLD PLATED CONTACTS<br>YELLOW TRANSPARENT                        |
| ③   | MOLDING PVC | MOLDING PVC 45P COLOR: Assorted upon request                                           |

