**Twisted Pair Patch Cord - Category 6 Class E - U/UTP – TPE-LSZH**



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


## Abstract

CAT 6 Class E, U/UTP, Twisted Pair Patch Cord, Cu, TPE-LSZH, AWG 26/7, various lengths and colors available


## Features

- 2x RJ45 (8P8C) connectors
- Boots with kink protection, strain relief and latch protection
- Length marking on boot
- Conductor: Cu (Copper)
- Shielding: U/UTP (unshielded)
- Structure: 4x 2 AWG 26/7, twisted pair; incl. plastic cross separator
- Sheath: TPE-LSZH (Thermoplastic Elastomer - Low Smoke Zero Halogen)
- Supports: PoE, PoE+, PoE++ (IEEE 802.3af; 3at; bt)

## Product Overview

The DIGITUS Category 6 Class E patch cords are manufactured and tested to the ISO/IEC 11801 and DIN EN 50173 Category 6 specifications. They will guarantee the installed cabling system is compliant with the ISO & EN channel specification requirements and will provide optimum performance levels of DIGITUS Category 6 cabling. The performance is tested up to 250 MHz inclusive performance characteristics such as near end cross talk (“NEXT”).
DIGITUS patch cords are designed and produced to fulfill the highest requirements of various application areas in full volume.
Each cable is fitted with a molded boot which comes with kink protection and strain relief.
Furthermore the boot is equipped with a latch protection that prevents the latching lever against breaking.
You can easily identify the Category 6, because of the transparent red colored connector.



Druckfehler, Irrtümer und technische Änderungen sind vorbehalten. | Printing errors, falsities and technical changes remain reserved.

## Performance- and Specification Overview

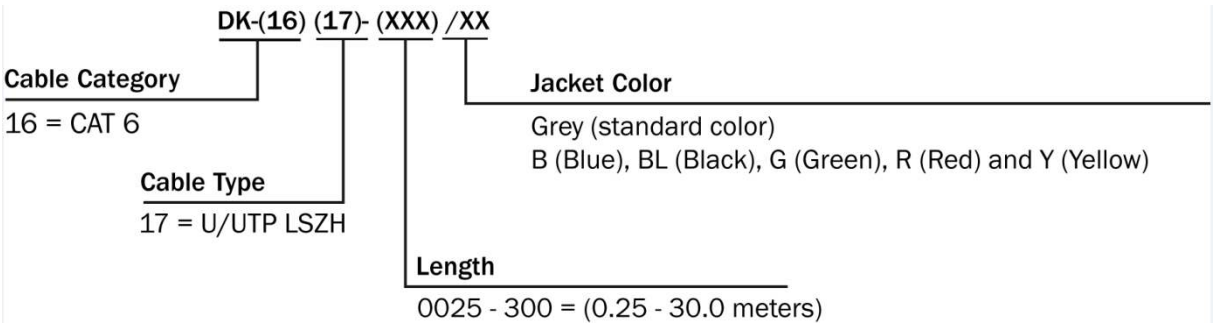
| | |
|---|---|
| Conductor | Stranded AWG 26/7 bare copper, 0.145 ± 0.005 mm |
| Outer sheath | TPE-LSZH (Thermoplastic Elastomer - Low Smoke Zero Halogen) |
| Overall diameter | 4.8 mm ± 0.30 mm |
| Bending radius | 8x OD |
| RJ45 connector | 3 µ nominal gold flash over 60 µ nickel undercoat contact 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-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

## Product Number Information



## Order information and Length Tolerances

| Article No | #Length (m) | Tolerance (mm) |
|---|---|---|
| DK-1617-0025* | 0.25 | +20/-6 |
| DK-1617-005* | 0.5 | +20/-10 |
| DK-1617-010* | 1.0 | +/-20 |
| DK-1617-015 | 1.5 | +/-30 |
| DK-1617-020* | 2.0 | +/-40 |
| DK-1617-025 | 2.5 | +/-50 |
| DK-1617-030* | 3.0 | +/-60 |
| DK-1617-050* | 5.0 | +/-110 |
| DK-1617-070* | 7.0 | +/-140 |
| DK-1617-100* | 10 | +/-200 |
| DK-1617-150 | 15 | +/-310 |
| DK-1617-200 | 20 | +/- 470 |
| DK-1617-250 | 20 | +/- 490 |
| DK-1617-300 | 30 | +/-510 |
| *available in different colors see below | | # The cable length is measured from plug A to plug B |
| DK-1617-30S/Y=Yellow other colors B= Blue; BL=Black; G=Green; R=Red | | |

## Technical Drawing

