

## Twisted Pair Patch Cord - Category 6 Class E - U/UTP



- ✓ PVC
- ✓ 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, PVC, 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
- Shielding: U/UTP (unshielded)
- Structure: 4x 2 AWG 26/7, twisted pair; incl. plastic cross separator
- Sheath: PVC

### 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.

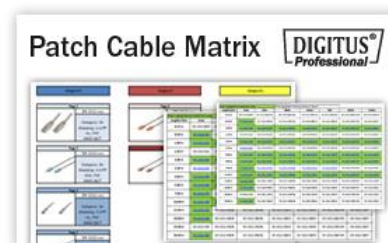
You can easily identify the Category 6, because of the transparent red colored connector.

### 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

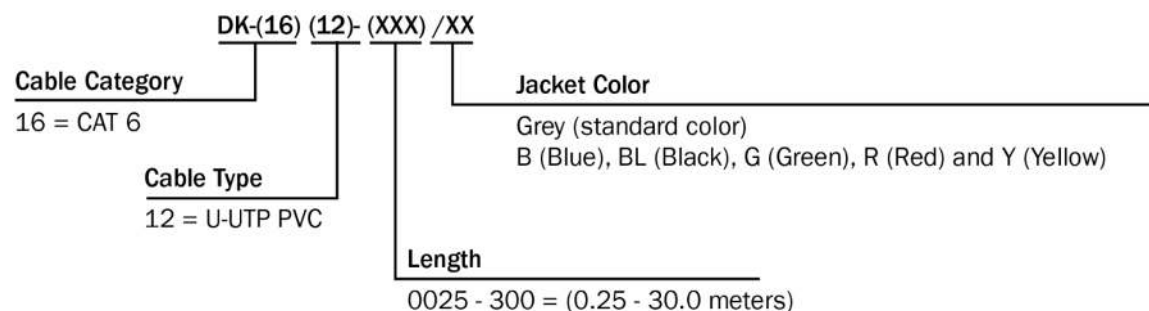
|                        |                                                                |
|------------------------|----------------------------------------------------------------|
| Conductor              | Stranded AWG 26/7, 0.152 ± 0.005 mm                            |
| Insulations            | HD-PE (High Density Polyethylene)                              |
| Outer sheath           | PVC                                                            |
| Overall diameter       | 5.0 mm ± 0.3 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%                                                            |
| 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   |

The results in the table above are typical for Category 6 Class E patch cords 2 m, 5 m up to 10 m length

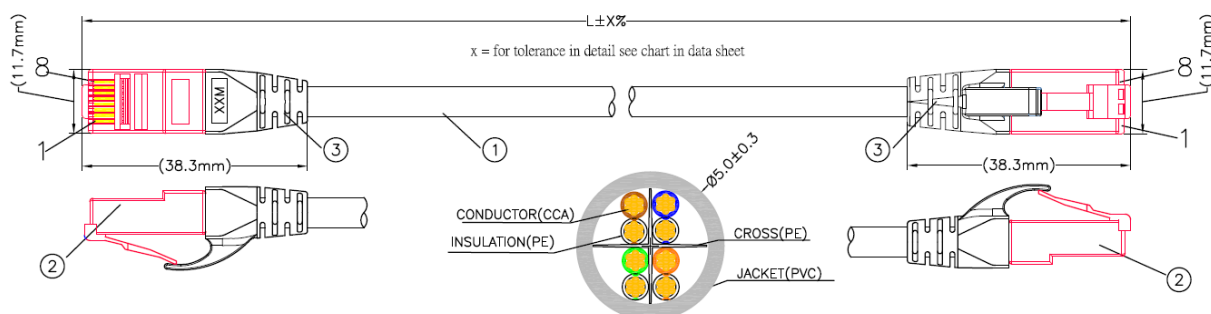
## Product Number Information



## Length Tolerances

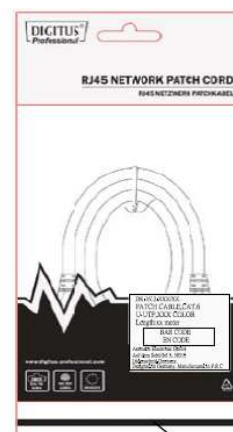
| Length (m) | Tolerance (mm) | Length (m)                                          | Tolerance (mm) |
|------------|----------------|-----------------------------------------------------|----------------|
| 0.15       | +20/-6         | 8                                                   | +/-155         |
| 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          | 25                                                  | +/-500         |
| 2.5        | +/-50          | 30                                                  | +/-630         |
| 3          | +/-60          | 40                                                  | +/-840         |
| 4          | +/-90          | 50                                                  | +/-1000        |
| 5          | +/-110         | 70                                                  | +/-1300        |
| 6          | +/-120         | 75                                                  | +/-1500        |
| 7          | +/-140         | 100                                                 | +/-1800        |
| 7.5        | +/-150         | *The cable length is measured from plug A to plug B |                |

## Technical Drawing



### MATERIAL LIST:

| NO. | PARTS NAME     | SPECIFICATION DESCRIPTION                                                                        |
|-----|----------------|--------------------------------------------------------------------------------------------------|
| ①   | CABLE          | U/UTP [26AWG(CCA 7/0.152±0.005)*1PR]*4+PE CROSS +PVC<br>OD:5.0±0.3mm COLOR:Assorted upon request |
| ②   | RJ45 CONNECTOR | RJ45,8P8C,TWO FORK GOLD PLATED CONTACTS<br>RED TRANSPARENT                                       |
| ③   | MOLDING PVC    | MOLDING PVC 45P COLOR:Assorted upon request                                                      |



Heat Seal