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## Twisted Pair Patch Cable - Category 6 Class E - S/FTP



✓ 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, S/FTP, Twisted Pair Patch Cable, Cu, LSZH, AWG 27/7, 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: S/FTP (complete braid shielding, pairs foil shielded)
- Structure: 4x 2 AWG 27/7, twisted pair
- Sheath: LSZH (Low Smoke Zero Halogen)
- PoE+ ready

### Product Overview

The DIGITUS<sup>®</sup> Category 6 Class E patch cables 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<sup>®</sup> Category 6 cabling. The performance is tested up to 250 MHz inclusive performance characteristics such as near end cross talk ("NEXT").

DIGITUS<sup>®</sup> patch cables 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.

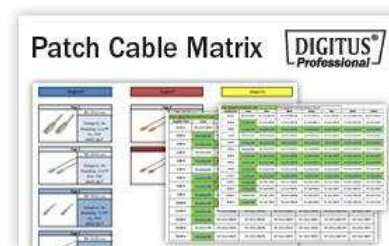
You can easily identify the Category 6, because of the transparent red colored connector.

### Patch Cable Matrix and Configuration

Patch cables 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 Cable Configuration tool on our website [www.digitus-professional.com](http://www.digitus-professional.com)



### Performance- and Specification Overview

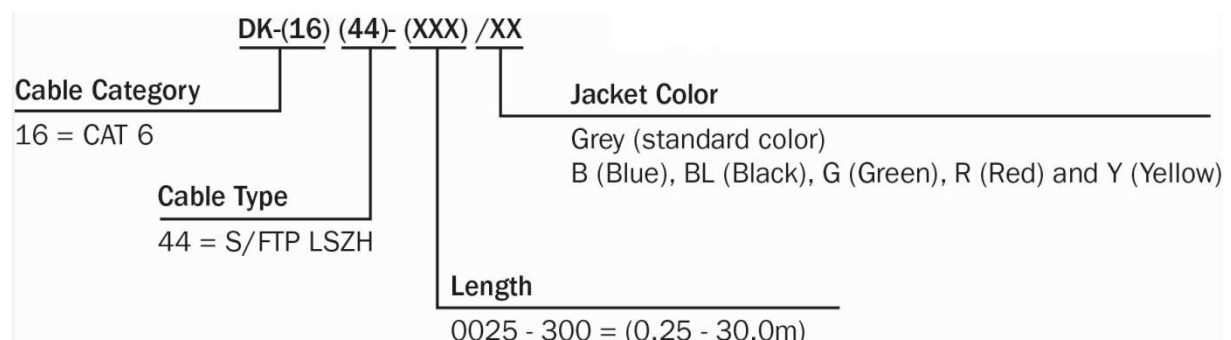
|                        |  |
|------------------------|--|
| Conductor              | Stranded AWG 27/7 bare copper, 0.127 ± 0.005 mm                |
| Insulations            | FO-PE (Foamed Polyethylene)                                    |
| Outer sheath           | LSZH (Low Smoke Zero Halogen)                                  |
| Overall diameter       | 5.7 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 586B   |
| 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                    | 76%  |
| 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 60603-7-5        |
| 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 of the chart above are typical for Category 6, Class E patch cables 2 m, 5 m up to 10 m length

### Product Number Information

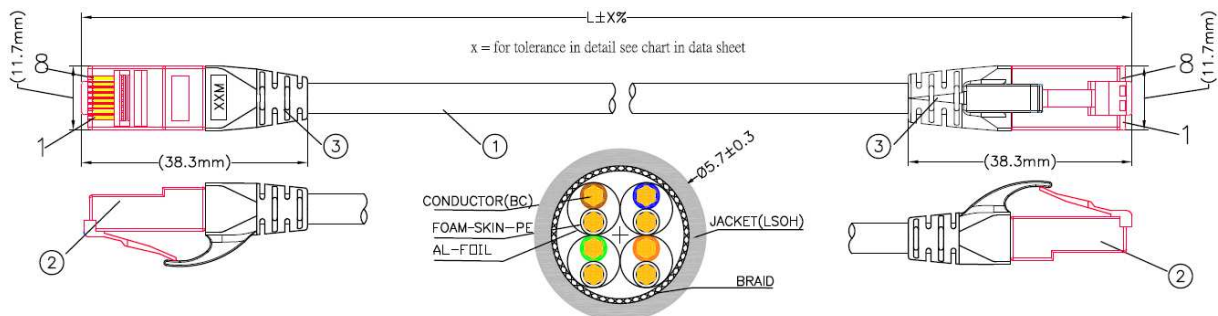


## Length Tolerances

| 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         |            |                |

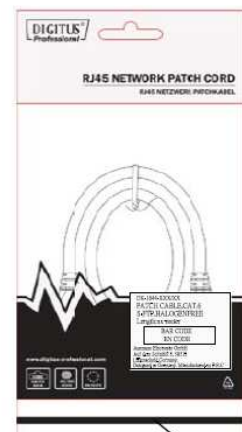
\*The cable length is measured from plug A to plug B

## Technical Drawing



### MATERIAL LIST:

| NO. | PARTS NAME     | SPECIFICATION DESCRIPTION   |
|-----|----------------|---|
| ①   | CABLE          | S/FTP [27AWG(BC 7/0.127±0.005)*1PR+A]*4+B(AL-MG)+LSOH<br>OD:5.7±0.3mm COLOR:Assorted upon request |
| ②   | RJ45 CONNECTOR | RJ45,8P8C,TWO FORK GOLD PLATED CONTACTS<br>RED TRANSPARENT WITH METAL HOUSING (IRON SHELL )       |
| ③   | MOLDING PVC    | MOLDING PVC 45P COLOR:Assorted upon request   |



Heat Seal