

## Twisted Pair Patch Cable - Category 6<sub>A</sub> Class E<sub>A</sub> - U/UTP



✓ LSZH (Low Smoke Zero Halogen)

✓ Yellow colored plug for CAT 6<sub>A</sub>

✓ Kink prot., strain relief, latch prot.

✓ various lengths and colors available

### Abstract

CAT 6<sub>A</sub> Class E<sub>A</sub>, U/UTP, Twisted Pair Patch Cable, Cu, 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: LSZH (Low Smoke Zero Halogen)
- PoE+ ready

### Product Overview

The DIGITUS<sup>®</sup> Category 6<sub>A</sub> Class E<sub>A</sub> patch cables are manufactured and tested to the ISO/IEC 11801 and DIN EN 50173 Category 6<sub>A</sub> 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<sub>A</sub> cabling. The performance is tested up to 500 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.

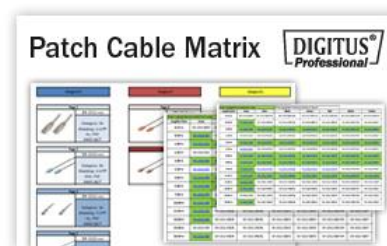
You can easily identify the Category 6<sub>A</sub>, because of the transparent yellow colored connector.

### 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

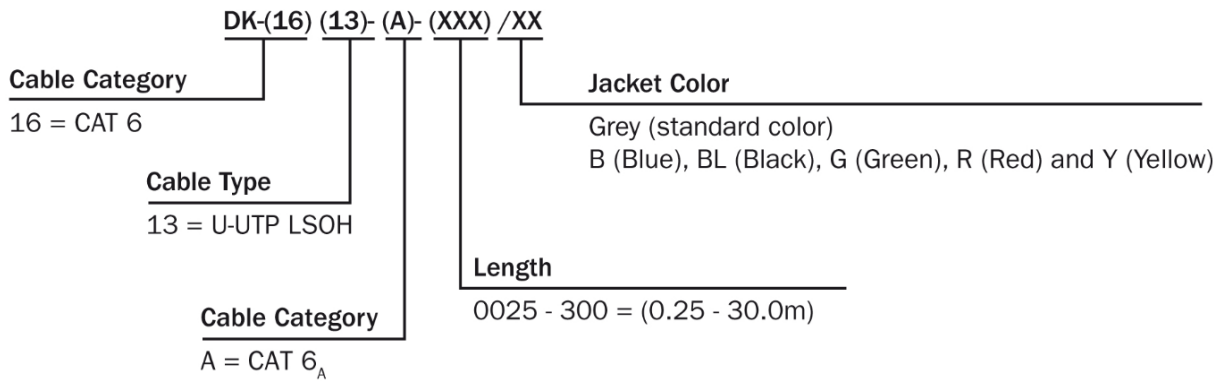
Conductor	Stranded AWG 26/7 bare copper, 0.155 ± 0.01 mm
Insulations	HD-PE (High Density Polyethylene)
Outer sheath	LSZH (Low Smoke Zero Halogen)
Overall diameter	5.0 mm ± 0.2 mm
Bending radius	8x OD
RJ45 connector	3 μ minimum gold-plated in confined area (gold flash over remainder) over 60 μ nickel undercoat
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	230 Ω maximum
Resistance unbalance	2% maximum
Dielectric strength	2500 VDC for 3 seconds
Uninsulated resistance	150 MΩ/km minimum
Operating temperature	-20 °C up to +60 °C
Flame retardancy	IEC 60332-1
Smoke emission	IEC 61034
Typical applications	IEEE 802.3: 10BASE-T; 100BASE-T; 1000BASE-T; 10GBASE-T
Norms	ISO/IEC 11801-1; EN-50173; ANSI/TIA 568-C; EN 60603-7-41
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
4.00	4.20	63.00	19.00	51.20	60.50	48.20
8.00	5.80	58.20	19.00	45.20	55.60	42.20
10.00	6.50	56.60	19.00	43.30	54.00	40.30
16.00	8.20	53.20	18.00	39.20	50.60	36.20
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
31.25	11.50	48.40	16.50	33.40	45.70	30.40
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
250.00	33.90	33.10	8.00	15.30	30.20	12.30
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

The results of the chart above are typical for Category 6<sub>A</sub> Class E<sub>A</sub> 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

