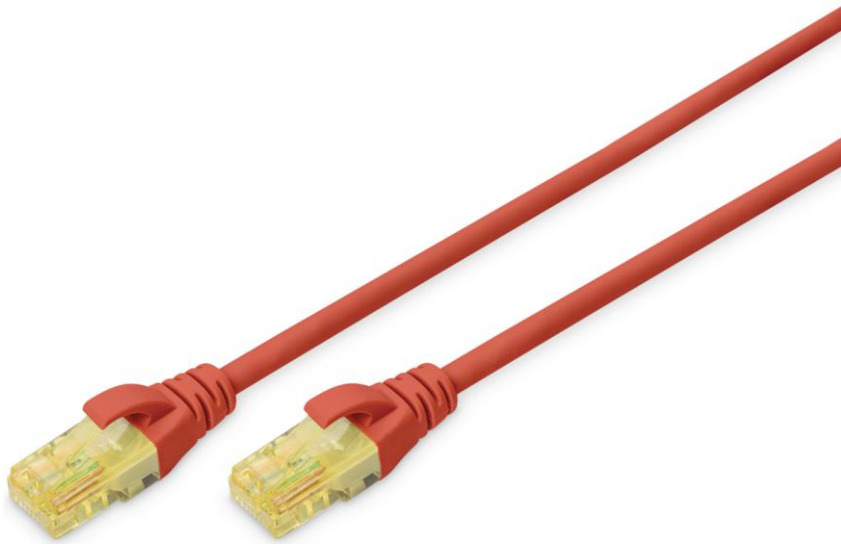




## Twisted Pair Patch Cord - Category 6A Class E<sub>A</sub> - U/UTP



### Abstract

CAT 6<sub>A</sub> Class E<sub>A</sub>, U/UTP, Twisted Pair Patch Cord, Cu, LSZH, AWG 26/7, various lengths and colors available

### Features

- CAT 6 A 500 MHz
- Conductor: Cu (Copper)
- Shielding: U/UTP (unshielded)
- Structure: 4x 2 AWG 26/7, twisted pair; incl. plastic cross separator
- Outer jacket: TPE-LSZH
- Colors: Red
- 2x RJ45 (8P8C) connectors
- Transparent yellow color connector
- Boots with kink protection, strain relief and latch protection
- Length marking on boot
- PoE+ ready

### Product Overview

The DIGITUS® Category 6<sub>A</sub> Class E<sub>A</sub> patch cords 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® 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® 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<sub>A</sub>, because of the transparent yellow colored connector.



### Performance- and Specification Overview

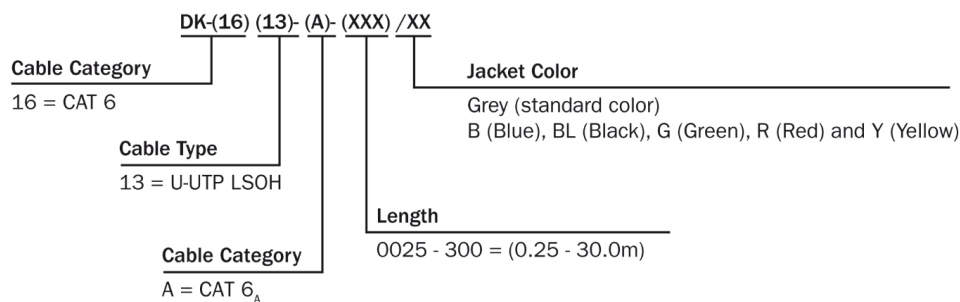
Conductor	Stranded AWG 26/7 bare copper, 0.151 ± 0.005 mm
Insulations	HD-PE (High Density Polyethylene)
Outer sheath	LSZH (Low Smoke Zero Halogen)
Overall diameter	5.0 mm ± 0.30 mm
Bending radius	8x OD
RJ45 connector	3 μ nominal gold flash over 60 μ nickel undercoat contact pins
Color code	Orange x White, 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	68.2%
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
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

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

