Twisted Pair Patch Cable - Category 6_A Class E_A - S/FTP

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

Abstract

CAT 6_A Class E_A, S/FTP, Twisted Pair Patch Cable, Cu, LSZH, AWG 26/7, various lengths and colors available

Features

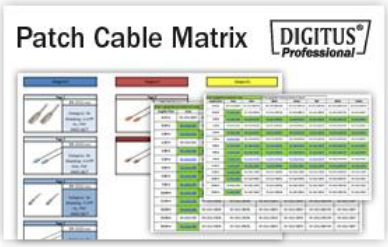
- 2x RJ45 (8P8C) connectors
- Boots with kink protection, strain relief and latch protection
- Length marking on boot
- Conductor: Cu (Copper)
- Shielding: S/FTP (complete braid shielding, pairs foil shielded)
- Structure: 4x 2 AWG 26/7, twisted pair
- Sheath: LSZH (Low Smoke Zero Halogen)
- PoE+ ready

Product Overview

The DIGITUS® Category 6_A Class E_A patch cables are manufactured and tested to the ISO/IEC 11801 and DIN EN 50173 Category 6_A 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_A cabling. The performance is tested up to 500 MHz inclusive performance characteristics such as near end cross talk (“NEXT”).
DIGITUS® 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_A, 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*



Performance- and Specification Overview

Conductor	Stranded AWG 26/7 bare copper, 0.15 ± 0.002 mm
Insulations	FO-PE (Foamed Polyethylene)
Outer sheath	LSZH (Low Smoke Zero Halogen)
Overall diameter	5.9 mm ± 0.15 mm
Bending radius	15x 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 60603-7-51
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_A, Class E_A patch cables 2 m, 5 m up to 10 m length

Product Number Information

DK-(16) (44)- (A)- (XXX) /XX

Cable Category
16=CAT 6

Cable Type
44=S-FTP LSZH

Cable Category
A=CAT 6_A

Length
0025-300=(0.25-30.0m)

Jacket Color
Grey (standard color)
B (Blue), BL (Black), G (Green), R (Red) and Y (Yellow)

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