

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



### Abstract

CAT 6<sub>A</sub> Class E<sub>A</sub>, U/FTP, Twisted Pair Patch Cable, Raw, AWG 26/7, LSZH, 500 MHz

### Application areas

Primary (Campus), Secondary (Riser), Tertiary (Horizontally)  
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T  
IEEE 802.5: 16 MB; ISDN; FDDI; ATM; PoE/PoE+

### Norms

ANSI/TIA-568-C; ISO/IEC 11801 2<sup>nd</sup> Ed.; EN 50173; EN 50288-10-1

### FRNC (flame retardancy)

IEC 60332-1; IEC 60754-2; IEC 61034

### Physical Properties

Conductor	Bare annealed copper, stranded AWG 26/7
Insulation	HD-PE (High Density Polyethylene)
Total number of insulated conductors	8, twisted in 4 pairs
Color code	Blue-white, orange-white, green-white, brown-white
Individual pair shielding	Aluminum foil
Overall shielding	None
Outer sheath	LSZH
Outer sheath diameter	0.55 mm nominal
Outer sheath color	Grey

### Mechanical Properties

Tensile loading	150 N max.
Dynamic bending radius	8x AD mm min.
Static bending radius	4x AD mm min.
Shipping- and storage temperature range	-10 °C up to +75 °C
Operating temperature range	-10 °C up to +60 °C
Installations temperature range	0 °C up to +50 °C
Overall diameter	5.8 mm nominal
Flame retardancy	IEC 60332-1 (LSZH-1/FRNC-B)
Halogen free & smoke-proof	IEC 60754-2 & IEC 61034

### Electrical Properties

DC loop resistance	≤ 280 Ω km
Resistance unbalance	≤ 2%
Insulation resistance	≥ 2000MΩ/km @ 500V
Capacitance	nom. 48 nF/km @ 800 Hz
Capacitance unbalance (pair-ground)	≤ 1500 nF/km
Characeristic Impedance	100 ± 15 Ohm @ 10-100 MHz
NVP	67%
Propagation delay	nom. ≤ 555 ns/100 m
Delay skew	nom. ≤ 50 ns/ 100 m
Test voltage (DC 1 min) core/core	1000V
Coupling attenuation	≥ 4 dB

### Transmission Properties

FREQ.	ATT	NEXT	PS NEXT	RL	ACR	PS ACR	ELFEXT	PS ELFEXT
MHz	dB	dB	dB	dB	dB	dB	dB	dB
10	6.5	56.6	54.0	19.0	43.3	40.3	43.3	40.3
100	20.9	39.9	37.1	12.0	23.3	20.3	23.3	20.3
200	30.1	34.8	31.9	9.0	17.2	14.2	17.2	14.2
250	33.9	33.1	30.2	8.0	15.3	12.3	15.3	12.3
300	37.4	31.7	28.8	7.2	13.7	10.7	13.7	10.7
500	49.3	26.1	23.2	6.0	9.3	6.3	9.3	6.3

### Product Number Information

Item code	Length	Packaging
DK-1623-A-P-1	100 m	Carton
DK-1623-A-P-305	305 m	Carton

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