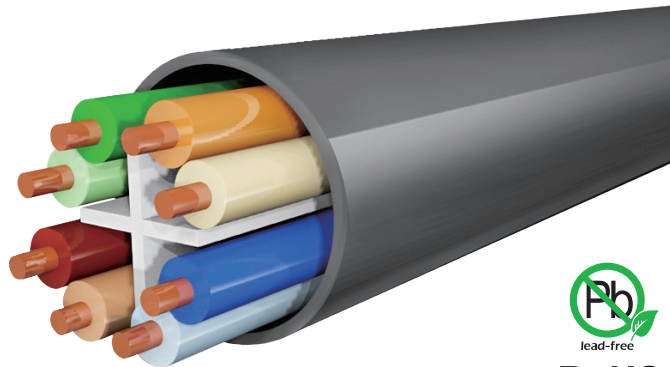
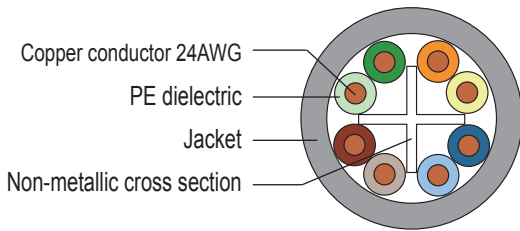


## ONE CAT6 U/UTP Data Sheet

### Kordz ONE CAT6 U/UTP 24AWG Solid OFC UHD/4K Video/Data Network Cable

Kordz Cat6 cables are engineered and manufactured to perform to the required standards for transmitting data over local area networks (LANs) and now with the increase in streaming AV over LAN, the demand for faster data transmission and better performance in the cabling, whilst maintaining cost effectiveness, is growing rapidly.

- Suitable for 10BASE-T, 100BASE-TX, 1000BASE-T/1000BASE-TX(Gigabit Ethernet),
- Decreased time for installation with new outer jacket material
- Smaller, more compact easy-pull reel packaging
- Available in LSZH and UL CM versions
- Available in a range of jacket colors



RoHS

Reference Standards: ANSI/TIA-568-C.2

Technical Specifications	
<b>Construction</b>	
Conductor	Solid OFC annealed bare copper wire 0.537 +0/-0.015mm [24AWG]
Insulation	Polyethylene, 0.97 +/-0.05 mm
Twisting	4 twisted pairs, 2 cores to each pair
Twisted pair color code	1: white-blue/blue 2: white-orange/orange 3: white-green/green 4: white-brown/brown
Cable Lay up	4 pairs with different pitches Non-metallic cross separator (spine)
Outer diameter	5.7 +/-0.3 mm
<b>Mechanical Properties</b>	
Bend Radius	without load ≥ 22.8mm /0.89" with load ≥ 45.6mm /1.79"
Temperature range	During operation -20°C to 60°C During installation 0°C to 50°C
<b>Electrical Properties - at 20°C ± 5°C</b>	
DC resistance	≤ 9.38Ω / 100m at 20°C
Resistance unbalance	≤ 5% at 20°C
Insulation resistance (500V)	≥ 5000MΩ / km at 20°C
Mutual capacitance	≤ 5.6 nF / 100m at 1kHz
Capacitance unbalance (pair to ground)	≤ 330 pF / 100m at 1kHz
Nominal velocity of propagation	nom. 67% c
Test voltage	1kV DC / 1 min

Material/Marking and Fire Rating		
Material	Marking	Fire Rating
LSZH	Kordz ONE Solid OFC UHD/4K Video/Data Network Cable. ETL VERIFIED TIA-568-C.2 (3081133CRT-009) LSZH CAT6 U/UTP 24AWG.Kordz.com	IEC 60332-1
FRPVC	Kordz ONE Solid OFC UHD/4K Video/Data Network Cable. ETL VERIFIED TIA-568-C.2 (2042398CRT-004) CM CAT6 U/UTP 24AWG.Kordz.com	UL 444 CM

Technical Data Sheet

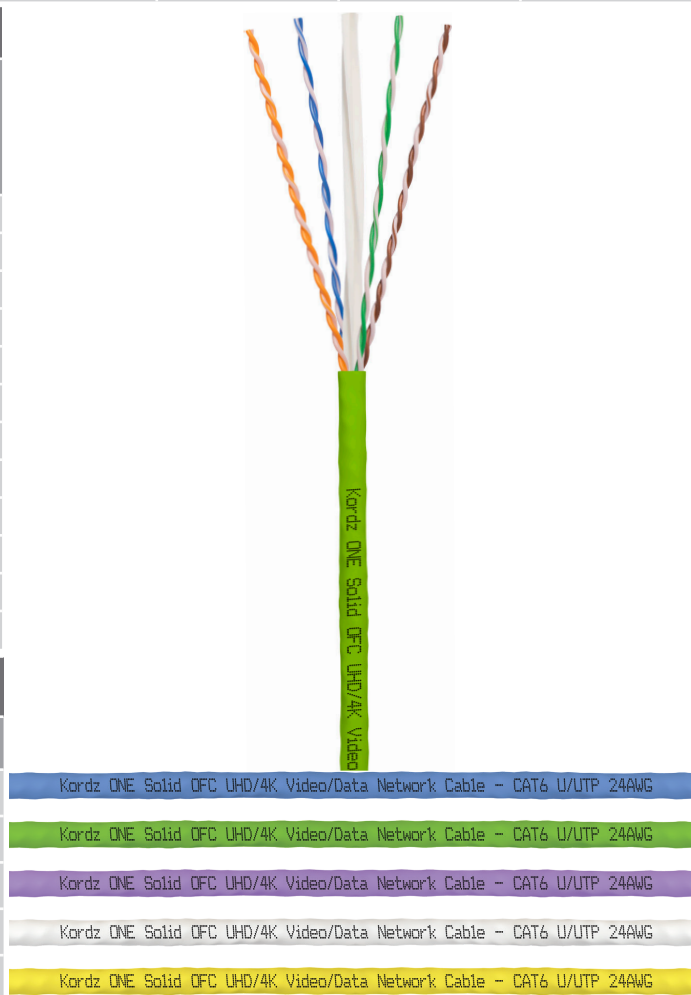
# ONE CAT6 U/UTP Data Sheet

## Meets Transmission Performance acc. to ANSI/TIA-568-C.2 Cat.6 (20°C)

Frequency (MHz)	Fitted Impedance (Ohms)	Insertion loss (dB) Max.	NEXT (dB) Min.	PSNEXT (dB) Min.	ACRF (dB) Min.	PSACRF (dB) Min.
1	100 +/- 15	2.0	74.3	72.3	67.8	64.8
4		3.8	65.3	63.3	55.8	52.8
8		5.3	60.8	58.8	49.7	46.7
10		6.0	59.3	57.3	47.8	44.8
16		7.6	56.2	54.2	43.7	40.7
20		8.5	54.8	52.8	41.8	38.8
25		9.5	53.3	51.3	39.8	36.8
31.25		10.7	51.9	49.9	37.9	34.9
62.5		15.4	47.4	45.4	31.9	28.9
100		19.8	44.3	42.3	27.8	24.8
200		29.0	39.8	37.8	21.8	18.8
250		32.8	38.3	36.3	19.8	16.8

Frequency (MHz)	Delay Skew (ns) Max.	Return Loss (dB) Min.	Propagation Delay (ns) Max.
1	45	20.0	570.0
4		23.0	552.0
8		24.5	546.7
10		25.0	545.4
16		25.0	543.0
20		25.0	542.0
25		24.3	541.2
31.25		23.6	540.4
62.5		21.5	538.6
100		20.1	537.6
200		18.0	536.5
250		17.3	536.3

Jacket Colours	
Colour	Reference No.
Blue	RAL 5015
Green	RAL 6018
Purple	RAL 4005
White	RAL 9003
Yellow	RAL 1018



Packaging Details	
Roll Size	305m / 1000ft - metre marked
Carton dimensions	330mm (W) x 265mm (D) x 340mm (H) / 13.0in (W) x 10.4in (D) x 13.4in (H)
Volume	0.03m <sup>2</sup> / 1.05 cu. ft.
Gross weight	13.8kg / 30.4lbs