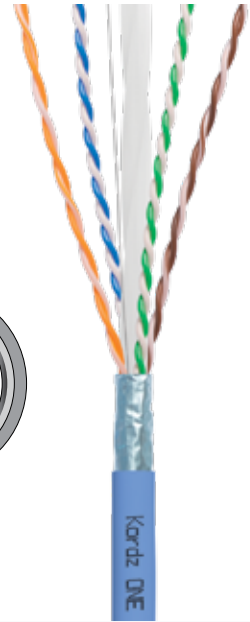


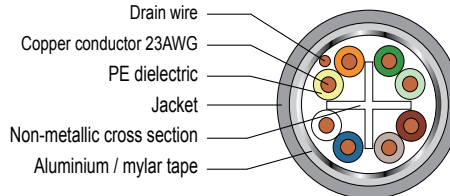
Connectivity.Assured

# ONE CAT6a F/UTP 23AWG Network Data Cable

The Kordz ONE Series CAT6a cable has been designed and engineered to provide a cable system infrastructure with assurance for advanced applications that demand more bandwidth and greater performance. This makes for a more robust and complex system at Gigabit speed and full duplex transmissions. This premium shielded twisted pair (F/UTP) cable with grounding, provides industry-leading protection inherent in complex systems from external cable noise sources, also known as alien crosstalk or EMI (electromagneticinterference).The new smaller and more compact Rapid-EZ-Reel packaging allows the easy flow of cable from the box, whilst keeping the cable from twisting and curling, greatly minimising snags during installation therefore saving precious time.



- Suitable for 10BASE-T, 100BASE-TX, 1000BASE-T/1000BASE-TX (Gigabit) & 10GBaseT, PoE & PoE+
- F/UTP Ethernet CAT6a
- Four Twisted Pairs 23 AWG Solid Copper Conductors
- PVC Separator Reduces Crosstalk Between Pairs
- Mylar laminated aluminium tape shielding with a 26AWG drain wire
- Suitable for IDC Terminations
- Supplied in the durable Rapid-EZ-Reel packaging – 152.5m (500ft)
- Metre Marked
- 5 colours available: Blue, Green, White, Yellow & Purple
- Exceeds ANSI/TIA 568-C.2 and ISO/IEC 61156-5 standards
- Available in LSZH - IEC60332-3-25 and UL 444 CM fire rated versions
- CPR Declared Performance: ONE-CAT6A: Dca-s1, d2, a1 (EN 50575:2014+A1:2016)



## Technical Specifications

### Construction

Conductor	Solid OFC annealed bare copper wire 0.561 +0/-0.015mm [23AWG]	
Insulation	Orange & Brown pairs	Polyethylene (PE), 1.12+/-0.05 mm
	Blue & Green pairs	Foam PE, 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	
	4 pairs with different pitches	
Cable lay up	Non-metallic cross separator (spine)	
Shielding	Drain wire [26AWG]	
	Mylar tape laminated with aluminium foil as a shield	
Outer diameter	7.4 +/-0.3 mm	

### Mechanical Properties

Bend Radius	without load ≥ 29.6mm /1.16"	
	with load ≥ 59.2mm /2.33"	
Temperature range	During operation	-20°C to 60°C
	During installation	0°C to 50°C

### Electrical Properties - at 20°C ± 5°C

DC resistance	≤ 9.38Ω / 100m at 20°C
Resistance unbalance	≤ 2% at 20°C
Insulation resistance (500V)	≥ 5000MΩ / km at 20°C
Mutual capacitance	≤ 5.1 nf / 100m at 1khz
Capacitance unbalance (pair to ground)	≤ 160 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 Network Cable. ETL VERIFIED TIA-568-C.2 (100372289CRT-001c) LSZH CAT6A F/UTP 23AWG . Kordz.com	IEC 60332-3-25
FRPVC	Kordz ONE Solid OFC UHD/4K Video Network Cable. ETL VERIFIED TIA-568-C.2 (100709714CRT-002c) CM CAT6A F/UTP 23AWG . Kordz.com	UL 444 CM

kordz.com



# ONE CAT6a F/UTP 23AWG Network Data Cable

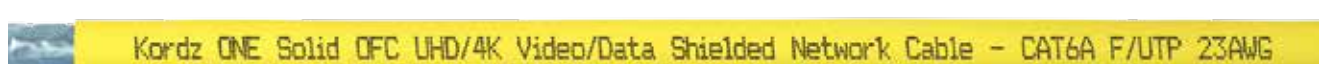
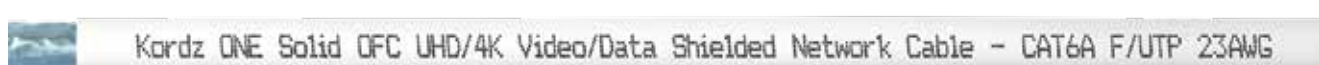
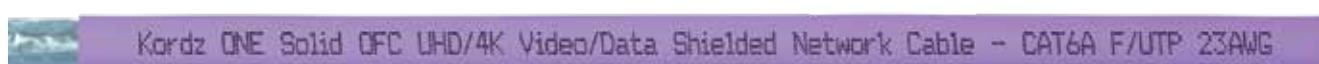
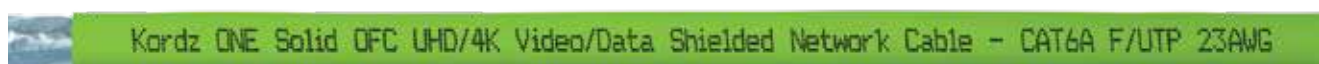
Meets Transmission Performance acc. to ANSI/TIA-568-C.2 Cat.6a (20°C)

Frequency (MHz)	Fitted Impedance (Ohms)	Attenuation (dB) Max.	NEXT (dB) Min.	PSNEXT (dB) Min.	ACRF (dB) Min.	PSACRF (dB) Min.	Return Loss (dB) Min.	Propagation Delay (ns) Max.	Delay Skew (ns) Max.	PSANEXT (dB) Min.	PSAACRF (dB) Min.
1	100 +/- 15	2.1	74.3	72.3	67.8	64.8	20.0	570	45	67.0	67.0
4		3.8	65.3	63.3	55.8	52.8	23.0	552		67.0	66.2
8		5.3	60.8	58.8	49.7	46.7	24.5	547		67.0	60.1
10		5.9	59.3	57.3	47.8	44.8	25.0	545		67.0	58.2
16		7.5	56.2	54.2	43.7	40.7	25.0	543		67.0	54.1
20		8.4	54.8	52.8	41.8	38.8	25.0	542		67.0	52.2
25		9.4	53.3	51.3	39.8	36.8	24.3	541		67.0	50.2
31.25		10.5	51.9	49.9	37.9	34.9	23.6	540		67.0	48.3
62.5		15.0	47.4	45.4	31.9	28.9	21.5	539		65.6	42.3
100		19.1	44.3	42.3	27.8	24.8	20.1	538		62.5	38.2
200		27.6	39.8	37.8	21.8	18.8	18.0	537		58.0	32.2
250		31.1	38.3	36.3	19.8	16.8	17.3	536		56.5	30.2
300		34.3	37.1	35.1	18.3	15.3	16.8	536		55.3	28.7
400		40.1	35.3	33.3	15.8	12.8	15.9	536		53.5	26.2
500		45.3	33.8	31.8	13.8	10.8	15.2	536		52.0	24.2

## Packaging Details

Roll Size	152.5m / 500ft - 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>3</sup> / 1.05 cu. ft.
Gross weight	9.8kg / 21.6lbs

Part No:	Color	RAL Color Reference	Cable Type	Fire Rating	Gauge	Spool Length
K13602-152M-BL	Blue	RAL 5015	F/UTP	LSZH	23AWG	152.5m
K13602-152M-GN	Green	RAL 6018				
K13602-152M-PP	Purple	RAL4005				
K13602-152M-WH	White	RAL9003				
K13602-152M-YL	Yellow	RAL1018				
K13605-152M-BL	Blue	RAL 5015		UL CM		
K13605-152M-GN	Green	RAL 6018				
K13605-152M-PP	Purple	RAL4005				
K13605-152M-WH	White	RAL9003				
K13605-152M-YL	Yellow	RAL1018				



Kordz products are sold with a limited warranty as outlined at: [www.kordz.com](http://www.kordz.com)

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