



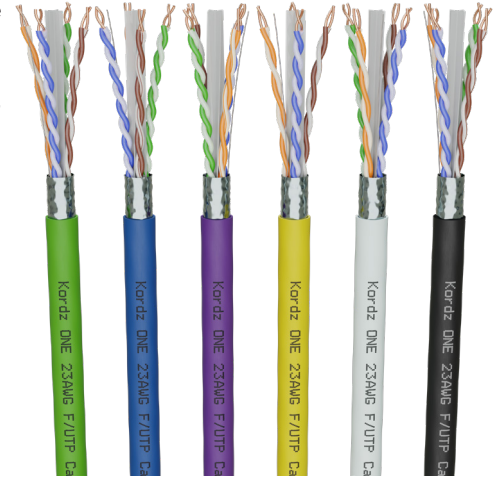
Technical Data Sheet

ONE Cat6A F/UTP Network Cable

Makes installation easier

Kordz ONE Cat6A F/UTP Network Cable is carefully engineered for professional integrators who need a reliable, high-bandwidth and cost-effective AV category cabling solution. Made with solid OFC conductors, this 23AWG cable delivers optimal performance, featuring a 7.4mm jacket diameter that allows for straightforward installation, even in tight spaces. Supporting 10Gbps network connectivity over distances up to 100 metres, this cable is ideal for a variety of IP networking applications, including SDVoE. It complies with IEEE802.3bt PoE++ at 100W and meets ANSI/TIA-568.2-D Category 6A standards, making it suitable for HDBaseT connectivity. Available in multiple colours, the cable offers options for CPR Dca LSZH or UL444 CM PVC fire ratings and is packaged in a Reel-in-Box for easy identification and handling on-site, complete with metre markings to monitor cable usage. Engineered to surpass industry standards, the Kordz ONE Cat6A F/UTP Network Cable ensures reliable and efficient connectivity, backed by the Kordz commitment to 'Connectivity Assured'.

- ETL verified ANSI/TIA-568.2-D Category 6A compliant
- Supports 10Gbps up to 100m
- Suitable for HDBaseT applications
- 23AWG solid OFC conductors with cross separator for optimal installation stability
- Supports IEEE802.3bt PoE++ at 100W
- Option of CPR Dca LSZH and UL444 CM PVC fire ratings
- Metre-marked for precise installation
- Available in various colours
- Packaged in a convenient Reel-in-Box
- Kordz Lifetime Warranty



Technical Specifications			
Construction			
Conductor	23AWG solid OFC 0.561 +0/-0.015mm		
Insulation	Orange & Brown Pair	Polyethylene, 0.97±0.05 mm	
	Blue & Green Pair	Foam PE, 1.23±0.1 mm	
Construction	4 twisted pairs of insulated conductors with cross separator		
Twisted pair colour code	1: white / blue 2: white-orange / orange 3: white / green 4: white-brown / brown		
Shielding	Shielded (F/UTP)		
Jacket Material	PVC or LSZH composites, variant dependent		
Outer diameter	7.4 ± 0.3 mm		
Mechanical			
Minimum Bend Radius	Without load	≥ 29.6 mm	
	With load	≥ 59.2 mm	
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	max. 9.38 Ω/100 m at 20°C		
Resistance unbalance	max. 2% at 20°C		
Insulation resistance (500V)	min. 5000 MΩ/km at 20°C		
Mutual capacitance	max. 5.6 nF/100 m at 1 kHz		
Capacitance unbalance (pair to ground)	max. 330 pF/100 m at 1 kHz		
Nominal velocity of propagation	nom. 67%		
Test voltage (DC, 1 min)	1 kV / 1 min		



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Part No	Color	Cable Type	Material	Fire Rating	Spool Length	Pallet	Packaging Style	Packaging Dimensions
K13602-152M-xx	Black [BK], Blue [BL] Green [GN], Purple [PP] Yellow [YL], White [WH]	F/UTP	LSZH	CPR Dca s2,d2,a1	152.5m (metre-marked)	36 boxes per pallet	Reel-in-Box	330mm x 265mm x 340mm 13.0in x 10.4in x 13.4in
K13605-152M-xx	Black [BK], Blue [BL] White [WH], Grey [GY] Yellow [YL]		PVC	UL 444 CM				
K13602-305M-xx	Black [BK], Blue [BL] Green [GN], Purple [PP] Yellow [YL], White [WH]	F/UTP	LSZH	CPR Dca s2,d2,a1	305m (metre-marked)	27 Drum per pallet	Wooden Reel	350mm x 350mm x 300mm 13.78 in x 13.78 in x 11.81 in
K13605-305M-xx	Black [BK], Blue [BL] White [WH], Grey [GY]		PVC	UL 444 CM				

Exceeds Transmission Performance acc. to ANSI/TIA-568.2-D Cat.6A (20°C)(100m) Tested to 500Mhz

Frequency	Mhz		1	4	8	10	16	20	25	31.25	62.5	100	200	250	300	400	500
Attenuation/Insertion Loss	Max. dB/100m	Standard	2.1	3.8	5.3	5.9	7.5	8.4	9.4	10.5	15	19.1	27.6	31.1	34.3	40.1	45.3
		Kordz	2.07	3.79	5.22	5.90	7.48	8.31	9.37	10.50	14.90	19.10	27.50	31	34.3	40.1	45.2
Return loss	Min. dB	Standard	20.0	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1	18.0	17.3	16.8	15.9	15.2
		Kordz	20	23	24.4	24.9	25	25	24.3	23.6	21.5	20.1	18	17.3	17.3	17.3	17.3
NEXT	Min. dB	Standard	74.3	65.3	60.8	59.3	56.2	54.8	53.3	51.9	47.4	44.3	39.8	38.3	37.1	35.3	33.8
		Kordz	75.3	66.2	61.9	60.3	57.2	55.8	54.3	52.9	48.3	45.3	40.8	39.3	38.1	36.2	34.8
PSNEXT	Min. dB	Standard	72.3	63.3	58.8	57.3	54.2	52.8	51.3	49.9	45.4	42.3	37.8	36.3	35.1	33.3	31.8
		Kordz	72.3	63.2	58.9	57.3	54.2	52.8	51.3	49.9	45.3	42.3	37.8	36.3	35.1	33.3	31.8
ACRF	Min. dB	Standard	67.8	55.8	49.7	47.8	43.7	41.8	39.8	37.9	31.9	27.8	21.8	19.8	18.3	15.8	13.8
		Kordz	68	55.9	50.2	48.6	43.9	42.1	40	37.9	32.2	28	22	20	18.4	15.9	14
PSACRF	Min. dB	Standard	64.8	52.8	46.7	44.8	40.7	38.8	36.8	34.9	28.9	24.8	18.8	16.8	15.3	12.8	10.8
		Kordz	65	52.9	47.2	45	40.9	39.1	37	35	29.2	25	19	17	15.4	12.9	11
Propagation Delay	Max. (ns)	Standard	570.0	552.0	546.7	545.4	543.0	542.0	541.2	540.4	538.6	537.6	536.5	536.3	536.1	535.8	535.6
		Kordz	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550
Fitted Impedance	(Ohms)	100 +/- 15															
Delay Skew	(ns) Max.	45															

Kordz products are sold with a limited warranty as outlined at: www.kordz.com

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