



Technical Data Sheet

ONE Cat6 U/UTP Network Cable

Makes installation easier

Kordz ONE Cat6 U/UTP Network Cable is designed for professional integrators seeking a dependable, high bandwidth and cost effective AV category cabling connectivity solution. Featuring solid OFC conductors, the 24AWG cable ensures optimal performance with a 5.7mm cable jacket diameter, making installation straightforward, even in confined spaces. This cable supports 1Gbps network connectivity up to 100 metres and 10Gbps up to 55 metres, ensuring suitability for various IP networking applications including SDVoE. The cable meets IEEE802.3bt PoE++ at 100W and performs at ANSI/TIA-568.2-D Category 6 standards beyond 550MHz, making it also ideal for HDBaseT connectivity. The cable is available in various colours with options for CPR Dca LSZH or UL444 CM PVC fire ratings, all conveniently packaged in a Reel-in-Box for easy identification and handling on-site with metre markings to track cable usage. Engineered to exceed industry standards, Kordz ONE Cat6 U/UTP Network Cable promises reliable and highly effective connectivity backed by the Kordz promise of 'Connectivity Assured'.



- ETL verified ANSI/TIA-568.2-D Category 6 compliant beyond 550MHz
- Supports 1Gbps up to 100m and 10Gbps up to 55m
- HDBaseT recommended
- 24AWG solid OFC conductors with cross separator for optimal installation stability
- 5.7mm diameter for easy installation in tight spaces
- 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



TESTED TO
550Mhz

Technical Specifications		
Construction		
Conductor	24AWG solid OFC 0.537 +0/-0.015mm	
Insulation	Polyethylene, 0.97±0.05 mm	
Construction	4 twisted pairs of insulated conductors with cross separator	
Twisted pair colour code	1: white-blue / blue 2: white-orange / orange 3: white-green / green 4: white-brown / brown	
Shielding	Unshielded (U/UTP)	
Jacket Material	PVC or LSZH composites, variant dependent	
Outer diameter	5.7 ± 0.3 mm	
Mechanical		
Minimum Bend Radius	Without load	≥ 22.8 mm
	With load	≥ 45.6 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. 5% 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, 1min)	1 kV / 1 min	



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Exceeds Transmission Performance acc. to ANSI/TIA-568.2-D Cat.6 (20°C)(100m) Tested to 550Mhz																		
Frequency	Mhz		1	4	8	10	16	20	25	31.25	62.5	100	200	250	300	400	500	550
Attenuation/ Insertion Loss	Max. dB/100m	Standard	2.0	3.8	5.3	6.0	7.6	8.5	9.5	10.7	15.4	19.8	29.0	32.8	36.4	43.0	48.9	51.8
		Kordz	2.0	3.7	5.2	5.8	7.4	8.4	9.4	10.6	15.1	19.2	27.7	31.1	34.3	40.1	45.4	48.1
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	14.9
		Kordz	31.1	31.8	32.5	31.7	34.6	34.2	31.8	32.5	36.2	31.6	29.6	30.4	28.1	25.7	26.8	28.1
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	33.2
		Kordz	86.5	78.5	80.2	76.2	79.3	72.4	72.6	70.1	66.7	66.5	57.5	60.8	52.3	53.6	49.6	49.3
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	31.2
		Kordz	84.7	78.6	75.4	73.9	72.8	71.6	71.4	68.4	63.6	60.9	56.5	57.1	54.3	52.0	46.7	51.7
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	13.0
		Kordz	83.5	73.2	67.5	65.8	62.3	60.2	58.5	55.8	50.2	46.5	37.3	38.3	38.8	33.9	26.2	23.6
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	10.0
		Kordz	79.9	70.4	64.9	63.5	60.0	58.2	57.0	54.1	48.3	46.3	36.5	37.2	34.9	30.1	24.4	22.9
Propagation	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	535.5
Fitted	(Ohms)	100 +/- 15																

Part No	Color	Cable Type	Material	Fire Rating	Spool Length	Pallet	Packaging Style	Packaging Dimensions
K13002-305M-xx	Black [BK], Blue [BL] Green [GN], Purple [PP] Yellow [YY], Grey [GY] White [WH]	U/UTP	LSZH	CPR Dca s2,d2,a1	305m (metre-marked)	36 boxes per pallet	Reel-in-Box	330mm x 265mm x 340mm 13.0in x 10.4in x 13.4in
K13005-305M-xx	Black [BK], Blue [BL] Grey [GY], White [WH]		PVC	UL 444 CM				

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