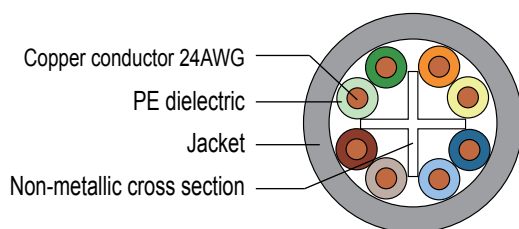


ONE CAT6 U/UTP 24AWG Network Data Cable

The Kordz ONE Series CAT6 cable has been designed and engineered to provide any application with a cost-effective, high-bandwidth and high-performance cabling solution. This makes for a more robust and complex system at Gigabit speed and full duplex transmissions. 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) & 5GBaseT, PoE & PoE+
- U/UTP Ethernet CAT6 - **Tested to 550Mhz**
- Four Twisted Pairs 24 AWG Oxygen Free Solid Copper Conductors
- PVC Separator Reduces Crosstalk Between Pairs
- Suitable for IDC Terminations
- Supplied In The Durable Rapid-EZ-Reel Packaging - 305m (1,000ft)
- Metre Marked
- 5 Colours Available: Blue, Green, White, Yellow & Purple
- Exceeds ANSI/TIA 568-C.2 Standard
- Available In LSZH - IEC60332-1 And UL 444 CM fire rated versions
- CPR Declared Performance: ONE-CAT6: Dca-s2, d2, a1 (EN50575:2014+A1:2016)



TESTED TO
550Mhz



EU Compliant
EN 50575
CLASS Dca
Independently
Verified



Technical Specifications		Reference Standards: ANSI/TIA-568-C.2	
Construction			
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	
Mechanical Properties			
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	
Electrical Properties - at 20°C ± 5°C			
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



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Exceeds Transmission Performance acc. to ANSI/TIA-568-C.2 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
Propagaion 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	535.5
Fitted Impedance	(Ohms)	100 +/- 15																
Delay Skew	(ns) Max.	45																

Part No:	Color	RAL Color Reference	Cable Type	Fire Rating	Gauge	Spool Length
K13002-305M-BL	Blue	RAL 5015	U/UTP	LSZH	24AWG	305m
K13002-305M-GN	Green	RAL 6018				
K13002-305M-PP	Purple	RAL4005				
K13002-305M-WH	White	RAL9003				
K13002-305M-YL	Yellow	RAL1018				
K13005-305M-BL	Blue	RAL 5015		UL CM		
K13005-305M-GN	Green	RAL 6018				
K13005-305M-PP	Purple	RAL4005				
K13005-305M-WH	White	RAL9003				
K13005-305M-YL	Yellow	RAL1018				

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

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

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