



## **Technical Data Sheet**

## Caté U/UTP Outdoor Network Cable

The Kordz ONE Cat6 Outdoor Network Cable is specifically designed and engineered for professional systems integrators, offering robust and reliable performance in outdoor installations. Its UV-stabilised PE jacket protects against environmental factors, including UV exposure and fluctuating weather conditions, while ensuring compliance with EU, UK, and Australian standards. Delivering ANSI/TIA-568.2-D compliant Cat6 performance, this cable supports 1Gbps data transmission up to 100m and PoE++ up to 100W, making it ideal for powering and connecting outdoor devices.

With a compact 5.4mm diameter and 24AWG solid OFC conductors, the cable combines flexibility and durability for  $easier\ installations, even\ in\ challenging\ environments.\ It\ is\ an\ optimal\ solution\ for\ connecting\ PoE\ devices\ such\ as$ IP cameras, Wi-Fi access points, and smart doorbells. The Reel-in-Box packaging and metre-marked cable enhance precision and efficiency during installation

This cable is compatible with the Kordz Cat6 system, ensuring seamless integration and minimising the need for additional inventory. Backed by the Kordz 5 Year Warranty, the ONE Cat6 Outdoor Network Cable provides reliable and cost-effective performance, making it the trusted choice for outdoor networking installations.

- UV-stabilised PE jacket compliant with EU, UK and AU standards
- 24AWG solid OFC conductors for durable, reliable performance
- ANSI/TIA-568.2-D compliant for 1Gbps up to 100m and 10Gbps up to 55m
- Supports PoE++ up to 100W
- 5.4mm diameter for flexible and compact installation in tight spaces
- Ideal for connecting outdoor IP cameras, Wi-Fi access points and smart doorbells
- Convenient Reel-in-Box packaging with metre-marked cable for precise installation
- Compatible with existing Kordz connecting components for integration ease
- Kordz quality with 5 Year Warranty























Technical Specifications					
Construction					
Conductor	24AWG solid OFC 0.526 ± 0.02mm				
Insulation	Polyethylene, 0.91 ± 0.1 mr				
Cable lay up	4 twisted pairs of insulated conductors with cross separators				
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	UV-stabilized Polyethylene-based composite				
Outer diameter	5.4 ± 0.3 mm				
Mechanical					
Minimum Bend Radius	without load	≥ 21.6 mm			
	with load	≥ 43.2 mm			
Temperature Range	During operation	-20 °C to 60°C			
Temperature Range	During installation	0°C to 50°C			
Electrical Properties - at 20°C ± 5°C					
DC resistance		max. 9.38 $\Omega/100$ 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. 679				
Test voltage (DC, 1min)	1 kV / 1 min				

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Attenuation/Insertion Loss  Max. dB/100m  Kordz  1.9  3.7  5.2  5.8  7.4  8.2  9.2  10.3  14.6  18.5  26.4  31.7  Return loss  Min. dB  Standard  20.0  23.0  24.5  25.0  25.0  25.0  25.0  24.3  23.6  21.5  20.1  18.0  17.0  18.0  17.0  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  31.0  75.9  67.1  75.8  65.9  66.9  76.0  76.	Exceeds Transmission Performance acc. to ANSI/TIA-568.2-D Cat.6 (20°C)(100m) Tested to 250Mhz														
Attenuation/Insertion Loss Max. dB/100m Kordz 1.9 3.7 5.2 5.8 7.4 8.2 9.2 10.3 14.6 18.5 26.4 30 Return loss Min. dB Standard 20.0 23.0 24.5 25.0 25.0 25.0 25.0 24.3 23.6 21.5 20.1 18.0 17 Kordz 28.0 32.6 33.0 33.8 35.4 36.1 35.9 36.4 37.7 34.3 39.3 40 Return loss Min. dB Kordz 28.0 32.6 33.0 33.8 35.4 36.1 35.9 36.4 37.7 34.3 39.8 30 Min. dB Kordz 90.3 81.6 84.2 77.4 84.6 78.7 78.0 75.9 67.1 75.8 65.9 65.9 65.9 65.9 65.9 65.9 65.9 65.9	Frequency	Mhz		1	4	8	10	16	20	25	31.25	62.5	100	200	250
Kordz         1.9         3.7         5.2         5.8         7.4         8.2         9.2         10.3         14.6         18.5         26.4         38           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           Kordz         28.0         32.6         33.0         33.8         35.4         36.1         35.9         36.4         37.7         34.3         39.3         44           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         37.9         31.9         47.4         44.3         39.8         37.9         65.9         67.1         75.8         65.9         66.9         66.0         69.9         70.0         65.0         62.7         63.0         67.4         56.9         61.2         58.1         58.1         59.8         49.7         47.8         43.7         41.8         39.8         37.9         31.9         27.8         21.8         19.8	Attanuation (Inconting Law	May dP/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
Return loss         Min. dB         Kordz         28.0         32.6         33.0         33.8         35.4         36.1         35.9         36.4         37.7         34.3         39.3         44           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           PSNEXT         Min. dB         Kordz         90.3         81.6         84.2         77.4         84.6         78.7         78.0         75.9         67.1         75.8         65.9         66.9           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           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           PSACRF         Min. dB         Kordz         103.5         97.9         89.0         87.4         82.7         90.6	Attenuation/Insertion Loss	Max. db/100m	Kordz	1.9	3.7	5.2	5.8	7.4	8.2	9.2	10.3	14.6	18.5	26.4	30.1
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  38.8  38.4  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  38.8  38.8  38.8  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  36.2  37.8  38.8  57.3  54.2  52.8  51.3  49.9  45.4  42.3  37.8  36.8  37.8  38.8  38.8  57.3  54.2  52.8  51.3  49.9  45.4  42.3  37.8  36.8  37.8  38.8  38.8  57.3  54.2  52.8  51.3  49.9  45.4  42.3  37.8  36.8  37.8  38.		Min dR	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
NEXT Min. dB Kordz 90.3 81.6 84.2 77.4 84.6 78.7 78.0 75.9 67.1 75.8 65.9 65.9 65.9 Feb. 10.0 Fe		WIIII. UB	Kordz	28.0	32.6	33.0	33.8	35.4	36.1	35.9	36.4	37.7	34.3	39.3	40.8
Kordz       90.3       81.6       84.2       77.4       84.6       78.7       78.0       75.9       67.1       75.8       65.9       66.9       66.9       67.3       54.2       52.8       51.3       49.9       45.4       42.3       37.8       30.8       37.9       31.9       45.4       42.3       37.8       30.9       30.0       67.4       56.9       61.2       58.1       56.9       67.2       63.0       67.4       56.9       61.2       58.1       56.9       67.2       63.0       67.4       56.9       61.2       58.1       56.9       56.9       67.0       65.0       62.7       63.0       67.4       56.9       61.2       58.1       56.0       62.7       63.0       67.4       56.9       61.2       58.1       56.0       67.2       63.0       67.4       56.9       61.2       58.1       56.0       67.2       47.8       43.7       41.8       39.8       37.9       31.9       27.8       21.8       10.0       77.0       78.0       78.0       79.0       79.0       89.0       87.4       82.7       90.6       77.6       72.7       94.3       61.5       54.7       66.0       66.0       89.0       87		Min dP	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
PSNEXT Min. dB Kordz 80.8 69.6 69.9 70.0 65.0 62.7 63.0 67.4 56.9 61.2 58.1 50.0 62.7 63.0 67.4 56.9 61.2 58.1 50.0 62.7 63.0 67.4 56.9 61.2 58.1 50.0 62.7 63.0 67.4 56.9 61.2 58.1 50.0 62.7 63.0 67.4 56.9 61.2 58.1 50.0 62.7 69.0 67.4 56.9 61.2 58.1 50.0 62.7 69.0 67.4 56.9 61.2 58.1 50.0 60.0 62.7 69.0 67.4 65.0 61.2 58.1 50.0 60.0 62.7 69.0 67.4 61.2 58.1 50.0 60.0 62.7 69.0 67.4 61.2 58.1 50.0 60.0 62.7 69.0 61.2 58.1 50.0 60.0 62.7 69.0 61.2 58.1 50.0 60.0 62.7 69.0 61.2 58.1 50.0 60.0 62.7 69.0 61.2 58.1 50.0 60.0 62.7 60.0 62.7 60.0 61.2 58.1 50.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0	PSNEXT	WIIII. UB	Kordz	90.3	81.6	84.2	77.4	84.6	78.7	78.0	75.9	67.1	75.8	65.9	62.6
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 ACRF Min. dB  Kordz 103.5 97.9 89.0 87.4 82.7 90.6 77.6 72.7 94.3 61.5 54.7 63.0 67.4 56.9 61.2 58.1 56.9 61.2 61.2 61.3 61.3 61.3 61.3 61.3 61.3 61.3 61.3		Min dR	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
ACRF Min. dB Kordz 103.5 97.9 89.0 87.4 82.7 90.6 77.6 72.7 94.3 61.5 54.7 66  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 10  Kordz 96.8 84.5 79.4 76.5 72.8 70.4 65.7 64.3 57.5 51.2 47.9 43  Propagation Delay Max. (ns) Standard 570.0 552.0 546.7 545.4 543.0 542.0 541.2 540.4 538.6 537.6 536.5 536.5		Willi. GD	Kordz	80.8	69.6	69.9	70.0	65.0	62.7	63.0	67.4	56.9	61.2	58.1	50.4
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 10 47.9 48.0 55.0 54.7 55.0 55.1 55.1 55.1 55.1 55.1 55.1 55.1		Min dR	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
PSACRF Min. dB Kordz 96.8 84.5 79.4 76.5 72.8 70.4 65.7 64.3 57.5 51.2 47.9 45.  Propagation Delay Max. (ns) Kordz 534.2 517.5 512.9 511.6 509.4 508.4 507.7 506.9 505.1 504.1 503.1 505.1		WIIII. UB	Kordz	103.5	97.9	89.0	87.4	82.7	90.6	77.6	72.7	94.3	61.5	54.7	61.0
Kordz     96.8     84.5     79.4     76.5     72.8     70.4     65.7     64.3     57.5     51.2     47.9     48.9       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     53.1       Kordz     534.2     517.5     512.9     511.6     509.4     508.4     507.7     506.9     505.1     504.1     503.1     50		Min dR	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
Propagation Delay Max. (ns) Kordz 534.2 517.5 512.9 511.6 509.4 508.4 507.7 506.9 505.1 504.1 503.1 50	FOACN	Willi. GD	Kordz	96.8	84.5	79.4	76.5	72.8	70.4	65.7	64.3	57.5	51.2	47.9	45.9
Kordz 534.2 517.5 512.9 511.6 509.4 508.4 507.7 506.9 505.1 504.1 503.1 50	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
Fitted Impedance (Ohms) 100 +/- 15	. ropagation Bolay		Kordz	534.2	517.5	512.9	511.6	509.4	508.4	507.7	506.9	505.1	504.1	503.1	503.0
	Fitted Impedance	(Ohms)	100 +/- 15												
Delay Skew (ns) Max. 45	Delay Skew	(ns) Max.						45							
Part No Color Cable Type Material Fire Rating Spool Length Pallet Packaging Style Packaging Dimensions	Part No	Color Cable Type	Material	Fire Rati	ing	Spool	Length	1	Pallet	Packag	ing Style	F	Packaging	Dimensio	ons

Part No	Color	Cable Type	Material	Fire Rating	Spool Length	Pallet	Packaging Style	Packaging Dimensions
K13003-305M-BK	Black	U/UTP	PE	N/A	305m / 1000ft (metre-marked)	36 boxes per pallet	Reel Box	330mm x 259mm x 341mm 13.0in x 10.2in x 13.4in

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