



Technical Data Sheet

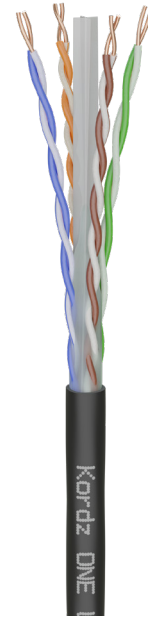
ONE Cat6 U/UTP Outdoor Network Cable

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.

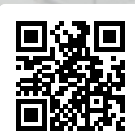
With a compact 5.4mm diameter and 24AWG solid OFC conductors, the cable combines flexibility and durability for easier installations, even in challenging environments. It is an optimal solution for connecting PoE devices such as IP cameras, Wi-Fi access points, and smart doorbells. The Reel-in-Box packaging 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 mm
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
	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 250Mhz														
Frequency	Mhz		1	4	8	10	16	20	25	31.25	62.5	100	200	250
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
		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
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
		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
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
		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
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
		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
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
		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
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
		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
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
		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												

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