



Technical Data Sheet

ONE Cat6 U/UTP Direct Burial Network Cable

The Kordz ONE Cat6 Direct Burial Network Cable is designed specifically for professional integrators requiring robust and reliable networking solutions for direct burial installations. Engineered with a UV-stabilised PE jacket and water-blocking gel filler, this cable provides exceptional protection against moisture, fluctuating temperatures, and other underground conditions, ensuring long-lasting performance. It meets ANSI/TIA-568.2-D Cat6 standards, delivering 1Gbps data transmission up to 100m, 10Gbps up to 55m, and full PoE++ compatibility for modern networking needs.

With solid 24AWG OFC conductors and a durable 6.3mm diameter, the cable ensures stable connectivity while remaining flexible enough for easy installation in tight underground ducts. This makes it an ideal solution for outdoor applications such as IP cameras, Wi-Fi access points and security systems requiring buried network connections.

The convenient wooden reel packaging and metre-marked cable enhance precision and efficiency during installations. Its compatibility with Kordz system components reduces the need for additional inventory, simplifying integration and improving cost-effectiveness. Backed by the Kordz 5 Year Warranty, the ONE Cat6 Direct Burial Network Cable delivers peace of mind with reliable, long-lasting performance for any professional direct burial networking project.

- UV-resistant PE jacket compliant with EU, UK and AU standards for outdoor use
- 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 0.546 + 0.015mm	
Insulation	Orange & Brown pairs	Polyethylene, 1.05 ± 0.1 mm
	Blue & Green pairs	Foam PE, 1.05 ± 0.1 mm
Cable lay up	4 twisted pairs of conductors with non-metallic cross separator	
Twisted pair colour code	1: white / blue 2: white-orange / orange	
	3: white / green 4: white-brown / brown	
Filler	Water-resistant gel	
Buffer	Mylar tape	
Jacket Material	UV-stabilized Polyethylene-based composite	
Outer diameter	6.3 ± 0.5 mm	
Mechanical		
Minimum Bend Radius	without load	≥ 25.2 mm
	with load	≥ 50.4 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. 63%	
Test voltage (DC, 1min)	1 kV / 1 min	



Technical Data Sheet

ONE Cat6 U/UTP Direct Burial Network Cable

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	1.7	3.5	4.9	5.5	7.0	7.9	8.8	9.9	14.2	18.2	26.2	29.4
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	29.3	36.0	50.2	69.5	39.9	41.3	51.3	47.3	48.3	37.6	42.5	35.0
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	38.3
		Kordz	95.2	99.7	95.1	90.9	86.8	78.8	79.1	78.3	76.4	83.3	69.2	69.5
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	88.1	85.7	79.8	75.5	69.8	69.4	70.6	72.3	66.2	59.7	57.5	59.5
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	82.9	71.4	60.8	66.3	66.9	59.6	56.6	51.5	44.7	40.8	27.8	19.7
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	81.5	69.2	59.9	63.7	62.8	58.6	54.9	49.9	42.7	39.2	26.1	18.1
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	565.2	549.1	544.6	543.3	541.4	540.2	539.4	538.8	537.1	536.4	535.1	534.7
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
K14703-305M-BK	Black	U/UTP	PE	N/A	305m / 1000ft (metre-marked)	27 reels per pallet	Wooden Reel	350mm x 350mm x 349mm 13.7in x 13.7in x 11.8in

Kordz products are sold with a limited warranty as outlined at: www.kordz.com
 ©2025 Kordz International. All rights reserved. Kordz Connectivity.Assured & Kordz range logos are trademarks or registered trademarks of Kordz International in Hong Kong and in other countries.
 All other trademarks are the property of their respective owners.