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Technical Data Sheet

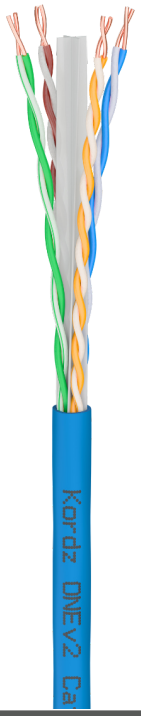
ONE² Cat6 U/UTP Network Cable

305m

The Kordz ONEv2 Cat6 U/UTP Network Cable delivers ETL-verified Category 6 performance for everyday professional network installations. Built with 24AWG solid oxygen-free copper, it supports 1Gbps to 100m, 10Gbps to 55m and IEEE 802.3bt PoE++ up to 100W. A compact 5.3mm cable diameter improves efficiency in conduit and back boxes, whilst an internal cross separator supports cable stability during pulling and dressing, ensuring crosstalk performance remains consistent.

Metre marked for convenience, the Kordz ONEv2 employs an IEC60332-1 flame-retardant PVC jacket with CPR Eca classification. It is supplied in environmentally friendly 305m Reelex Air™ packaging for lighter handling and controlled, tangle-free dispensing.

Combine it with the Kordz PRO 24AWG RJ45 Crimp Connector, Kordz PRO Keystone RJ45 Socket (black or white), ONE RJ45 Push-through Crimp Connector and ONE RJ45 Strain Relief for straightforward specification and termination, backed by the Kordz lifetime warranty.



- ETL-verified Category 6 performance
- Compliant with IEC 61156-5 Category 6 requirements and suitable for ISO/IEC 11801 Class E generic cabling systems
- Supports 1Gbps to 100m and 10Gbps to 55m
- Supports IEEE 802.3bt PoE++ at up to 100W
- 24AWG solid oxygen-free copper with internal cross separator for construction stability
- 5.3mm overall diameter for a smaller bend radius and easier routing in tight spaces
- IEC60332-1 flame-retardant PVC jacket with CPR Eca classification
- Metre marked for convenience in installation
- Compatible with Kordz ONE Series Cat6 connectivity components
- Lower environmental impact — 305m Reelex Air™ reel-less packaging with reduced packaging material and weight, easier handling on site and controlled, tangle-free dispensing
- Kordz lifetime warranty

CAT 6 | U/UTP | ETL VERIFIED | 1Gbps → TO → 100m | 10Gbps → TO → 55m | OFC 99.99% | POE++ | PVC | IEC 60332-1 | CPR Eca | REELEX™ AIR | LIFETIME WARRANTY

Technical Specifications		
Construction		
Conductor		24AWG solid OFC 0.526 +0.02/-0.04mm
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		PVC composite
Outer Diameter		5.25 ± 0.5 mm
Mechanical		
Minimum Bend Radius	without load	≥ 21 mm
	with load	≥ 42 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. 9.5 Ω/100 m at 20°C
Resistance unbalance		max. 2% at 20°C
Insulation resisitance (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. 160 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)														
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	1.8	3.7	5.2	5.8	7.4	8.3	9.3	10.4	14.9	18.8	27.0	30.4
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	31.1	29.5	31.2	32.5	33.8	33.3	33.1	31.5	33.4	32.3	28.5	31.0
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	87.5	80.3	82.0	76.2	74.9	75.2	72.1	67.4	67.6	61.1	57.8	52.5
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	85.5	77.9	78.4	74.6	73.7	71.5	70.7	66.2	64.6	58.8	56.5	51.4
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	84.3	76.6	70.1	70.1	67.1	65.4	62.8	61.7	56.4	49.5	40.9	36.4
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	16.8
		Kordz	82.2	73.7	68.0	67.2	63.9	62.5	60.6	59.0	53.5	47.1	39.4	35.8
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	531.8	514.8	510.2	508.8	506.5	505.6	504.8	504.0	502.2	501.2	500.2	499.9
Fitted Impedance	Ohms													
Delay Skew	Max. (ns)							26.8						

Part No	Colour	Cable Type	Material	Fire Rating	Spool Length	Pallet	Packaging Style	Packaging Dimensions
K13105-305M-BL	Blue	U/UTP	PVC	60332-1	305m / 1000ft (metre-marked)	36 boxes per pallet	Reelex Air	330mm x 222mm x 410mm 13in x 8.7in x 16.1in

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