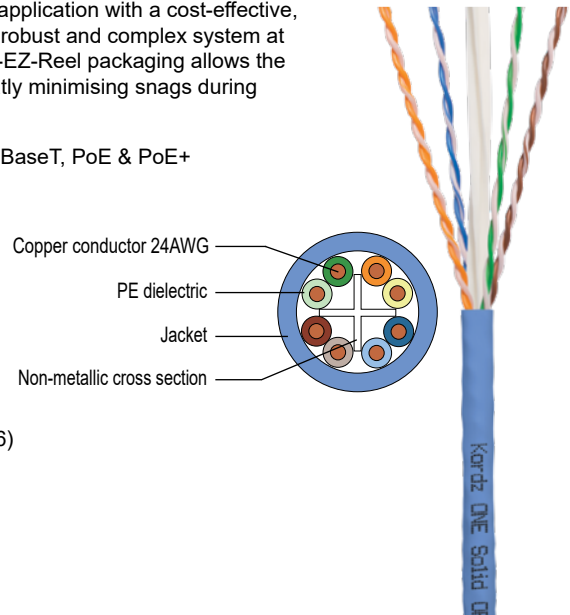


Connectivity.Assured

ONE CAT6 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 network 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**
- HDBaseT™ Recommended
- 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

| 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 |

HDBaseT™ Recommended Cables are cables that have been tested in an Alliance Recognized Testing facility, and have met the requirements set by the HDBaseT™ Alliance. Search for Kordz on: hdbaset.org/hdbaset-recommended-cables



kordz.com



ONE CAT6 U/UTP 24AWG Network Data Cable

| 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 | | | | |

Kordz ONE Solid OFC UHD/4K Video/Data Network Cable - CAT6 U/UTP 24AWG

Kordz ONE Solid OFC UHD/4K Video/Data Network Cable - CAT6 U/UTP 24AWG

Kordz ONE Solid OFC UHD/4K Video/Data Network Cable - CAT6 U/UTP 24AWG

Kordz ONE Solid OFC UHD/4K Video/Data Network Cable - CAT6 U/UTP 24AWG

Kordz ONE Solid OFC UHD/4K Video/Data Network Cable - CAT6 U/UTP 24AWG

| 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
 ©2019 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.