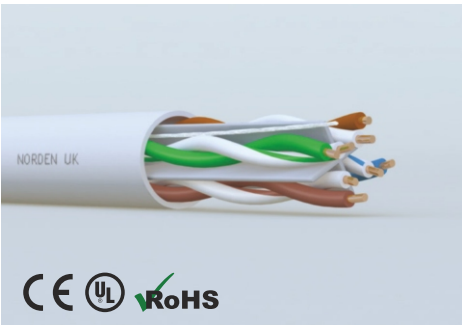


CATEGORY 6A U/UTP 4 PAIR CABLE

Norden Category 6A U/UTP cables exceed Category 6A/Class EA specification. It is tested to 500MHz frequency range and designed to support 10 Gigabyte applications to full 100m. Extremely high pair-balance providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation, maximizing noise immunity and providing high alien cross talk performance to U/UTP (Unshielded Twisted Pair) cabling systems.



- Outer Jacket
- Center Conductor
- Insulation
- Seperartor
- Rip Cord

COMPLIANCE

IEEE 802.3an :2006 (10GBASE-T)
 ANSI/TIA-568-C.2:2009 Category 6A
 ISO/IEC-11801, 2nd Edition Class EA
 IEC 61156-5:2002 Category 6A
 LSZH: IEC 60332-1, IEC 60754, IEC 61034

MATERIAL CONSTRUCTION & DESIGN

| | |
|---------------------------------------|--|
| Conductor Material | Bare Copper |
| Conductor Size | 0.57 mm, 23 AWG |
| Conductor Construction | Solid |
| Insulation Material | HDPE |
| Insulation O.D. | 1.03 mm nom. |
| Conductor Unit Identification | Solid/Stripe |
| Colour Code | Per TIA/EIA 568-B |
| Conductor Unit Lay-Up | Pairs |
| Total Number of Wires | 8 |
| Outer Jacket Material | LSZH Low Smoke Zero Halogen, PVC or Plenum |
| Outer jacket thickness & Ex. Diameter | 0.65±0.05 mm, 6.9±0.4 mm |
| Outer Jacket Colour | Per requirement |
| Rip Cord | Yes |
| Overall Drain-Wire Material | N/A |
| Overall Drain-Wire Construction | N/A |

CATEGORY 6A U/UTP 4 PAIR CABLE

ELECTRICAL & MECHANICAL CHARACTERISTICS

| | |
|---------------------------------|---|
| Pulling Force | 110 N/mm ² max. |
| Delay Skew | 25 ns/100m max. |
| Coupling Attenuation | 85 db min @ 30-100 MHz 85-20 log (f/100) @100-500 MHz |
| Characteristic Impedance | 100±6 Ω @ 1-500 MHz |
| DC Resistance | 72 Ω/Km max. |
| Resistance Unbalance | 2 % max. |
| Capacitance | 45 pF/m nom. |
| Cap. Unbalance (Wire to Ground) | 1500 pF/Km max. |
| Dielectric Strength | 1.5 KV/ minute min. |
| Velocity of Propagation (NVP) | 67 % |
| Insulation Resistanc | 5000 MΩ•Km min. |
| Transfer Impedance | N/A |
| Short Term Bend Radius | 8 x OD mm |
| Long Term Bend Radius | 4 x OD mm |
| Operating Temperature Range | -20°C to +60°C |

TRANSMISSION PERFORMANCE

Cat. 6A Un-screened Pair Horizontal Cables*

| Freq. MHz | Attenuation dB/100m @ 20°C | NEXT dB | PS dB | NEXT | RL dB | ACR dB | ELFEXT dB | PSELFEXT dB |
|-----------|----------------------------|---------|-------|------|-------|--------|-----------|-------------|
| 1 | 1.7 | 86.3 | 83.3 | | 26.0 | 84.6 | 84.0 | 80.0 |
| 4 | 3.4 | 85.0 | 83.0 | | 29.0 | 75.6 | 81.0 | 78.0 |
| 10 | 5.4 | 77.3 | 74.3 | | 31.0 | 71.9 | 76.0 | 73.0 |
| 20 | 7.6 | 70.0 | 67.0 | | 30.0 | 62.4 | 70.0 | 67.0 |
| 31.25 | 9.7 | 68.0 | 65.0 | | 29.8 | 58.3 | 65.0 | 63.0 |
| 100 | 18.0 | 65.3 | 62.3 | | 27.1 | 47.3 | 55.0 | 52.8 |
| 150 | 23.6 | 62.0 | 59.8 | | 26.0 | 38.4 | 53.5 | 51.5 |
| 200 | 27.4 | 59.0 | 57.2 | | 25.0 | 31.6 | 49.0 | 46.0 |
| 250 | 31.0 | 57.6 | 54.6 | | 25.2 | 26.6 | 44.0 | 41.0 |
| 300 | 34.2 | 55.0 | 52.0 | | 24.0 | 20.3 | 39.6 | 36.6 |
| 400 | 40.0 | 53.0 | 51.8 | | 21.8 | 13.0 | 37.0 | 34.0 |
| 500 | 42.2 | 52.0 | 50.0 | | 21.8 | 9.8 | 35.0 | 33.0 |

*Supplied cables meets Cat. 6a min. transmission requirements as per IEC 61156-5 Ed. 2

ORDERING INFORMATION

| Part Number | Description | Standard Length |
|---------------|---------------------------------------|-----------------|
| 114-10001104X | Category 6A U/UTP 4 Pair Cable PVC | 305 mtr |
| 114-10002104X | Category 6A U/UTP 4 Pair Cable LSZH | 305 mtr |
| 114-15004104X | Category 6A U/UTP 4 Pair Cable Plenum | 305 mtr |

X: BK(Black), BL(Blue), GN(Green), GY(Gray), RD(Red), WH(White), YL(Yellow)

PACKING INFORMATION

| Part Number | Packing Mode | N.W (kg) | G.W (kg) | Dimension (mm) |
|---------------|------------------|----------|----------|-----------------|
| 114-10001104X | Plywood Reel/Ctn | 14.3 | 16.3 | 340 x 340 x 340 |
| 114-10002104X | Plywood Reel/Ctn | 15.0 | 16.8 | 340 x 340 x 340 |
| 114-15004104X | Plywood Reel/Ctn | 15.7 | 17.3 | 340 x 340 x 340 |