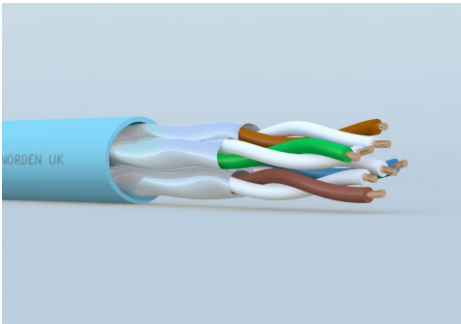


CATEGORY 6A U/FTP 23 AWG 4 PAIR CABLE LSOH

Norden Category 6A U/FTP cables exceed Category 6A/Class EA specification. It is tested to 500MHz frequency range and designed to support 10 Gigabyte applications to full 100m. Data integrity is one of the most essential network requirements for many corporations, especially those located in environments that are prone to noise and electromagnetic interference such as industrial facilities and airports, as well as those running critical systems such as military installations and hospitals. U/FTP (Foil Twisted Pair) cabling systems are installed for improved Alien Cross talk performance.





- Outer Jacket
- Foil Shield
- Center Conductor
- Insulation
- Rip Cord

COMPLIANCE

IEE 802.3an :2006 (10GBASE-T)
 ANSI/TIA-568.2-D :2009 Category 6A
 ISO/IEC-11801, 2nd Edition Class EA
 IEC 61156-5:2002 Category 6A, EN 50173-1

PRODUCT CLASSIFICATION

| | |
|------------------|--------------------|
| Product Sequence | E Series |
| Product Type | Twisted Pair Cable |

MATERIAL CONSTRUCTION & DESIGN

| | |
|---------------------------------------|--------------------------|
| Conductor Material | Bare Copper |
| Conductor Size | 23 AWG |
| Conductor Construction | Solid |
| Insulation Material | SFS PE |
| Insulation O.D. | 1.36±0.05 mm |
| Conductor Unit Identification | Solid/Stripe |
| Colour Code | Per TIA/EIA 568-B |
| In. Shield Material | Aluminium/Polyester Foil |
| In. Shield Design | 100% Coverage |
| Conductor Unit Lay-Up | Pairs |
| Total Number of Wires | 8 |
| Outer Jacket | LSOH |
| Outer Jacket thickness & Ex. Diameter | 0.55±0.05mm, 7.5±0.5mm |
| Rip Cord | Yes |
| Outer Jacket Colour | Per Requirement |
| Marking | Per Requirement |



CATEGORY 6A U/FTP 23 AWG 4 PAIR CABLE LSOH

ELECTRICAL & MECHANICAL CHARACTERISTICS

| | |
|------------------------------------|--|
| Characteristic Impedance | 100Ω |
| Frequency Range | 1-500MHz |
| Coupling Attenuation | 55 dB min @ 30-100 MHz 55-20Log(f/100) @100-500 MHz |
| Max. DC Resistance | 73 Ω/km@20°C |
| Max. Resistance Unbalance | 2 % |
| Mutual Capacitance | 4.3nF/100m |
| Capacitance Unbalance | 1.2 pF/m max. |
| Velocity of Propagation | 78 % nom. |
| Propagation Delay Skew | 25 ns/100m max. |
| Dielectric Strength | 1.5K V/minute |
| Dielectric Strength to Shield | 1.5kV/minute |
| Min. Insulation Resistance | 5 GΩ•km |
| Max. Tensile Strength - Short Term | 130 N |
| Transfer Impedance | 10 m/m max @ 1-10 MHz 30 m/m max @ 30 MHz |
| Min. Bend Radius | 70 mm |
| Max. Operating Temperature | +60 °C |
| Min. Operating Temperature | -20 °C |
| Transfer Impedance | 50 m/m max @ 1 MHz, 100 m/m max @ 10 MHz. 200 m/m max @ 30 MHz, 1000 m/m max @ 100 MHz. |

TRANSMISSION PERFORMANCE

Cat. 6A Screened-pair Horizontal Cables*

| Freq. MHz | Attenuation dB/100m @ 20°C | NEXT dB | PS NEXT dB | RL dB | ACR dB | ELFEXT dB | PSELFEXT dB |
|-----------|----------------------------|---------|------------|-------|--------|-----------|-------------|
| 1 | 1.8 | 87.0 | 84.0 | 23.0 | 85.2 | 84.0 | 81.0 |
| 4 | 3.4 | 85.0 | 83.0 | 27.0 | 81.6 | 81.0 | 78.0 |
| 10 | 5.4 | 77.3 | 74.3 | 26.0 | 71.9 | 76.0 | 73.0 |
| 20 | 7.6 | 70.0 | 67.0 | 26.0 | 62.4 | 70.0 | 67.0 |
| 31.25 | 9.7 | 68.0 | 65.0 | 26.0 | 58.3 | 65.0 | 63.0 |
| 100 | 18.0 | 65.3 | 62.3 | 26.0 | 47.3 | 55.0 | 52.8 |
| 150 | 23.6 | 62.0 | 59.0 | 26.0 | 38.4 | 53.5 | 51.5 |
| 200 | 25.0 | 59.0 | 57.2 | 26.0 | 34.0 | 49.0 | 46.0 |
| 250 | 28.1 | 57.6 | 54.6 | 25.0 | 29.5 | 44.0 | 41.0 |
| 300 | 30.9 | 55.0 | 52.0 | 24.0 | 24.1 | 39.6 | 36.6 |
| 400 | 38.3 | 53.0 | 51.8 | 23.0 | 14.9 | 37.0 | 34.0 |
| 500 | 42.2 | 52.0 | 50.0 | 22.0 | 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 |
|---------------|---|-----------------|
| 114-40002304X | Category 6A U/FTP 23 AWG 4 Pair Cable LSOH E Series | 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) |
|---------------|--------------|----------|----------|-----------------|
| 114-40002304X | Ply Reel | 18.5 | 21.0 | 420 x 420 x 260 |