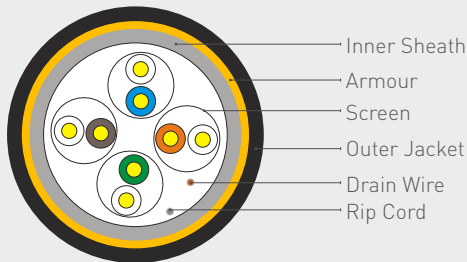
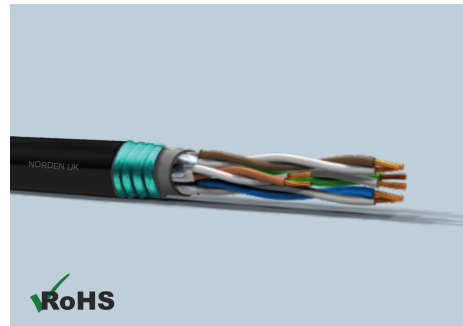


CAT 6A U/FTP DOUBLE JACKET STEEL TAPE ARMoured EXTERNAL CABLE

Norden Category 6A UTP cables exceed Category 6A / Class E specifications. It is tested to the 500 MHz frequency range and designed to support Gigabit 1000Base-T and 1000Base-Tx applications. Extremely high pair-balance providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation, maximizing noise immunity, and providing high alien cross talk performance to UTP(Unshielded Twisted Pair) cabling systems. These external cables are constructed with steel tape armouring and are ideal for industrial use and in direct sunlight.



COMPLIANCE

IEE 802.3an :2006 (10GBASE-T)
ANSI/TIA-568-2.D
ISO/IEC-11801
IEC 61156-5:2002 Category 6A, EN 50173-1

PRODUCT CLASSIFICATION

| | |
|------------------|--------------------|
| Product Sequence | Premium |
| Product Type | Twisted Pair Cable |

MATERIAL CONSTRUCTION & DESIGN

| | |
|----------------------------|-------------------------------|
| Conductor Material | Solid Bare Copper |
| Conductor Size | 0.560 ± 0.010 mm, 23 AWG |
| Conductor Construction | Solid |
| Insulation Material | Skin -Foam -skin Polyethylene |
| Screening Material | Aluminum - Polyester Tape |
| Drain wire | Tinned Copper |
| Inner Sheath Materials | LSZH |
| Inner Sheath Color | Multiple |
| Inner Sheath Thickness | 0.5mm |
| Armored Material | ECCS Tape |
| Armored Material Thickness | > 0.125 mm |
| Outer Sheath Material | LSZH(complies RoHS) |
| Outer Sheath Thickness | 1.1 ± 0.4 mm |
| Outer Sheath External O.D. | 11.2 + 0.3 mm |
| Outer Sheath Color | Multiple |

CAT 6A U/FTP DOUBLE JACKET STEEL TAPE ARMoured EXTERNAL CABLE

ELECTRICAL & MECHANICAL CHARACTERISTICS

| | |
|-------------------------------|---|
| Frequency Range | 1 - 500 MHz |
| Impedance | 100 ±15 Ω |
| Coupling Attenuation | 40 dB min @ 30-100 MHz 85-20Log(f/100) @100-500 MHz |
| DC Resistance | < 9.38Ω/100m |
| Mutual Capacitance | < 5.6nF/100m |
| Max. Resistance Unbalance | 5% |
| Capacitance Unbalance | 330pF/100m |
| Velocity of Propagation | 67% |
| Propagation Delay Skew | < 45nS |
| Min. Bend Radius | 8 x Cable Diameter |
| Pulling Force | 11.5Kg |
| Max. Operating Temperature | -20° to +70°C |
| Max. Installation Temperature | 0° to +50°C |

TRANSMISSION PERFORMANCE

Electrical Characteristics meet or exceed 70 Meter TIA Cat 6A Channel Spec.

| Freq. (Mhz) | Insertion Loss (dB) | NEXT (dB) | RL (dB) | PS NEXT (dB) | ACR-F (dB) | PS ACR-F (dB) |
|-------------|---------------------|-----------|---------|--------------|------------|---------------|
| 1 | 3.0 | 65.0 | 19.0 | 62.0 | 63.2 | 60.3 |
| 4.0 | 4.2 | 63.0 | 19.0 | 60.5 | 51.2 | 48.2 |
| 8.0 | 5.8 | 58.2 | 19.0 | 55.6 | 45.2 | 42.2 |
| 10.0 | 6.5 | 56.6 | 19.0 | 54.0 | 43.3 | 40.3 |
| 16.0 | 8.2 | 53.2 | 18.0 | 50.6 | 39.2 | 36.2 |
| 20.0 | 9.2 | 51.6 | 17.5 | 49.0 | 37.2 | 34.2 |
| 25.0 | 10.2 | 50.0 | 17 | 47.3 | 35.3 | 32.3 |
| 31.25 | 11.5 | 48.4 | 16.5 | 45.7 | 33.4 | 30.4 |
| 62.5 | 16.4 | 43.4 | 14 | 40.6 | 27.3 | 24.3 |
| 100 | 20.9 | 39.9 | 12.0 | 37.1 | 23.3 | 20.3 |
| 200 | 30.1 | 34.8 | 9.0 | 31.9 | 17.2 | 14.2 |
| 250 | 33.9 | 33.1 | 8.0 | 30.2 | 15.3 | 12.3 |
| 300 | 37.4 | 31.7 | 7.2 | 28.8 | 13.7 | 10.7 |
| 400 | 43.7 | 28.7 | 6.0 | 25.8 | 11.2 | 8.2 |
| 500 | 49.3 | 26.1 | 6.0 | 23.2 | 9.3 | 6.3 |

ORDERING INFORMATION

| Part Number | Description | Standard Length |
|---------------|--|-----------------|
| 114-20822304X | Cat 6A U/FTP Double Jacket Steel Tape Armoured External Cable LSZH | 305 mtr |

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