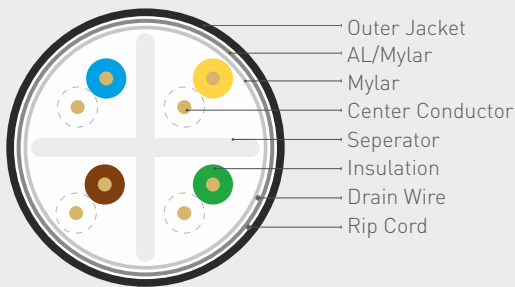
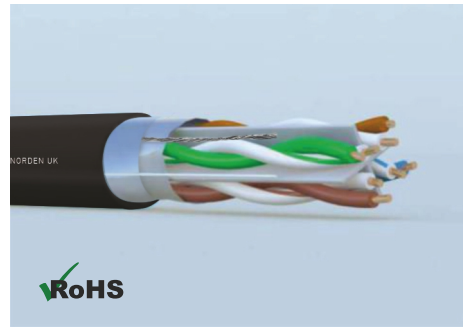


Category 6A F/UTP 4 Pair External Cable PE (Fca)

Norden Category 6A F/UTP cables exceed Category 6A/Class EA specification. It is tested to 500 MHz frequency range and designed to support 10 Gigabyte applications to full 100 m. Extremely high pair-balance providing excellent EMC (Electro Magnetic compatibility), minimizing radiation, maximizing noise immunity and providing high alien cross talk performance to F/UTP cabling systems. F/UTP (Twisted Pair - overall Foil shield) cabling systems are installed for improved Alien Cross talk performance.



COMPLIANCE

IEEE 802.3an :2006 (10GBASE-T)
ANSI/TIA-568.2-D Category 6A
ISO/IEC-11801, 2nd Edition Class EA
IEC 61156-5:2002 Category 6A
CPR Compliance to Fca

MATERIAL CONSTRUCTION & DESIGN

| | |
|-------------------------------|---------------------|
| Conductor Material | Solid Bare Copper |
| Conductor Size | 0.565 ± 0.01, 23AWG |
| Conductor Construction | Solid |
| Insulation Material | Polyethylene PE |
| Insulation O.D | 1.12±0.1 mm |
| Conductor Unit Identification | Solid/Stripe |
| Conductor Unit Lay-Up | Pairs |
| Total Number of Wires | 8 |
| Cross Filler | Yes |
| Foil Shielding | Mylar+ AL/Mylar |
| Drain Wire | Yes |
| Rip cord | Yes |
| Outer Jacket Material | LDPE |
| Outer jacket thickness | 0.55±0.05mm |
| Outer jacket Diameter | 7.4±0.4 mm |
| Outer Jacket Colour | Black |

Category 6A F/UTP 4 Pair External Cable PE (Fca)

ELECTRICAL & MECHANICAL CHARACTERISTICS

| | |
|---------------------------------|--------------------------|
| Conductor Impedance | 100 ± 15 Ω 1 - 250MHz |
| | 100 ± 22 Ω 250 - 500 Mhz |
| Max. DC Resistance | 9.38 Ω /100m |
| Max. Resistance Unbalance | 5.0% |
| Mutual Capacitance | ≤5.6nF/100m |
| Capacitance Unbalance to-ground | 330 pf/100m |
| Velocity of Propagation | 69 % nom. |
| Propagation Delay Skew | ≤45 ns/100m |
| Min. Insulation Resistance: | ≥5000MΩ.km |
| Bend Radius | 8 X OD |
| Pulling Force | ≤110N |
| Operating Temperature | -40°C to +75°C |

TRANSMISSION PERFORMANCE

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

| Frequency MHz | Attenuation ≤dB | NEXT ≥dB | PSNEXT ≥dB | ELFEXT ≥dB | PSELFEXT ≥dB | RL ≥dB | PHASE DELAY ≤ns |
|---------------|-----------------|----------|------------|------------|--------------|--------|-----------------|
| 1 | - | 74.3 | 72.3 | 68.0 | 65.0 | 20.0 | 570.0 |
| 4.0 | 3.8 | 65.3 | 63.3 | 56.0 | 53.0 | 23.0 | 552.0 |
| 8.0 | 5.3 | 60.8 | 58.8 | 49.9 | 46.9 | 24.5 | 546.7 |
| 10.0 | 5.9 | 59.3 | 57.3 | 48.0 | 45.0 | 25.0 | 545.4 |
| 16.0 | 7.5 | 56.2 | 54.2 | 43.9 | 40.9 | 25.0 | 543.0 |
| 20.0 | 8.4 | 54.8 | 52.8 | 42.0 | 39.0 | 25.0 | 542.1 |
| 25.0 | 9.4 | 53.3 | 51.3 | 40.0 | 37.0 | 24.3 | 541.2 |
| 31.25 | 10.5 | 51.9 | 49.9 | 38.1 | 35.1 | 23.6 | 540.4 |
| 62.5 | 15.0 | 47.4 | 45.4 | 32.1 | 29.1 | 21.5 | 538.6 |
| 100 | 19.1 | 44.3 | 42.3 | 28.0 | 25.0 | 20.1 | 537.6 |
| 200 | 27.6 | 39.8 | 37.8 | 22.0 | 19.0 | 18.0 | 536.5 |
| 250 | 31.1 | 38.3 | 36.3 | 20.0 | 17.0 | 17.3 | 536.3 |
| 300 | 34.3 | 37.1 | 35.1 | 18.5 | 15.5 | 16.8 | 536.1 |
| 500 | 45.3 | 33.8 | 31.8 | 14.0 | 11.0 | 15.2 | 535.6 |

ORDERING INFORMATION

| Part Number | Description | Standard Length |
|---------------|--|-----------------|
| 114-2000V204X | Category 6A F/UTP 4 Pair External Cable PE (Fca) | 305 mtr |

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