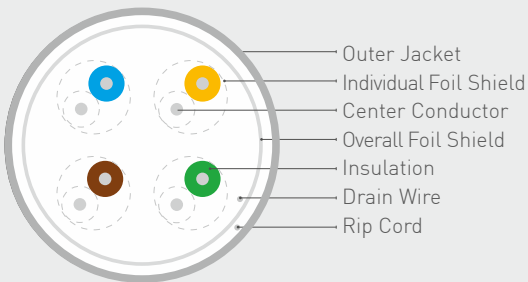
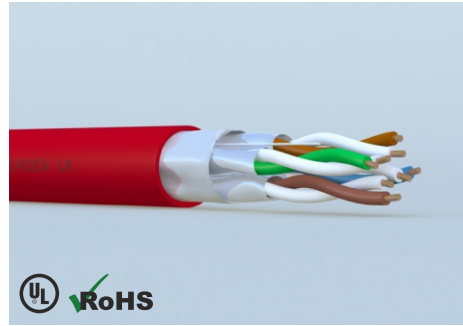


CATEGORY 6 F/FTP 4 PAIR CABLE

Norden Category 6 F/FTP cables exceed Category 6 / Class E specification. This cable having UL listed CM, CMX, CMR & CMP. It is tested to 250 MHz frequency range and designed to support Gigabit 1000Base-T and 1000Base-Tx applications upto 100m.

Extremely high pair-balance providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation, maximizing noise immunity and providing high alien cross talk performance to F/FTP (Foiled Twisted Pair) cabling systems. F/FTP (Twisted Pair – Overall and Individual Foil shield) cabling systems are installed for improved Alien Cross talk performance.



COMPLIANCE

IEEE 802.af, IEEE 802.3at for PoE applications
 ANSI/TIA-568.2-D Category 6
 ISO/IEC-11801, Class E
 IEC 61156-5: Category 6
 LSZH: IEC 60332-1, IEC 60754, IEC 61034

PRODUCT CLASSIFICATION

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

MATERIAL CONSTRUCTION & DESIGN

| | |
|---------------------------------------|-------------------------------------------------------------|
| Conductor Material | Bare Copper |
| Conductor Size | 0.57 mm, 23 AWG |
| Conductor Construction | Solid |
| Insulation Material | SFS PE |
| Insulation Diameter | 0.51mm |
| Individual Pair Shield | Aluminium Foil (Foil Face Outward), 100 % Coverage |
| Drain Wire | Tin-Coated Annealed Copper |
| Overall Shield | Polyester-Aluminium Tape (Foil Face Inward), 100 % Coverage |
| Outer Jacket | LSZH Low Smoke Zero Halogen or PVC |
| Outer Jacket Thickness & Ex. Diameter | 0.60±0.05 mm, 7.6±0.4 mm |
| Rip Cord | Yes |
| Conductor Unit Identification | Solid/Stripe |
| Colour Code | Per TIA/EIA 568-B |
| Total Number of Wires | 8 |
| Outer Jacket Colour | Per Requirement |
| Marking | Per Requirement |

CATEGORY 6 F/FTP 4 PAIR CABLE

ELECTRICAL & MECHANICAL CHARACTERISTICS

| | |
|------------------------------------|-------------------------------------------------------|
| Frequency Range | 1 - 250 MHz |
| Impedance | 100 Ω \pm 15 |
| Coupling Attenuation | 85 dB min @ 30-100 MHz 85-20 Log (f/100) @100-250 MHz |
| DC Resistance | 73 Ω /km nom. |
| Max. Resistance Unbalance | 4 % |
| Capacitance | 5.6 nF/100m max. |
| Capacitance Unbalance | 3.3 pF/m max. |
| Propagation Delay Skew | 25 ns/1min. |
| Velocity of Propagation | 69 % |
| Dielectric Strength | 1 KV/minute |
| Min. Insulation Resistance | 5 G Ω •km |
| Max. Tensile Strength - Short Term | 110 N |
| Min. Bend Radius | 58 mm |
| Operating Temperature Range | -10°C to +70°C |

TRANSMISSION PERFORMANCE

Cat. 6 Screened Pair Horizontal Cables*

| Freq. MHz | Attenuation dB/100m @ 20°C | NEXT dB | PSNEXT dB | RL dB | ELFEXT dB | PSELFEXT dB |
|-----------|----------------------------|---------|-----------|-------|-----------|-------------|
| 1 | 2.0 | 80.0 | 78.0 | 27.0 | 81.8 | 77.8 |
| 4 | 3.8 | 75.0 | 72.8 | 30.0 | 76.8 | 73.8 |
| 10 | 6.0 | 71.0 | 69.0 | 30.0 | 70.0 | 67.8 |
| 20 | 8.5 | 62.0 | 60.2 | 30.0 | 58.8 | 55.8 |
| 31.25 | 10.4 | 60.9 | 58.9 | 28.6 | 56.8 | 53.3 |
| 100 | 19.8 | 54.0 | 52.0 | 26.0 | 47.8 | 44.8 |
| 150 | 24.7 | 50.7 | 48.7 | 25.1 | 43.3 | 40.3 |
| 200 | 29.0 | 48.1 | 46.1 | 23.8 | 38.8 | 35.8 |
| 250 | 32.8 | 46.3 | 44.3 | 22.0 | 36.8 | 33.8 |

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

ORDERING INFORMATION

| Part Number | Description | Standard Length |
|---------------|------------------------------------|-----------------|
| 113-11001404X | Category 6 F/FTP 4 Pair Cable PVC | 305 mtr |
| 113-11002404X | Category 6 F/FTP 4 Pair Cable LSZH | 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) |
|---------------|------------------|----------|----------|-----------------|
| 113-11001404X | Plywood Reel/Ctn | 16.4 | 17.0 | 420 x 420 x 260 |
| 113-11002404X | Plywood Reel/Ctn | 16.7 | 17.2 | 420 x 420 x 260 |