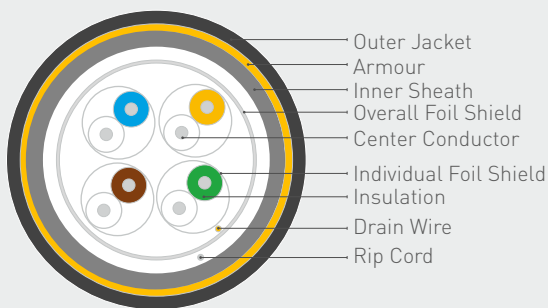
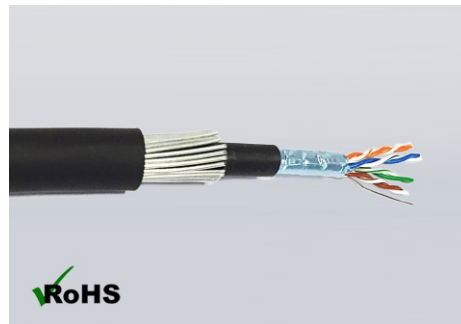


CAT 6A F/FTP 4 PAIR 23 AWG STEEL WIRE ARMoured CABLE LSZH



Norden Category 6A F/FTP Steel Wire Armoured cables exceed Category 6A / Class EA specification. It is tested to 500 MHz frequency range and designed to support 10 Gigabyte and External 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/FTP cabling systems. F/FTP (Twisted Pair – overall and individual 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
LSZH: IEC 60332-1, IEC 60754, IEC 61034

MATERIAL CONSTRUCTION & DESIGN

| | |
|---------------------------------|--------------------------|
| Conductor Material | Bare Copper |
| Conductor Size | 23 AWG |
| Conductor Construction | Solid |
| Insulation Material | SFS PE |
| Insulation O.D. | 1.33 mm nom. |
| Conductor Unit Identification | Solid/Stripe |
| Colour Code | Per TIA/EIA 568-B |
| In. Shield Material | Aluminium/Polyester Foil |
| In. Shield Design | 100 % Coverage |
| Overall Shield Design | 100 % Coverage |
| Overall Foil Shield | Yes |
| Overall Shield Material | Aluminium/Polyester Foil |
| Overall Drain-Wire Material | Tinned Copper |
| Overall Drain-Wire Size | 0.41 mm |
| Overall Drain-Wire Construction | Solid |
| Total number of Wires | 8 |
| Inner Sheath Material | LSZH |
| Inner Sheath Thickness | 0.80±0.2 mm |
| Armored Material | Steel Wires |
| Outer Jacket Material | FR-LSZH |
| Outer Jacket Thickness | 1.1±0.4 mm |
| Outer Jacket Diameter | 11.4±1.0 mm |
| Rip Cord | Yes |
| Outer Jacket Colour | Per Requirement |
| Marking | Per Requirement |



CAT 6A F/FTP 4 PAIR 23 AWG STEEL WIRE ARMoured CABLE LSZH



ELECTRICAL & MECHANICAL CHARACTERISTICS

| | |
|------------------------------------|--|
| Frequency Range | 1 - 500 MHz |
| Impedance | 100 Ω |
| Coupling Attenuation | 85 dB min @ 30-100 MHz 85-20Log (f/100) @100-500 MHz |
| DC Resistance | 78 Ω/km nom. |
| Max. Resistance Unbalance | 2 % |
| Capacitance Unbalance | 1.2 pF/m max. |
| Velocity of Propagation | 80 % nom. |
| Propagation Delay Skew | 25 ns/100m max. |
| Dielectric Strength | 1.5 KV/minute |
| Dielectric Strength to Shield | 1.5 KV/minute |
| Min. Insulation Resistance | 5 GΩ•km |
| Transfer Impedance | 1000 mΩ/m max. @ 100 MHz. |
| Max. Tensile Strength - Short Term | 130 N |
| Min. Bend Radius | 50 mm |
| Operating Temperature Range | -20 °C +60 °C |

TRANSMISSION PERFORMANCE

Cat. 6A Screened-pair Horizontal Cables*

| Freq. MHz | Attenuation dB/100m @ 20°C | NEXT dB | PS dB | NEXT dB | RL dB | ELFEXT dB | PSELFEXT dB |
|-----------|----------------------------|---------|-------|---------|-------|-----------|-------------|
| 1 | 3.0 | 65.0 | 62.0 | | 19.1 | 64.2 | 61.2 |
| 4 | 3.5 | 64.1 | 61.8 | | 21.0 | 52.1 | 49.1 |
| 8 | 5.0 | 59.4 | 57.0 | | 21.0 | 46.1 | 43.1 |
| 10 | 5.5 | 57.8 | 55.5 | | 21.0 | 44.2 | 41.2 |
| 16 | 7.0 | 54.6 | 52.2 | | 20.0 | 40.1 | 37.1 |
| 20 | 7.9 | 53.1 | 50.7 | | 19.5 | 38.2 | 35.2 |
| 25 | 8.9 | 51.5 | 49.1 | | 19.0 | 36.2 | 33.2 |
| 31.25 | 10.0 | 50.0 | 47.5 | | 18.5 | 34.3 | 31.3 |
| 62.5 | 14.4 | 45.1 | 42.7 | | 16.0 | 28.3 | 25.3 |
| 100 | 18.6 | 41.8 | 39.3 | | 14.0 | 24.2 | 21.2 |
| 200 | 27.4 | 36.9 | 34.3 | | 11.0 | 18.2 | 15.2 |
| 250 | 31.1 | 35.3 | 32.7 | | 10.0 | 16.2 | 13.2 |
| 400 | 38.4 | 29.9 | 27.1 | | 8.0 | 12.1 | 9.1 |
| 500 | 43.8 | 26.7 | 23.8 | | 8.0 | 10.2 | 7.2 |

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

ORDERING INFORMATION

| Part Number | Description | Standard Length |
|---------------|---|-----------------|
| 114-20622404X | Cat 6A F/FTP 4 Pair 23 AWG Steel Wire Armoured 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) |
|---------------|------------------|----------|----------|-----------------|
| 114-20622404X | Plywood Reel/Ctn | 25.0 | 27.0 | 420 x 420 x 260 |