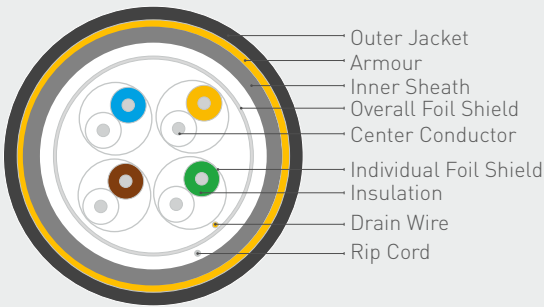
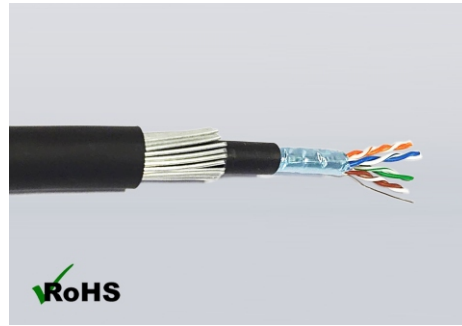


# CAT 6 F/FTP 4 PAIR 23 AWG STEEL WIRE ARMoured CABLE LSZH

Norden Category 6 F/FTP Steel Wire Armoured cables exceed Category 6/ Class E Specification. It is tested to 250 MHz frequency range and designed to support 10 Gigabyte and External applications. 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 6  
ISO/IEC-11801, 2nd Edition Class E  
IEC 61156-5:2002 Category 6  
LSZH: IEC 60332-1, IEC 60754, IEC 61034

## MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	0.57 mm, 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 6 F/FTP 4 PAIR 23 AWG STEEL WIRE ARMoured CABLE LSZH

## ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 250 MHz
Impedance	100 Ω
Coupling Attenuation	85 dB min @ 30-100 MHz 85-20Log (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.
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
Max. Tensile Strength - Short Term	130 N
Min. Bend Radius	50 mm
Operating Temperature Range	-20 °C +60 °C

## TRANSMISSION PERFORMANCE

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

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

## ORDERING INFORMATION

Part Number	Description	Standard Length
113-20622404X	Cat 6 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)
113-20622404X	Plywood Reel/Ctn	25.0	27.0	420 x 420 x 260