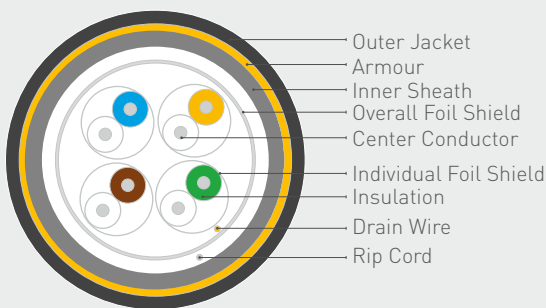
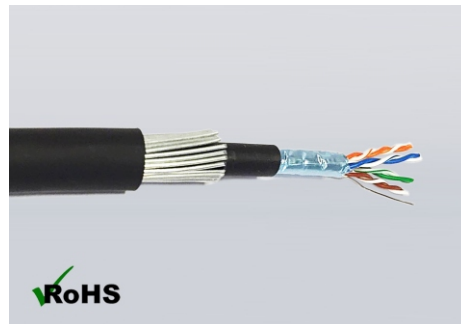


# CAT 6A F/FTP 4 PAIR 23 AWG STEEL WIRE ARMoured CABLE LSZH



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	0.56 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

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## ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 500 MHz
Impedance	100 $\Omega$
Coupling Attenuation	85 dB min @ 30-100 MHz 85-20Log (f/100) @100-500 MHz
DC Resistance	78 $\Omega$ /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 G $\Omega$ •km
Transfer Impedance	1000 m $\Omega$ /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