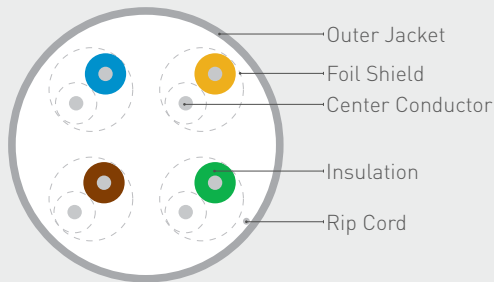
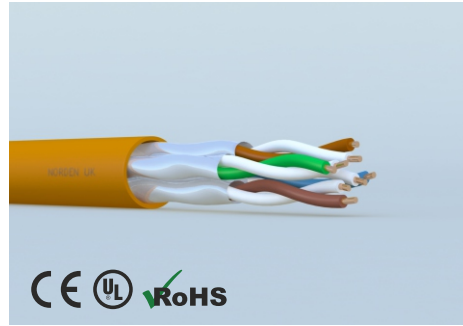


# CATEGORY 6A U/FTP 4 PAIR CABLE

Norden Category 6A U/FTP cables exceed Category 6A/Class EA specification. It is tested to 500MHz frequency range and designed to support 10 Gigabyte applications to full 100m.

Data integrity is one of the most essential network requirements for many corporations, especially those located in environments that are prone to noise and electromagnetic interference such as industrial facilities and airports, as well as those running critical systems such as military installations and hospitals. U/FTP (Foil Twisted Pair) cabling systems are installed for improved Alien Cross talk performance.



## COMPLIANCE

- IEEE 802.3bt for PoE applications
- IEEE 802.3an :2006 (10GBASE-T)
- ANSI/TIA-568-C.2:2009 Category 6A
- ISO/IEC-11801, 2nd Edition Class EA
- IEC 61156-5:2002 Category 6A, EN 50173-1
- 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:	0.57mm[D], 23 AWG
Conductor Construction:	Solid
Insulation Material:	SFS PE
Insulation O.D.:	1.36±0.05 mm
Conductor Unit Identification:	Solid/Stripe
Colour Code:	Per TIA/EIA 568-B
In. Shield Material:	Aluminium/Polyester Foil
In. Shield Design:	100% Coverage
Conductor Unit Lay-Up:	Pairs
Overall Drain-Wire Material:	N/A
Overall Drain-Wire size:	N/A
Overall Drain-Wire Construction:	N/A
Total Number of Wires:	8
Outer Jacket:	LS0H Halogen free flame retardant or PVC
Outer Jacket thickness & Ex. Diameter:	0.55±0.05mm, 7.5±0.5mm
Rip Cord:	Yes
Outer Jacket Colour:	Per Requirement
Marking:	Per Requirement

# CATEGORY 6A U/FTP 4 PAIR CABLE

## ELECTRICAL & MECHANICAL CHARACTERISTICS

Characteristic Impedance:	100Ω
Frequency Range:	1-500MHz
Coupling Attenuation:	55 dB min @ 30-100 MHz 55-20Log(f/100) @100-500 MHz
Max. DC Resistance:	73 Ω/km@20°C
Max. Resistance Unbalance:	2 %
Mutual Capacitance:	4.3nF/100m
Capacitance Unbalance:	1.2 pF/m max.
Velocity of Propagation:	78 % nom.
Propagation Delay Skew:	25 ns/100m max.
Dielectric Strength:	1.5K V/minute
Dielectric Strength to Shield:	1.5kV/minute
Min. Insulation Resistance :	5 GΩ•km
Max. Tensile Strength - Short Term:	130 N
Transfer Impedance:	10 m/m max @ 1-10 MHz 30 m/m max @ 30 MHz
Min. Bend Radius:	70 mm
Max. Operating Temperature:	+60 °C
Min. Operating Temperature:	-20 °C
Transfer Impedance:	50 m/m max @ 1 MHz, 100 m/m max @ 10 MHz. 200 m/m max @ 30 MHz, 1000 m/m max @ 100 MHz.

## TRANSMISSION PERFORMANCE

Cat. 6A Screened-pair Horizontal Cables\*

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PS dB	NEXT	RL dB	ACR dB	ELFEXT dB	PSELFEXT dB
1	1.8	87.0	84.0	23.0	85.2	84.0	81.0	
4	3.4	85.0	83.0	27.0	81.6	81.0	78.0	
10	5.4	77.3	74.3	26.0	71.9	76.0	73.0	
20	7.6	70.0	67.0	26.0	62.4	70.0	67.0	
31.25	9.7	68.0	65.0	26.0	58.3	65.0	63.0	
100	18.0	65.3	62.3	26.0	47.3	55.0	52.8	
150	23.6	62.0	59.0	26.0	38.4	53.5	51.5	
200	25.0	59.0	57.2	26.0	34.0	49.0	46.0	
250	28.1	57.6	54.6	25.0	29.5	44.0	41.0	
300	30.9	55.0	52.0	24.0	24.1	39.6	36.6	
400	38.3	53.0	51.8	23.0	14.9	37.0	34.0	
500	42.2	52.0	50.0	22.0	9.8	35.0	33.0	

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

## ORDERING INFORMATION

Part Number	Description	Standard Length
114-10001304X	Category 6a U/FTP 4 Pair Cable PVC	305 mtr
114-10002304X	Category 6a U/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)
114-10001304X	Ply Reel	18.5	21.0	420 x 420 x 260
114-10002304X	Ply Reel	18.5	21.0	420 x 420 x 260