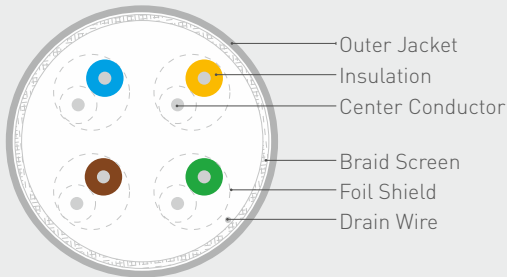
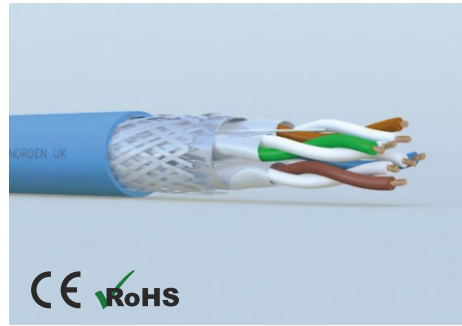


# CATEGORY 6A S/FTP 4 PAIR EXTERNAL CABLE

Norden Category 6A S/FTP cables exceed Category 6A / Class EA specification. It is tested to 500 MHz frequency range and designed to support 10 Gigabyte applications to full 100 m. Extremely high pair-balance providing excellent EMC (ElectroMagnetic compatibility), minimizing radiation, maximizing noise immunity and providing high alien cross talk performance to F/FTP cabling systems. S/FTP (Twisted Pair – overall shielded 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

## 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 O.D.	1.35 mm nom.
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Ind. Shield Material	Aluminium/Polyester Foil
Ind. Shield Design	100 % Coverage
Conductor Unit Lay-Up	Pairs
Overall Shield Design	Braid
Overall Shield Material	Tinned Copper
Braid Coverage	More than 45 %.
Drain-Wire	Yes
Total Number of Wires	8
Outer Jacket	LSZH (Low Smoke Zero Halogen) or PE
Outer Jacket Thickness & Ex. Diameter	0.55 ± 0.05 mm, 7.9±0.5 mm
Outer Jacket Colour	Per Requirement
Marking	Per Requirement

# CATEGORY 6A S/FTP 4 PAIR EXTERNAL CABLE

## ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 500 MHz
Impedance	100 $\Omega$
Coupling Attenuation	85 dB min @ 30-100 MHz 85-20 Log (f/100) @100-500 MHz
Max. DC Resistance	73 $\Omega$ /km @ 20 °C
Max. Resistance Unbalance	2 %
Capacitance Unbalance	1.2 pF/m max.
Velocity of Propagation	78 % 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
Max. Tensile Strength - Short Term	130 N
Min. Bend Radius	60 mm
Operating Temperature Range	-20 °C +65 °C

## 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	87.2	84.2		23.0	85.4	84.0	81.0
4	3.4	84.0	81.0		27.0	80.6	81.0	78.0
10	5.4	80.2	77.2		26.0	74.8	76.0	73.0
20	7.6	77.0	73.8		26.0	69.4	70.0	67.0
31.25	9.7	75.6	72.6		26.0	65.9	65.0	63.0
100	18.0	72.0	69.0		26.0	54.0	55.0	52.8
150	23.6	69.0	66.0		26.0	45.4	53.5	51.5
200	25.0	66.9	63.9		26.0	41.9	49.0	46.0
250	28.1	64.5	61.5		25.0	36.4	44.0	41.0
300	30.9	62.0	58.9		24.0	31.3	39.6	36.6
400	38.3	59.0	56.1		23.0	20.7	37.0	34.0
500	42.2	57.0	54.2		22.0	14.8	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
114-20002504X	Category 6A S/FTP 4 Pair External Cable LSZH	305 mtr
114-20003504X	Category 6A S/FTP 4 Pair External Cable PE	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)
114-20002504X	Plywood Reel/Ctn	20.6	23.0	420 x 420 x 260
114-20003504X	Plywood Reel/Ctn	20.6	23.0	420 x 420 x 260