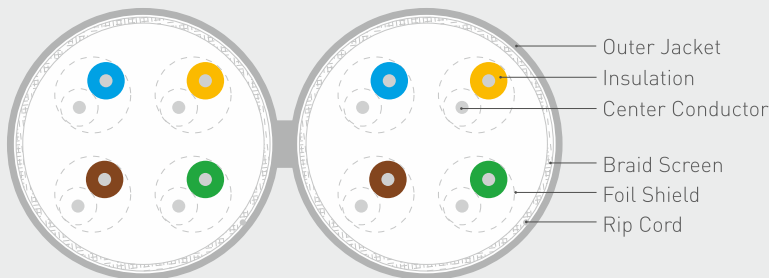
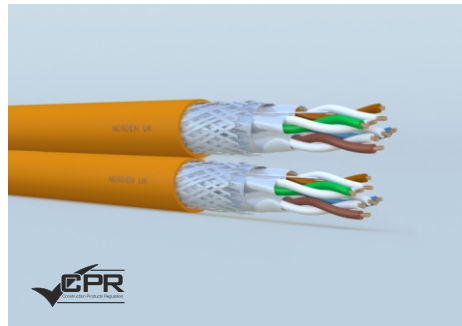


# CATEGORY 6A S/FTP 4 PAIR 23AWG DUPLEX CABLE LSOH

Norden Category 6A S/FTP Duplex 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 (Electro Magnetic 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

ANSI/TIA-568.2-D IEC 61156-5  
EN 50288-10-1  
EN 50173  
ISO/IEC 11801  
EN 50575CPR

**CPR Compliance to Dca s2,d2,a1**  
EN 60332-1-2, EN 50399  
EN 61034-2, EN 60754-2

## PRODUCT CLASSIFICATION

Product Sequence	Euro Class
Product Type	Twisted Pair Cable

## MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	1/0.57(±0.01mm), 23 AWG
Conductor Construction	Solid
Insulation Material	SFS PE
Insulation O.D.	1.38 mm nom.
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Ind. Shield Material	Aluminium/Polyester, ≥ 25% overlap
Ind. Shield Design	100 % Coverage
Conductor Unit Lay-Up	Pairs
Overall Shield Design	Braid
Overall Braid Material	Aluminium Magnesium Alloy Wire
Braid Coverage	45 % nom.
Drain-Wire Material	N/A
Total Number of Wires	16 (8Pair)
Outer Jacket	LSOH (Low Smoke Zero Halogen)
Outer Jacket Thickness & Ex. Diameter	0.50mm, 7.50*16(±0.30mm)
Outer Jacket Colour	Per Requirement
Marking	Per Requirement

# CATEGORY 6A S/FTP 4 PAIR 23AWG DUPLIX CABLE LSOH

## 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	93 $\Omega$ /km
Max. Resistance Unbalance	$\geq 4\%$
Capacitance Unbalance	1.2 pF/m max.
Velocity of Propagation	78 % nom.
Propagation Delay Skew	$\geq 45$ ns/100m max.
Dielectric Strength	1.5 KV/minute
Dielectric Strength to Shield	1.5 KV/minute
Min. Insulation Resistance	5000 M $\Omega$ •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	ELFEXT dB	PSELFEXT dB
4	3.8	66.3	63.3		23.0	56.0	53.0
8	5.3	61.8	58.8		24.5	49.9	46.0
10	5.9	60.3	57.3		25.0	48.0	45.0
16	7.5	57.2	54.2		25.0	43.9	40.9
20	8.4	55.8	52.8		25.0	42.0	39.0
25	9.4	54.3	51.3		24.3	40.0	37.0
31.25	10.5	52.9	49.9		23.6	38.1	35.1
62.5	15.0	48.4	45.4		21.5	32.1	29.1
100	19.1	45.3	42.3		20.1	28.0	25.0
200	27.6	40.8	37.8		18.0	22.0	19.0
250	31.1	39.3	36.3		17.3	20.0	17.0
300	34.1	38.1	35.1		17.3	18.5	15.5
500	45.3	34.8	31.8		17.3	14.0	11.0

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

## ORDERING INFORMATION

Part Number	Description	Standard Length
126-10008504X	Category 6A S/FTP 4 Pair 23AWG Duplex Cable LSOH Dca	305 mtr

X: BK(Black), BL(Blue), GN(Green), GY(Gray), RD(Red), WH(White), YL(Yellow)