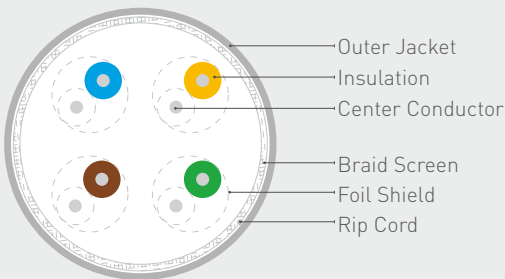
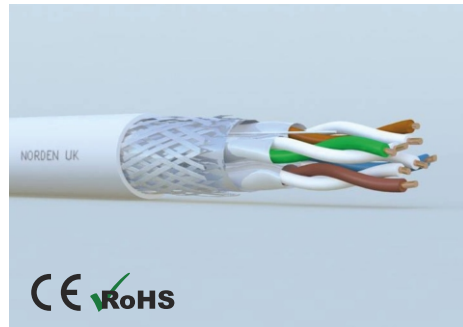


CATEGORY 7A S/FTP 4 PAIR CABLE

Norden Category 7A S/FTP cables exceed Category 7A/ Class FA specification, maximizing the user's return on investment, by extending the life of the system. It is tested to 1000 MHz frequency range and designed to support Broadband CATV and other 10 Gigabyte applications.



COMPLIANCE

ISO/IEC 11801: Ed 2.2 Class FA / EN 50288
 EN55022 / EN 50173 / EN55024 / IEEE 802.3an
 LSZH: IEC 60332-1 / IEC 60754 / IEC 61034

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	23 AWG
Normal Conductor Diameter	0.57±0.005 mm
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	Aluminium Face Outwards
Conductor Unit Lay-Up	Pairs
Drain Wire	N/A
Overall Shield Design	Braid
Overall Shield Material	Tinned Copper 0.10 mm
Braid Coverage	More than 40 %.
Total Number of Wires	8
Rip Cord	yes
Outer Jacket Material	LSZH Low Smoke Zero Halogen or PVC
Outer Jacket Thickness & Ex. Diameter	0.55±0.05 mm, 7.9±0.5 mm
Outer Jacket Colour	Per Requirement
Marking	Per Requirement

CATEGORY 7A S/FTP 4 PAIR CABLE

ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 1000 MHz
Impedance	100 Ω
Max. DC Resistance	73 Ω/km @ 20 °C
Max. Resistance Unbalance	2 %
Capacitance	44 pF/m
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 GΩ•km
Coupling Attenuation	85 db min @ 30-100 MHz 85-20 log (f/100) @100-1000 MHz
Max. Tensile Strength - Short Term	130 N
Min. Bend Radius	60 mm
Operating Temperature Range	+80 °C to -20 °C

TRANSMISSION PERFORMANCE

Cat.7A Screened Horizontal Cables*

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PS dB	NEXT	RL dB	ACR dB	ELFEXT dB	PSELFEXT dB
1	2.0	100.0	97.0		27.0	98.0	91.0	88.0
4	3.4	99.8	96.8		30.0	96.4	91.0	88.0
10	5.3	99.3	96.3		30.0	94.0	90.4	87.4
20	7.3	99.1	95.0		30.0	91.8	88.6	85.6
31.25	9.1	99.0	94.5		29.8	89.9	87.3	84.3
100	17.1	98.7	93.6		26.0	81.5	84.4	81.5
150	21.0	96.5	93.0		26.0	75.5	82.5	79.3
200	25.0	95.2	92.2		26.0	70.2	80.0	77.0
250	28.7	94.8	92.8		25.6	66.1	77.0	74.0
300	31.0	93.3	91.3		25.6	62.3	74.8	71.8
400	33.4	91.9	90.0		25.0	58.5	69.0	67.2
500	38.0	89.9	88.9		25.0	51.9	66.6	64.6
600	43.1	86.1	86.0		25.0	43.0	62.0	60.0
1000	57.5	82.0	81.0		23.0	24.5	48.1	45.1

*Supplied cables meets Cat. 7a min. transmission requirements as per IEC 61156-5 Ed. 2

ORDERING INFORMATION

Part Number	Description	Standard Length
116-10002504X	Category 7a S/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)
116-10002504X	Plywood Reel	21.5	23.5	420 x 420 x 260