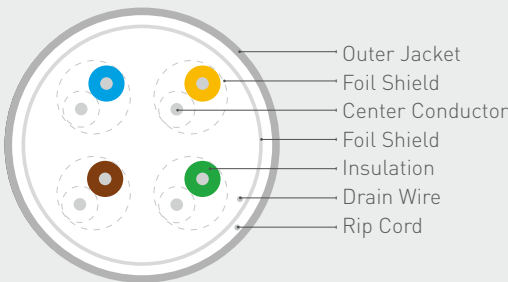
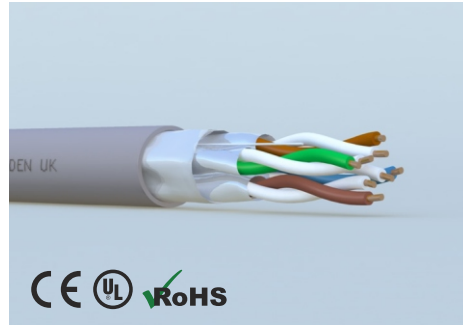


CATEGORY 6A F/FTP 4 PAIR CABLE

Norden Category 6A F/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 (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-C.2:2009 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	0.57 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
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
Outer Jacket	LSZH Low Smoke Zero Halogen or PVC
Outer Jacket Thickness & Ex. Diameter	0.55±0.05 mm, 7.6±0.5 mm
Rip Cord	Yes
Outer Jacket Colour	Per Requirement
Marking	Per Requirement



CATEGORY 6A F/FTP 4 PAIR CABLE

ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 500 MHz
Impedance	100 Ω
Coupling Attenuation	85 dB min @ 30-100 MHz 85-20Log (f/100) @100-500 MHz
DC Resistance	78 Ω/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 GΩ•km
Transfer Impedance	1000 mΩ/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	RL dB	ACR dB	ELFEXT dB	PSELFEXT dB
1	1.7	87.2	84.0	23.0	85.5	84.0	81.0	
4	3.4	84.0	81.0	23.0	80.6	81.0	78.0	
10	5.4	80.2	77.2	25.0	74.8	76.0	73.0	
20	7.6	77.0	73.8	25.0	69.4	70.0	67.0	
31.25	9.7	75.6	72.6	23.8	65.9	65.0	63.0	
100	18.0	72.0	69.0	21.1	54.0	55.0	52.8	
150	23.6	69.0	66.0	18.8	45.4	53.5	51.5	
200	27.4	66.9	63.9	18.0	43.3	49.0	46.0	
250	31.0	64.5	61.5	17.3	33.5	44.0	41.0	
300	34.2	62.0	58.9	16.8	24.8	39.6	36.6	
400	40.0	59.0	56.1	16.8	19.0	37.0	34.0	
500	42.2	57.0	54.2	16.8	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
114-10001404X	Category 6a F/FTP Pair Cable PVC	305 mtr
114-10002404X	Category 6a F/FTP 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)
114-10001404X	Plywood Reel/Ctn	19.2	21.7	420 x 420 x 260
114-10002404X	Plywood Reel/Ctn	19.5	22.0	420 x 420 x 260