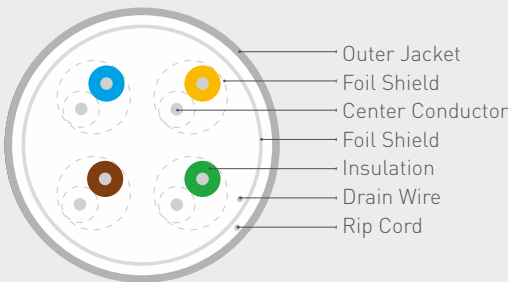
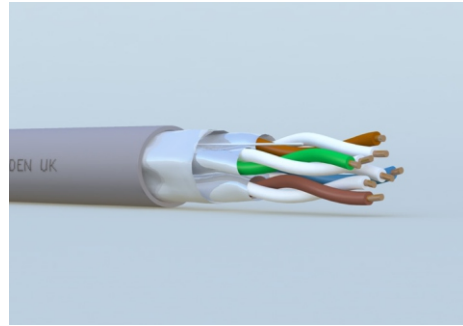


CATEGORY 6A F/FTP 4 PAIR CABLE

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
LSOH: IEC 60332-1, IEC 60754, IEC 61034

PRODUCT CLASSIFICATION

Product Sequence	E Series
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	23 AWG
Conductor Construction	Solid
Insulation Material	SFS PE
Insulation O.D.	1.35 mm nom.
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
Total number of Wires	8
Outer Jacket	PVC/LSOH
Outer Jacket Thickness & Ex. Diameter	0.55±0.05 mm, 7.6±0.5 mm
Rip Cord	Yes

CATEGORY 6A F/FTP 4 PAIR CABLE

ELECTRICAL & MECHANICAL CHARACTERISTICS

Impedance	100 Ω
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 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 dB	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	
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
114-40001404X	Category 6A F/FTP Pair Cable PVC E Series	305 mtr
114-40002404X	Category 6A F/FTP Pair Cable LSOH E Series	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)
114-40001404X	Plywood Reel/Ctn	19.2	21.7	420 x 420 x 260
114-40002404X	Plywood Reel/Ctn	19.5	22.0	420 x 420 x 260