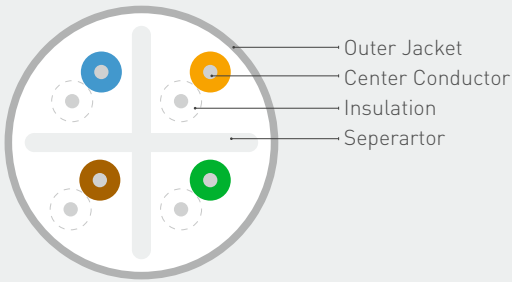
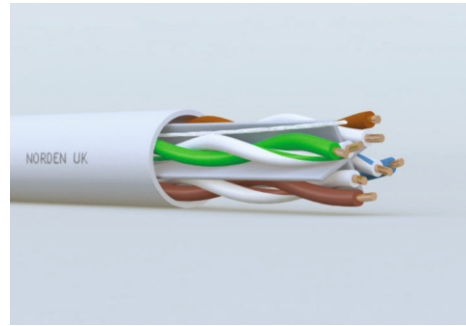


# CATEGORY 6A U/UTP 23 AWG 4 PAIR CABLE

Norden Category 6A U/UTP cables exceed Category 6A/Class EA specification. It is tested to 500MHz frequency range and designed to support 10 Gigabyte applications to full 100m. Extremely high pair-balance providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation, maximizing noise immunity and providing high alien cross talk performance to U/UTP (Unshielded Twisted Pair) cabling systems.



## COMPLIANCE

IEEE 802.3an :2006 (10GBASE-T)  
 ANSI/TIA-568.2-D: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	HDPE
Insulation O.D.	1.03 mm nom.
Colour Code	Per TIA/EIA 568-B
Conductor Unit Lay-Up	Pairs
Total Number of Wires	8
Outer Jacket Material	PVC/LSOH
Outer jacket thickness & Ex. Diameter	0.55 ± 0.05 mm , 7.20 ± 0.30 mm
Outer Jacket Colour	Per requirement
Rip Cord	No

# CATEGORY 6A U/UTP 23 AWG 4 PAIR CABLE

## ELECTRICAL & MECHANICAL CHARACTERISTICS

Pulling Force	110 N/mm <sup>2</sup> max.
Delay Skew	25 ns/100m max.
Characteristic Impedance	100±6 Ω @ 1-500 MHz
DC Resistance	72 Ω/Km max.
Resistance Unbalance	2 % max.
Capacitance	45 pF/m nom.
Cap. Unbalance (Wire to Ground)	1500 pF/Km max.
Velocity of Propagation (NVP)	67 %
Insulation Resistance	5000 MΩ•Km min.
Transfer Impedance	N/A
Short Term Bend Radius	8 x OD mm
Long Term Bend Radius	4 x OD mm
Operating Temperature Range	-20°C to +60°C

## TRANSMISSION PERFORMANCE

Cat. 6A Un-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	86.3	83.3		26.0	84.6	84.0	80.0
4	3.4	85.0	83.0		29.0	75.6	81.0	78.0
10	5.4	77.3	74.3		31.0	71.9	76.0	73.0
20	7.6	70.0	67.0		30.0	62.4	70.0	67.0
100	18.0	65.3	62.3		27.1	47.3	55.0	52.8
150	23.6	62.0	59.8		26.0	38.4	53.5	51.5
200	27.4	59.0	57.2		25.0	31.6	49.0	46.0
250	31.0	57.6	54.6		25.2	26.6	44.0	41.0
300	34.2	55.0	52.0		24.0	20.3	39.6	36.6
400	40.0	53.0	51.8		21.8	13.0	37.0	34.0
500	42.2	52.0	50.0		21.8	9.8	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
114-40001104X	Category 6A U/UTP 23 AWG 4 Pair Cable PVC E Series	305 mtr
114-40002104X	Category 6A U/UTP 23 AWG 4 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)
114-40001104X	Plywood Reel/Ctn	14.3	16.3	340 x 340 x 340
114-40002104X	Plywood Reel/Ctn	15.0	16.8	340 x 340 x 340