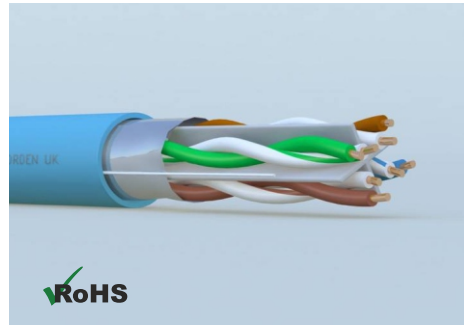


# CATEGORY 6A U/UTP 23 AWG 4 PAIR CABLE LSOH

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. It has a LSOH (Eca) jacket and is Non-corrosive. Extremely high pair balance providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation, maximizing noise immunity, and providing high alien crosstalk performance to U/UTP (Unshielded Twisted Pair) cabling systems.



- Isolation Wrap
- Separator
- Polyester Tape
- Insulation
- Sheath
- Rip Cord

### COMPLIANCE

IEEE 802.af, IEEE 802.3at for PoE applications  
 ANSI/TIA-568.2-D Category 6A  
 ISO/IEC-11801, Class EA / IEC 61156-5: Category 6A  
**CPR Compliance to Eca**  
 EN 60332-1-2

## PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

## MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Solid Bare Copper
Conductor Size	23 AWG
Conductor Construction	Solid
Insulation Material	PE
Insulation Diameter	1.16±0.05 mm
Wrapping	Polyester Tape + Isolation Wrap
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Outer Sheath Material	LSOH
Outer Jacket thickness & Ex. Diameter	0.55±0.05 mm, 7.3±0.5 mm
Rip Cord	Yes

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

## ELECTRICAL & MECHANICAL CHARACTERISTICS

Impedance	100±15 @ 0-250 MHz , 100±22 @ 250-500 MHz
DC Resistance @ 20°C	9.38 Ω/100m
Max. Resistance Unbalance	5 %
Mutual Capacitance	43nF/100m
Capacitance Unbalance	1.5 pF/m max.
Propagation Delay Skew	≤ 45 ns/100m max.
Dielectric Strength	1.5 KV/minute
Insulation Resistance	5 GΩ•km
Min. Bend Radius	8 x OD
Operating Temperature Range	-20 °C ~ +60 °C

## TRANSMISSION PERFORMANCE

Cat. 6A Screened-pair Horizontal Cables\*

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PSNEXT dB	RL dB	ELFEXT dB	PSELFEXT dB	PSANEXT dB	PSAACRF dB
1	-	74.3	72.3	20.0	67.8	64.8	67.0	67.0
4	3.8	65.3	63.3	23.0	55.8	52.8	67.0	66.2
8	5.3	60.8	58.8	24.5	49.7	46.7	67.0	60.1
10	5.9	59.3	57.3	25.0	47.8	44.8	67.0	58.2
16	7.5	56.2	54.2	25.0	43.7	40.7	67.0	54.1
20	8.4	54.8	52.8	25.0	41.8	38.8	67.0	52.2
25	9.4	53.3	51.3	24.3	39.8	36.8	67.0	50.2
31.25	10.5	51.9	49.9	23.6	37.9	34.9	67.0	48.3
62.5	15.0	47.4	45.4	21.5	31.9	28.9	65.6	42.3
100	19.1	44.3	42.3	20.1	27.8	24.8	62.5	38.2
200	27.6	39.8	37.8	18.0	21.8	18.8	58.0	32.2
250	31.1	38.3	36.3	17.3	19.8	16.8	56.5	30.2
300	34.3	37.1	35.1	16.8	18.3	15.3	55.3	28.7
500	45.3	33.8	31.8	15.2	13.8	10.8	52.0	24.2

## ORDERING INFORMATION

Part Number	Description	Standard Length
114-1000Q104X	CATEGORY 6A U/UTP 23 AWG 4 PAIR CABLE LSOH (Eca)	305 m

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