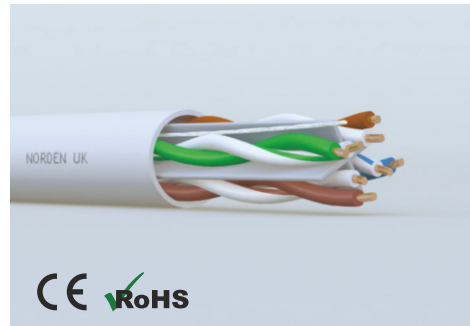


CATEGORY 6A U/UTP 4 PAIR CABLE LSZH

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.



- Outer Jacket
- Center Conductor
- Insulation
- Separator
- Rip Cord

COMPLIANCE

IEEE 802.3an :2006 (10GBASE-T)
 IEEE 802.3af and IEEE 802.3at for PoE
 ANSI/TIA-568.2-D Category 6A ISO/
 IEC-11801, 2nd Edition Class EA IEC
 61156-5:2002 Category 6A
 LSZH: IEC 60332-1, IEC 60754, IEC 61034

PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	0.57 mm, 23 AWG
Conductor Construction	Solid
Insulation Material	High Density Polyethylene (HDPE)
Insulation O.D.	1.03 mm nom.
Pair Separator Material	Polyethylene (PE)
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Conductor Unit Lay-Up	Pairs
Total Number of Wires	8
Outer Jacket Material	Low Smoke Zero Halogen (LSZH)
Outer Jacket thickness & Ex. Diameter	0.65±0.05 mm, 6.9±0.4 mm
Outer Jacket Colour	Per requirement
Rip Cord	Yes

CATEGORY 6A U/UTP 4 PAIR CABLE LSZH

ELECTRICAL & MECHANICAL CHARACTERISTICS

Pulling Force	110 N/mm ² max.
Delay Skew	25 ns/100m max.
Coupling Attenuation	85 db min @ 30-100 MHz 85-20 log (f/100) @100-500 MHz
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.
Dielectric Strength	1.5 KV/ minute min.
Velocity of Propagation (NVP)	67 %
Insulation Resistanc	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
Storage Temperature	-20°C to +80°C

TRANSMISSION PERFORMANCE

Cat. 6A Un-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	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
31.25	9.7	68.0	65.0		29.8	58.3	65.0	63.0
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
114-10002104X	Category 6A U/UTP 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)
114-10002104X	Plywood Reel/Ctn	15.0	16.8	340 x 340 x 340