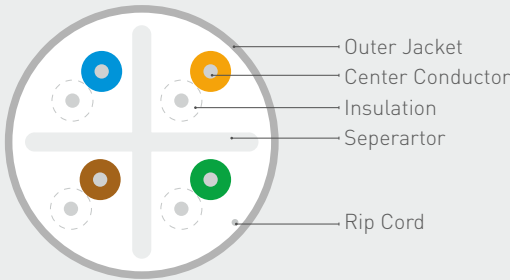
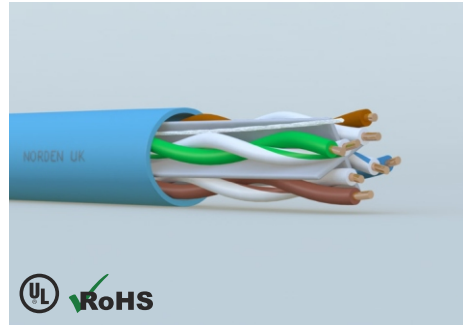


# CATEGORY 6 U/UTP 4 PAIR CABLE

Norden Category 6 UTP cables exceed Category 6 / Class E specification. It is tested to 250 MHz frequency range and designed to support Gigabit 1000Base-T and 1000Base-Tx applications up to 100m. Norden Category 6 UTP cables are UL listed CM and standard packing are in 305m easy pull out boxes.

Extremely high pair-balance providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation, maximizing noise immunity and providing high alien cross talk performance to UTP (Unshielded Twisted Pair) cabling systems.



## COMPLIANCE

IEEE 802.af, IEEE 802.3at for PoE applications  
ANSI/TIA-568-C.2 Category 6  
ISO/IEC-11801, Class E / IEC 61156-5: Category 6.  
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	High Density PE
Insulation Diameter	1.02±0.03 mm
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Rip Cord	Yes
Overall Drain-Wire Material	N/A
Overall Drain-Wire Size	N/A
Overall Drain-Wire Construction	N/A
Outer Jacket	PVC, LSZH or Plenum
Outer Jacket Thickness & Ex. Diameter	0.55±0.05 mm, 6.3±0.4 mm
Outer Jacket Colour	Per Requirement
Marking	Per Requirement

# CATEGORY 6 U/UTP 4 PAIR CABLE

## ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 250 MHz
Impedance	100 $\Omega$ $\pm$ 15
Coupling Attenuation	40 dB min @ 30-100 MHz 40-20 Log (f/100) @100-300 MHz
DC Resistance	73 $\Omega$ /km nom.
Max. Resistance Unbalance	4 %
Capacitance	5.6 nF/100m max.
Capacitance Unbalance	3.3 pF/m max.
Propagation Delay Skew	35 ns/100m max.
Velocity of Propagation	69 %
Dielectric Strength	1 KV/minute
Min. Insulation Resistance	5 G $\Omega$ •km
Max. Tensile Strength - Short Term	110 N
Min. Bend Radius	53.6 mm
Operating Temperature Range	-10°C to +65°C

## TRANSMISSION PERFORMANCE

Cat. 6 Un-screened Pair Horizontal Cables\*

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PSNEXT dB	RL dB	ELFEXT dB	PSELFEXT dB
1	1.9	87.6	82.6	28.0	85.0	80.0
4	3.5	79.2	74.2	30.0	73.0	68.0
10	5.6	73.3	68.3	29.0	65.0	60.2
20	8.4	69.1	63.8	29.0	59.0	54.0
31.25	10.0	66.0	61.1	28.6	55.1	50.3
100	18.9	58.0	53.0	25.1	45.0	40.1
150	24.0	55.2	50.7	23.8	41.8	36.9
200	26.1	53.0	48.0	22.8	39.0	33.8
250	30.0	52.6	47.6	22.0	37.8	32.8

\*Supplied cables meets Cat. 6 min. transmission requirements as per IEC 61156-5 Ed. 2

## ORDERING INFORMATION

Part Number	Description	Standard Length
113-11001104X	Category 6 U/UTP 4 Pair Cable PVC	305 mtr
113-11002104X	Category 6 U/UTP 4 Pair Cable LSZH	305 mtr
113-15001104X	Category 6 U/UTP 4 Pair Cable Plenum	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)
113-11001104X	Pulley Box	12.0	13.0	400 x 400 x 220
113-11002104X	Pulley Box	12.3	13.1	400 x 400 x 220
113-15001104X	Pulley Box	12.2	13.0	400 x 400 x 220