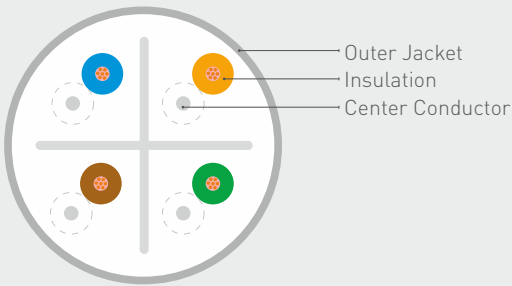
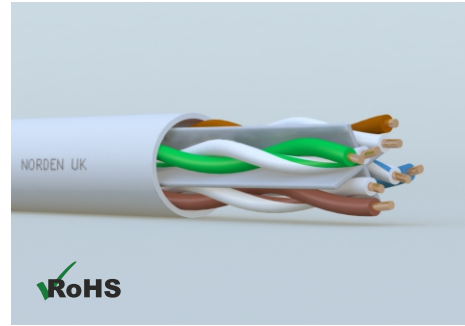


# CATEGORY 6 U/UTP 24 AWG 4 PAIR STRANDED CABLE

Norden Category 6 UTP stranded 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 upto 100m. Norden Category 6 UTP cables are having standard packing 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-568.2-D 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	7/0.20 mm, 24 AWG
Conductor Construction	Stranded
Insulation Material	High Density PE
Insulation Diameter	0.88±0.05 mm
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Separator	Yes
Outer Jacket	LSZH or PVC
Outer Jacket Thickness & Ex. Diameter	0.50 mm, 6.0±0.20 mm
Outer Jacket Colour	Per Requirement
Marking	Per Requirement



# CATEGORY 6 U/UTP 24 AWG 4 PAIR STRANDED CABLE

## ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 250 MHz
Impedance	100 ±15 Ω
Coupling Attenuation	40 dB min @ 30-100 MHz 40-20 Log (f/100) @100-300 MHz
DC Resistance	73 Ω/km norm.
Max. Resistance Unbalance	2.5 %
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 GΩ•km
Max.Tensile Strength - Short Term	110 N
Min. Bend Radius	53.6 mm
Operating Temperature Range	-10 °C +65 °C

## TRANSMISSION PERFORMANCE

Cat. 6 Un-screened Pair Horizontal Cables\*

Freq. Mhz	Attenuation dB/100m @ 20°C	NEXT dB	PSNEXT dB	RL dB	ACR-N dB	PS ACR-N dB
1	3.0	65.0	62.0	19.0	62.0	59.0
4	4.0	63.0	60.5	19.0	59.0	56.5
10	6.3	56.6	54.0	19.0	50.2	47.7
20	9.0	51.6	49.0	17.5	42.6	39.9
31.25	11.4	48.4	45.7	16.5	37.0	34.3
100	21.3	39.9	37.1	12.0	18.6	15.8
200	31.5	34.8	31.9	9.0	3.3	0.3
250	35.9	33.1	30.2	8.0	-2.8	-5.8

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

## ORDERING INFORMATION

Part Number	Description	Standard Length
119-10001104X	Category 6 U/UTP 24AWG 4 Pair Stranded Cable PVC	305 mtr
119-10002104X	Category 6 U/UTP 24AWG 4 Pair Stranded Cable LSOH	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)
119-10001104X	Pulley Box	10.8	12.3	360 x 360 x 200
119-10002104X	Pulley Box	11.1	12.5	360 x 360 x 200