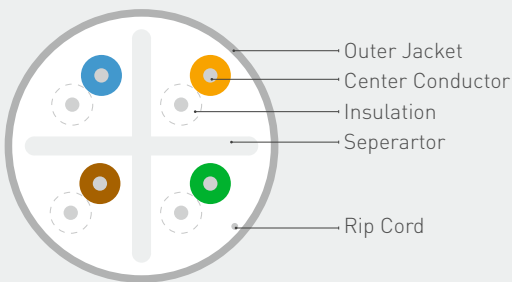
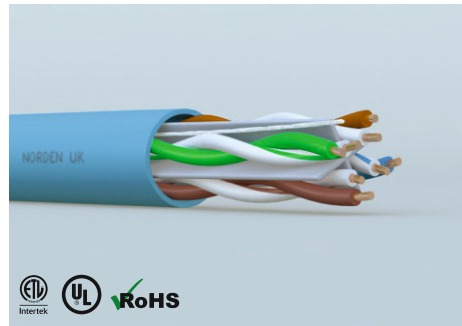


# CATEGORY 6 UNSHIELDED 4 PAIR CABLE

Norden Category 6 Unshielded cables exceed Category 6 / Class E specification. It is tested to 600 MHz frequency range and designed to support Gigabit 1000Base-T and 1000Base-Tx applications up to 100m. Norden Category 6 Unshielded 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 , IEEE 802.3bt for PoE applications  
 IEEE 802.3an :2006 (10GBASE-T)  
 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

## 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 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
Pair Separator	Cross-member(+) fluted spline
Outer Jacket	FRPVC, 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 UNSHIELDED 4 PAIR CABLE

## ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 600 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. Operating Voltage	80 V
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	-20°C to +70°C

## TRANSMISSION PERFORMANCE

Cat. 6 Un-screened Pair Horizontal Cables\*

Freq. MHz	Attenuation dB/100m (max)	NEXT dB (min)	PSNEXT dB (min)	RL dB (min)	ELFEXT dB (min)	PSELFEXT dB (min)
1	2.0	79.3	77.2	20.0	72.8	69.8
4	3.8	70.3	68.3	23.6	60.7	57.7
10	6.0	64.3	62.3	26.0	52.8	49.8
20	8.5	59.8	57.8	26.0	46.7	43.7
31.25	10.7	56.9	54.9	25.0	42.9	39.9
100	19.8	49.3	47.3	22.5	32.8	29.8
200	29.0	45.4	43.6	20.5	27.6	25.2
250	32.8	43.3	41.3	20.5	24.8	21.8
350	39.6	41.2	39.2	19.8	21.9	18.9
500	48.7	38.8	36.8	19.0	18.8	15.8
550	51.3	38.1	36.1	18.8	17.9	14.9
600	54.8	38	36	16	-	-

## ORDERING INFORMATION

Part Number	Description	Standard Length
113-11001104X	Category 6 Unshielded 4 Pair Cable FRPVC	305 mtr
113-11002104X	Category 6 Unshielded 4 Pair Cable LSZH	305 mtr
113-15004104X	Category 6 Unshielded 4 Pair Cable Plenum	305 mtr

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

## 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
113-15004104X	Pulley Box	12.2	13.0	400 x 400 x 220