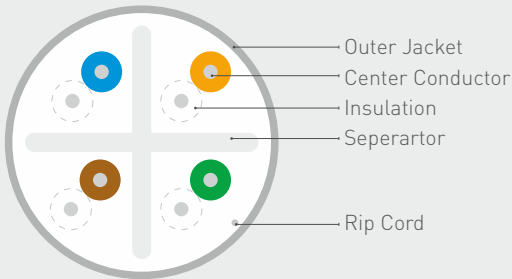
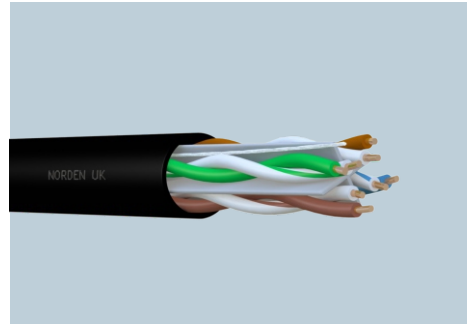


# CATEGORY 6 U/UTP 4 PAIR 24AWG EXTERNAL CABLE

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.

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

## PRODUCT CLASSIFICATION

Product Sequence	E Series
Product Type	Twisted Pair Cable

## MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	24 AWG
Conductor Construction	Solid
Insulation Material	High Density PE
Insulation Diameter	0.93±0.05 mm
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Rip Cord	Yes
Seperator	Yes
Outer Jacket	PE
Outer Jacket Thickness & Ex. Diameter	0.54±0.05 mm, 6.0±0.2 mm

# CATEGORY 6 U/UTP 4 PAIR 24AWG EXTERNAL 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	98.3 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	54 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	ELFEXT dB	PSELFEXT dB
1	2.0	74.3	72.3	20.0	67.8	64.8
4	3.8	65.3	63.3	23.0	55.8	52.8
10	6.0	59.3	57.3	25.0	47.8	44.8
20	8.5	54.8	52.8	25.0	41.8	38.8
31.25	10.7	51.9	49.9	23.6	37.9	34.9
100	19.8	44.3	42.3	20.1	27.8	24.8
200	29.0	39.8	37.8	18.0	21.8	18.8
250	32.8	38.3	36.3	17.3	19.8	16.8

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

## ORDERING INFORMATION

Part Number	Description	Standard Length
120-50003104X	Category 6 U/UTP 4 Pair 24AWG External Cable PE E-Series	305 mtr

X: BK(Black)

## PACKING INFORMATION

Part Number	Packing Mode	N.W (kg)	G.W (kg)	Dimension (mm)
120-50003104X	Pulley Box	13.1	14.2	400 x 400 x 220