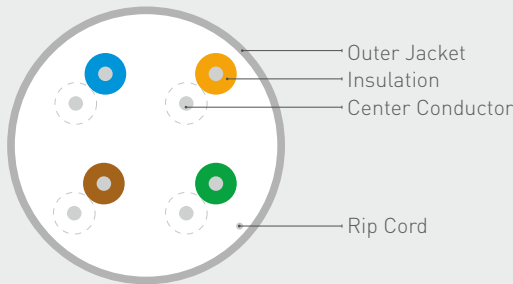
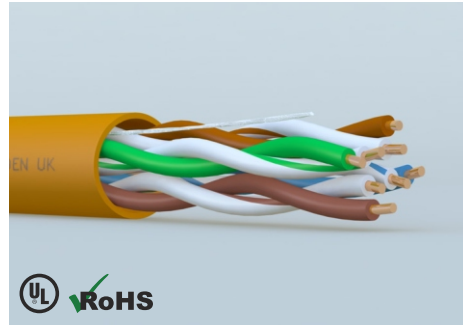


CATEGORY 6 U/UTP 4 PAIR 24AWG CABLE

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 upto 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	0.54 mm, 24 AWG
Conductor Construction	Solid
Insulation Material	High Density PE
Insulation Diameter	0.98±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
Outer Jacket	LSZH Low Smoke Zero Halogen or PVC
Outer Jacket Thickness & Ex. Diameter	0.54±0.05 mm, 6.0±0.4 mm
Outer Jacket Colour	Per Requirement
Marking	Per Requirement

STANDARDS

Standards	IEC 61156, TIA/EIA-568
Flammability Rating	IEC 60332-1, UL 1581 VW-1

CATEGORY 6 U/UTP 4 PAIR 24AWG 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	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
117-11001104X	Category 6 U/UTP 4 Pair 24AWG Cable PVC	305 mtr
117-11002104X	Category 6 U/UTP 4 Pair 24AWG 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)
117-11001104X	Pulley Box	10.8	12.3	360 x 360 x 200
117-11002104X	Pulley Box	11.1	12.5	360 x 360 x 200