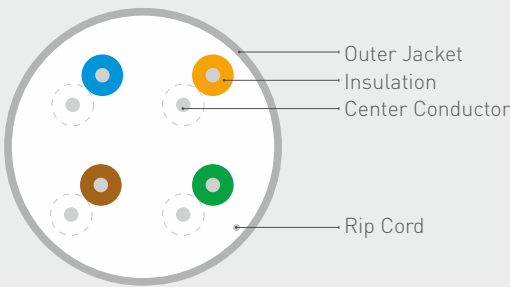
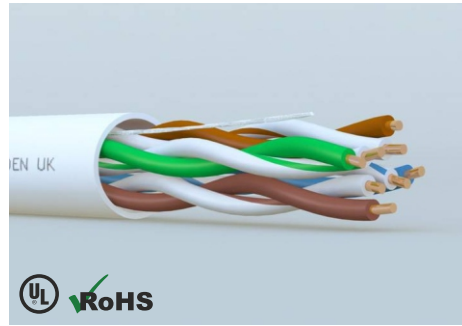


# CATEGORY 5E U/UTP 4 PAIR CABLE

Norden Category 5E UTP cables exceed Category 5E / Class D specification. It is tested to 100 MHz frequency range and designed to support Gigabit 1000Base-T applications upto 100m. Norden Category 5E UTP cables are UL listed CM and standard packing are in 305m easy pull out boxes. By design, Norden cables are manufactured to the highest quality standards, design requirements and materials to ensure that every box provides significant margin over ANSI/TIA-568.2-D specifications for NEXT, Power Sum NEXT and Insertion Loss across the entire channel.



## COMPLIANCE

IEEE 802.af, IEEE 802.3at for PoE applications  
 ANSI/TIA-568.2-D Category 5e  
 ISO/IEC-11801, Class D / IEC 61156-5: Category 5e  
 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	0.50 mm, 24 AWG
Conductor Construction	Solid
Insulation Material	High Density PE
Insulation Diameter	0.88±0.2 mm
Rip Cord	Yes
Drain Wire	N/A
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Outer Jacket	LSZH / PVC
Outer Jacket Thickness & Ex. Diameter	0.50±0.05 mm, 5.0±0.3 mm
Outer Jacket Colour	Per Requirement
Marking	Per Requirement



# CATEGORY 5E U/UTP 4 PAIR CABLE

## ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 100 MHz
Impedance	10 $\Omega$ $\pm$ 15
Coupling Attenuation	40 dB min @ 30-100 MHz
Max. DC Resistance	94 $\Omega$ /km @ 20 °C
Max. Resistance Unbalance	5 %
Capacitance	5.6 nF/100m max.
Capacitance Unbalance	3.3 pF/m max.
Velocity of Propagation	69 %
Propagation Delay Skew	25 ns/10m max.
Dielectric Strength	1 KV/minute
Min. Insulation Resistance	5 G $\Omega$ •km
Max. Tensile Strength - Short Term	110 N
Min. Bend Radius	40 mm
Operating Temperature Range	-30 °C +60 °C

## TRANSMISSION PERFORMANCE

Cat. 5e Un-screened Pair Horizontal Cables\*

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PSNEXT dB	RL dB	ELFEXT dB	PSELFEXT dB
1	1.8	73.8	71.8	25.0	78.8	76.8
4	3.6	64.8	62.8	28.0	66.8	64.8
10	5.8	55.3	53.3	28.0	58.8	56.8
20	8.3	53.8	52.8	28.0	52.8	50.8
31.25	10.5	50.9	48.1	27.8	50.0	48.3
60	15.3	46.4	44.6	26.1	43.0	41.4
100	19.8	43.3	41.3	25.0	39.0	36.8

\*Supplied cables meets Cat. 5e min. transmission requirements of IEC 61156-5 Ed. 2

## ORDERING INFORMATION

Part Number	Description	Standard Length
112-11001104X	Category 5E U/UTP 4 Pair Cable PVC	305 mtr
112-10002104X	Category 5E U/UTP 4 Pair 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)
112-11001104X	Pulley Box	8.7	9.2	340 x 340 x 200
112-10002104X	Pulley Box	8.5	9.4	340 x 340 x 200