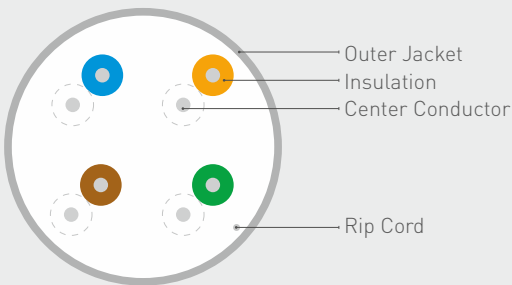
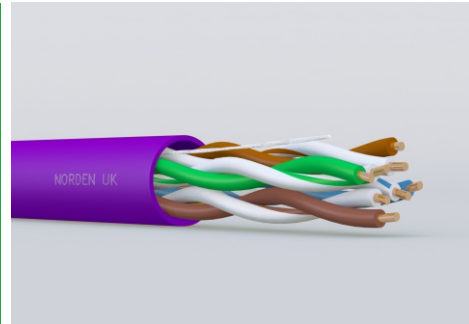


# CATEGORY 5E U/UTP 4 PAIR CABLE

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 up to 100m.

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-C.2 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-C.2 Category 5e  
 ISO/IEC-11801, Class D / IEC 61156-5: Category 5e  
 LSOH: IEC 60332-1, IEC 60754, IEC 61034

## 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	0.88±0.2 mm
Rip Cord	Yes
Drain Wire	N/A
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Outer Jacket	PVC/LSOH
Outer Jacket Thickness & Ex. Diameter	0.50±0.05 mm, 5.0±0.3 mm

# CATEGORY 5E U/UTP 4 PAIR CABLE

## ELECTRICAL & MECHANICAL CHARACTERISTICS

Impedance	10 Ω ±15
Max. DC Resistance	94 Ω/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.
Min. Insulation Resistance	5 GΩ•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
112-40001104X	Category 5E U/UTP 4 Pair Cable PVC E Series	305 mtr
112-40002104X	Category 5E U/UTP 4 Pair Cable LSOH E Series	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)
112-40001104X	Pulley Box	8.5	9.2	340 x 340 x 200
112-40002104X	Pulley Box	8.7	9.4	340 x 340 x 200