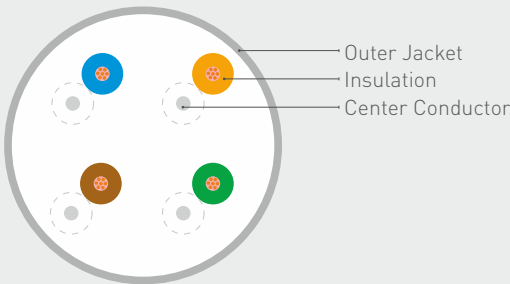
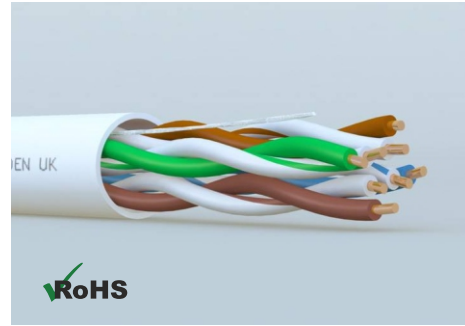


CATEGORY 5E U/UTP 24 AWG 4 PAIR STRANDED CABLE

Norden Category 5E UTP stranded 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 having standard packing 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	7/0.18mm, 24 AWG
Conductor Construction	Stranded
Insulation Material	High Density PE
Insulation Diameter	0.88±0.05 mm
Conductor Unit Identification	Stranded/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, 5.4±0.20 mm
Outer Jacket Colour	Per Requirement
Marking	Per Requirement

CATEGORY 5E U/UTP 24 AWG 4 PAIR STRANDED CABLE

ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 100 MHz
Impedance	100 Ω \pm 15
Coupling Attenuation	40 dB min @ 30-100 MHz
Max. DC Resistance	89 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.
Dielectric Strength	1 KV/minute
Min. Insulation Resistance	5 G Ω •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	ACR-N dB	PS ACR-N dB
1	3.0	60.0	57.0	17.0	57.0	54.0
4	4.5	53.5	50.5	17.0	49.1	46.1
10	7.1	47.0	44.0	17.0	39.9	36.9
20	10.2	42.0	39.0	17.0	31.8	28.8
31.25	12.9	38.7	35.7	15.1	25.9	22.9
62.5	18.6	33.6	30.6	12.1	15.0	12.0
100	24.0	30.1	27.1	10.0	6.1	3.1

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

ORDERING INFORMATION

Part Number	Description	Standard Length
118-10001104X	Category 5E U/UTP 24AWG 4 Pair Stranded Cable PVC	305 mtr
118-10002104X	Category 5E U/UTP 24AWG 4 Pair Stranded Cable LSOH	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)
118-10001104X	Pulley Box	8.7	9.2	340 x 340 x 200
118-10002104X	Pulley Box	8.5	9.4	340 x 340 x 200