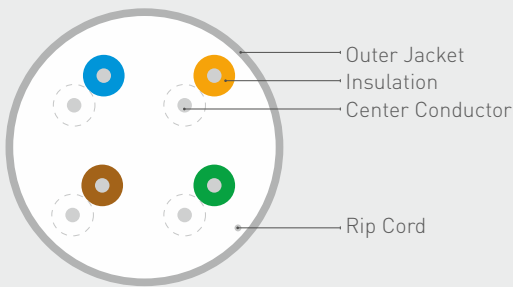
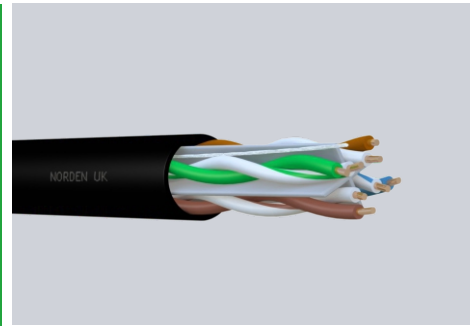


CATEGORY 5E U/UTP 4 PAIR EXTERNAL CABLE

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-568.2-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

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	PE
Outer Jacket Thickness & Ex. Diameter	0.60 ± 0.05 mm, 5.0 ± 0.3 mm

CATEGORY 5E U/UTP 4 PAIR EXTERNAL CABLE

ELECTRICAL & MECHANICAL CHARACTERISTICS

Impedance	100 ± 15Ω
Max. DC Resistance	95 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	45 ns/100m 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	RL dB	NEXT dB	ELFEXT dB	PS NEXT dB/100m	PS ELFEXT dB/100m
1.0	2.0	20.0	65.3	63.8	62.3	60.8
4.0	4.1	23.3	56.3	51.7	53.3	48.7
10.0	6.5	25.0	50.3	43.8	47.3	40.8
16.0	8.2	25.0	47.3	39.7	44.2	36.7
20.0	9.3	25.0	45.8	37.7	42.8	34.7
31.25	11.7	23.6	42.9	33.9	39.9	30.9
62.5	17.0	21.5	38.4	27.8	35.4	24.8
100.0	22.0	20.0	35.3	23.8	32.3	20.8

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

ORDERING INFORMATION

Part Number	Description	Standard Length
112-50003104X	Category 5e U/UTP 24 AWG 4 Pair External Cable PE E-Series	305 mtr

X: BK(Black)

PACKING INFORMATION

Part Number	Packing Mode	N.W (kg)	G.W (kg)	Dimension (mm)
112-50003104X	Pulley Box	8.5	9.2	340 x 340 x 200