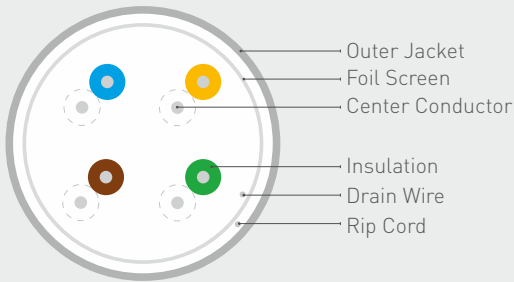
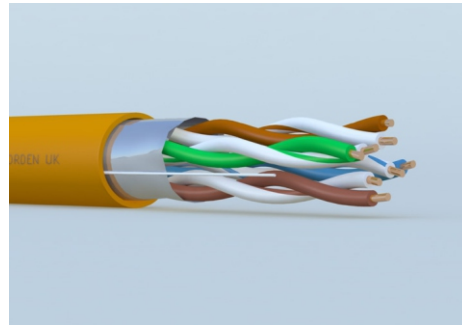


# CATEGORY 5E F/UTP 4 PAIR CABLE

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-568.2-D Category 5e

ISO/IEC-11801, Class D / IEC 61156-5: Category 5e

## CPR Compliance to Eca

EN 60332-1-2

## PRODUCT CLASSIFICATION

Product Sequence	Euro Class
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 O.D.	1.03 mm nom.
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Screening Material	Aluminium/Polyster foil
Screening Design	100 % Coverage
Overall Drain-Wire Material	Tinned Copper 0.10 mm
Overall Drain-Wire Construction	Solid
Outer Jacket	LSOH
Outer Jacket Thickness & Ex. Diameter	0.55±0.05 mm, 6.3±0.3 mm



# CATEGORY 5E F/UTP 4 PAIR CABLE

## ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 100 MHz
Impedance	100 Ω ±15
Coupling Attenuation	40 dB min @ 30-100 MHz
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/100m max.
Dielectric Strength	1 KV/minute
Min. Insulation Resistance	5 GΩ•km
Max. Tensile Strength - Short Term	110 N
Min. Bend Radius	40 mm
Operating Temperature range	-20 °C +65 °C

## TRANSMISSION PERFORMANCE

Cat. 5e Screened Pair Horizontal Cables\*

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PSNEXT dB	RL dB	ELFEXT dB	PSELFEXT dB
1.0	2.0	73.3	71.3	24.8	80.0	78.0
4.0	3.8	69.3	67.3	27.0	67.8	65.0
10.0	6.0	59.3	57.3	29.0	59.0	57.0
20.0	9.20	53.8	51.8	29.0	53.0	51.0
31.25	11.6	50.9	48.9	28.1	49.0	47.0
62.5	16.8	46.4	44.4	26.5	43.0	41.0
100.0	21.7	43.3	41.2	24.1	38.8	36.8

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

## ORDERING INFORMATION

Part Number	Description	Standard Length
112-1000E204X	Category 5e F/UTP 4 Pair Cable LSOH (Eca)	305 mtr

X: BK(Black), BL(Blue), GN(Green), GY(Gray), RD(Red), WH(White), YL(Yellow), PU(Purple)

## PACKING INFORMATION

Part Number	Packing Mode	N.W (kg)	G.W (kg)	Dimension (mm)
112-1000E204X	Pulley Box	11.2	11.8	380 x 380 x 210