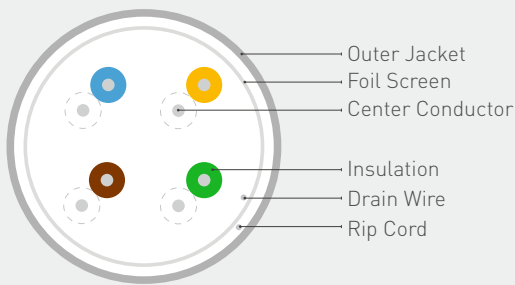
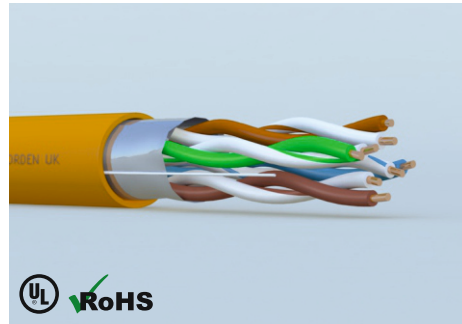


CATEGORY 5E F/UTP 4 PAIR CABLE

Norden Category 5e F/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 F/UTP cables standard packing are in 305m easy pull out boxes. F/UTP (Twisted Pair – overall Foil shield) cabling systems are installed for improved Alien Cross talk performance.

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.2 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	24 AWG
Conductor Diameter	0.51 mm
Conductor Construction	Solid
Insulation Material	High Density PE
Insulation O.D.	1.05 ± 0.05mm
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Screening Material	Aluminium/Polyster foil
Screening Design	100 % Coverage
Conductor Unit Lay-Up	Pairs
Overall Drain-Wire Material	Tinned Copper 0.40 mm
Overall Drain-Wire Construction	Solid
Outer Jacket	LSZH (Low Smoke Zero Halogen) or PVC
Outer Jacket Thickness & Ex. Diameter	0.55 ± 0.05 mm, 6.3 ± 0.3 mm
Outer Jacket Colour	Per Requirement
Marking	Per Requirement



CATEGORY 5E F/UTP 4 PAIR CABLE

ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 100 MHz
Impedance	100 $\Omega \pm 15$
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 G Ω •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	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 as per IEC 61156-5 Ed. 2

ORDERING INFORMATION

Part Number	Description	Standard Length
112-11001204X	Category 5e F/UTP 4 Pair Cable PVC	305 mtr
112-11002204X	Category 5e F/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)
112-11001204X	Pulley Box	11.2	11.8	380 x 380 x 210
112-11002204X	Pulley Box	11.5	12.1	380 x 380 x 210