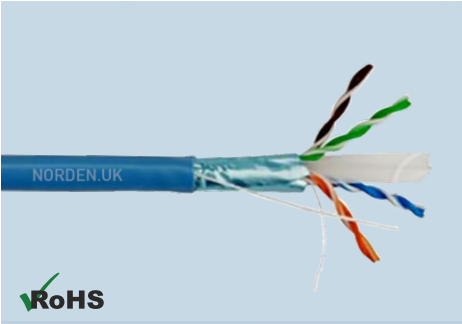


CATEGORY 6 F/UTP 4 PAIR CABLE LSZH

Norden Category 6 F/UTP cables exceed Category 6 / Class E specification. It is tested to 250 MHz frequency range and designed to support Gigabit 1000Base-T and 1000Base-Tx applications up to 100m. Extremely high pair-balance providing excellent EMC (Electromagnetic Compatibility), minimizing radiation, maximizing noise immunity, and providing high alien crosstalk performance to F/UTP (Foiled Twisted Pair) cabling systems, F/UTP (Twisted Pair – overall Foil shield) cabling systems are installed for improved Alien Crosstalk performance.



PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Solid Bare Copper
Conductor Size	23 AWG
Conductor Construction	1/0.57 (± 0.01 mm)
Insulation Material	PE
Insulation Thickness	0.26 mm
Insulation Diameter	1.15 ± 0.08 mm
Separator	PE Cross
Wrapping Tape Overlap	Polyester Tape (≥ 25%)
Drain Wire	Solid Tinned Copper
Drain Wire Size	1/0.40
Overall Shield	Aluminium / Polyester (≥25%)
Outer Jacket Material	LSZH
Outer Jacket Thickness	0.50 mm
Outer Jacket Diameter	7.50 ± 0.30 mm
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Outer Jacket Colour	Per Requirement
Marking	Per Requirement

CATEGORY 6 F/UTP 4 PAIR CABLE LSZH

ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 250 MHz	
Impedance	100 Ω ±15	
DC Resistance	93 Ω/km	
Resistance Unbalance	≤ 4 %	
Max. DC Loop Resistance	19.2 Ω/100m	
Min. Insulation Resistance	5000 MΩ-KM	
Pair to Ground Capacitance Unbalance	≤ 330 Pf/100m	
Propagation Delay Skew	≤ 45 ns/100m	
Velocity of Propagation [NVP]	69 %	
Dielectric Strength	DC-1KV/1 Min	
Before Aging	Tensile Strength	≥ 9 Mpa
	Elongation	≥ 100 %
After Aging (100°C*24h*7d)	Tensile Strength	≥ 75 Mpa
	Elongation	≥ 50 %
Min. Bend Radius	8 x OD	
Operating Temperature Range	-20 °C to +75 °C	

TRANSMISSION PERFORMANCE

Cat. 6 Un-screened Pair Horizontal Cables

Freq. MHz	Attenuation dB/100m	RL dB	NEXT dB	ELFEXT dB/100m	PSNEXT dB/100m	PSELFEXT dB/100m
1	2.0	20.0	74.3	67.8	72.3	64.8
4	3.8	23.0	65.3	55.8	63.3	52.8
8	5.3	24.5	60.8	49.7	58.8	46.7
10	6.0	25.0	59.3	47.8	57.3	44.8
16	7.6	25.0	56.2	43.7	54.2	40.7
20	8.5	25.0	54.8	41.8	52.8	38.8
25	9.5	24.3	53.3	39.8	51.3	36.8
31.25	10.7	23.6	51.9	37.9	49.9	34.9
62.5	15.4	21.5	47.4	31.9	45.4	28.9
100	19.8	20.1	44.3	27.8	42.3	24.8
200	29.0	18.0	39.8	21.8	37.8	18.8
250	32.8	17.3	38.3	19.8	36.3	16.8

*Supplied cables meet Cat. 6 min. transmission requirements as per IEC 61156-5 Ed. 2

ORDERING INFORMATION

Part Number	Description
113 - 10002204X	Category 6 F/UTP 4 Pair Cable LSZH

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