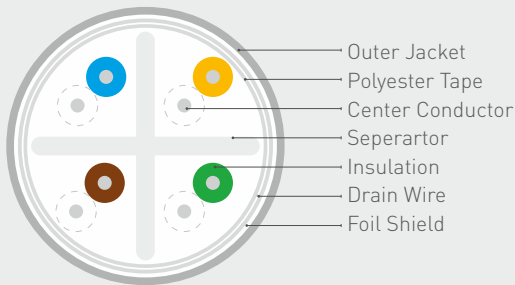
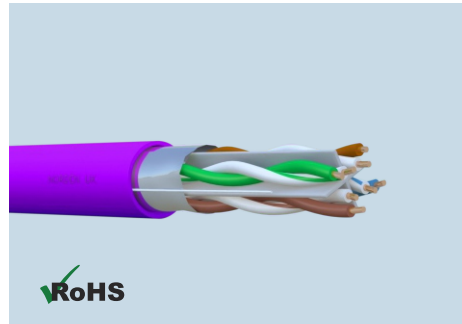


CATEGORY 6 F/UTP 4 PAIR 23 AWG CABLE E-SERIES LSZH



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 (Electro Magnetic Compatibility), minimizing radiation, maximizing noise immunity and providing high alien cross talk performance to F/UTP (Foiled Twisted Pair) cabling systems. F/UTP (Twisted Pair – overall Foil shield) cabling systems are installed for improved Alien Cross talk performance.



COMPLIANCE

ANSI/TIA-568.2-D,
ISO/IEC-11801, Class E
IEC 61156-5, EN 50288-5-1
EN 50173, EN 50575
LSZH: IEC 60332-1, IEC 60754, IEC 61034
CPR Compliance to Eca
EN 60332-1-2

PRODUCT CLASSIFICATION

Product Sequence	E-Series
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Bare Copper
Conductor Size	23 AWG
Conductor Construction	Solid
Insulation Material	PE
Insulation Thickness	0.26 mm
Insulation Diameter	1.05 ± 0.08mm
Separator	PE
Wrapping Tape Overlap	Polyester Tape , ≥25%
Drain Wire	Solid Tinned Copper (1/0.40)
Overall Shield	Aluminum/Polyester (≥25%)
Outer Jacket	LSZH
Outer Jacket Thickness & Ex. Diameter	0.50 mm , 7.3 ± 0.30mm
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Outer Jacket Colour	Per Requirement
Marking	Per Requirement



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ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 250 MHz
Impedance	100 Ω ±15
Coupling Attenuation	>55db @ 30-100 MHz ,>55-20 log10 (f/100) @100-1000 MHz
DC Resistance	93 Ω/km
Max. Resistance Unbalance	≤4%
Max. DC Loop Resistance	19.2Ω/100m
Capacitance	≤5.6 nf/100m
Capacitance Unbalance	≤330 Pf/100m
Propagation Delay Skew	≤45 ns/100m
Velocity of Propagation	69%
Dielectric Strength	DC-1KV/1 Min
Min. Insulation Resistance	5000 MΩ-KM
Tensile Strength (Before Aging)	≥9 Mpa
Tensile Strength (After Aging,100°C*24h*7d)	≥75 Mpa
Elongation (Before Aging)	≥100 %
Elongation (After Aging , 100°C*24h*7d)	≥50 %
Min. Bend Radius	8 x OD
Operating Temperature Range	-20°C to +75°C
Storage Temperature Range	-20°C to +75°C

TRANSMISSION PERFORMANCE

Freq. (MHz)	Attenuation (dB/100m)	RL (dB)	NEXT dB	ELFEXT (dB/100m)	PS NEXT (dB/100m)	PS ELFEXT (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

ORDERING INFORMATION

Part Number	Description
113-4000E204X	Category 6 F/UTP 4 Pair 23 AWG Cable E-Series, LSZH (Eca)

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