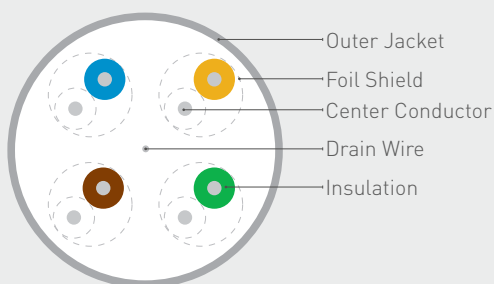
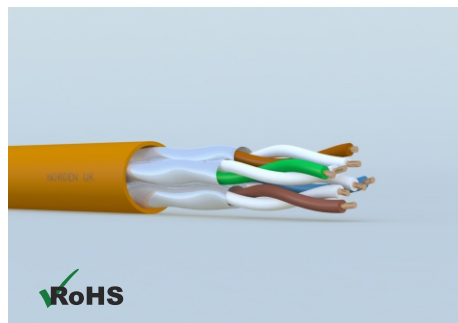


CATEGORY 6A U/FTP 23 AWG 4 PAIR CABLE E-SERIES LSZH



Norden Category 6A U/FTP cables exceed Category 6A/Class EA specification. It is tested to 500MHz frequency range and designed to support 10 Gigabyte applications to full 100m. Data integrity is one of the most essential network requirements for many corporations especially those located in environments that are prone to noise and electromagnetic interference such as industrial facilities and airport as well as those running critical systems such as military installations and hospitals. U/FTP cabling systems are installed for improved alien cross talk performance.



COMPLIANCE

IEEE 802.af, IEEE 802.3at for PoE applications
ANSI/TIA-568.2-D, ISO/IEC-11801
IEC 61156-5, EN 50288-10-1
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	SFS PE
Insulation Thickness	0.37 mm
Insulation Diameter	1.38 ± 0.08mm
Conductor Unit Identification	Solid/Stripe
Drain Wire	Solid Tinned Copper (1/0.40)
Overall Shield	Aluminum/Polyester (≥25%)
Outer Jacket	LSZH
Outer Jacket Thickness & Ex. Diameter	0.50 mm, 7.5 ± 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 - 500 MHz
Impedance	100 Ω ±15
Coupling Attenuation	>55dB@ 30-100 MHz , >55-20 log ₁₀ (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	78%
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)
4	3.8	23.0	66.3	56.0	63.3	53.0
8	5.3	24.5	61.8	49.9	58.8	46.0
10	5.9	25.0	60.3	48.0	57.3	45.0
16	7.5	25.0	57.2	43.9	54.2	40.9
20	8.4	25.0	55.8	42.0	52.8	39.0
25	9.4	24.3	54.3	40.0	51.3	37.0
31.25	10.5	23.6	52.9	38.1	49.9	35.1
62.5	15.0	21.5	48.4	32.1	45.4	29.1
100	19.1	20.1	45.3	28.0	42.3	25.0
200	27.6	18.0	40.8	22.0	37.8	19.0
250	31.1	17.3	39.3	20.0	36.3	17.0
300	34.1	17.3	38.1	18.5	35.1	15.5
500	45.3	17.3	34.8	14.0	31.8	11.0

ORDERING INFORMATION

Part Number	Description
114-4000E304X	Category 6A U/FTP 23 AWG 4 Pair Cable E-Series LSZH, [Eca]

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