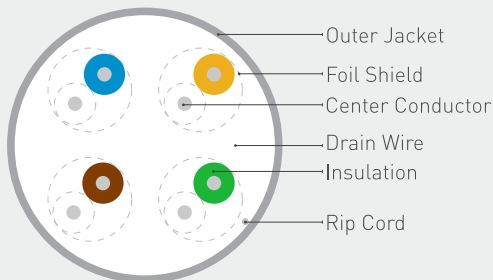
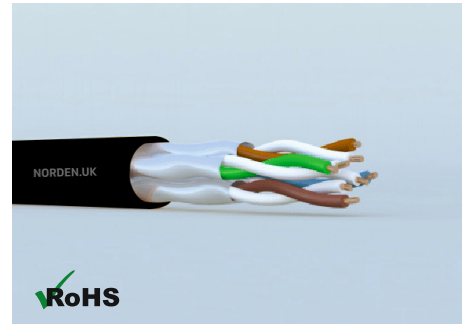


CATEGORY 6A U/FTP 23 AWG 4 PAIR EXTERNAL CABLE

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 airports, as well as those running critical systems such as military installations and hospitals. U/FTP (Foil Twisted Pair) cabling systems are installed for improved Alien Crosstalk performance.



COMPLIANCE

IEE 802.3an :2006 (10GBASE-T)
ANSI/TIA-568-C.2:2009 Category 6A
ISO/IEC-11801, 2nd Edition Class EA
IEC 61156-5:2002 Category 6A, EN 50173-1

PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Solid-Bare Copper
Conductor Size	0.560 ± 0.005mm[D], 23 AWG
Conductor Construction	Solid
Insulation Material	SFS PE
Insulation O.D.	1.33 ± 0.05 mm
Conductor Unit Identification	Solid/Stripe
Conductor Unit Lay-Up	Pairs
Total Number of Wires	8
In. Shield Material	Al/Mylar
In. Shield Design	100% Coverage
Drain-Wire	Yes
Rip cord	Yes
Outer Jacket Material	LDPE
Outer jacket thickness & Ex. Diameter	0.55±0.05 mm, 7.3±0.5 mm
Outer Jacket Colour	Black

CATEGORY 6A U/FTP 23 AWG 4 PAIR EXTERNAL CABLE

ELECTRICAL & MECHANICAL CHARACTERISTICS

Conductor Impedance	100±15(0-250MHz), 100±22 (250-500MHz)
Frequency Range	1-500MHz
Coupling Attenuation	55 dB min @ 30-100 MHz 55-20Log(f/100) @100-500 MHz
Max. DC Resistance	9.38 Ω/100m
Max. Resistance Unbalance	5.0%
Mutual Capacitance	4.3nF/100m
Capacitance Unbalance to-ground	330 pf/100m
Velocity of Propagation	78 % nom.
Propagation Delay Skew	≤ 45 ns/100m
Dielectric Strength	1.5K V/minute
Dielectric Strength to Shield	1.5kV/minute
Min. Insulation Resistance	5 GΩ•km
Tensile Strength (Mpa)	Before Aging ≥10.0 Elongation(%) ≥350 Aging Period(°C×hrs) 100°C×24h×10d After Aging Elongation(%) ≥300
Transfer Impedance	50 m/m max @ 1 MHz, 100 m/m max @ 10 MHz. 200 m/m max @ 30 MHz, 1000 m/m max @ 100 MHz.
Min. Bend Radius	8 × O.D
Operating Temperature	-20 °C to 70 °C

TRANSMISSION PERFORMANCE

Cat. 6A Screened-pair Horizontal Cables*

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PSNEXT dB	RL dB	ELFEXT dB	PSELFEXT dB	PHASE DELAY ns
1	-	74.3	72.3	20.0	67.8	64.8	570
4	3.8	65.3	63.3	23.0	55.8	52.8	552
8	5.3	60.8	58.8	24.5	49.7	46.7	547
10	5.9	59.3	57.3	25.0	47.8	44.8	545
16	7.5	56.2	54.2	25.0	43.7	40.7	543
20	8.4	54.8	52.8	25.0	41.8	38.8	542
25	9.4	53.3	51.3	24.3	39.8	36.8	541
31.25	10.5	51.9	49.9	23.6	37.9	34.9	540
62.5	15.0	47.4	45.4	21.5	31.9	28.9	539
100	19.1	44.3	42.3	20.1	27.8	24.8	538
200	27.6	39.8	37.8	18.0	21.8	18.8	537
250	31.1	38.3	36.3	17.3	19.8	16.8	536
300	34.3	37.1	35.1	16.8	18.3	15.3	536
400	40.1	35.3	33.3	15.9	15.8	12.8	536
250	45.3	33.8	31.8	15.2	13.8	10.8	536

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

ORDERING INFORMATION

Part Number	Description	Standard Length
114-2000K304X	Category 6A U/FTP 23 AWG 4 Pair External Cable -LDPE	305 mtr