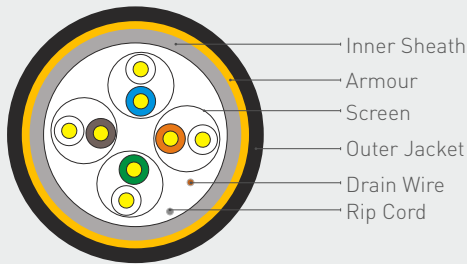
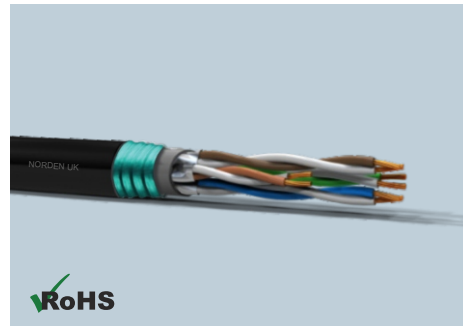


CAT 6A U/FTP DOUBLE JACKET STEEL TAPE ARMoured EXTERNAL CABLE

Norden Category 6A UTP cables exceed Category 6A / Class E specifications. It is tested to the 500 MHz frequency range and designed to support Gigabit 1000Base-T and 1000Base-Tx applications. Extremely high pair-balance providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation, maximizing noise immunity, and providing high alien cross talk performance to UTP(Unshielded Twisted Pair) cabling systems. These external cables are constructed with steel tape armouring and are ideal for industrial use and in direct sunlight.



COMPLIANCE

IEE 802.3an :2006 (10GBASE-T)
ANSI/TIA-568-2.D
ISO/IEC-11801
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	23 AWG
Conductor Construction	Solid
Insulation Material	Skin -Foam -skin Polyethylene
Screening Material	Aluminum - Polyester Tape
Drain wire	Tinned Copper
Inner Sheath Materials	LSZH
Inner Sheath Color	Multiple
Inner Sheath Thickness	0.5mm
Armored Material	ECCS Tape
Armored Material Thickness	> 0.125 mm
Outer Sheath Material	LSZH(complies RoHS)
Outer Sheath Thickness	1.1 ± 0.4 mm
Outer Sheath External O.D.	11.2 + 0.3 mm
Outer Sheath Color	Multiple



CAT 6A U/FTP DOUBLE JACKET STEEL TAPE ARMoured EXTERNAL CABLE

ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 500 MHz
Impedance	100 ±15 Ω
Coupling Attenuation	40 dB min @ 30-100 MHz 85-20Log(f/100) @100-500 MHz
DC Resistance	< 9.38Ω/100m
Mutual Capacitance	< 5.6nF/100m
Max. Resistance Unbalance	5%
Capacitance Unbalance	330pF/100m
Velocity of Propagation	67%
Propagation Delay Skew	< 45nS
Min. Bend Radius	8 x Cable Diameter
Pulling Force	11.5Kg
Max. Operating Temperature	-20° to +70°C
Max. Installation Temperature	0° to +50°C

TRANSMISSION PERFORMANCE

Electrical Characteristics meet or exceed 70 Meter TIA Cat 6A Channel Spec.

Freq. (Mhz)	Insertion Loss (dB)	NEXT (dB)	RL (dB)	PS NEXT (dB)	ACR-F (dB)	PS ACR-F (dB)
1	3.0	65.0	19.0	62.0	63.2	60.3
4.0	4.2	63.0	19.0	60.5	51.2	48.2
8.0	5.8	58.2	19.0	55.6	45.2	42.2
10.0	6.5	56.6	19.0	54.0	43.3	40.3
16.0	8.2	53.2	18.0	50.6	39.2	36.2
20.0	9.2	51.6	17.5	49.0	37.2	34.2
25.0	10.2	50.0	17	47.3	35.3	32.3
31.25	11.5	48.4	16.5	45.7	33.4	30.4
62.5	16.4	43.4	14	40.6	27.3	24.3
100	20.9	39.9	12.0	37.1	23.3	20.3
200	30.1	34.8	9.0	31.9	17.2	14.2
250	33.9	33.1	8.0	30.2	15.3	12.3
300	37.4	31.7	7.2	28.8	13.7	10.7
400	43.7	28.7	6.0	25.8	11.2	8.2
500	49.3	26.1	6.0	23.2	9.3	6.3

ORDERING INFORMATION

Part Number	Description	Standard Length
114-20822304X	Cat 6A U/FTP Double Jacket Steel Tape Armoured External Cable LSZH	305 mtr

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