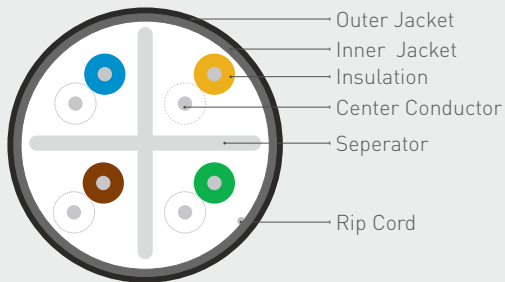
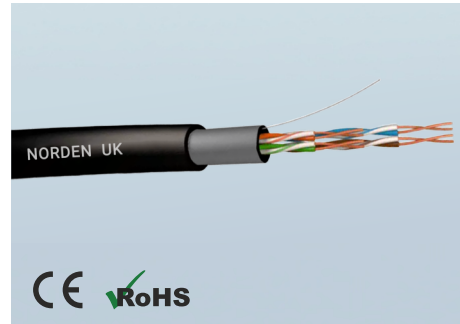


# CAT 6A U/UTP 23 AWG DOUBLE JACKET EXTERNAL CABLE PVC/PE

Norden Cat 6A U/UTP 23 AWG Double Jacket External Cable exceeds Category 6A/Class EA specification. It is tested to 500MHz frequency range and designed to support 1000Base-T and 1000Base-Tx applications to full 100m. Extremely high pair-balance providing excellent EMC (Electromagnetic Compatibility), minimizing radiation, maximizing noise immunity, and providing high alien crosstalk performance to U/UTP (Unshielded Twisted Pair) cabling systems: Cat 6A U/UTP 23 AWG Double Jacket External Cable consists of HDPE Insulated 23AWG Solid Bare Electrolytic Grade Copper Conductors, twisted 4 pair stranded over Cross Separator filler, PVC inner jacket & PE outer sheath.



## COMPLIANCE

IEEE 802.3an: 2006(10GBASE-T)  
ANSI/TIA-568.2-D Category 6A  
ISO/IEC-11801, 2nd Edition Class EA  
IEC 61156-5:2002 Category 6A ,

## PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

## MATERIAL CONSTRUCTION & DESIGN

Conductor Material:	Solid Bare Electrolytic Grade Copper
Conductor Size	23 AWG
Conductor Construction	Solid
Insulation Material	HDPE
Conductor Unit Identification	Solid/Stripe
Conductor Unit Lay-Up	Pairs
Total Number of Wires	8
Separator	Yes
Inner Jacket Material	PVC
Rip cord	Yes
Outer Jacket Material	PE
Outer jacket thickness & Ex. Diameter	7.0 ± 0.30mm
Outer Jacket Colour	Black

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## ELECTRICAL & MECHANICAL CHARACTERISTICS

Conductor Resistance @20°C	Max 93.8 Ohm/km
Resistance Unbalance	Max 5%
Mutual Capacitance	Max. 5.6 nf/100 mtr
Capacitance Unbalance Pair/Ground	Max. 330 pf/100 mtr
Propagation DeLay Skew	Max. 45 ns/100 mtr
Characteristic Impedance	100 ± 15Ω
Velocity of Propagation	69 %
Bending radius	8 X D
Temperature Range	-20°C up to +60°C

## TRANSMISSION PERFORMANCE

Cat. 6A Un-screened Pair Horizontal Cables\*

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PS NEXT dB	RL dB	ACRF (dB@100 m) min.	PS. ACRF (dB@ 100 m) min
1	2.3	65	62	19	63.3	60.3
4	4.2	63	60.5	19	51.2	48.2
8	5.8	58.2	55.6	19	45.2	42.2
10	6.5	56.6	54	19	43.3	40.3
16	8.2	53.2	50.6	18	39.2	36.2
20	9.2	51.6	49	17.5	37.2	34.2
25	10.2	50	47.3	17	35.3	32.3
100	20.9	39.9	37.1	12	23.3	20.3
200	30.1	34.8	31.9	9	17.2	14.2
250	33.9	33.1	30.2	8	15.3	12.3
300	37.4	31.7	28.8	7.2	13.7	10.7
400	43.7	28.7	25.8	6	11.2	8.2
500	49.3	26.1	23.2	6	9.3	6.3

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

## ORDERING INFORMATION

Part Number	Description	Standard Length
114-20213104X	Cat 6A U/UTP 23 AWG Double Jacket External Cable PVC/PE	305 mtr

X: BK[Black]