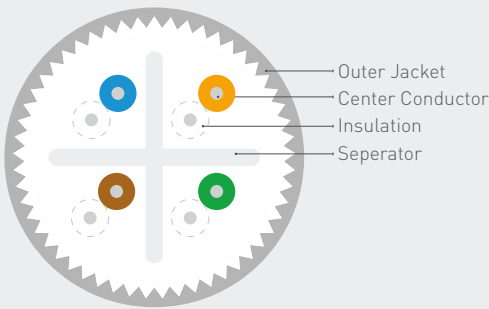
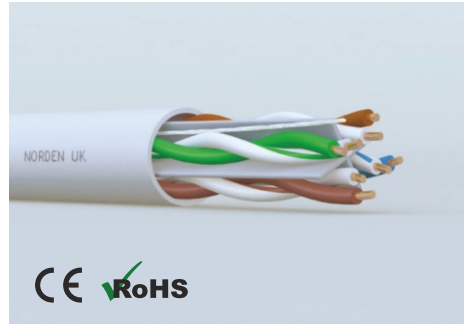


CATEGORY 6A U/UTP 23 AWG 4 PAIR CABLE CM PVC

Norden Category 6A U/UTP cables exceed Category 6A/Class EA specification. It is tested to 500MHz frequency range and designed to support 10 Gigabyte applications to full 100m. Extremely high pair-balance providing excellent EMC (Electro Magnetic Compatibility), minimizing radiation, maximizing noise immunity and providing high alien cross talk performance to U/UTP (Unshielded Twisted Pair) cabling systems.



COMPLIANCE

IEEE 802.3an :2006 (10GBASE-T)
ANSI/TIA-568.2-D:2009 Category 6A
ISO/IEC-11801, 2nd Edition Class EA
IEC 61156-5:2002 Category 6A
EN 50288-11-1, EN 50173, EN 50575

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
Separator	PE
Insulation Material	PE
Insulation O.D.	1.01 ± 0.08mm
Colour Code	Per TIA/EIA 568-D
Conductor Unit Lay-Up	Pairs
Total Number of Wires	8
Outer Jacket Material	CM PVC
Outer Jacket Thickness & Ex. Diameter	0.65 ± 0.05, 7.30 ± 0.30mm
Outer Jacket Colour	Per Requirement
Rip Cord	No



CATEGORY 6A U/UTP 23 AWG 4 PAIR CABLE CM PVC

ELECTRICAL & MECHANICAL CHARACTERISTICS

Pulling Force	≥110N
Delay Skew	45 ns/100m max.
Dielectric Strength	DC-1KV/1Min
Characteristic Impedance (@100MHz)	100 ± 5Ω
DC Resistance	93 Ω/Km
Resistance Unbalance Between Pair (%)	≤4
DC Loop Resistance	19.2 Ω/100m
Cap. Unbalance [Wire to Ground]	≤330 PF/100m
Velocity of Propagation [NVP]	69%
Insulation Resistance	5000 MΩ-KM
Transfer Impedance	IEC 61156-5 Type 2
Short Term Bend Radius	≥4 x OD
Long Term Bend Radius	≥8 x OD
Operating Temperature Range	-20°C-75°C

TRANSMISSION PERFORMANCE

Cat.6A Un-Screened Pair Horizontal Cables*

Frequency (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

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

ORDERING INFORMATION

Part Number	Description	Standard Length
114-42001104X	Category 6A U/UTP 23 AWG 4 Pair Cable CM PVC E Series	Reel/305m

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