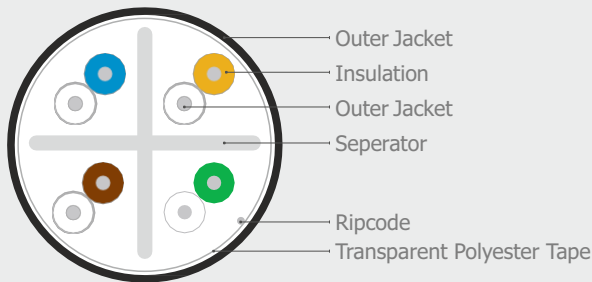
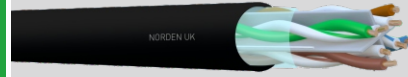


# CATEGORY 6A U/UTP 4 PAIR EXTERNAL CABLE

Norden Category 6A External U/UTP cables exceed Category 6A/Class E specification. It is tested to 500MHz frequency range and designed to support 10 Gigabit applications to full 100m. Norden Category 6A external U/UTP cables comply with industrial standards. 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 Category 6A  
ISO/IEC -11801, 2nd Edition Class EA  
IEC 61156 -5:2002 Category 6A ,  
LSZH: IEC 60332-1, IEC 60754, IEC 61034

## PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

## MATERIAL CONSTRUCTION & DESIGN

Conductor Material:	Bare Copper
Conductor Size	23 AWG
Conductor Construction	Solid
Insulation Material	High Density PE
Insulation Diameter	1.02±0.03mm
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Rip Cord	Yes
Overall Drain-Wire Material	N/A
Overall Drain-Wire Size	N/A
Overall Drain-Wire Construction	N/A
Transparent Polyester Tape	Yes
Outer Jacket	PE
Outer Jacket Thickness & Ex. Diameter	0.6±0.05mm, 6.9±0.5mm
Outer Jacket Colour	Black or Per Requirement
Marking	Per Requirement



# CATEGORY 6A U/UTP 4 PAIR EXTERNAL CABLE

## ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 500 MHz
Impedance	100 +/-15
Coupling Attenuation	40 dB min @ 30-100 MHz 85-20Log(f/100)@100-500 MHz
DC Resistance	20 °C (100/m)95/km norm.
Max. Resistance Unbalance	5% max
Capacitance	45pF/m nom.
Capacitance Unbalance	1500 pF/km max.
Propagation Delay Skew	35 ns/100mmax.
Velocity of Propagation	67%
Dielectric Strength	1.5KV/minute
Min. Insulation Resistance	5 G•km
Max.Tensile Strength - Short Term	110N
Min. Bend Radius	8 x ODmm
Max. Operating Temperature	+75°C
Min. Operating Temperature	-10 °C

## TRANSMISSION PERFORMANCE

Cat. 6A Screened-pair Horizontal Cables\*

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PS dB	NEXT	RL dB	ELFEXT dB	PSELFEXT dB
1	2.1	74.3	72.3		20.0	67.8	64.8
4	3.8	65.3	63.3		23.0	55.8	52.8
10	5.9	59.3	57.3		25.0	47.8	44.8
20	8.4	54.8	52.8		25.0	41.8	38.8
31.25	10.5	51.9	49.9		23.6	37.9	34.9
100	19.1	44.3	42.3		20.1	27.8	24.8
200	27.6	39.8	37.8		18.0	21.8	18.8
250	31.1	38.3	36.3		17.3	19.8	16.8
300	34.3	37.1	35.1		16.8	18.3	15.3
500	45.3	33.8	31.8		15.2	13.8	10.8

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

## ORDERING INFORMATION

Part Number	Description	Standard Length
114-20003104X	Category 6a U/UTP 4 Pair External Cable PE	305 mtr
114-20002104X	Category 6a U/UTP 4 Pair External Cable LSZH	305 mtr

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

## PACKING INFORMATION

Part Number	Packing Mode	N.W (kg)	G.W (kg)	Dimension (mm)
114-20003104X	Plywood Reel	26.6	27.4	380 x 380 x 260
114-20002104X	Plywood Reel	26.0	27.1	380 x 380 x 260