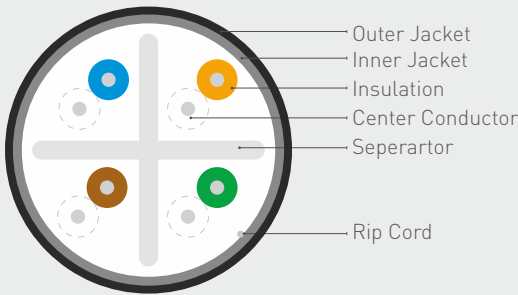
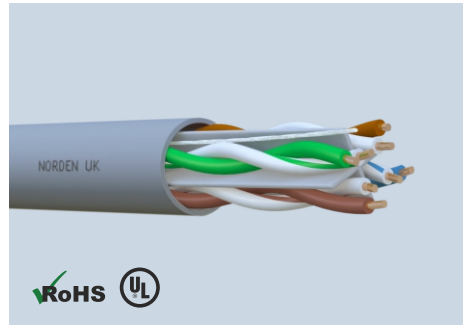


# CAT 6 U/UTP 4 PAIR DOUBLE JACKET FR PVC CABLE

Norden Category 6 U/UTP cables exceed Category 6/ClassE specification. It is tested to 250MHz frequency range and designed to support Gigabit 1000Base-T and 1000Base-Tx 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.

The cable consist of PE insulated 23 AWG Solid Bare Annealed Copper conductors. 4 pair stranded over PE cross separator. Ripcord. FR PVC inner sheath and FR PVC outer sheath



## COMPLIANCE

IEEE 802.af, IEEE 802.3at for PoE applications  
ANSI/TIA-568.2-D Category 6  
ISO/IEC-11801, Class E  
IEC 61156-5: Category 6

## PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

## MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Annealed Bare Copper
Conductor Size	23 AWG
Conductor Construction	Solid
Insulation Material	High Density PE
Insulation Diameter	1.0 ± 0.05mm
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Total Number of Wires	8
Rip Cord	Yes
Inner Jacket	FRPVC
Outer Jacket	FRPVC
Outer Jacket Thickness & Ex. Diameter	0.50 mm, 7.2 ± 0.5 mm
Outer Jacket Colour	Per Requirement
Marking	Per Requirement

# CAT 6 U/UTP 4 PAIR DOUBLE JACKET FR PVC CABLE

## ELECTRICAL & MECHANICAL CHARACTERISTICS

Conductor DC Resistance @20°C	Max. 9.38Ω/100M
Conductor Resistance Unbalance	Max. 5 %
Mutual Capacitance @1KHZ	Max. 5.6 nF/100M
Insulation Resistance	Min. 5000 MΩ.km
Dielectric Strength	1.7KV RMS for 2 sec.
Capacitance Earth Unbalance	Max. 330 pF/100M
Propagation Delay @ 1,10,100 &250 MHz	Max. 570, 545,538 & 536ns/100 m
Propagation DeLay Skew 1 – 250 MHz	Max. 45 ns/100 m
Nominal velocity of propagation	69 %
Bending radius	8 x Overall diameter (min.)
Breaking strength	400 N (max.)
Rated Voltage	150VAC
Characteristic Impedance (1-250 MHz)	100 ± 15Ω
Temperature Range	-20°C up to +70°C

## TRANSMISSION PERFORMANCE

Cat. 6 Un-screened Pair Horizontal Cables\*

Freq. MHz	Attenuation dB/100m	NEXT dB	PSNEXT dB	ELFEXT dB	PSELFEXT dB	RL dB	TCL dB	ELTCL dB
	Max.	Min.	Min.	Min.	Min.	Min.	Min.	Min.
1.0	2.1	74.3	72.3	67.8	64.8	20.0	40.0	35.0
4.0	4.1	65.3	63.3	55.8	52.8	23.0	40.0	23.0
8.0	5.8	60.8	58.8	49.7	46.7	24.5	40.0	16.9
10.0	6.5	59.3	57.3	47.8	44.8	25.0	40.0	15.0
16.0	8.2	56.2	54.2	43.7	40.7	25.0	38.0	10.9
20.0	9.3	54.8	52.8	41.8	38.8	25.0	37.0	9.0
25.0	10.4	53.3	51.3	39.8	36.8	24.3	36.0	7.0
31.25	11.7	51.9	49.9	37.9	34.9	23.6	35.1	5.5 @ 30MHz
62.5	17.0	47.4	45.4	31.9	28.9	21.5	32.0	
100	22.0	44.3	42.3	27.8	24.8	20.1	30.0	
200	32.4	39.8	37.8	21.8	18.8	18.0	27.0	
250	36.9	38.3	36.3	19.8	16.8	17.3	26.0	

## ORDERING INFORMATION

Part Number	Description	Standard Length
113-10211104X	Cat 6 U/UTP 4 Pair Double Jacket FR PVC Cable	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)
113-10211104X	Plywood Reel/Ctn	19.1	20.0	380 x 380 x 260