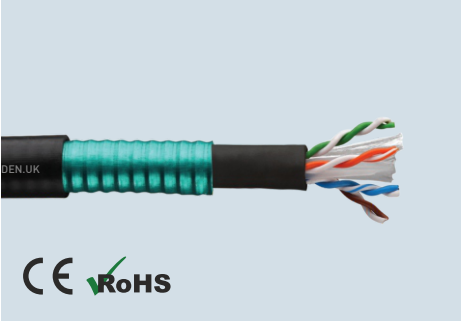


# CAT 6 U/UTP DOUBLE JACKET STEEL TAPE ARMORED CABLE

Norden Category 6 U/UTP armored cables exceed Category 6 /Class E specification. It is tested to 250MHz frequency range and designed to support 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 U/UTP (Unshielded Twisted Pair) cabling systems. Cat 6 UTP armored Cable Consists of PE Insulated 23AWG Solid Bare Annealed Copper Conductors, twisted 4 pair stranded over Cross PE Separator filler, ECCS tape Armour, black Inner and Outer LSZH Sheath.



- Outer Jacket
- Center Conductor
- Insulation
- Separator
- Armour
- Inner jacket

### COMPLIANCE

IEEE 802.3an :2006 (10GBASE-T)  
ANSI/TIA-568.2-D Category 6  
ISO/IEC-11801, 2nd Edition Class E  
IEC 61156-5:2002 Category 6  
LSZH: IEC 60332-1, IEC 60754, IEC 61034

## MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Annealed Bare Copper
Conductor Size	0.57 mm, 23 AWG
Conductor Construction	Solid
Insulation Material	HDPE
Insulation thickness & O.D	0.25mm+/-0.03mm & 1.05 mm nom
Conductor Unit Identification	Solid/Stripe
Colour Code	Per TIA/EIA 568-B
Conductor Unit Lay-Up	Pairs
Total Number of Wires	8
Separator	PE
Inner Jacket Material	LSZH
Armour	ECCS Tape
Armour Thickness	0.125mm
Outer Jacket Material	LSZH
Outer jacket thickness & Ex. Diameter	1.2±0.2 mm & 10.7±0.4 mm
Outer Jacket Colour	Per requirement

# CAT 6 U/UTP DOUBLE JACKET STEEL TAPE ARMORED CABLE

## ELECTRICAL & MECHANICAL CHARACTERISTICS

Conductor Resistance @20°C	Max. 93.8 Ω/KM
Conductor Resistance Unbalance	Max. 5 %
Mutual Capacitance @1KHZ	Max. 5.6 nF/100m
Insulation Resistance	min. 5000 MΩ.km
High voltage	2.5 Kv DC/1 min
Capacitance Earth Unbalance	Max. 3300 pF/km
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
Characteristic Impedance (1-250 MHz)	100 ± 15Ω
Bending radius	20x Diameter(min.)
Pulling Force	11.5 kgs(max.)
Temperature Range	-20°C up to +60°C

## TRANSMISSION PERFORMANCE

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

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PS NEXT dB	RL dB	ELFEXT dB	PSELFEXT dB
1	2.1	65.0	62.0	19.0	63.3	60.3
4	4.0	63.0	60.5	19.0	51.2	48.2
8	5.7	58.2	55.6	19.0	45.2	42.2
10	6.3	56.6	54.0	19.0	43.3	40.3
16	8.0	53.2	50.6	18.0	39.2	36.2
20	9.0	51.6	49.0	17.5	37.2	34.2
25	10.1	50.0	47.3	17.0	35.3	32.3
31.25	11.4	48.4	45.7	16.5	33.4	30.4
62.5	16.5	43.4	40.6	14.0	27.3	24.3
100	21.3	39.9	37.1	12.0	23.3	20.3
200	31.5	34.8	31.9	9.8	17.2	14.2
250	35.9	33.1	30.2	8.0	15.3	12.3

## ORDERING INFORMATION

Part Number	Description	Standard Length
113-20822104X	Cat 6 U/UTP Double jacket Steel Tape Armoured 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)
113-20822104X	Plywood Reel/Ctn	22.2	24.3	340 x 340 x 340