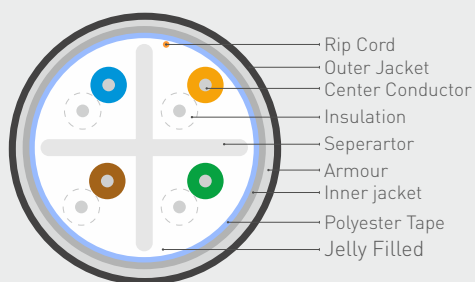
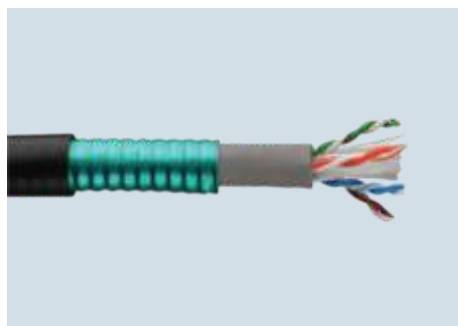


# CAT 6A U/UTP DOUBLE JACKET STEEL TAPE ARMoured WITH JELLY FILLED EXTERNAL CABLE

Norden Category 6A U/UTP Double Jacket Steel Tape Armoured with Jelly Filled External Cables exceed Category 6A/Class EA specification. It is tested to 500MHz frequency range and designed to support 1000Base-T and 1000Base-TX applications. 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 Double jacket Steel Tape Armoured with Jelly Filled External Cable consists of PE insulated PE Insulated 23AWG Solid Bare Electrolytic Grade Copper Conductors, twisted 4 pair stranded over Cross Separator filler, Jelly filled compound, polyester Tape wrapped around the insulated pairs for moisture absorption, ECCS Tape Armour, black inner & outer PE sheath.



## COMPLIANCE

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

## MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Solid Bare Electrolytic Grade Copper
Conductor Size	0.57 ± 0.015mm, 23 AWG
Insulation Material	HDPE
Conductor Unit Identification	Solid/Stripe
Conductor Unit Lay-Up	Pairs
Total Number of Wires	8
Separator	HDPE
Inner Jacket Material	PVC
Filling Compound	Jelly Filled
Polyester Tape	Yes
Armour	ECCS Armoured
Armour Thickness	>0.125mm
Rip cord	Yes
Outer Jacket Material	PE
Outer jacket thickness & Ex. Diameter	10.70 ± 0.50mm
Outer Jacket Colour	Black

# CAT 6A U/UTP DOUBLE JACKET STEEL TAPE ARMoured WITH JELLY FILLED EXTERNAL CABLE

## ELECTRICAL & MECHANICAL CHARACTERISTICS

Conductor Resistance @20°C	Max 93.8
Conductor Resistance Unbalance	Max. 5 %
Mutual Capacitance @1KHZ	Max. 5.6 nf/100 mtr
Capacitance Unbalance Pair/Ground	Max. 330 pf/100 mtr
Propagation DeLay Skew 1 – 250 Mhz	Max. 45 ns/100 m
Characteristic Impedance (1-250 Mhz)	100 ± 15Ω
Velocity of Propagation	69 %
Bending radius	> 8X D
Pulling Force	11.5Kg (Max)
Temperature Range	-15°C up to +70°C

## TRANSMISSION PERFORMANCE

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

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB	PS NEXT dB	RL dB	ACR-F dB (Min.)	PS ACR-F (dB@ 100Mn )
1	2.3	65	62.0	19.0	63.3	60.3
4	4.2	63	60.5	19.0	51.2	48.2
8	5.8	58.2	55.6	19.0	45.2	42.2
10	6.5	56.6	54.0	19.0	43.3	40.3
16	8.2	53.2	50.6	18.0	39.2	36.2
20	9.2	51.6	49.0	17.5	37.2	34.2
25	10.2	50	47.3	17.0	35.3	32.3
100	20.9	39.9	37.1	12.0	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

## ORDERING INFORMATION

Part Number	Description	Standard Length
114-20J13104X	Cat 6A U/UTP Double Jacket Steel Tape Armoured with Jelly Filled External Cable PVC/PE	305 mtr

X:BK(Black)