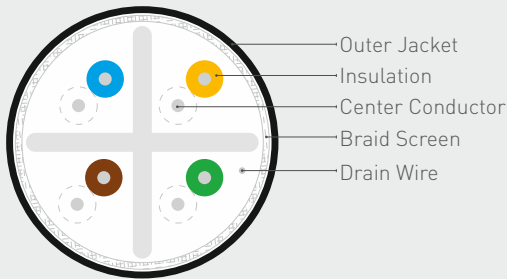
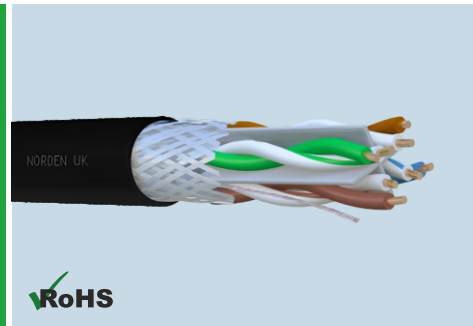


# CATEGORY 6 S/UTP 23AWG 4 PAIR CABLE

Norden Category 6 S/UTP cables exceed Category 6 / Class E requirements. They are tested up to 250 MHz and are designed to support Gigabit Ethernet applications, including 1000Base-T and 1000Base-TX, over a channel length of up to 100 m. The cables offer excellent pair balance, ensuring superior EMC (Electromagnetic Compatibility), reduced emissions, and improved noise immunity. The overall braid screen provides effective protection against external interference, ensuring stable transmission performance and minimizing crosstalk. S/UTP cabling systems are ideal for environments that require additional protection against external noise, while not using individual pair shielding.



## 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  
 LSZH: IEC 60332-1, IEC 60754, IEC 61034

## PRODUCT CLASSIFICATION

Product Sequence	Premium
Product Type	Twisted Pair Cable

## MATERIAL CONSTRUCTION & DESIGN

Conductor Material	Solid Bare Electrolytic Grade Copper
Conductor Size	23AWG
Conductor Construction	Solid
Insulation Material	HDPE
Insulation Diameter	1.08 ± 0.05mm
Conductor Unit Identification	Solid/Stripe
Rip Cord	No
Drain Wire	Yes
Colour Code	Per TIA/EIA 568-B
Conductor Unit lay-Up	Pairs
Overall Shield Design	Braid
Overall Shield Material	Annealed Tinned Copper
Braid Coverage	>38%
Total Number of Wires	8
Outer Jacket	LSZH
Outer Jacket Thickness & Ex. Diameter	0.6mm, 7.0 ± 0.30mm
Outer Jacket Colour	Per Requirement
Marking	Per Requirement



# CATEGORY 6 S/UTP 23AWG 4 PAIR CABLE

## ELECTRICAL & MECHANICAL CHARACTERISTICS

Frequency Range	1 - 250 Mhz
Impedance	100 ± 15%
DC Resistance	93.8Ω/km
Max. Resistance Unbalance	5%
Capacitance	5.6 nF/100m max.
Capacitance Unbalance	330 pf/100m Max.
Worst Case Cable Skew	45 ns/100m max.
Propagation Delay Skew	45 ns/100m max.
Velocity of Propagation	69 %
Dielectric Strength	1KV/3 Sec.
Min. Insulation Resistance	5 GΩ•km
Max. Tensile Strength	100N
Min. Bend Radius	8XOD
Operating Temperature Range	-20 to +75°C

## TRANSMISSION PERFORMANCE

Cat. 6 screened Pair Horizontal Cables\*

Freq. MHz	Attenuation dB/100m @ 20°C	NEXT dB min.	PSNEXT dB min.	ACRF (dB@100 m) min.	PS.ACRF (dB@100 m) min	Return Loss (dB/100m)
1	2.1	65	62	63.3	60.3	19
4	4	63	60.5	51.2	48.2	19
8	5.7	58.2	55.6	45.2	42.2	19
10	6.3	56.6	54	43.3	40.3	19
16	8	53.2	50.6	39.2	36.2	18
20	9	51.6	49	37.2	34.2	17.5
25	10.1	50	47.3	35.3	32.3	17
31.25	11.4	48.4	45.7	33.4	30.4	16.5
62.5	16.5	43.4	40.6	27.3	24.3	14
100	21.3	39.9	37.1	23.3	20.3	12
200	31.5	34.8	31.9	17.2	14.2	9
250	35.9	33.1	30.2	15.3	12.3	8

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

## ORDERING INFORMATION

Part Number	Description	Standard Length
113-10002904X	Category 6 S/UTP 23AWG 4 Pair Cable LSZH	305 m

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