



# CAT 6A UTP CABLE LSZH SHEATH

108-91011

Phone  
+33 75 864 2169

Email  
info@angnetworks.com

Log 202, 5rue Albert Thomas, 38100  
Grenoble, France.



## Overview

- Category: CAT. 6A
- Sheath Printing: TBD
- Construction Type: UTP (Unshielded Twisted Pair)
- Designed to reduce EMI/RFI noise in high-speed Ethernet networks

## Industry Standard

- ISO/IEC11801
- TIA-568-C.2

## Applications

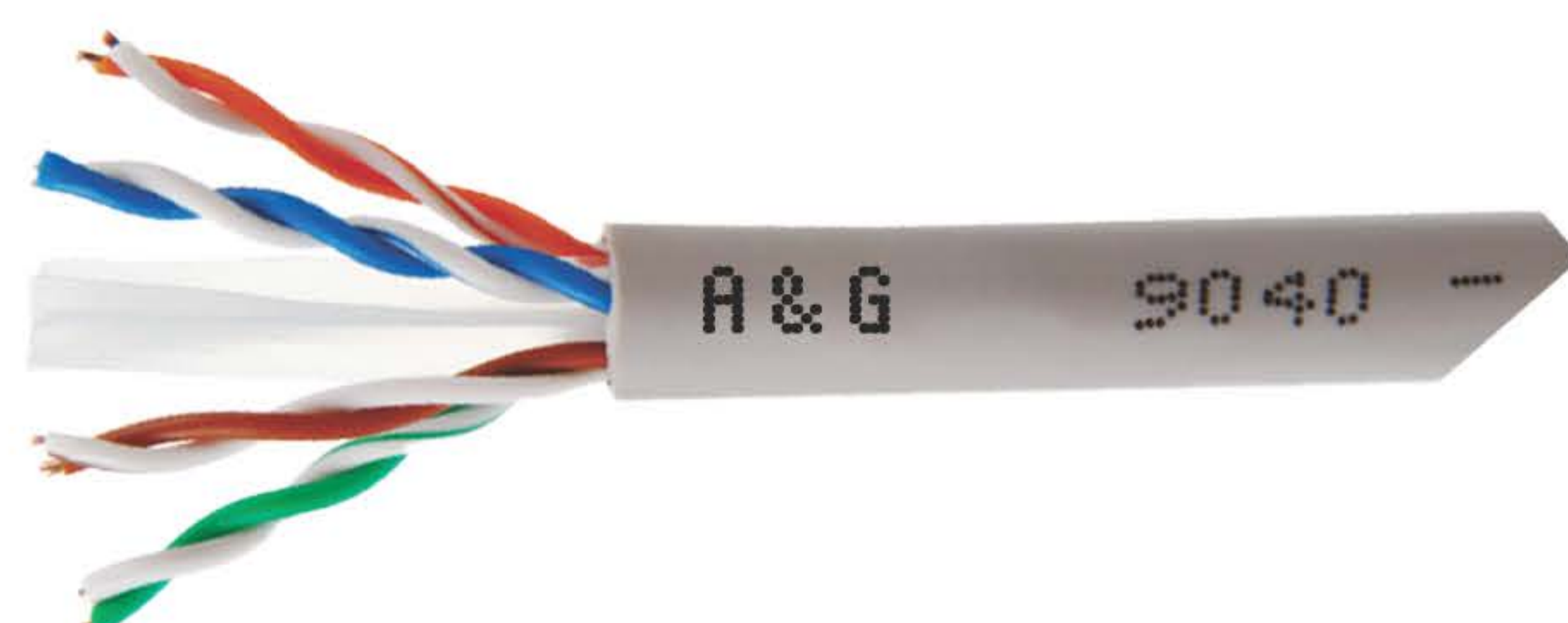
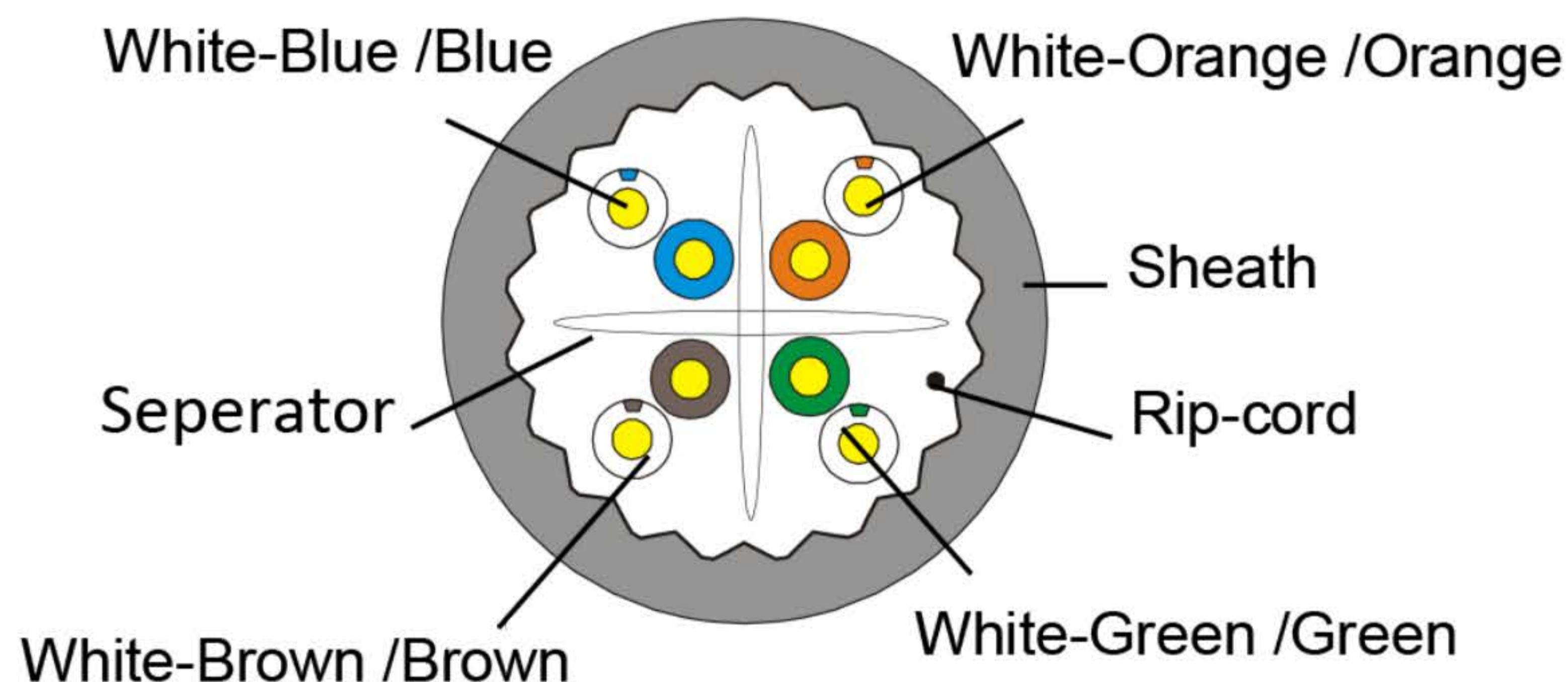
- Horizontal Cabling Above Suspended Ceilings
- Horizontal Cabling Below Raised Flooring
- Ethernet Network Cabling – EIA568

## Ordering Information

Part Number	Description
108-91011	CAT 6A UTP CABLE LSZH SHEATH

## General Information

- Conductor Material: Solid Bare Copper
- Nominal Outer Diameter: 0.565mm (+0.005, -0.005)
- Insulation Material: HDPE
- Sheath Thickness: 0.70mm ± 0.05mm (Average)
- External Diameter: 7.1mm ± 0.4mm
- Surface: Clean, Frap, Satiation
- Material: LSZH (complies RoHS)
- Surface Printing: Letter Height: 3.0mm ± 0.3mm
- Surface Printing Color: Black
- Print Error & Space: ≤ ±0.5%, 1m
- Core Color:
  1. White-Blue/Blue
  2. White-Orange/Orange
  3. White-Green/Green
  4. White-Brown/Brown
- Packing: Wooden Tray & Carton
- Carton Dimension: According to requirements
- Packing Length: 305 ± 1.5m
- Rip-cord: Yes
- Drainwire: No



# PRODUCT TECHNICAL SPECIFICATION | CAT 6A UTP CABLE LSZH SHEATH

## Product Electrical Characteristics:

- Impedance ( $\Omega$ ):  $100\Omega \pm 5\Omega$
- Delay Skew (ns/100m):  $\leq 45$
- DC Resistance ( $\Omega/100m$ ): max 9.38
- DC Conductor Resistance Unbalance (%): max 5.0

## Sheath Physical Properties:

- Before Aging: Tensile Strength (MPa):  $\geq 10.0$
- Before Aging: Elongation (%):  $\geq 125$
- Aging Period:  $100^\circ\text{C} \times 24\text{h} \times 7\text{d}$
- After Aging: Tensile Strength (MPa):  $\geq 8.0$
- After Aging: Elongation (%):  $\geq 100$
- Cold Bend:  $(-20 \pm 2^\circ\text{C} \times 4\text{h}) 8 \times \text{Cable O.D}$ , No visible cracks
- Installation Temperature:  $0^\circ\text{C}$  to  $+50^\circ\text{C}$
- Operating Temperature:  $-20^\circ\text{C}$  to  $+60^\circ\text{C}$

## Technical Performance (100m)

Frequency (MHz)	RL ( $\geq\text{dB}$ )	Attenuation ( $\leq\text{dB}$ )	NEXT ( $\geq\text{dB}$ )	Delay ( $\leq\text{ns}$ )
1.0	20.0	2.1	74.3	570.0
4.0	23.0	3.8	65.3	552.0
8.0	24.5	5.3	60.8	546.7
10.0	25.0	5.9	59.3	545.4
16.0	25.0	7.5	56.2	543.0
20.0	25.0	8.4	54.8	542.1
25.0	24.3	9.4	53.3	541.2
31.25	23.6	10.5	51.9	540.4
62.5	21.5	15.0	47.7	538.6
100	20.1	19.1	44.3	537.6
200	18.0	27.6	39.8	536.5
250	17.3	31.1	38.3	536.3
300	16.8	34.3	37.1	536.1
500	15.2	45.3	33.8	535.6

Frequency (MHz)	PSNEXT (db) $\geq$	ELFEXT (dB) $\geq$	PSELFEXT (dB) $\geq$
1.0	72.3	67.8	64.8
4.0	63.3	55.8	52.8
8.0	58.8	49.7	46.7
10.0	57.3	47.8	44.8
16.0	54.4	43.7	40.7
20.0	52.8	37.8	38.8
25.0	41.3	39.8	36.8
31.25	49.9	37.9	34.9
62.5	45.4	31.9	28.9
100	42.3	27.8	24.8
200	37.8	21.8	18.8
250	36.3	19.8	16.8
300	35.1	18.3	15.3
500	31.8	13.8	10.8

### HEADQUARTERS



A&G Technologies CO., Limited,  
Log 202, 5rue Albert Thomas, 38100  
Grenoble, France.

+33 75 864 2169

### REGIONAL OFFICE



A&G Technologies (HK) CO., Limited,  
Room 803, Chevalier House, 45-51 Chatham Road  
South, Tsim Sha Tsui, Kowloon, Hong Kong.

+852 5420 8788

### CONNECT THE FUTURE

✉ info@angnetworks.com



www.angnetworks.com