



# CAT 6 UTP CABLE 23AWG

108-61001

Phone  
+33 75 864 2169

Email  
info@angnetworks.com

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



## Overview

- Sheath Printing: A&GCAT.6U/UTPSOLID23AWG×4PC-M(UL)E525067AG01ETLVERIFIEDtoANSI/TIA-568.2-D
- Category: U/UTP CAT6-4P-PVC-CM
- Suitable for structured cabling systems in commercial and residential environments.

## Industry Standard

- ISO/IEC 11801
- ANSI/TIA-568.2-D
- IEC 61156-5
- EN 50288-6-1
- EN 60332-1-2
- EN 13501-6:2014
- IEEE 802.3bt level3&Level4

## Applications

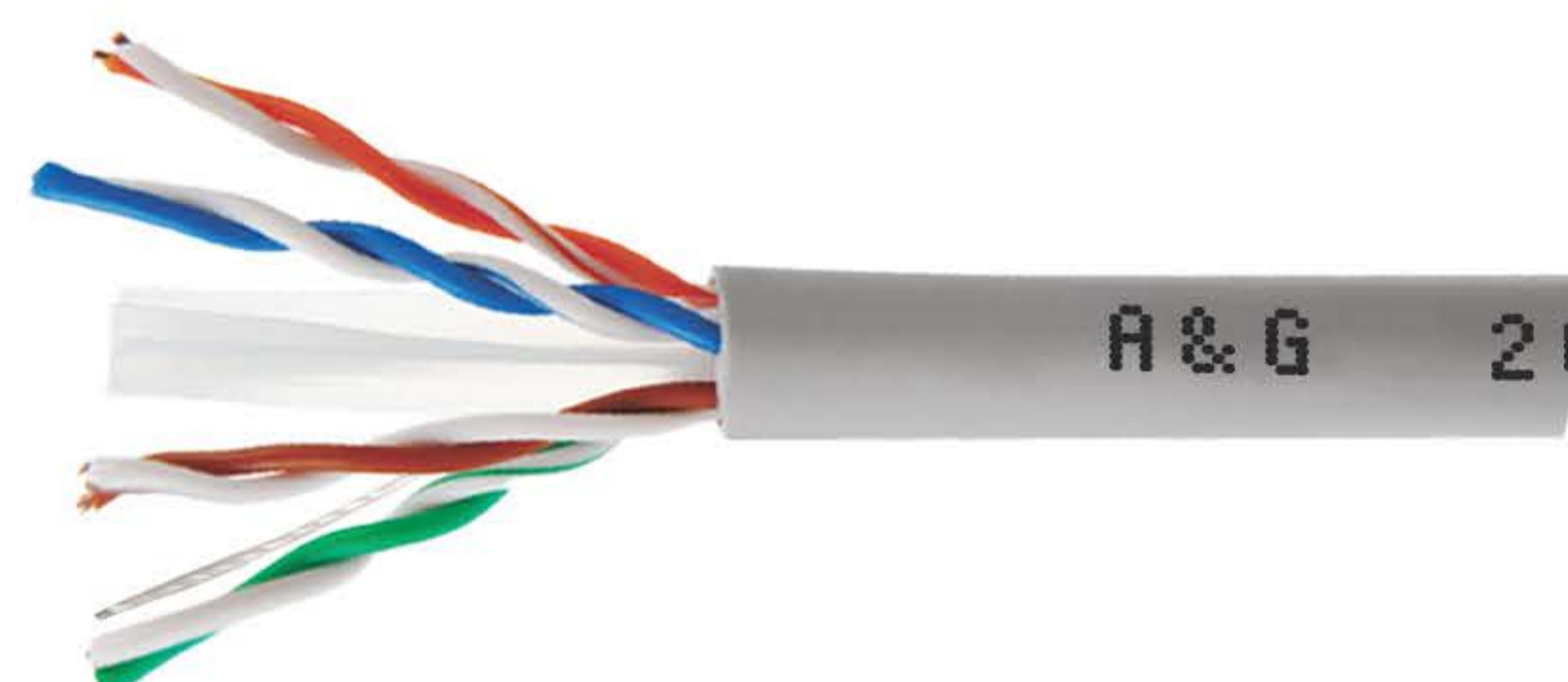
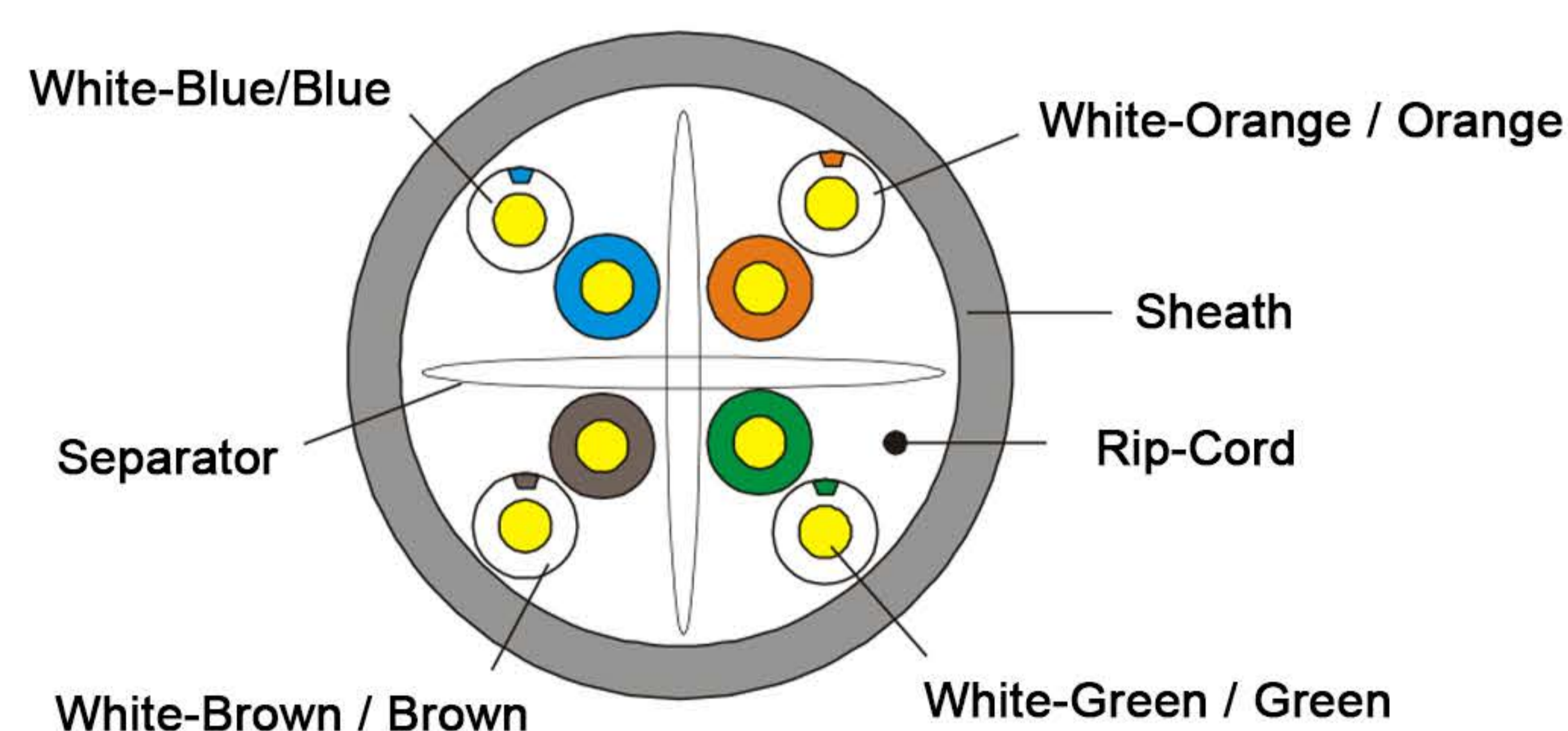
- 10/100/1000Base T
- Telecommunications
- LAN
- Premise wiring

## Ordering Information

Part Number	Description
108-61001	CAT6 U/UTP CABLE-GREY 305

## General Information

- Conductor Material: SOLID-BareCopper
- Conductor Diameter (Nominal): 0.550mm
- Insulation Material: HDPE
- Insulation Diameter: 0.98±0.05mm
- Sheath Material: PVC (complies RoHS), CM
- Sheath Thickness: 0.55±0.05mm
- External Diameter: 6.1±0.4mm
- Surface: Clean, Frap, Satiation
- Surface Printing: Letter height 3.0±0.3mm, 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, Packing length (305+1.5)m
- Rip-cord: Yes
- Drain wire: No





# PRODUCT TECHNICAL SPECIFICATION | CAT 6 UTP CABLE 23AWG

## Product Electrical Characteristics:

- Impedance:  $100 \pm 15\% \Omega$
- Delay Skew:  $\leq 45$  ns/100m
- DC Resistance: max 9.38  $\Omega$ /100m
- DC Conductor Resistance Unbalance: max 3.0% (20°C)
- Mutual Capacitance: Max. 5600pF/100m at 1kHz
- Pair to Ground Capacitance Unbalanced: Max. 1600pF/km at 1kHz

## Sheath Physical Properties:

- Before Aging: Tensile Strength  $\geq 13.5$  Mpa, Elongation  $\geq 150\%$
- After Aging (100°Cx24hx7d): Tensile Strength  $\geq 12.5$  Mpa, Elongation  $\geq 125\%$
- Cold Bend (-20 $\pm$ 2°Cx4h): No visible cracks, 8xCable O.D.
- Installation Temperature: 0°C to +50°C
- Operating Temperature: -20°C to +60°C

## Technical Performance (100m)

Frequency (MHz)	RL ( $\geq$ dB)	Attenuation ( $\leq$ dB)	NEXT ( $\geq$ dB)	Delay ( $\leq$ ns)
1.0	20.0	2.03	74.3	570.00
4.0	23.0	3.78	65.3	552.00
8.0	24.5	5.32	60.8	546.73
10.0	25.0	5.95	59.3	545.38
16.0	25.0	7.55	56.2	543.00
20.0	25.0	8.47	54.8	542.05
25.0	24.3	9.51	53.3	541.20
31.25	23.6	10.67	51.9	540.44
62.5	21.5	15.38	47.7	538.55
100	20.1	19.80	44.3	537.60
200	18.0	28.98	39.8	536.54
250	17.3	32.85	38.3	536.27

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

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

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