

CAT 6 UTP CABLE 24AWG

108-61007

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Overview

- Category: U/UTP CAT6-4P-PVC-CM
- This CAT6 UTP cable is designed for high-speed data transmission and is suitable for various networking applications.

Industry Standard

- ISO/IEC 11801
- ANSI/TIA-568.2-D
- IEC 61156-5, IEC 6075402
- EN 50288-6-1
- IEC 61034-1, IEC 61034-2
- EN 60754-1, EN 60754-2
- EN 60332-1-2
- EN 50173-1, EN 50173-4
- EN 13501-6:2014
- IEEE 802.3bt Level 3 & Level 4

Applications

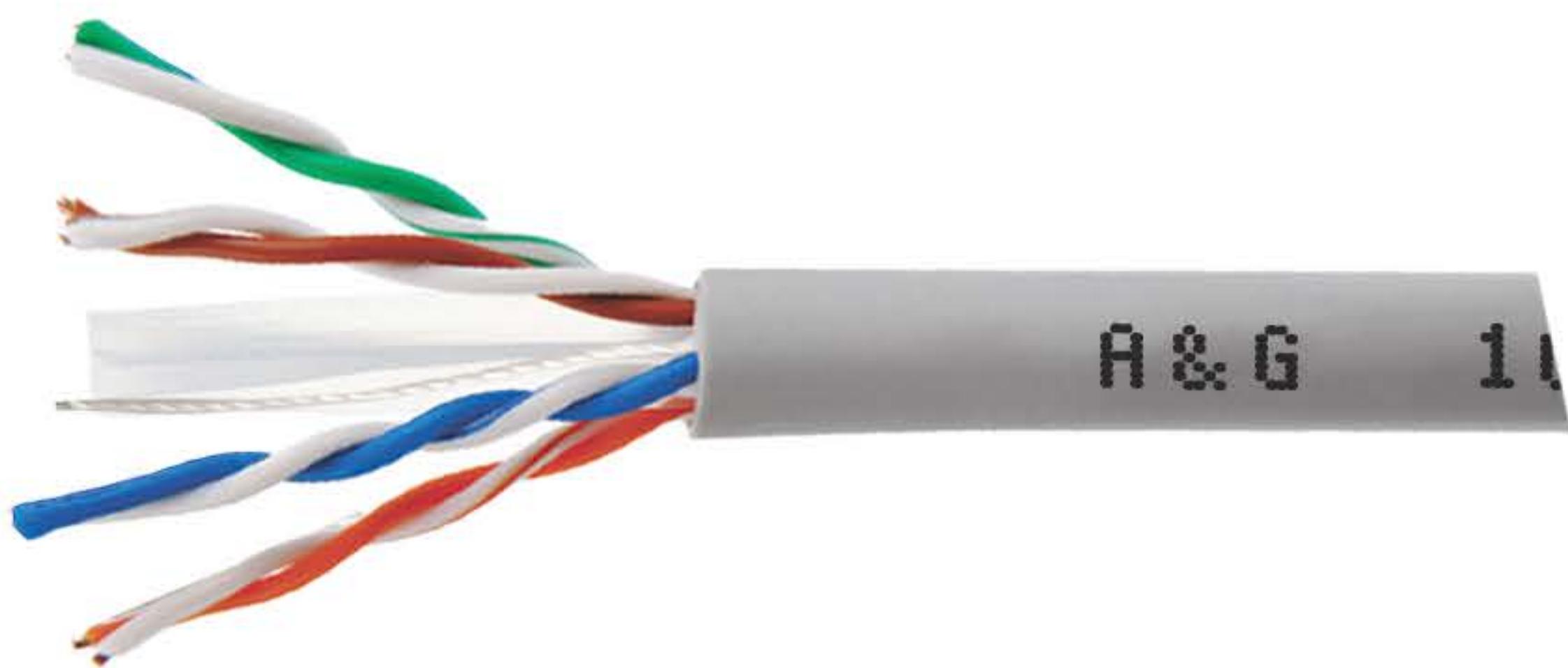
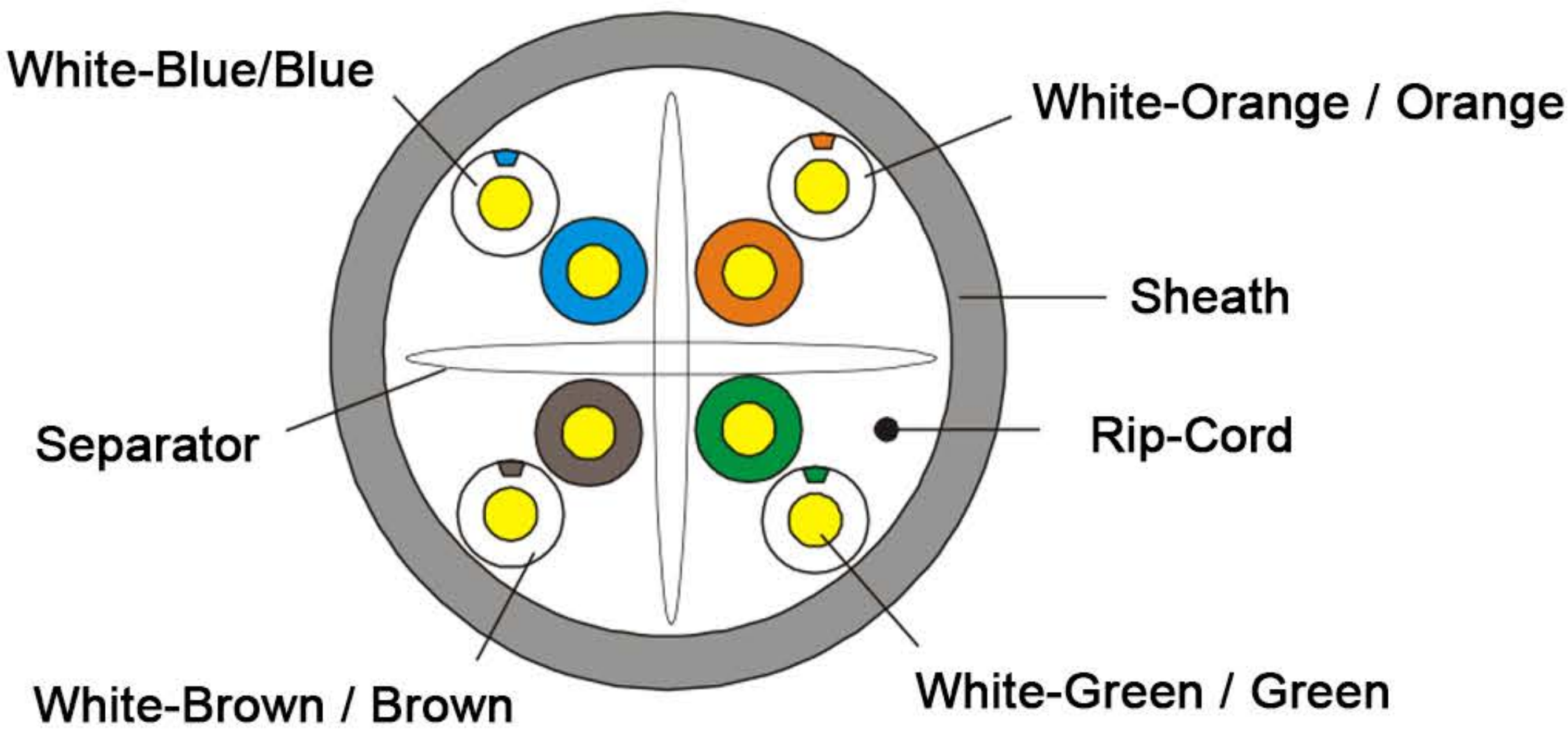
- 10/100/1000Base T
- Telecommunications
- LAN
- Premise wiring

Ordering Information

Part Number	Description
108-61007	CAT. 6 UTP CABLE 24AWG 305M BOX

General Information

- Conductor Material: SOLID-Bare Copper
- Conductor Nominal Outer Diameter (O.D.): 0.530 mm (+0.005 up, -0.005 down)
- Insulation Material: HDPE (High-Density Polyethylene)
- Insulation Diameter: 0.95±0.05mm
- Sheath Outer Diameter: 5.8±0.4mm
- Sheath Surface: Clean, Frap, Satiation
- Sheath Material: PVC (complies RoHS), CM
- Sheath Color: Gray
- 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
- Carton Dimension: According to requirements
Packing Length: (305+1.5)m
- Rip-cord: Yes
- Drain wire: No



PRODUCT TECHNICAL SPECIFICATION | CAT 6 UTP CABLE 24AWG

Product Electrical Characteristics:

- Impedance: 100±15% Ω
- Delay Skew: ≤45 ns/100m
- DC Resistance: max 9.38 Ω/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

Technical Performance (100m)

Frequency (MHz)	RL (≥dB)	Attenuation (≤dB)	NEXT (≥dB)	Delay (≤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) ≥	ELFEXT (dB) ≥	PSELFEXT (dB) ≥
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

Sheath Physical Properties:

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