



CAT 6 UTP CABLE 23AWG

108-61001

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Overview

- 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, 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

Applications

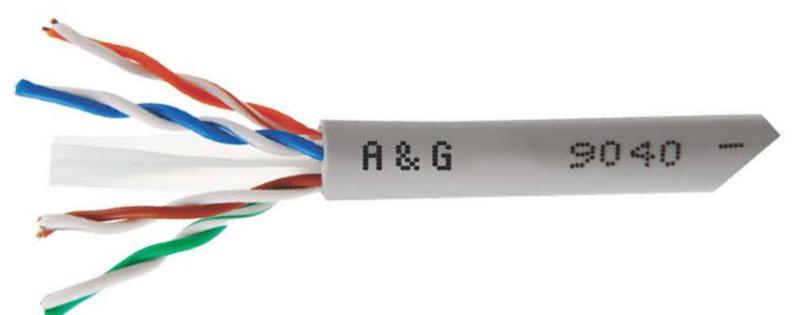
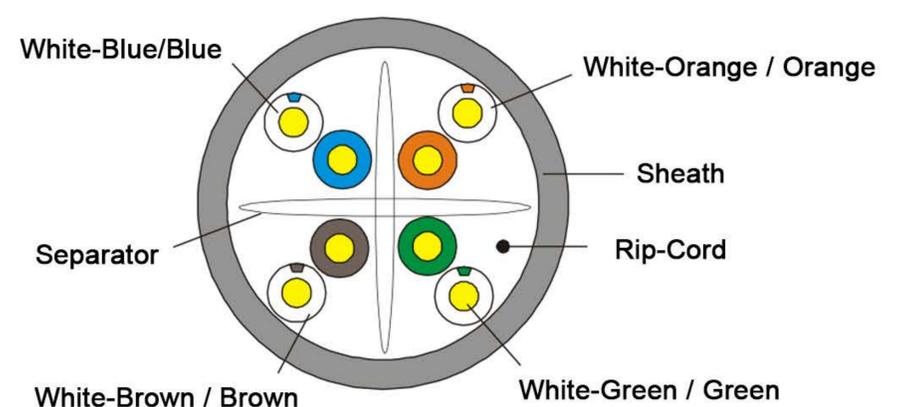
- 10/100/1000Base T
- Telecommunications
- LAN
- Premise wiring

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: ≤ 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

Sheath Physical Properties:

- Before Aging: Tensile Strength ≥ 13.5 Mpa, Elongation $\geq 150\%$
- After Aging (100°Cx24hx7d): Tensile Strength ≥ 12.5 Mpa, Elongation $\geq 125\%$
- Cold Bend (-20 \pm 2°Cx4h): No visible cracks, 8xCable O.D.
- Installation Temperature: 0°C to +60°C
- Operating Temperature: -20°C to +75°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

V4/2403/26

HEADQUARTERS



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CONNECT THE FUTURE



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