



CAT 6A UTP CABLE LSZH SHEATH

108-91001

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Overview

- Category: CAT. 6A
- 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

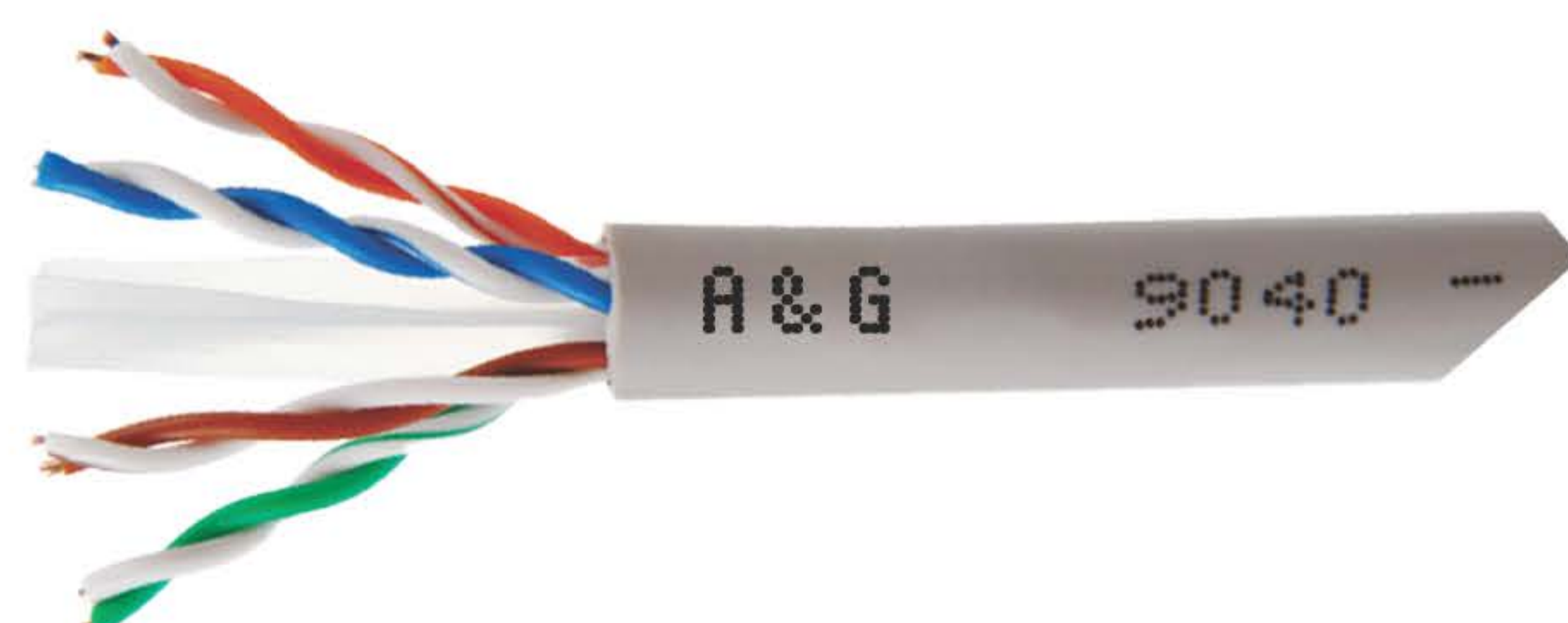
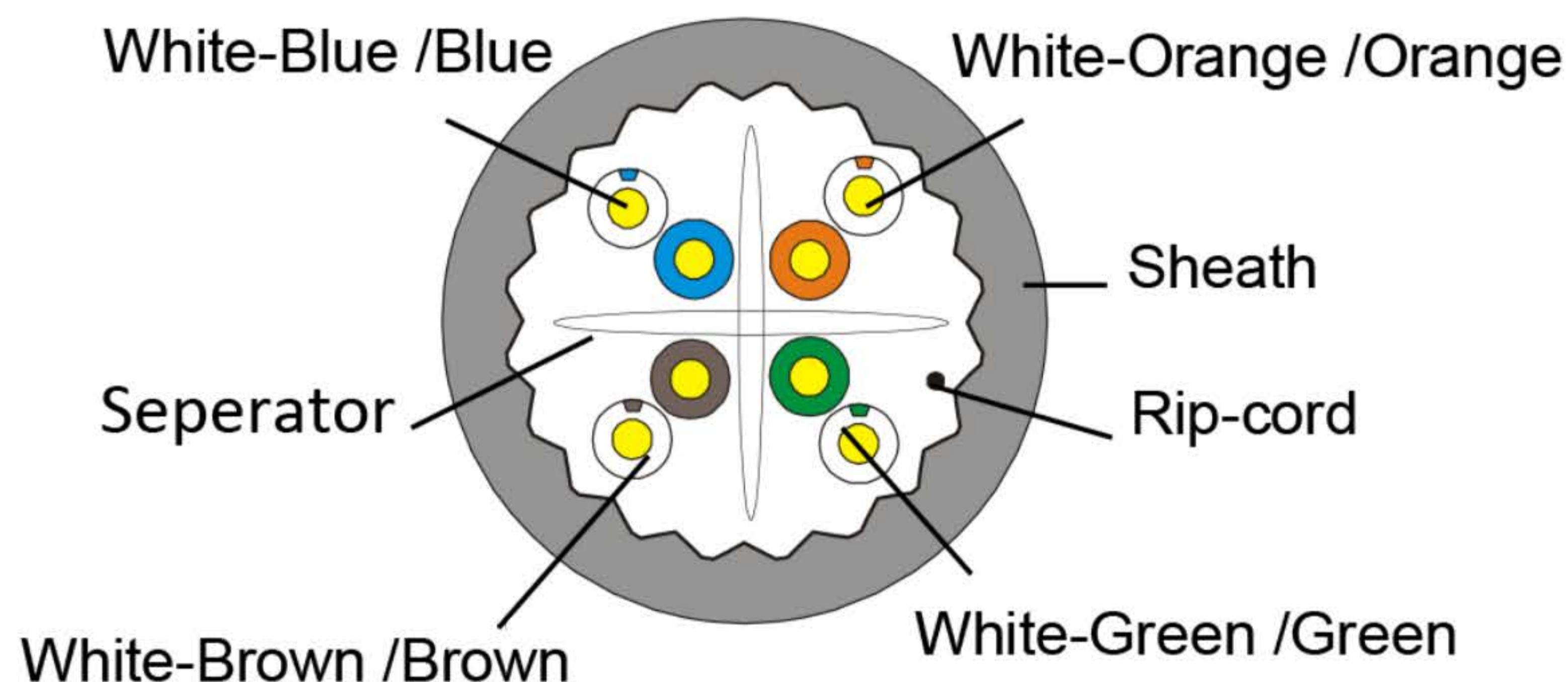
- Horizontal Cabling Above Suspended Ceilings
- Horizontal Cabling Below Raised Flooring
- Ethernet Network Cabling – EIA568

Ordering Information

Part Number	Description
108-91001	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 (Ω): $100\Omega \pm 5\Omega$
- Delay Skew (ns/100m): ≤ 45
- DC Resistance ($\Omega/100m$): max 9.38
- DC Conductor Resistance Unbalance (%): max 5.0

Sheath Physical Properties:

- Before Aging: Tensile Strength (MPa): ≥ 10.0
- Before Aging: Elongation (%): ≥ 125
- Aging Period: $100^\circ\text{C} \times 24\text{h} \times 7\text{d}$
- After Aging: Tensile Strength (MPa): ≥ 8.0
- After Aging: Elongation (%): ≥ 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°C to $+50^\circ\text{C}$
- Operating Temperature: -20°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



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