

CAT 6A UTP CABLE LSZH SHEATH

108-91011

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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

- ANSI/TIA 568.2-D
 - ISO/IEC 11801
 - EN 13501-6
 - EN 50399, EN 60754-1/2
- IEC 61156-5, EN 50399
 - EN 50288-10-1
 - IEEE 802.3bt level 3 & 4
 - EN 60332-1-2, EN61034-2

Applications

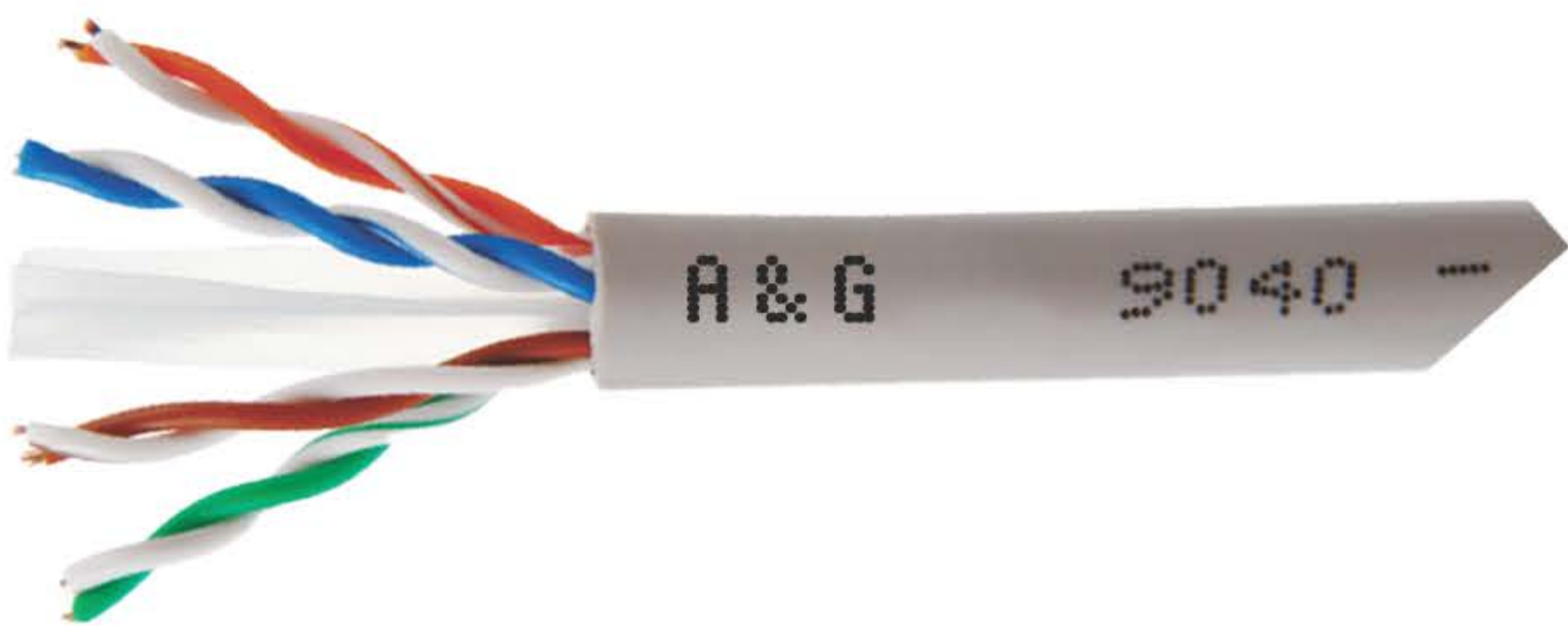
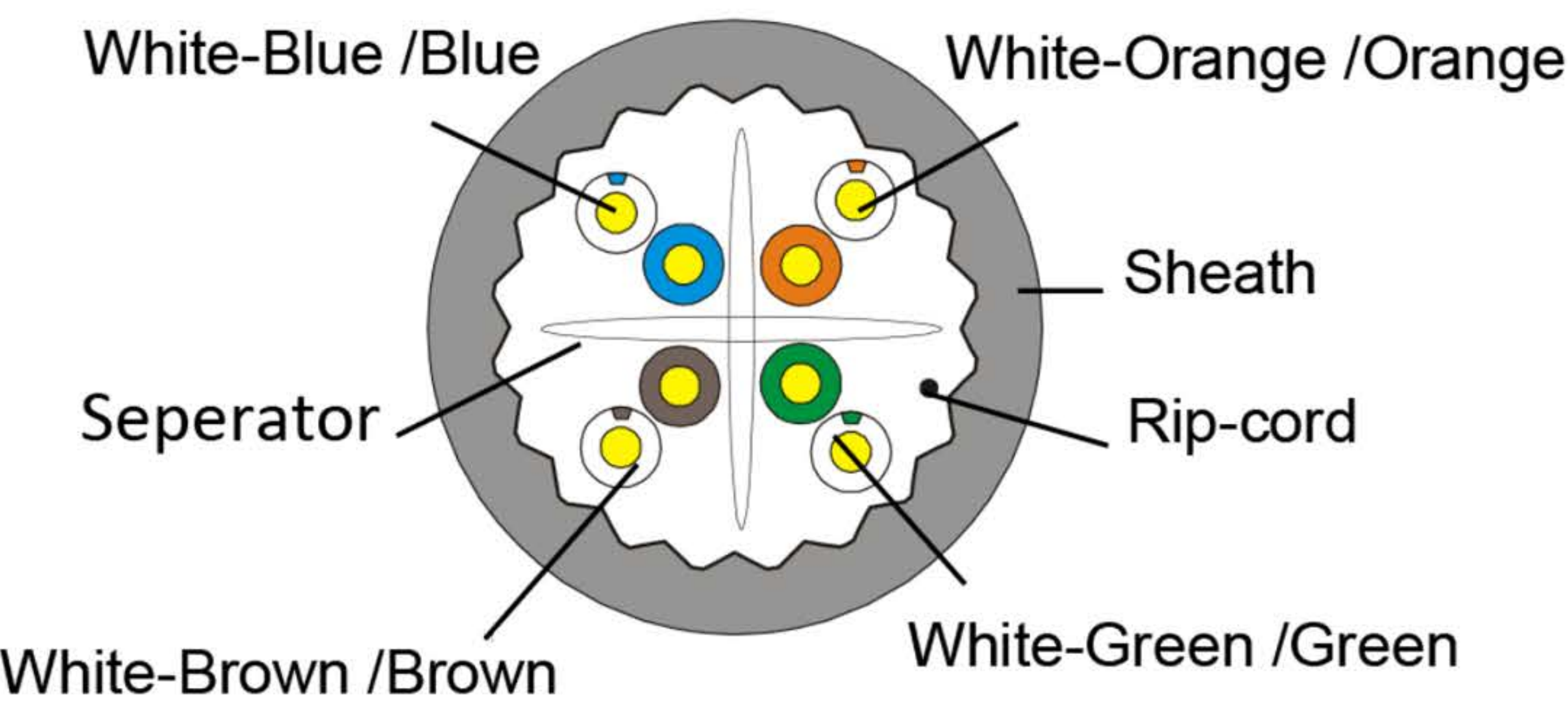
- Horizontal Cabling Above Suspended Ceilings
- Horizontal Cabling Below Raised Flooring
- Ethernet Network Cabling – EIA568

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 (Ω): $100\Omega \pm 5\Omega$
- Delay Skew (ns/100m): ≤ 45
- DC Resistance (Ω /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

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

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