



CAT 6A F/UTP CABLE LSZH SHEATH

108-95001

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Overview

- Category: CAT6A F/UTP LSZH Cable
- Sheath Printing: LSZH (Low Smoke Zero Halogen)
- Suitable for high-speed data transmission in various networking applications, including commercial and industrial settings.

Industry Standard

- ISO/IEC11801
- TIA-568-C.2

Applications

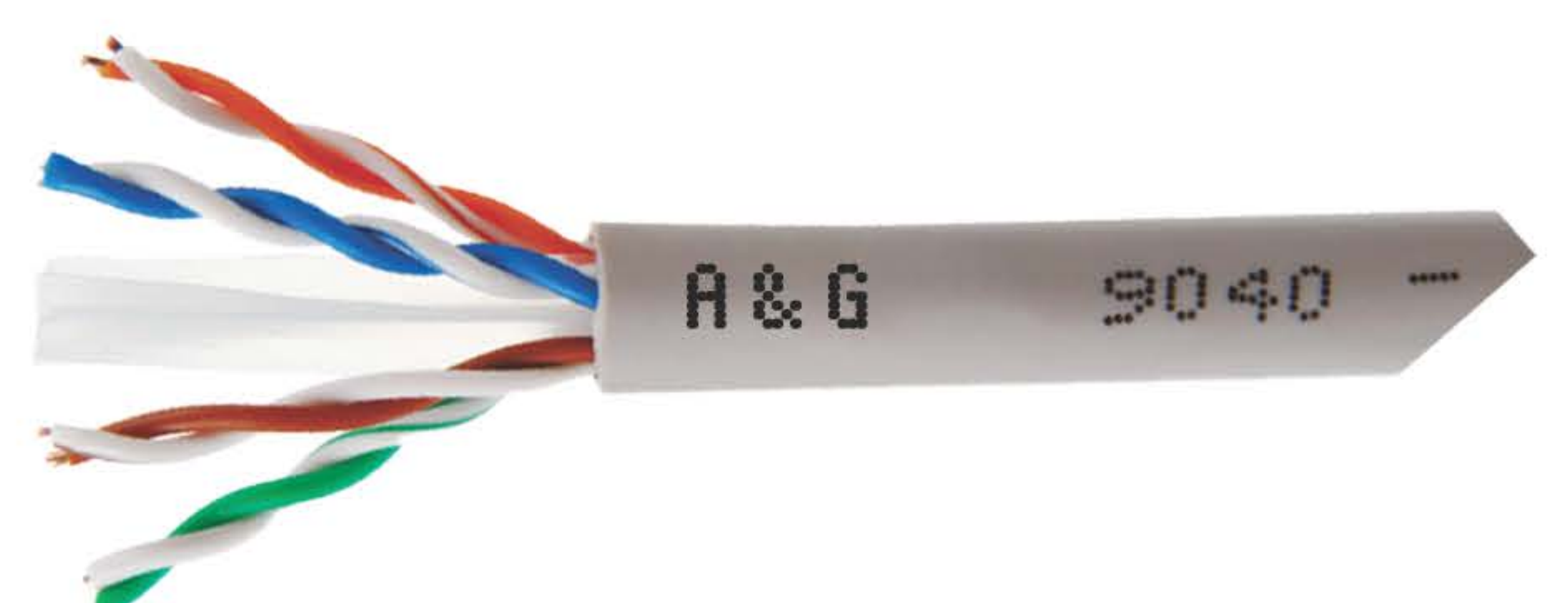
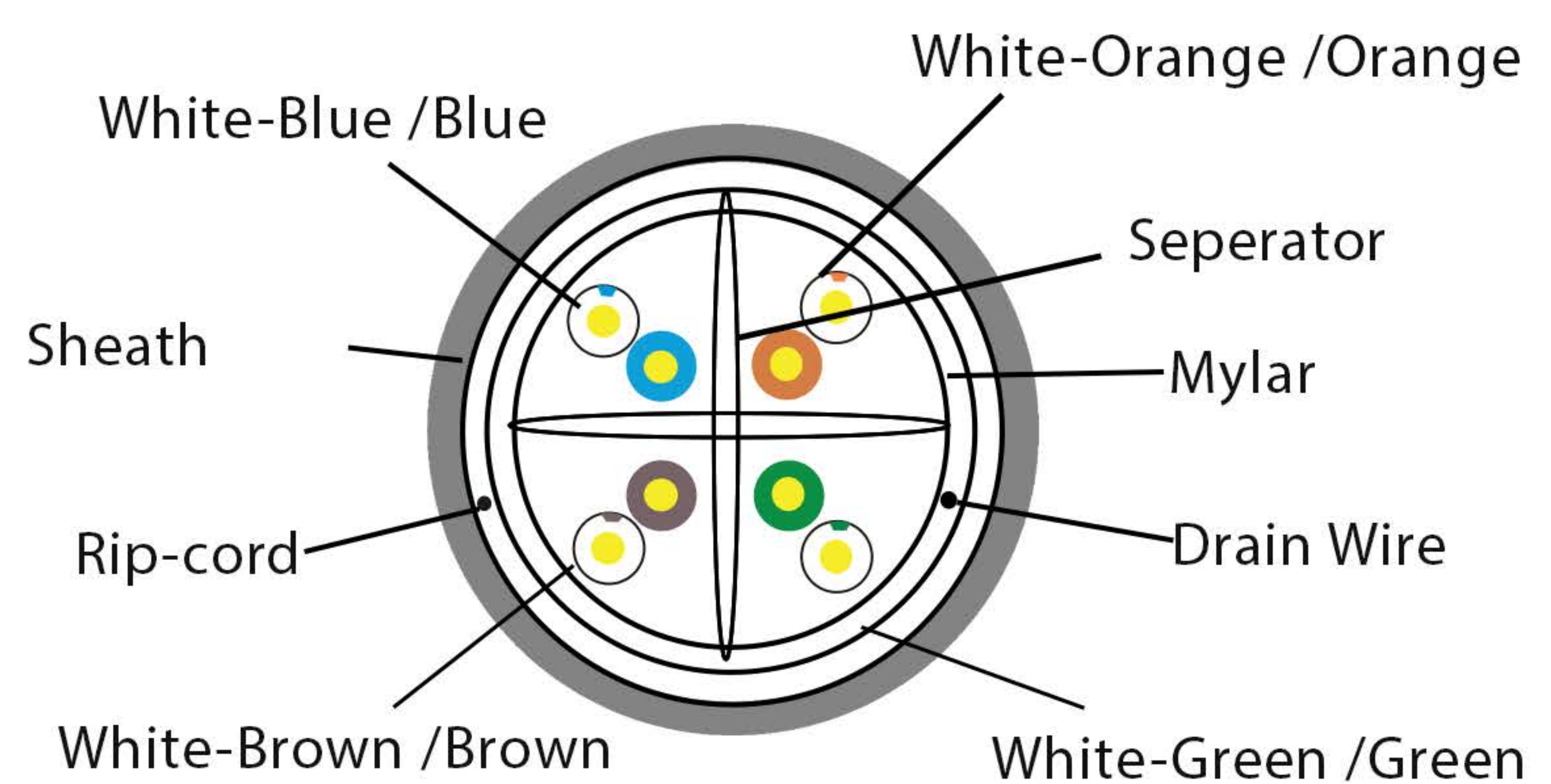
- Shipboard, aircraft, aerospace and defense
- Horizontal Cabling Above Suspended Ceilings
- Horizontal Cabling Below Raised Flooring Ethernet Network Cabling – EIA568

Ordering Information

Part Number	Description
108-95001	CAT 6A F/UTP CABLE LSZH SHEATH

General Information

- Conductor Material: Solid Bare Copper
- Nominal Outer Diameter (O.D.): 0.565mm (up +0.005, down -0.005)
- Insulation Material: HDPE (High-Density Polyethylene)
- Diameter: 1.12±0.05mm
- Screening Material: Mylar + AL/Mylar
- Sheath Thickness: 0.60±0.05mm
- External O.D.: 7.4±0.4mm
- Surface: Clean, Frap, Satiation Material (LSZH compliant with RoHS)
- 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 dimensions according to requirement
- Rip-cord: Yes
- Drain wire: Yes



PRODUCT TECHNICAL SPECIFICATION | CAT 6A F/UTP CABLE LSZH SHEATH

Product Electrical Characteristics:

- Impedance (Ω): 1.0-250.0MHz: 100 ± 15 .
250.0-500.0MHz: 100 ± 22
- Delay Skew (ns/100m): ≤ 45
- Unbalanced to ground capacitance (pf/100m)max: 330
- DC Resistance ($\Omega/100m$) max: 9.38
- DC Conductor Resistance Unbalance (%) max: 5.0

Sheath Physical Properties:

- Before Aging: Tensile Strength: ≥ 10.0 Mpa, Elongation: $\geq 125\%$
- Aging Period ($^{\circ}C \times hrs$): $100^{\circ}C \times 24h \times 7d$
- After Aging: Tensile Strength: ≥ 8.0 Mpa, Elongation: $\geq 100\%$
- Cold Bend ($-20\pm 2^{\circ}C \times 4h$): $8 \times$ Cable O.D, No visible cracks
- Installation Temperature: $0^{\circ}C$ to $+50^{\circ}C$
- Operating Temperature: $-20^{\circ}C$ to $+60^{\circ}C$

Technical Performance (100m)

Frequency (MHz)	RL ($\geq dB$)	Attenuation ($\leq dB$)	NEXT ($\geq dB$)	Delay ($\leq ns$)
1.0	20.0		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	68.0	65.0
4.0	63.3	56.0	53.0
8.0	58.8	49.9	46.9
10.0	57.3	48.0	45.0
16.0	54.4	43.9	40.9
20.0	52.8	42.0	39.0
25.0	41.3	40.0	37.0
31.25	49.9	38.1	35.1
62.5	45.4	32.1	29.1
100	42.3	28.0	25.0
200	37.8	22.0	19.0
250	36.3	20.0	17.0
300	35.1	18.5	15.5
500	31.8	14.0	11.0

HEADQUARTERS



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