

CAT 6A F/UTP CABLE LSZH SHEATH

108-95001

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Overview

- Category: CAT 6A 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

- 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

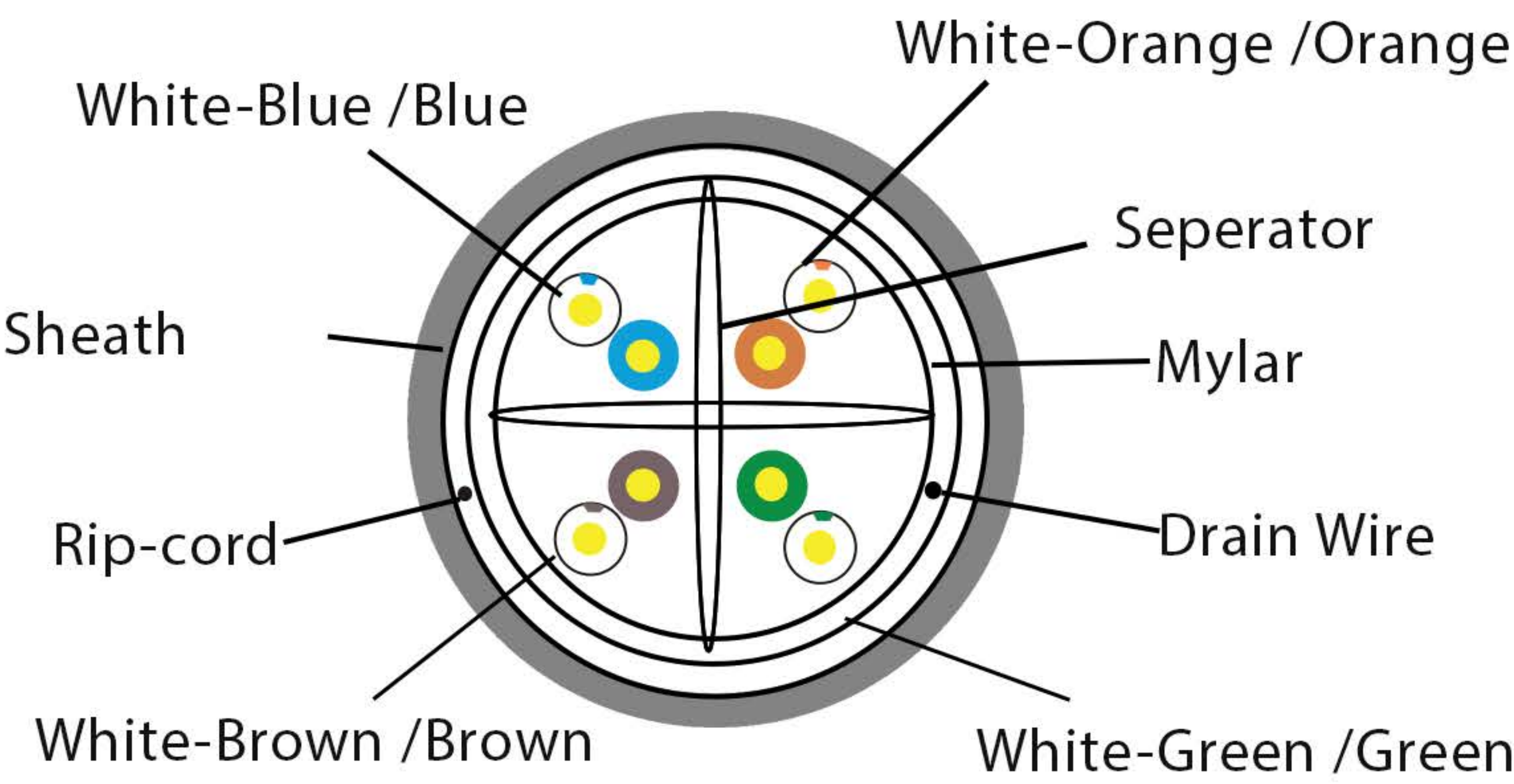
- Shipboard, aircraft, aerospace and defense
- Horizontal Cabling Above Suspended Ceilings
- Horizontal Cabling Below Raised Flooring Ethernet Network Cabling – EIA568

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)
- Insulation Diameter: 1.12±0.05mm
- Screening Material: Mylar + AL/Mylar
- Sheath Thickness: 0.60±0.05mm
- External Diameter: 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
- 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 (Ω /100m) max: 9.38
- DC Conductor Resistance Unbalance (%) max: 5.0

Sheath Physical Properties:

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

Technical Performance

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