



CAT 6A S/FTP CABLE PVC SHEATH

108-92001

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Overview

- Category: S/FTP-CAT6A-4P- PVC
- Construction Type: S/FTP (Shielded and Foiled Twisted Pair)
- High-performance networking applications requiring high data rates and reliability.

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, EN 50173-1
- IEEE 802.3bt level 3 & 4
- EN 60332-1-2, EN61034-2

Applications

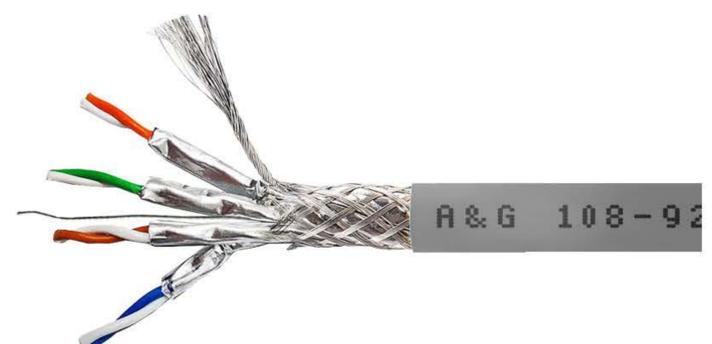
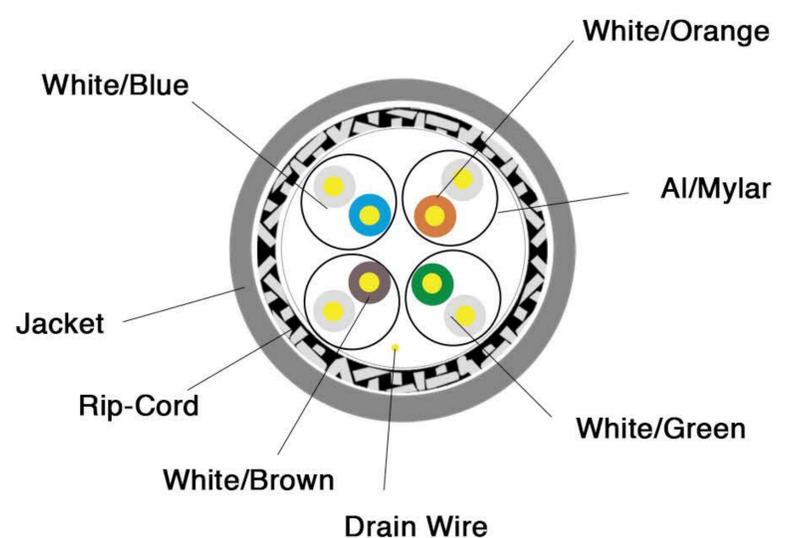
- Horizontal Cabling Above Suspended Ceilings
- Horizontal Cabling Below Raised Flooring
- Ethernet Network Cabling – EIA568

Ordering Information

Part Number	Description
108-92001	CAT 6A S/FTP CABLE PVC SHEATH

General Information

- Conductor Wire: 23 AWG
- Conductor Material: Solid Bare Copper
- Nominal Outer Diameter (O.D.): 0.560 mm
(up +0.005, down -0.005)
- Insulation Diameter: 1.330 ± 0.05mm
- Inner Screening Material: AL/Mylar
- Drain Wire: Yes
- Outer Screening Material: Aluminum-magnesium alloy
- Screening Coverage: ≥40%
- Sheath Thickness: 0.55 ± 0.05 mm
- External O.D.: 7.2 ± 0.5 mm
- Sheath Material: PVC complies with RoHS
- Surface Printing: Letter height 3.0 ± 0.3mm, Color: Black,
Print error & Space: ≤±0.5%, 1m
- Core Color:
 1. White/Blue
 2. White/Orange
 3. White/Green
 4. White/Brown
- Rip-cord: Yes



PRODUCT TECHNICAL SPECIFICATION | CAT 6A S/FTP CABLE PVC SHEATH

Product Electrical Characteristics:

- Impedance: $100 \pm 15 \Omega$ (1-250MHz)
 $100 \pm 22 \Omega$ (250-500MHz)
- Delay Skew: ≤ 45 ns/100m (1.0-500MHz)
- Unbalanced to Ground Capacitance: ≤ 330 pf/100m
- DC Resistance: $\leq 9.38 \Omega/100m$
- DC Conductor Resistance Unbalance: $\leq 5.0\%$

Sheath Physical Properties:

- Tensile Strength (Before Aging): ≥ 10.0 MPa
- Elongation (Before Aging): $\geq 125\%$
- Aging Period: $100^\circ\text{C} \times 24\text{h} \times 7\text{d}$
- Tensile Strength (After Aging): ≥ 8.0 MPa
- Elongation (After Aging): $\geq 100\%$
- Cold Bend Test: $(-20 \pm 2^\circ\text{C} \times 4\text{h})$ $8 \times$ Cable O.D.
Without visible cracks

Technical Performance

Frequency (MHz)	RL (\geq dB)	Attenuation (\leq dB)	NEXT (\geq dB)	Delay (\leq 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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