

CAT 6A F/FTP CABLE PVC SHEATH

108-94001

Phone
+33 75 864 2169

Email
info@angnetworks.com

Log 202, 5rue Albert Thomas, 38100
Grenoble, France.



Overview

- Category: F/FTP CAT6A-4P- PVC
- Construction Type: F/FTP (Foiled with Foiled Twisted Pair)
- Suitable for high-speed networking applications in various environments.

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

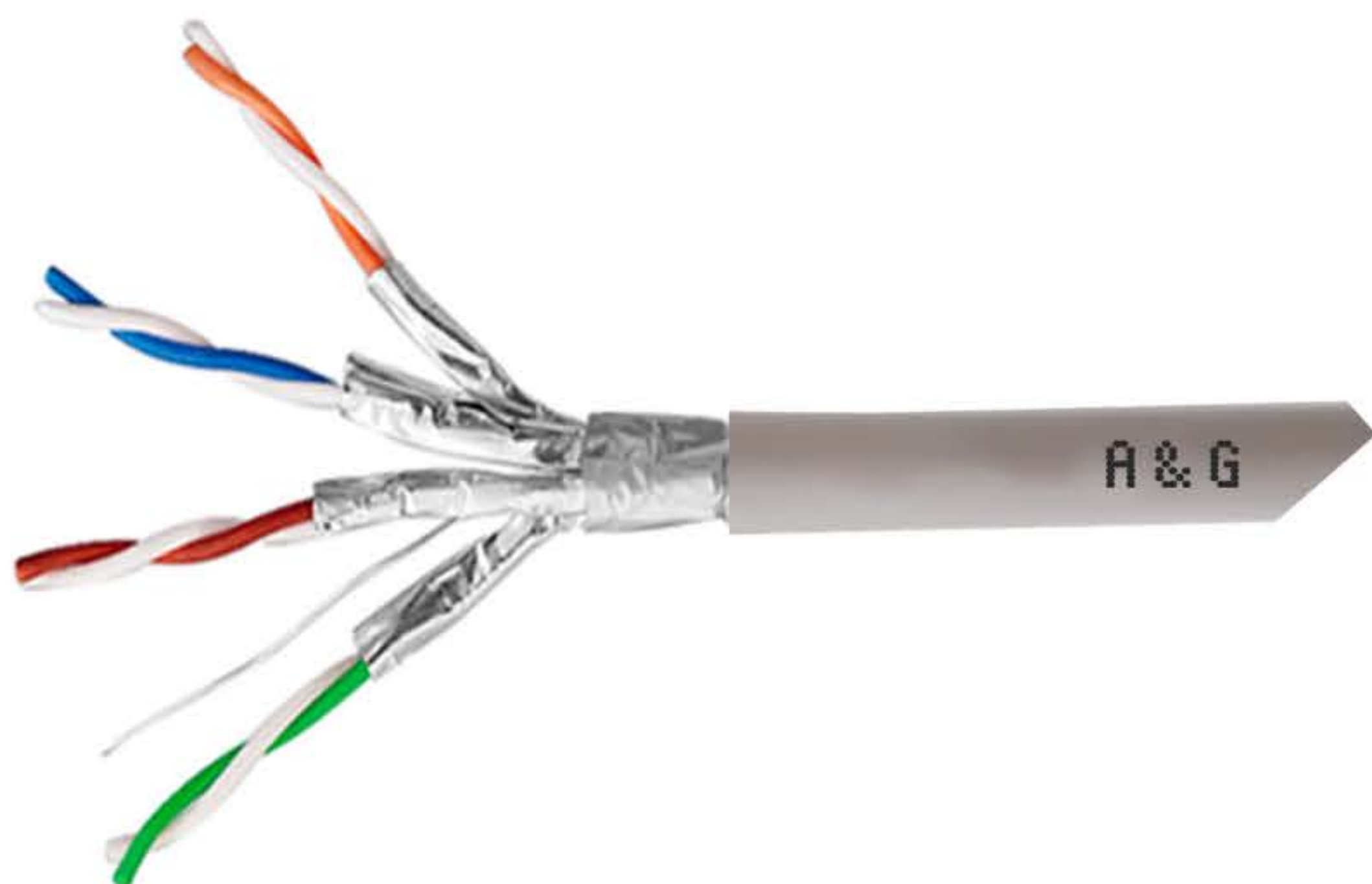
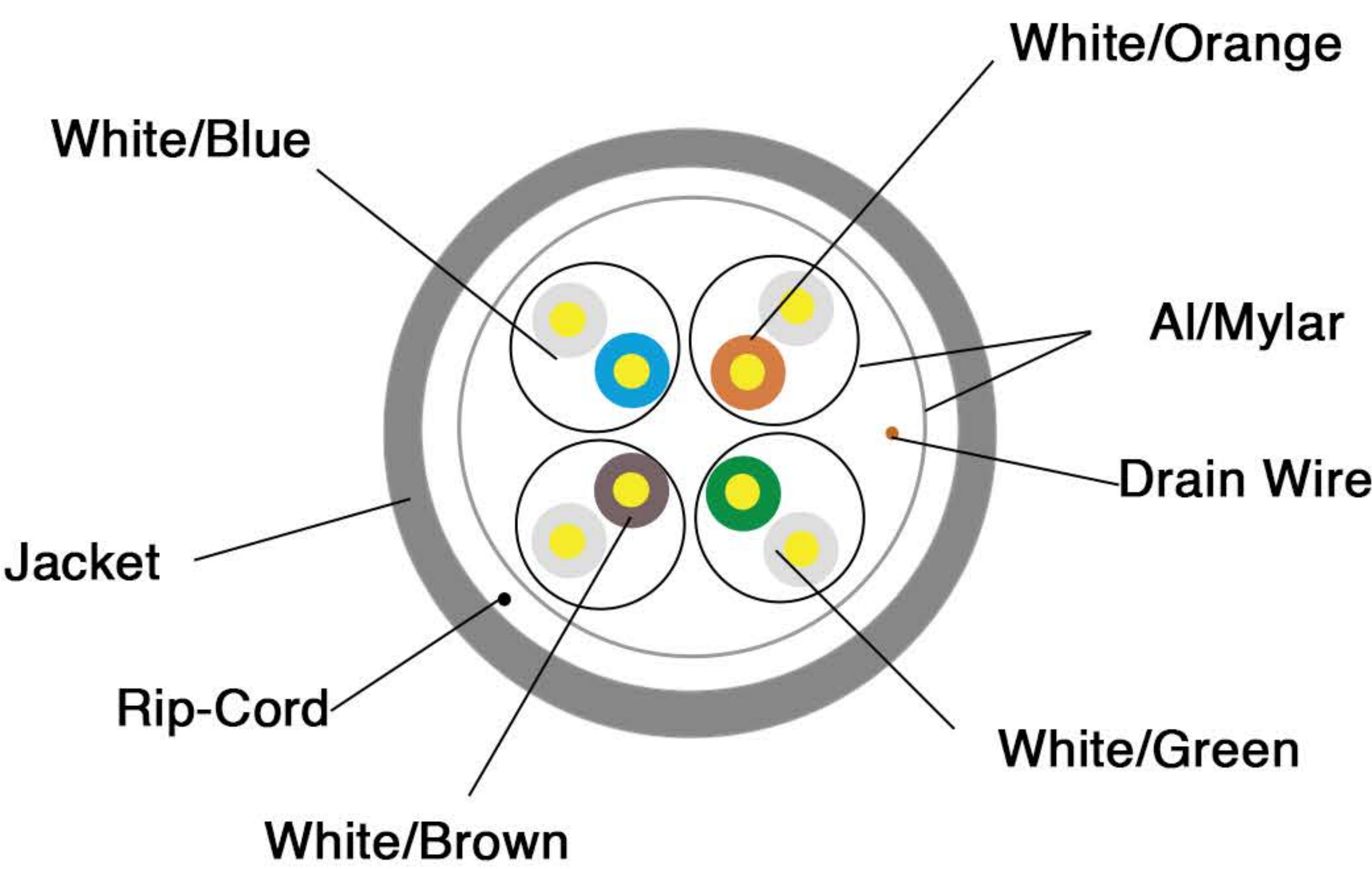
- Horizontal Cabling Above Suspended Ceilings
- Horizontal Cabling Below Raised Flooring
- Ethernet Network Cabling – EIA568

Ordering Information

Part Number	Description
108-94001	CAT 6A F/FTP CABLE PVC SHEATH

General Information

- Conductor Material: Solid Bare Copper
- Insulation Material: Skin-foam-Skin PE
- Screening Material: AL/Mylar
- Sheath Material: PVC
- External Outer Diameter: 7.5±0.5mm
- Nominal Outer Diameter: 0.560mm (up +0.005, down -0.005)
- Insulation Diameter: 1.330±0.05mm
- Sheath Thickness: 0.55±0.05mm (average)
- Surface Material: PVC (complies with RoHS)
- Surface Printing: Letter height 3.0±0.3mm, Color Black, Print error & Space ≤±0.5%, 1m
- Core Color Code:
 1. White-Blue / Blue
 2. White-Orange / Orange
 3. White-Green / Green
 4. White-Brown / Brown
- Packing Length: 305±1.5m
- Packing: Wooden Tray & Carton, Carton dimension according to requirements



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

Product Electrical Characteristics:

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

Sheath Physical Properties:

- Tensile Strength (Before Aging): ≥13.5 MPa
- Elongation (Before Aging): ≥150%
- Aging Period: 100°C x 24h x 7d
- Tensile Strength (After Aging): ≥12.5 MPa
- Elongation (After Aging): ≥125%
- Cold Bend Test: -20±2°C x 4h, 8x Cable O.D, No visible cracks
- Installation Temperature: 0°C to +50°C
- Operating Temperature: -20°C to +60°C

Technical Performance

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