

CAT 5e F/UTP CABLE PVC+PE SHEATH

108-51003

Phone
+33 75 864 2169

Email
info@angnetworks.com

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



Overview

- Category: F/UTP CAT5E-4P-PVC-PE
- Suitable for various networking applications, including Ethernet, Fast Ethernet, and Gigabit Ethernet

Industry Standard

- ANSI/TIA 568.2-D
 - ISO/IEC 11801
 - EN 13501-6:2014
- IEC 61156-5
 - EN 50288-2-1
 - IEEE 802.3bt level 3 & 4

Applications

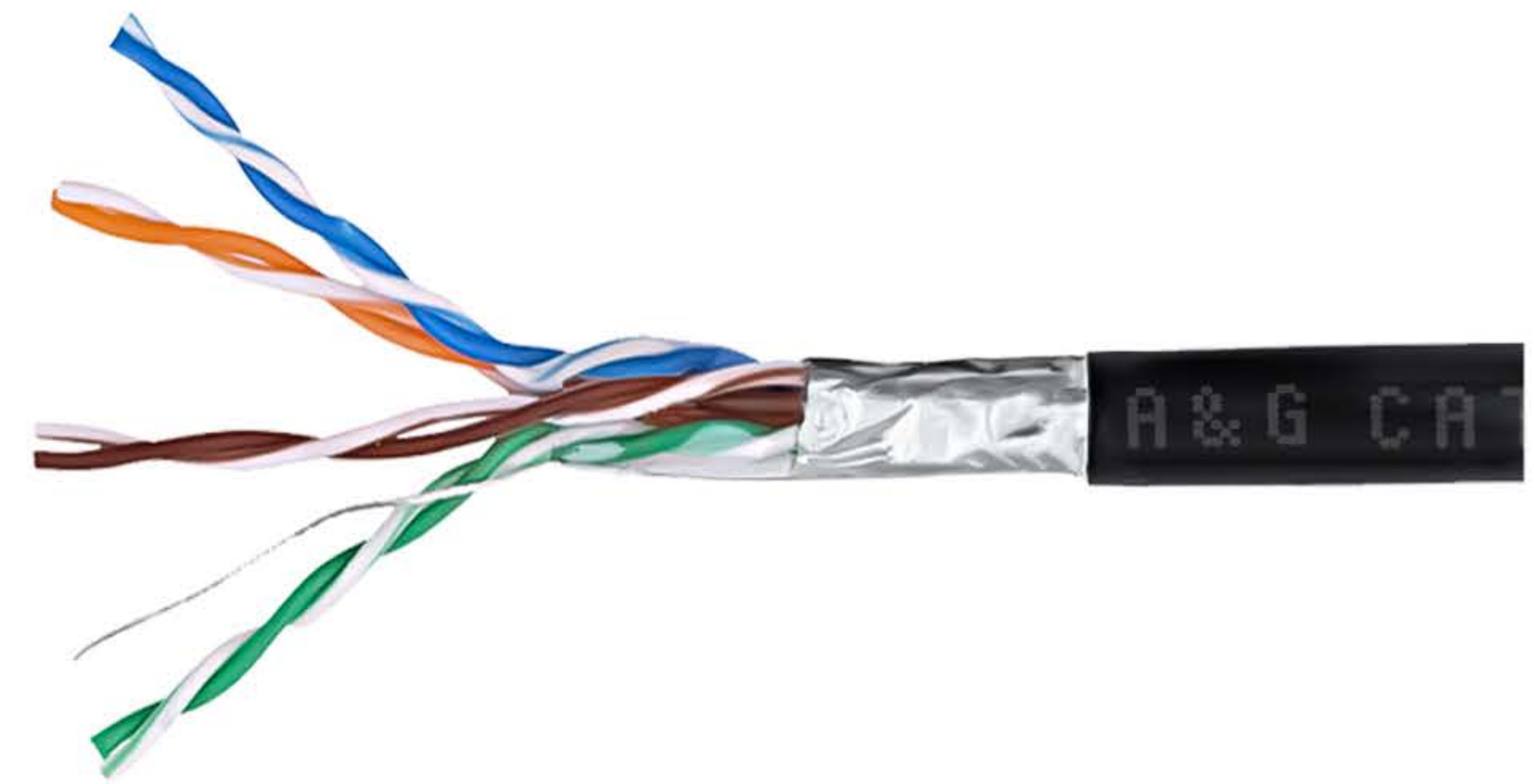
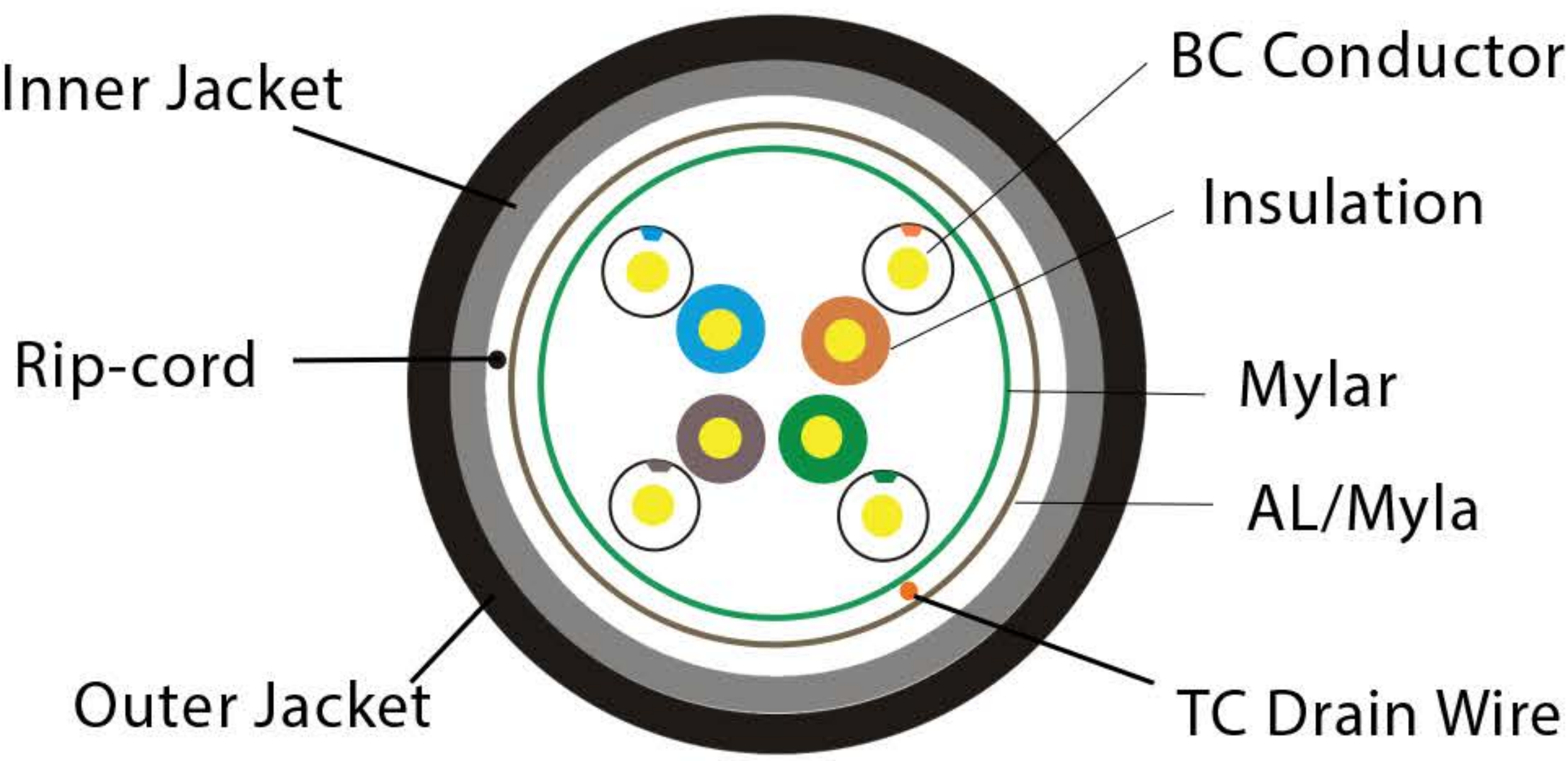
- 100VG- AnyLAN (IEEE 802. 12)
 - 10BASE –T (IEEE 802.3)
 - 16Mbps Token Ring (IEEE 802.5)
 - 100BASE –T Ethernet (IEEE 802.3)
- Voice; T1; ISDN
 - 155/622Mbps ATM
 - 1000Mbps Gigabit Ethernet
 - 550MHz Broadband Video

Ordering Information

Part Number	Description
108-51003	CAT 5e F/UTP Network Cable PVC+PE Sheath 305M

General Information

- Conductor Material: Solid-Bare Copper
- Conductor Nominal O.D(mm): 0.495 up +0.005 down -0.005
- Insulation Material: HDPE
- Insulation Diameter: 0.95±0.05mm
- Core Color:
 1. Blue, White-Blue
 2. Green, White-Green
 3. Orange, White-Orange
 4. Brown White-Brown
- Shield: Mylar+Al/Mylar
- Inner Sheath Material: PVC
- Inner Sheath Thickness: 0.55mm
- Outer Sheath Thickness: 0.55±0.1mm
- Outer Sheath External O.D: 7.1±0.5mm
- Outer Sheath Surface: Clean, Frap, Satiation
- Outer Sheath Material: LDPE(Complies RoHS)
- Outer Sheath Color: Black
- Rip Cord: Yes
- Drain Wire: Yes
- Packing: 305 ± 1.5m on Drum, Wooden Tray dimensions according to requirements



Product Electrical Characteristics:

- Impedance (Ω): 100±15 (1.0-100.0MHz)
- Delay Skew (ns/100m): ≤45 (1.0-100.0MHz)
- DC Resistance (Ω /100m): max 9.5
- DC Conductor Resistance Unbalance (%): max 5.0
- Capacitance unbalance to earth (pf/100m): max 330

Sheath Physical Properties:

- Before Aging: Tensile Strength (Mpa): ≥10.0,
- Before Aging: Elongation (%): ≥350
- Aging Period ($^{\circ}\text{C}\times\text{hrs}$): 100 $^{\circ}\text{C}\times 24\text{h}\times 10\text{d}$
- After Aging: Elongation (%): ≥300
- Cold bend ($-20\pm 2^{\circ}\text{C}\times 4\text{h}$): 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 (100m)

Frequency (MHz)	RL (≥dB)	Attenuation (≤dB)	NEXT (≥dB)	Delay (≤ns)
1.0	20.0	--	65.3	570.00
4.0	23.0	4.1	56.3	552.00
8.0	24.5	5.8	51.8	546.73
10.0	25.0	6.5	50.3	545.38
16.0	25.0	8.2	47.2	543.00
20.0	25.0	9.3	45.8	542.05
25.0	24.3	10.4	44.3	541.20
31.25	23.6	11.7	42.9	540.44
62.5	21.5	17.0	38.4	538.55
100	20.1	22.0	35.3	537.60

Frequency (MHz)	PSNEXT (db) ≥	ELFEXT (dB) ≥	PSELFEXT (dB) ≥
1.0	62.3	63.8	60.8
4.0	53.3	51.8	48.8
8.0	48.8	45.7	42.7
10.0	47.3	43.8	40.8
16.0	44.4	39.7	36.7
20.0	42.8	37.8	34.8
25.0	41.3	35.8	32.8
31.25	39.9	33.9	30.9
62.5	35.4	27.9	24.9
100	32.3	23.8	20.8