



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
- Sheath Printing: Available
- Suitable for various networking applications, including Ethernet, Fast Ethernet, and Gigabit Ethernet

Industry Standard

- ISO/IEC11801
- TIA-568.2-D
- IEC61156

Applications

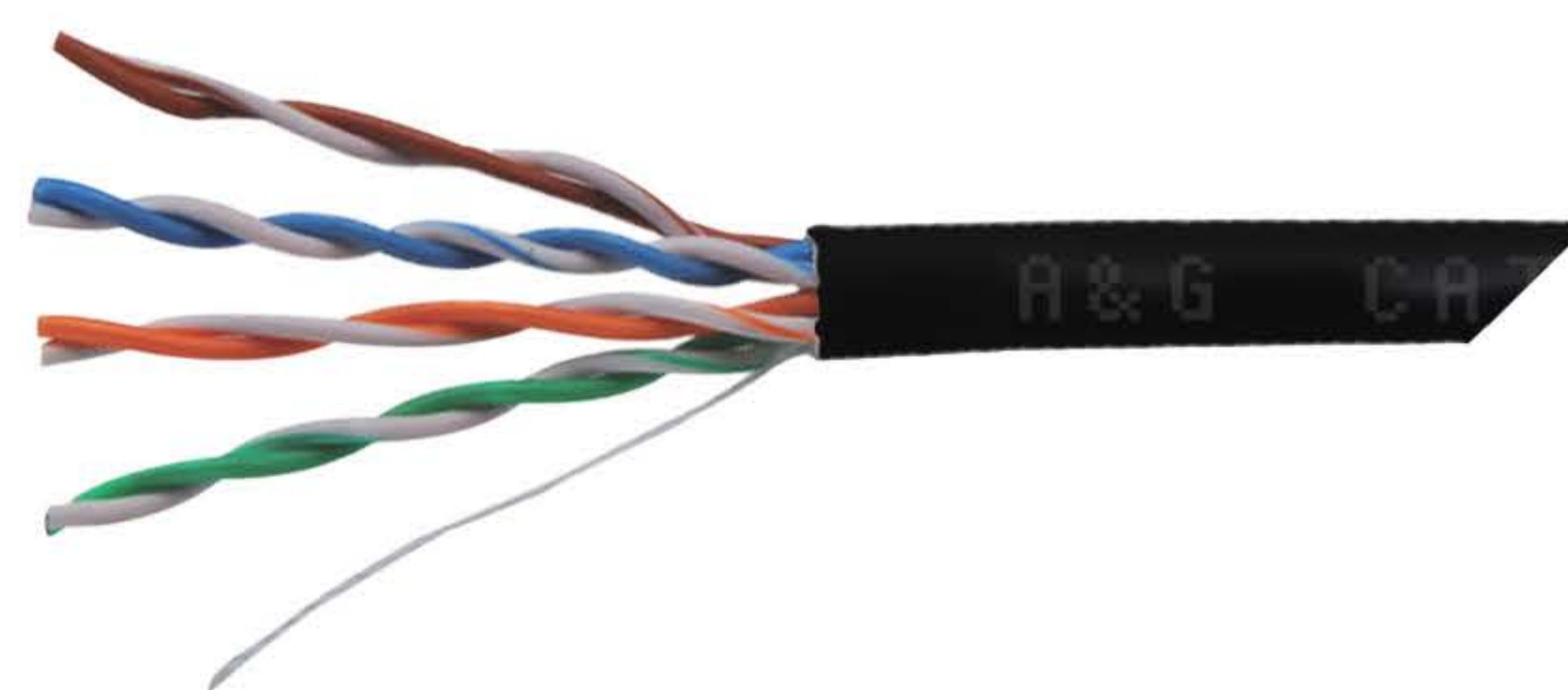
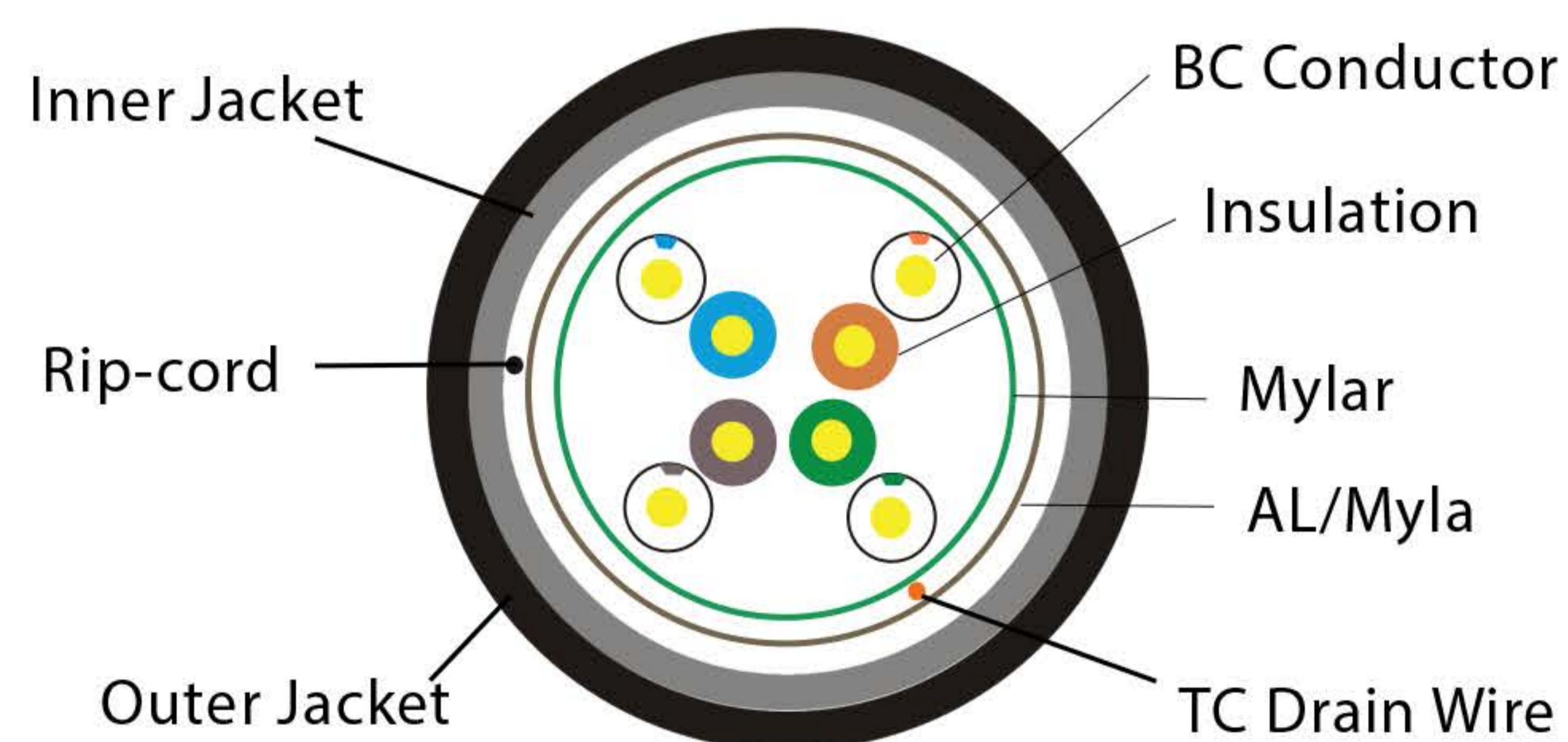
- 100VG- AnyLAN (IEEE 802. 12)
- 10BASE –T (IEEE 802.3)
- 16Mbps Token Ring (IEEE 802.5)
- 100BASE –T Ethernet (IEEE 802.3)
- Voice; T1; ISDN
- 155/622Mbps ATM
- 1000Mbps Gigabit Ethernet
- 550MHz Broadband Video

Ordering Information

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

General Information

- Conductor Material: Solid-Bare Copper
- Insulation Material: HDPE
- Colors: Blue, White-Blue, Orange, White-Orange
- Shield: Mylar + Al/Mylar
- Inner Sheath Material: PVC (Color TBD)
- Outer Sheath Material: LDPE (Complies RoHS)
- Outer Sheath Color: Black
- Outer Sheath Surface: Clean, Frap, Satiation
- Outer Sheath Thickness: 0.55mm
- Core Color:
 1. Blue, White-Blue
 2. Green, White-Green
 3. Orange, White-Orange
 4. Brown White-Brown
- External O.D.: 7.1mm ±0.5mm
- Packing: Drum, Carton Dimension According to requirements



PRODUCT TECHNICAL SPECIFICATION | CAT5e F/UTP CABLE PVC+PE SHEATH

Product Electrical Characteristics:

- Impedance (Ω): 100 ± 15 (1.0-100.0MHz)
- Delay Skew (ns/100m): ≤ 45 (1.0-100.0MHz)
- DC Resistance ($\Omega/100m$): 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 ($^{\circ}C \times hrs$): $100^{\circ}C \times 24h \times 10d$
- After Aging: Elongation (%): ≥ 300
- 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	--	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) \geq	ELFEXT (dB) \geq	PSELFEXT (dB) \geq
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

HEADQUARTERS



A&G Technologies CO., Limited,
Log 202, 5rue Albert Thomas, 38100
Grenoble, France.

+33 75 864 2169

REGIONAL OFFICE



A&G Technologies (HK) CO., Limited,
Room 803, Chevalier House, 45-51 Chatham Road
South, Tsim Sha Tsui, Kowloon, Hong Kong.

+852 5420 8788

CONNECT THE FUTURE



info@angnetworks.com



www.angnetworks.com