



# CAT 6 UTP CABLE PVC+PE SHEATH

108-61003

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## Overview

- Category: U/UTP CAT6-4P-PVC+PE
- Sheath Printing: To be Determined (TBD)
- Suitable for various networking applications requiring CAT6 performance.

## Industry Standard

- ISO/IEC 11801
- TIA-568-C.2

## Applications

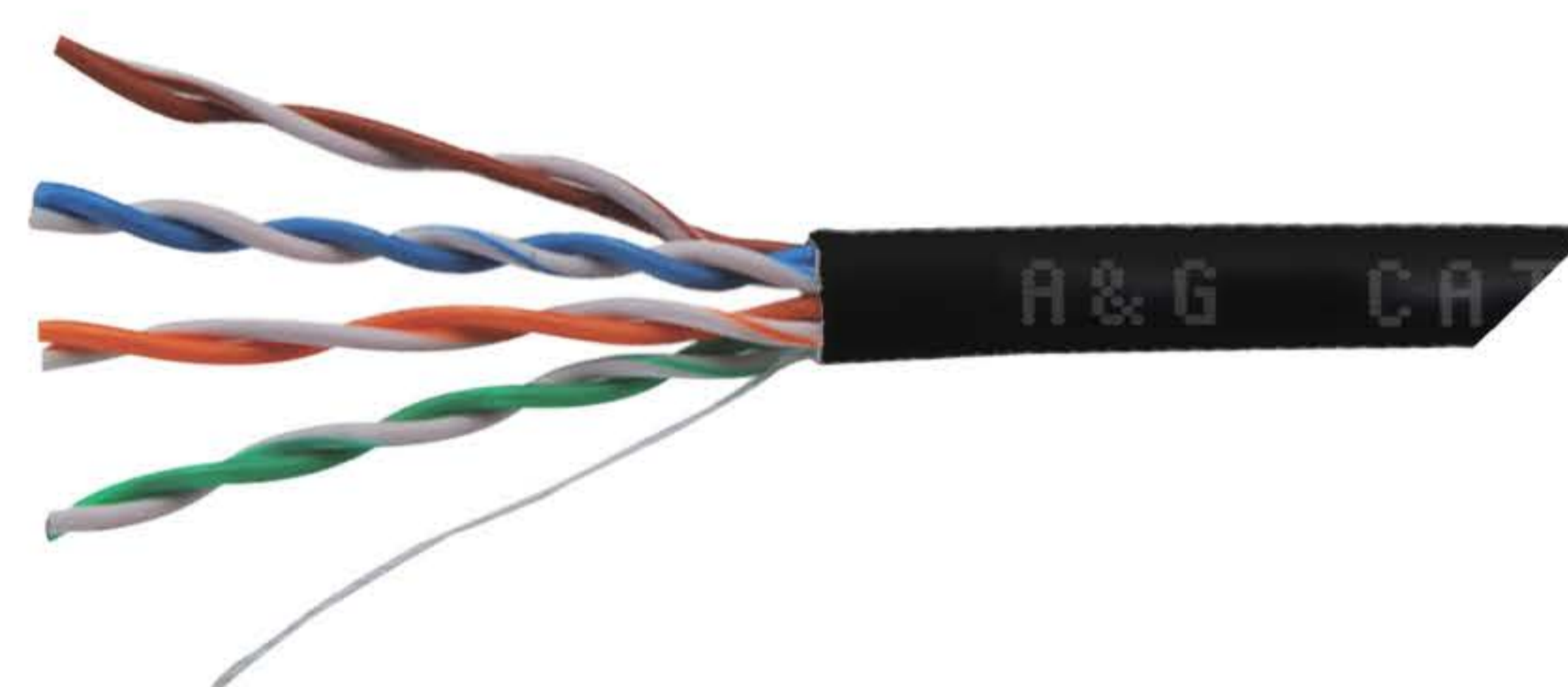
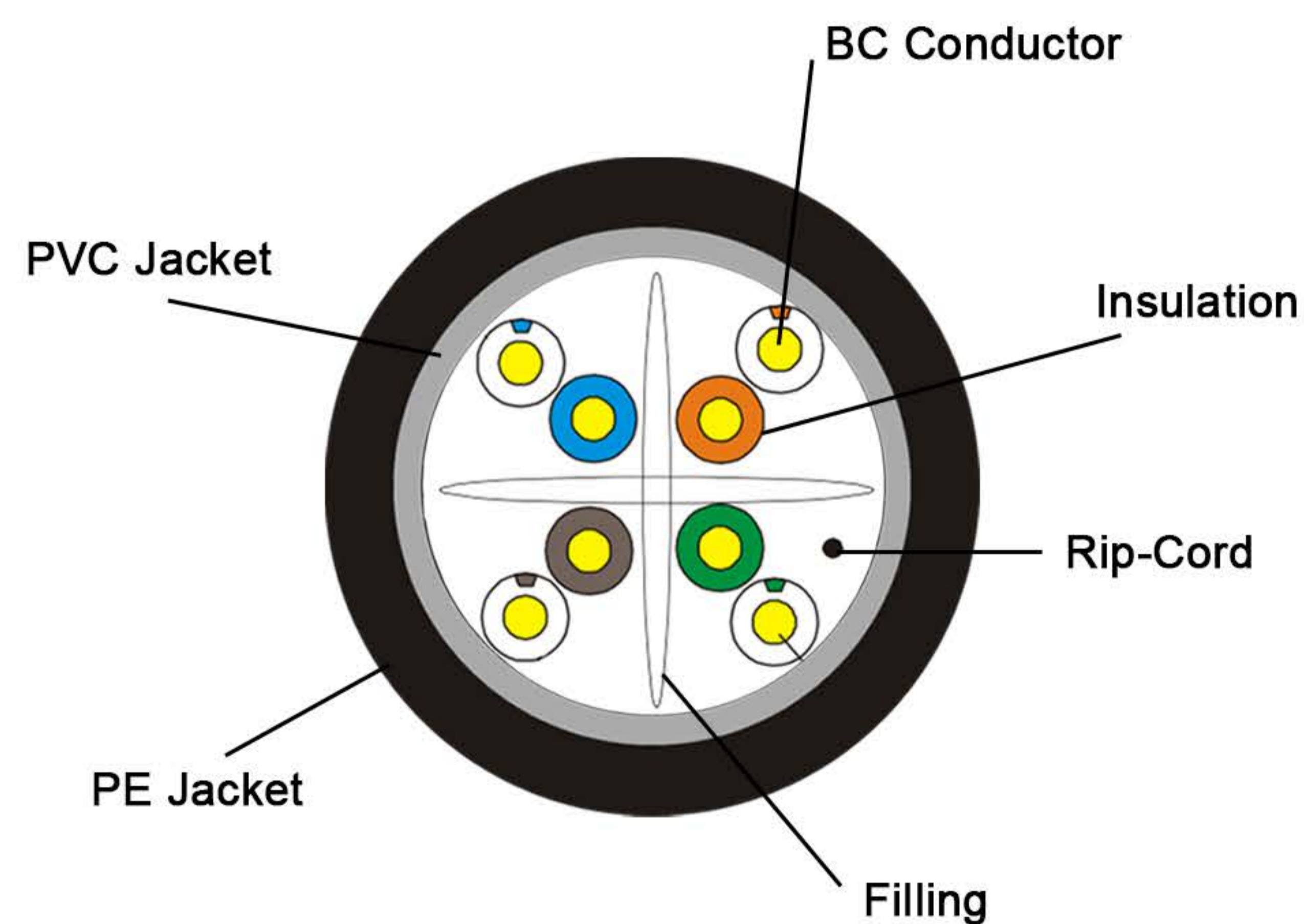
- 10/100/1000Base T
- Telecommunications
- LAN
- Premise Wiring

## Ordering Information

Part Number	Description
108-61003	CAT 6 UTP CABLE-PVC+PE SHEATH

## General Information

- Conductor Material: Solid-Bare Copper
- Insulation Material: HDPE (High-Density Polyethylene)
- Insulation Diameter:  $0.93 \pm 0.05\text{mm}$
- Inner Jacket Material: PVC
- Inner Jacket Thickness: 0.55mm (nominal)
- Outer Sheath Material: LDPE (Low-Density Polyethylene) compliant with RoHS
- Outer Sheath Thickness:  $0.6 \pm 0.05\text{mm}$
- External O.D.:  $7.0 \pm 0.5\text{mm}$
- Surface: Clean, Frap, Satiation
- Sheath Printing: To be determined
- Packing: Wooden Tray & Carton (Dimension according to requirements), Packing Length:  $305 \pm 1.5\text{m}$
- Core Color:
  1. White-Blue / Blue
  2. White-Orange / Orange
  3. White-Green / Green
  4. White-Brown / Brown
- External O.D.:  $7.0 \pm 0.5 \text{ mm}$



# PRODUCT TECHNICAL SPECIFICATION | CAT6 UTP CABLE PVC+PE SHEATH

## Product Electrical Characteristics:

- Characteristic Impedance:  $100 \pm 15 \Omega$
- Delay Skew:  $\leq 45 \text{ ns}/100\text{m}$
- DC Resistance:  $\leq 9.5 \Omega/100\text{m}$
- DC Conductor Resistance Unbalance:  $\leq 5.0\%$

## Sheath Physical Properties:

- Before Aging: Tensile Strength:  $\geq 10.0 \text{ MPa}$ ,  
Elongation:  $\geq 350\%$
- Aging Period:  $100^\circ\text{C} \times 24\text{h} \times 10\text{d}$
- After Aging: Elongation:  $\geq 300\%$
- Cold Bend: No visible cracks at  $-20 \pm 2^\circ\text{C} \times 4\text{h}$
- 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 ( $\geq$ dB)	Attenuation ( $\leq$ dB)	NEXT ( $\geq$ dB)	Delay ( $\leq$ ns)
1.0	20.0	2.03	74.3	570.00
4.0	23.0	3.78	65.3	552.00
8.0	24.5	5.32	60.8	546.73
10.0	25.0	5.95	59.3	545.38
16.0	25.0	7.55	56.2	543.00
20.0	25.0	8.47	54.8	542.05
25.0	24.3	9.51	53.3	541.20
31.25	23.6	10.67	51.9	540.44
62.5	21.5	15.38	47.7	538.55
100	20.1	19.80	44.3	537.60
200	18.0	28.98	39.8	536.54
250	17.3	32.85	38.3	536.27

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

### HEADQUARTERS



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### CONNECT THE FUTURE



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