



CAT 6 UTP CABLE PVC+PE SHEATH

108-61003

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Overview

- Category: U/UTP CAT6-4P-PVC+PE
- Suitable for various networking applications requiring CAT6 performance.

Industry Standard

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

Applications

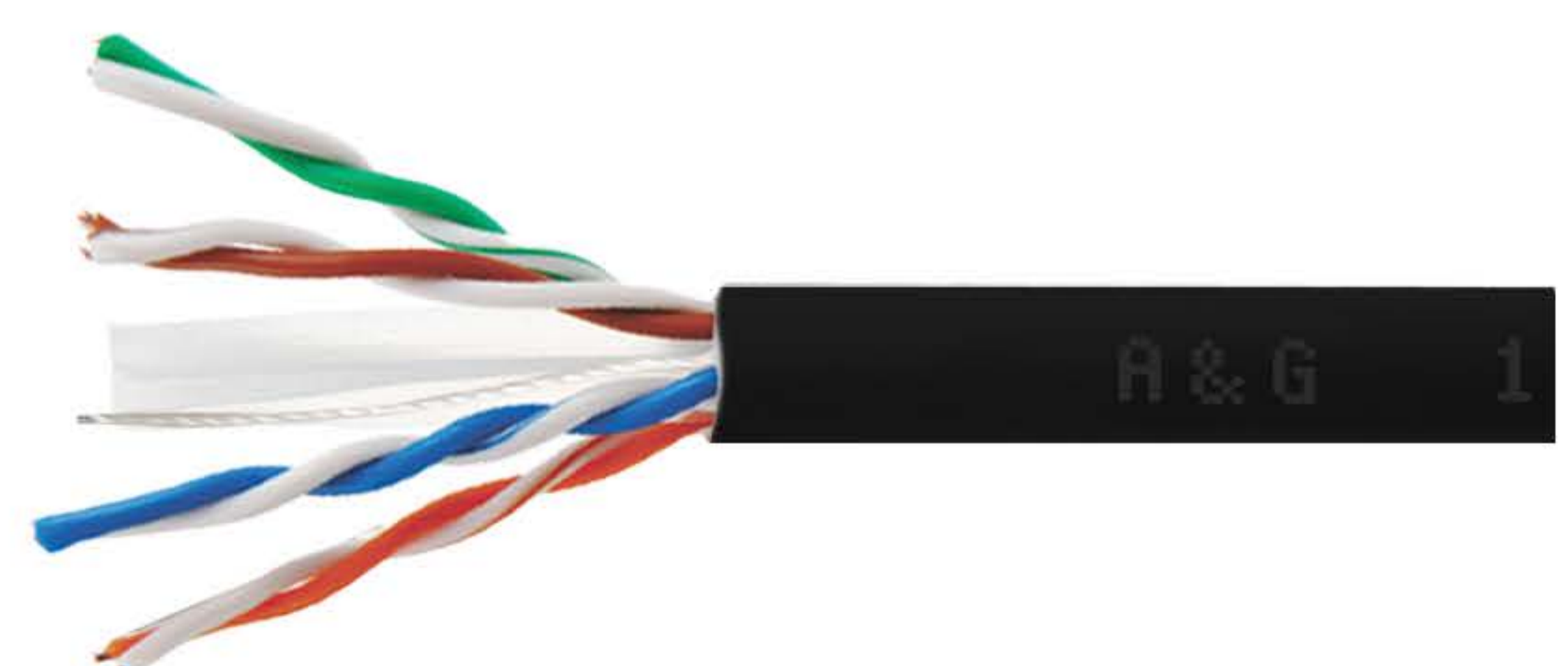
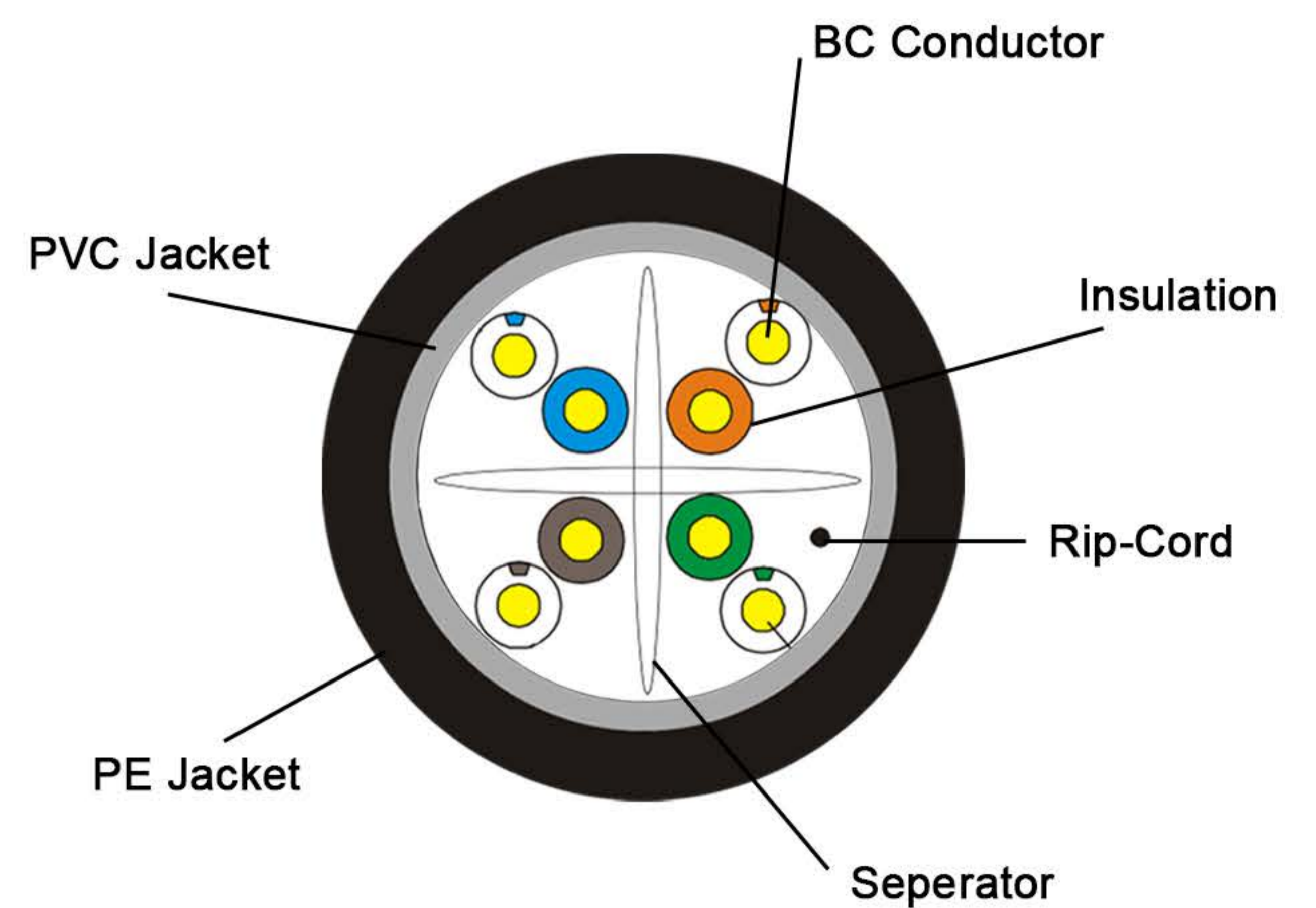
- 10/100/1000Base T
- Telecommunications
- LAN
- Premise Wiring

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
- 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



PRODUCT TECHNICAL SPECIFICATION | CAT 6 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°C to $+50^\circ\text{C}$
- Operating Temperature: -20°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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