

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/IEC11801
- ANSI/TIA-568.2-D
- IEC 61156-5
- EN 50288-6-1
- EN 60332-1-2
- EN 13501-6:2014
- IEEE 802.3bt Level 3 & Level 4

Applications

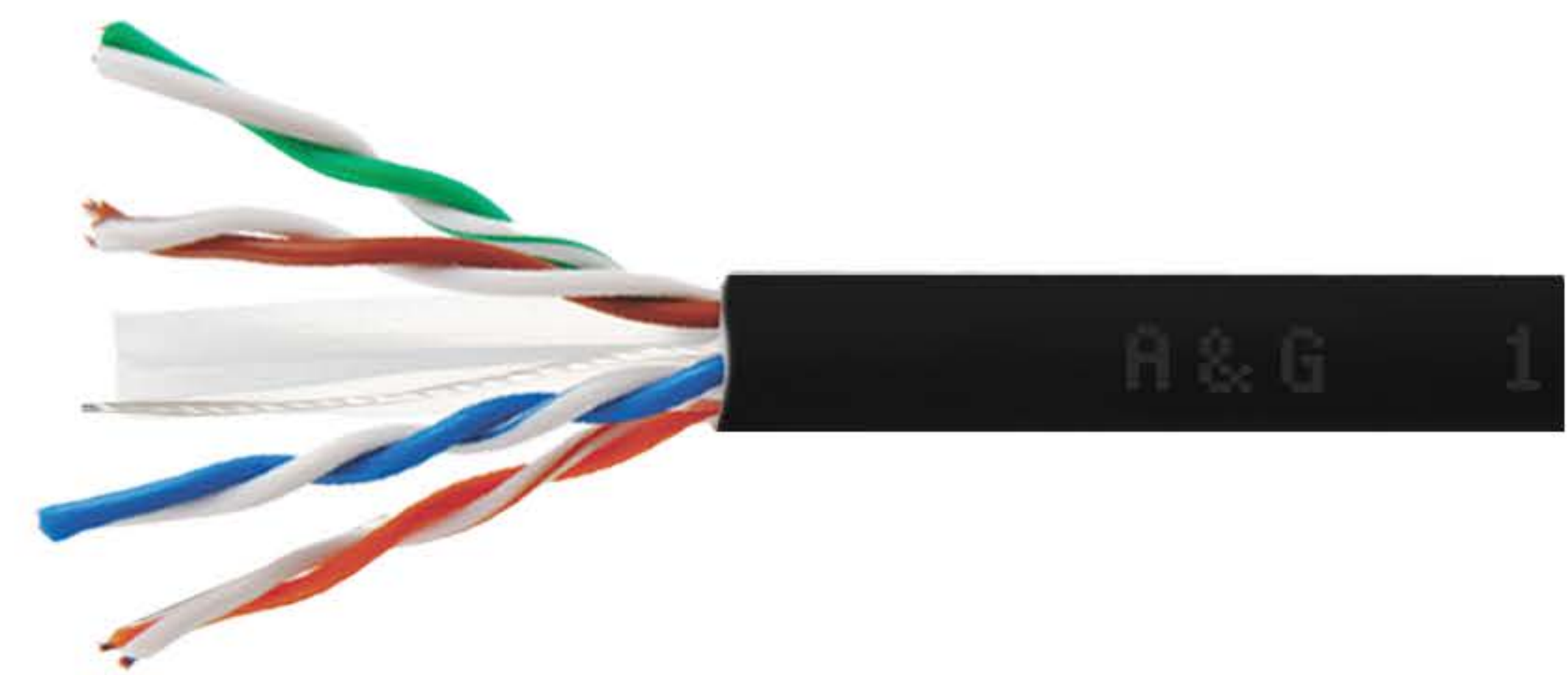
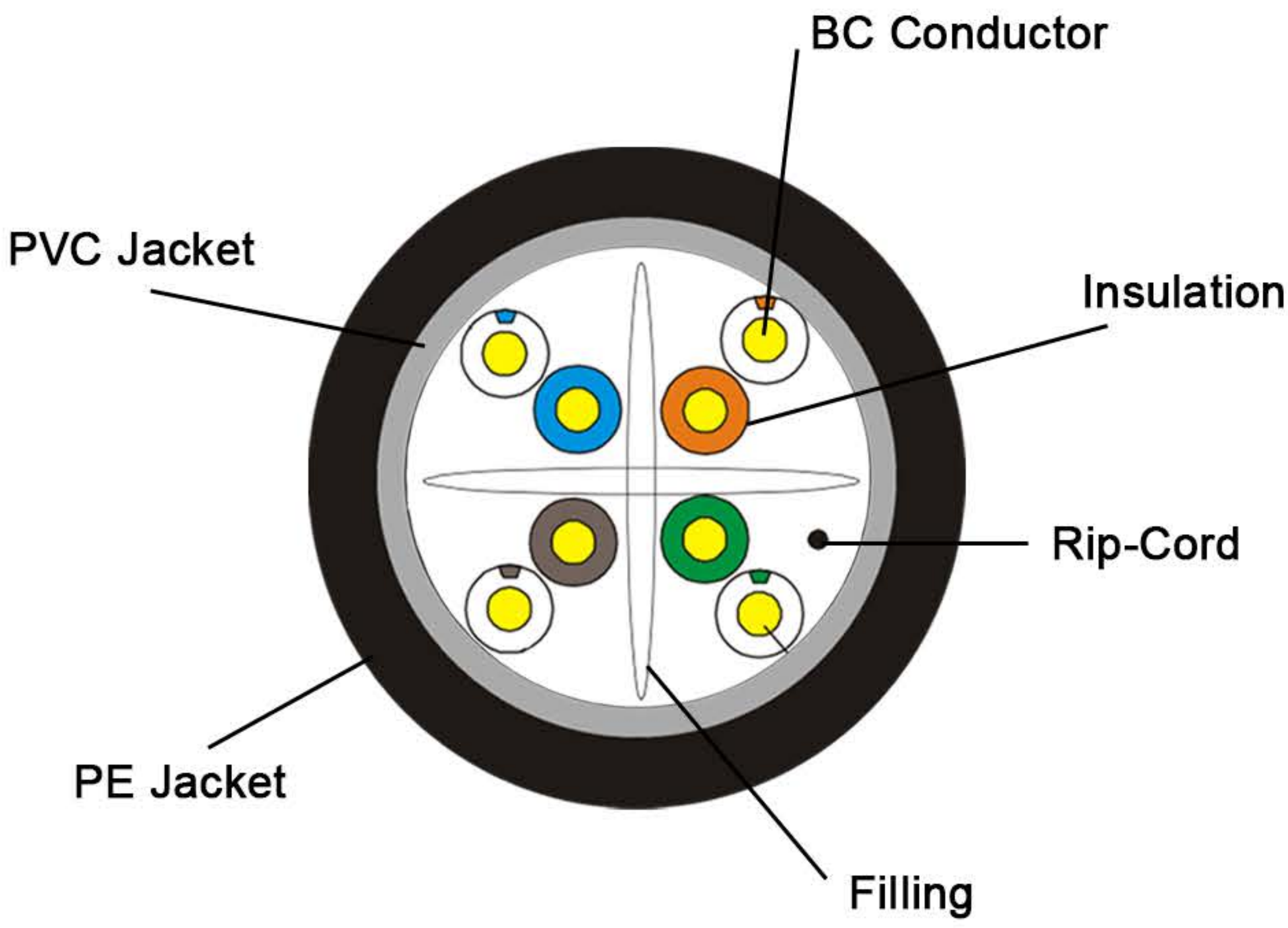
- 10/100/1000Base T
- Telecommunications
- LAN
- Premise Wiring

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 ± 15 Ω
- Delay Skew: ≤45 ns/100m
- DC Resistance: ≤9.5 Ω/100m
- DC Conductor Resistance Unbalance: ≤5.0%

Sheath Physical Properties:

- Before Aging: Tensile Strength: ≥10.0 MPa, Elongation: ≥350%
- Aging Period: 100°C × 24h × 10d
- After Aging: Elongation: ≥300%
- Cold Bend: No visible cracks at -20 ± 2°C × 4h
- 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	2.03	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) ≥	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