

CAT 6 F/UTP CABLE PVC+PE SHEATH

108-61004

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Overview

- Category: CAT6
- Sheath Printing: TBD
- Construction Type: F/UTP (Foiled Unshielded Twisted Pair)
- Suitable for structured cabling systems, networking applications, and environments requiring high-performance data transmission.

Industry Standard

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

Applications

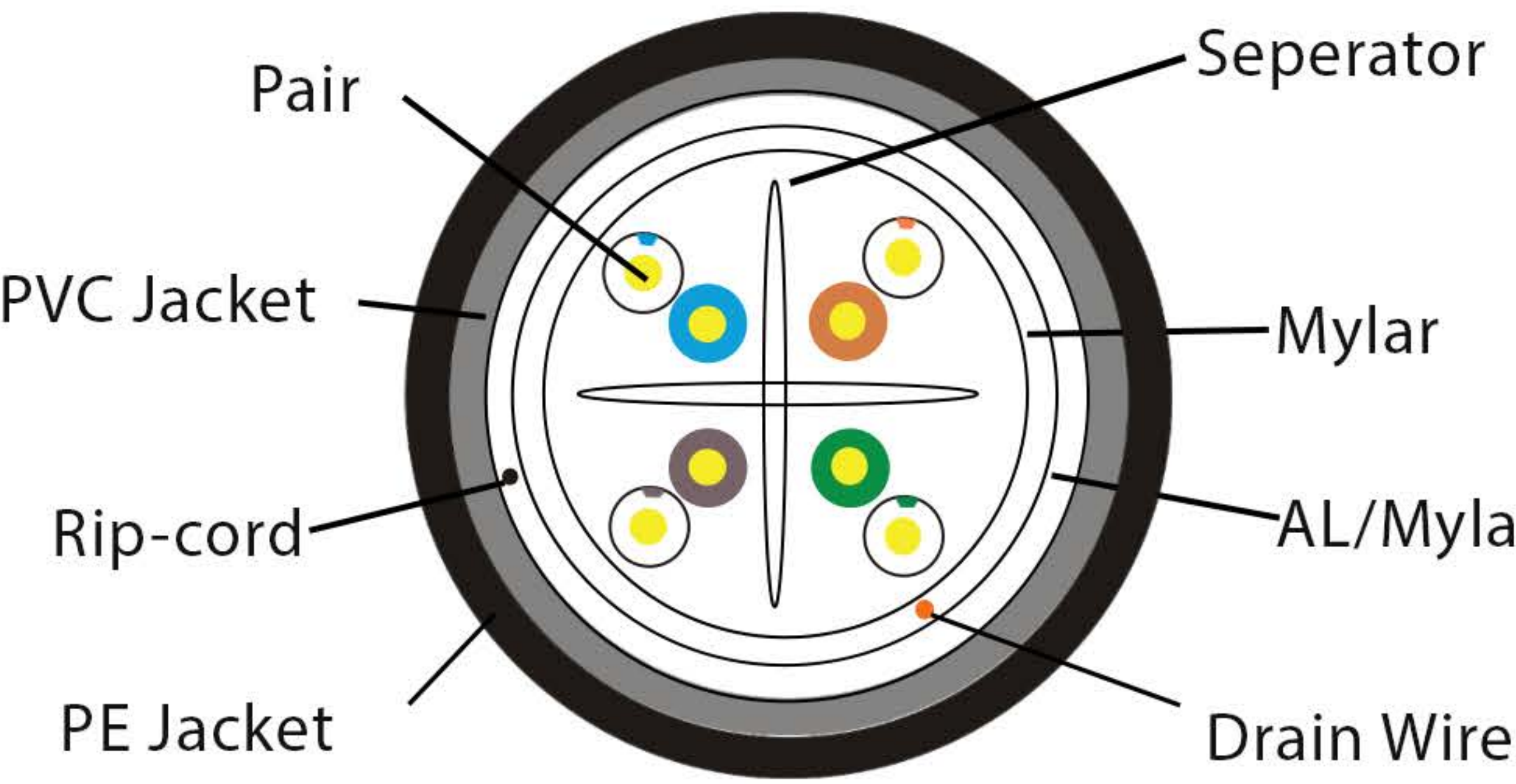
- 10/100/1000Base T
 - Telecommunications
- LAN
 - Premise Wiring

Ordering Information

Part Number	Description
108-61004	CAT 6 F/UTP CABLE PVC+PE SHEATH

General Information

- Conductor Material: Solid Bare Copper
- Nominal Outer Diameter of Conductor: 0.520mm
(up +0.005mm, down -0.005mm)
- Insulation Material: HDPE (High-Density Polyethylene)
- Insulation Diameter: 1.05 ± 0.05mm
- Screening Material: Mylar + Al/Mylar
- Inner Jacket Material: PVC
- Inner Jacket Outer Diameter: 6.9mm (nominal)
- Inner Jacket Thickness: 0.6 ± 0.05mm
- Outer Sheath Material: LDPE (Low-Density Polyethylene)
- Outer Sheath Color: Black
- Outer Sheath Diameter: 8.2 ± 0.5mm
- Core Color Code:
 1. White-Blue/Blue
 2. White-Orange/Orange
 3. White-Green/Green
 4. White-Brown/Brown
- Surface Printing: Letter Height: 3.0 ± 0.3mm, Color: White, Print Error & Space: ≤ ±0.5%
- Packing: Wooden Tray & Carton
- Packing Length: 305 ± 1.5m



PRODUCT TECHNICAL SPECIFICATION | CAT 6 F/UTP CABLE PVC+PE SHEATH

Product Electrical Characteristics:

- Impedance: 100 ± 15 Ω (1.0-250.0MHz)
- Delay Skew: ≤45 ns/100m (1.0-250.0MHz)
- Unbalanced-to-ground Capacitance: ≤330 pf/100m (max)
- DC Resistance: ≤9.5 Ω/100m (20°C)
- DC Conductor Resistance Unbalance: ≤5.0%

Sheath Physical Properties:

- Tensile Strength Before Aging: ≥10.0 Mpa
- Elongation Before Aging: ≥350%
- Aging Period: 100°C × 24h × 10d
- Elongation After Aging: ≥300%
- Cold Bend: -20 ± 2°C × 4h, 8 × Cable Outer Diameter,
No Visible Cracks
- Installation Temperature: 0°C to +50°C
- Operating Temperature: -20°C to +60°C

Technical Performance (100m)

Frequency (MHz)	RL (≥dB)	Attenuation (≤dB)	NEXT (≥dB)	Delay (≤ns)
1.0	20.0	--	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