

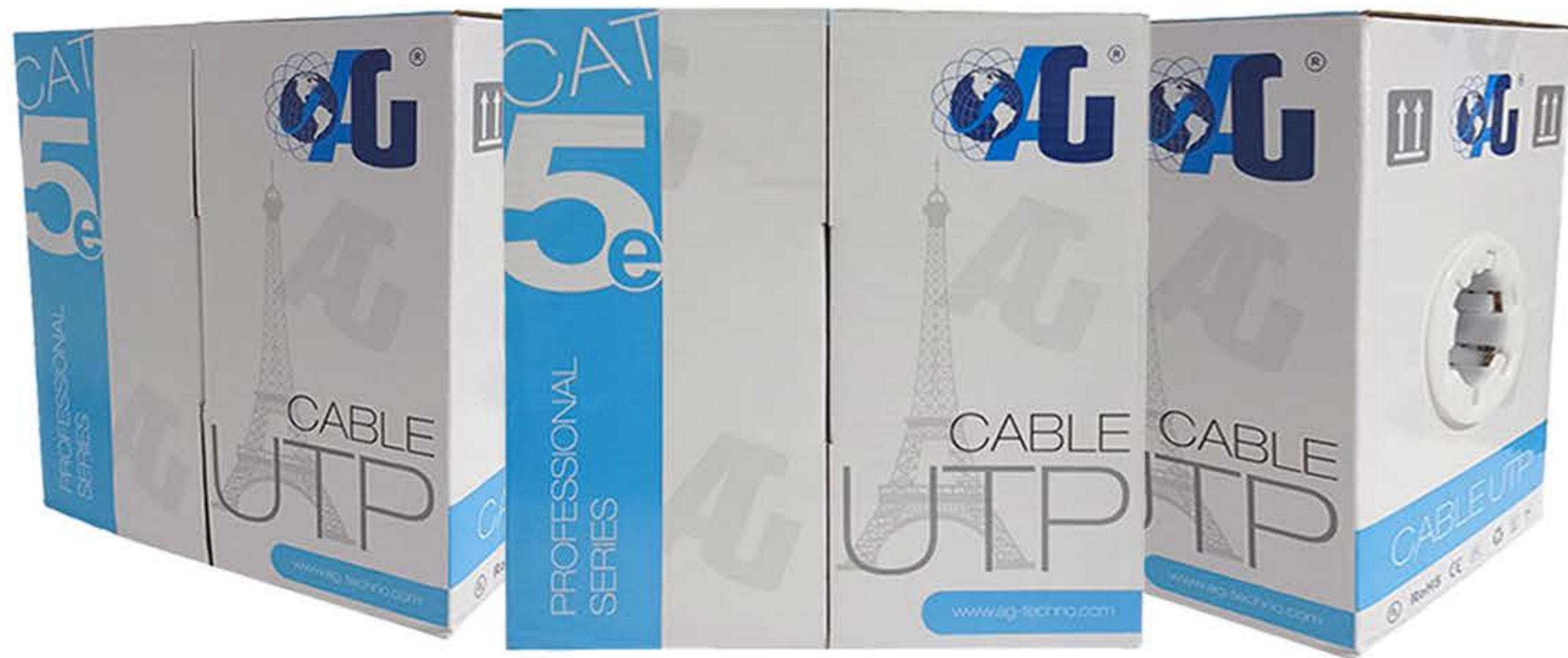
CAT 5e UTP CABLE

108-51001

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Overview

- CAT. 5e UTP Cable designed for Ethernet networking applications.
- Suitable for indoor network installations.
- Category: U/UTP CAT5E-4P-PVC-CM.
- Ideal for ResidentialNetworking, Commercial Networking and Industrial Networking.

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

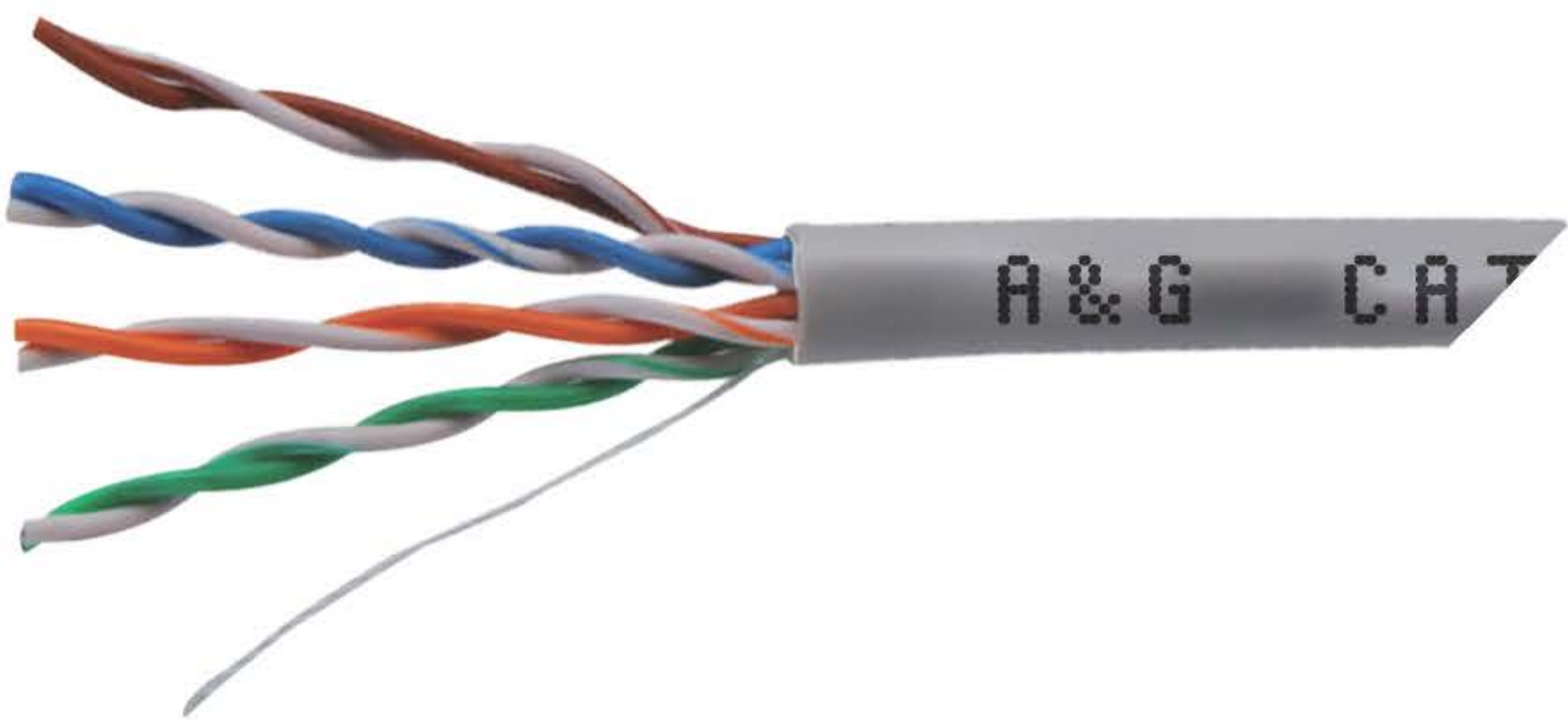
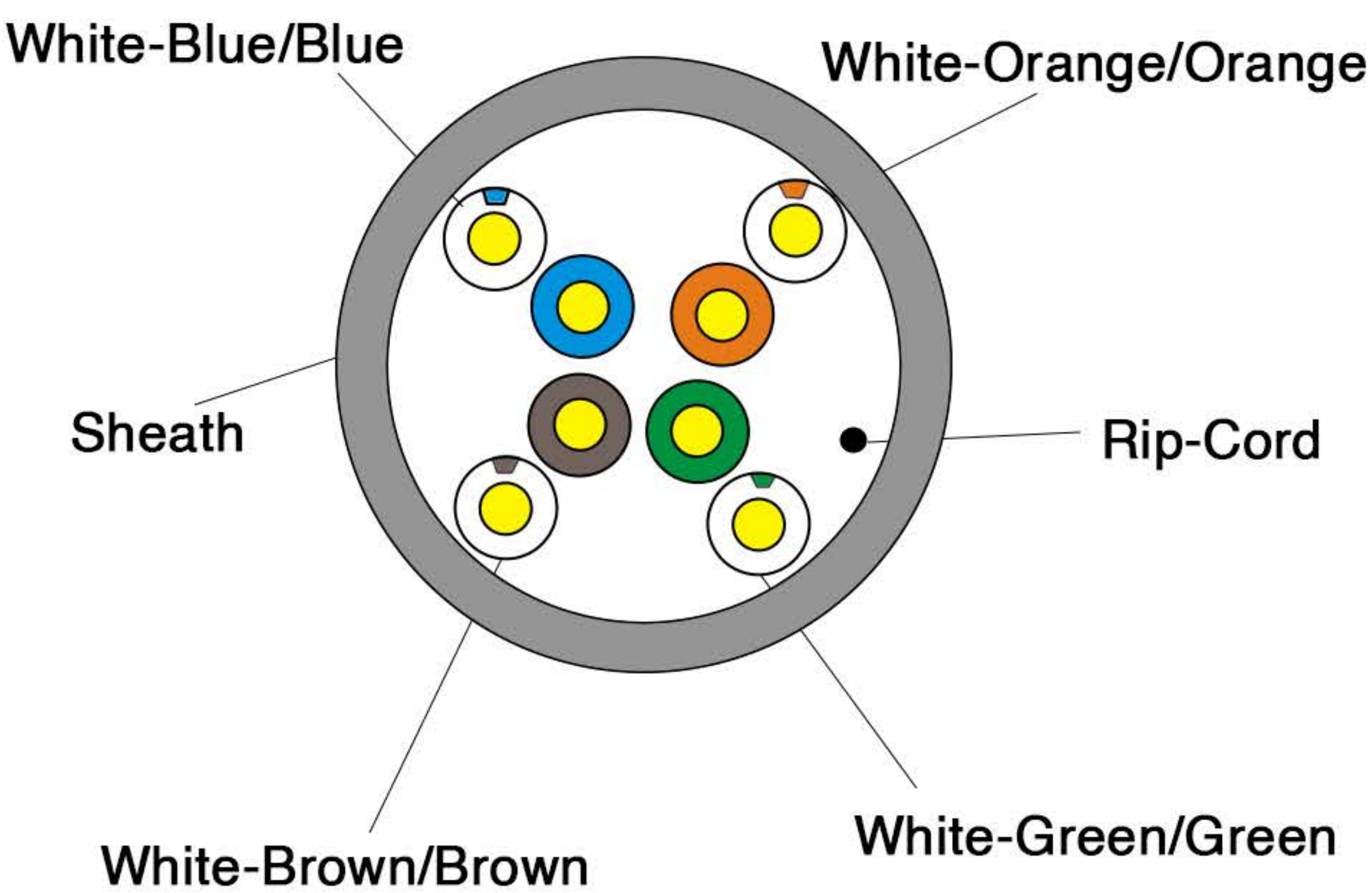
- 100BASE –T Ethernet (IEEE 802.3)
- 10BASE –T (IEEE 802.3)
- 16Mbps Token Ring (IEEE 802.5)
- 100VG- AnyLAN (IEEE 802. 12)
- Voice; T1; ISDN
- 155/622Mbps ATM
- 1000Mbps Gigabit Ethernet
- 550MHz Broadband Video

Ordering Information

Part Number	Description
108-51001	CAT. 5e UTP CABLE 305M BOX

General Information

- Conductor Material: Solid-Bare Copper
- Conductor Nominal Outer Diameter: 0.490mm
- Insulation Material: HDPE
- Insulation Diameter: 0.87±0.05mm
- Core Color:
 1. White- Blue / Blue
 2. White-Orange / Orange
 3. White- Green / Green
 4. White- Brown / Brown
- Jacket Material: PVC(complies RoHS),CM
- Jacket Thickness: 0.50±0.05 mm
- Jacket Surface: Clean, Frap, Satiation
- Jacket Diameter: 5.0±0.4 mm
- Jacket Color: Gray
- Rip Cord: Yes
- Drain Wire: No
- Packing: Wooden Tray & Carton, Packing length (305±1.5)m



PRODUCT TECHNICAL SPECIFICATION | CAT 5e UTP CABLE

Product Electrical Characteristics:

- Impedance(Ω): 100 $\pm$ 15 (1.0-100MHz)
- Delay Skew (ns/100m): $\leq$ 45 (1.0-100MHz)
- DC Resistance(Ω /100m) max: 9.5
- DC Conductor Resistance Unbalance (%) max: 5.0

Sheath Physical Properties:

- Before Aging: Tensile Strength (Mpa) $\geq$ 13.5,
Elongation (%) $\geq$ 150
- After Aging (100°Cx24hx7d): Tensile Strength (Mpa) $\geq$ 12.5,
Elongation (%) $\geq$ 125
- Cold bend (-20 $\pm$ 2°Cx4h): 8xCable O.D. No visible cracks
- Installation Temperature: 0°C to +50°C
- Operating Temperature: -20°C to +60°C

Technical Performance (100m)

Frequency (MHz)	RL ($\geq$ dB)	Attenuation ($\leq$ dB)	NEXT ($\geq$ dB)	Delay ($\leq$ ns)
1.0	20.0	2.0	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