

UltraFine Patch Cord

CD-UFP-C6A-XX XXX



Experience the Future of Connectivity

The UltraFine Advantage

In an era where data speed and integrity are paramount, **CableDoc** is proud to unveil the **UltraFine** Patch Cord a revolutionary leap in networking technology designed for those who demand nothing but the best. Engineered with precision, our latest offering promises an unmatched blend of performance, durability, and flexibility, setting a new benchmark in the realm of connectivity solutions.

- **Cat6A Compliance:** Ready for the most demanding networks.
- **PoE++ Support:** Power your devices directly through the cable.
- **Unbreakable Latch:** Durable design that ensures longevity.
- **100% Copper:** For unbeatable performance.
- **Lighting Speed:** 2.5 / 5 / 10 Gbps for all your needs.
- **Extreme Flexibility:** With a slim 3.8 mm outer diameter.
- **Flame Retardant:** LSZH jacket for enhanced safety.
- **Superior Shielding:** Say goodbye to alien crosstalk and interference.
- **Special biodegradable packaging:** Finally, no more exaggerated mountains of plastic at the installation site.
- **Warranty:** An entire patch cable life

Technical Description

- **Category:** CAT6A EA.
- **Connector:** RJ45 - IEC 60603-7.
- **Shielding:** U/FTP.
- **Conductor:** 32AWG(7*0.08mm) 100% Copper.
- **Jacket:** LSZH.
- **Diameter:** 3.8 mm.
- **Operating Temperature:** -20°C to +60°C.
- **Packaging:** Single.
- **Colors:** 
- **Lengths:** 0.1cm / 0.25cm / 0.5cm / 1m / 2m / 3m / 5m / 7m.
- **P/N:** CD-UFP-C6A-XX(Color) XXX(Lenght).
Example: CD-UFP-C6A-WH 001.

Special confections available on request.

CableDoc

CableDoc The **Doc** for your healthy IT network.

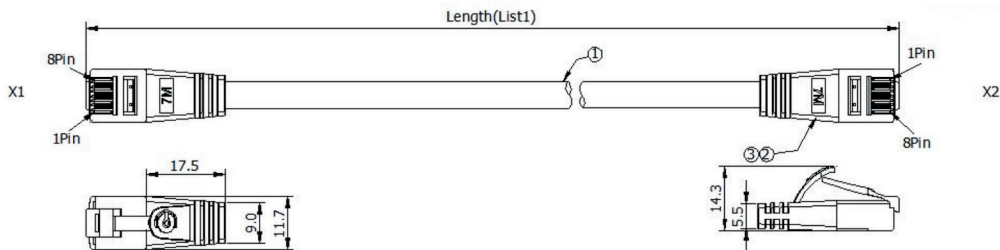
At CableDoc, we don't just offer products and services; we provide tailored solutions rooted in decades of industry expertise. As a brand, we stand on the pillars of reliability, solution-oriented thinking, competency, and a service-oriented approach. These aren't just words; they're the essence of who we are and how we operate.

Technical Datasheet

Applications

Supports 10,100,1000BASE-T and 10GBASE-T application
 Compliant with IEEE 802.3bt Type 4 (high power PoE++)
 Supports transmission frequencies up to 500MHz
 The very thin outer diameter is suitable for higher density wiring

Description



schematic representation

Length & ID

Length

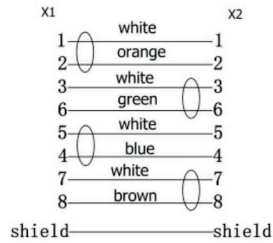
Length	Tolerance	Part No.	Description.
100	-0/+20	CD-UFP-C6A-XX 001	XX represents Color.
250	-0/+20	CD-UFP-C6A-XX 0025	
500	-0/+20	CD-UFP-C6A-XX 005	
1000	-0/+20	CD-UFP-C6A-XX 01	
1500	-5/+20	CD-UFP-C6A-XX 015	
2000	-10/+30	CD-UFP-C6A-XX 02	
3000	-20/+30	CD-UFP-C6A-XX 03	
5000	-20/+30	CD-UFP-C6A-XX 05	
7000	-20/+30	CD-UFP-C6A-XX 07	

Composition

1. U/FTP Category6A, 32AWG stranded 100% copper conductor, Skin-foam-skin PE insulation, LSZH jacket
2. Shielded RJ45 crystal connector
3. TPE environmental material

Technical Datasheet

WireMap



(T568B-T568B)

Transmission Performance:

ISO11801 Channel Class EA (PoE++) & TIA Cat6A Channel (PoE++) Test passed
(tested with Fluke Tester)

Reference Standard:

ANSI/TIA-568.2-D, ISO/IEC 11801-1, IEC 60603-7

Composition:

ANSI/TIA-568.2-D, ISO/IEC 11801-1, IEC 60603-7

Environmental Protection Requirements

RoHS & REACH

Connector Parameters

Housing: Nylon

Shell: Brass, Nickel plating 80u"

Contacts: Brass, 3 prongs

Clad Layer: Gold plating 50u"

Operation Temperature: -20°C / +60°C

Contact Resistance: <20M Ω

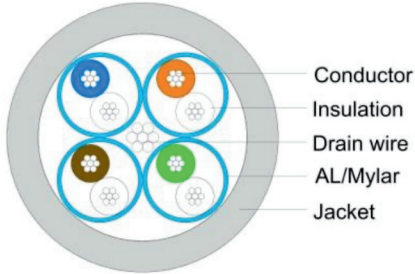
Insulation Resistance: 500M Ω

Voltage Proof: 1000V AC/1 minute no breakdown

Durability: min. 750 cycles

Technical Datasheet

Cable Section Diagram



Conductor Insulation	32AWG(7*0.08mm) Stranded 100% copper conductor HDPE
	OD: 0.64 ± 0.05mm Color: 1. White, Blue 2. White, Orange 3. White, Green 4. White, Brown
Individual screen Jacket	AL/Mylar, coverage ≥120% LSZH Color: Grey, White, OD: 3.8±0.15mm Cable Marking: CableDoc UltraFine Patch Cable U/FTP 4x2x32AWG/7 Cat6A LSZH YYYY Note: YYYY means year

Technical Datasheet

Electrical data 20°C

Characteristic Impedance: 100 ohm

Conductor DC resistance: ≤ 55.3 ohm/100m @20°C

Dielectric Strength: DC1KV for 1min (conductor to conductor, conductor to screen)

Insulation Resistance: $\geq 5000M \Omega$ km

Frequency MHz	ATT dB Max.	RL dB Min.	NEXT dB Min.	PSNEXT dB Min.	ACRF dB Min.	PSACRF dB Min.
1.00	3.0	19.0	65.0	62.0	63.3	60.3
4.00	4.2	19.0	63.0	60.5	51.2	48.2
8.00	5.8	19.0	58.2	55.6	45.2	42.2
10.00	6.5	19.0	56.6	54.0	43.3	40.3
16.00	8.2	18.0	53.2	50.6	39.2	36.2
20.00	9.2	17.5	51.6	49.0	37.2	34.2
25.00	10.2	17.0	50.0	47.3	35.3	32.3
31.25	11.5	16.5	48.4	45.7	33.4	30.4
62.50	16.4	14.0	43.4	40.6	27.3	24.3
100.00	20.9	12.0	39.9	37.1	23.3	20.3
200.00	30.1	9.0	34.8	31.9	17.2	14.2
250.00	33.9	8.0	33.1	30.2	15.3	12.3
300.00	37.4	7.2	31.7	28.8	13.7	10.7
400.00	43.7	6.0	28.7	25.8	11.2	8.2
500.00	49.3	6.0	26.1	23.2	9.3	6.3

Note: Category 6A channel test extreme length 20m.

Mechanical Data

Operating temperature: -20°C / +60°C

Before Aging:

Tensile Strength: ≥ 10.0 Mpa

Elongation: $\geq 125\%$

After Aging: (100 *24h*7d Aging period)

Tensile Strength: ≥ 8 Mpa

Elongation: $\geq 100\%$

Min bending radius: Fixed: 6×OD

Flame resistance: IEC 60332-1-2, FT2

Halogen free: IEC 60754-1, IEC 60754-2



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