

# 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.

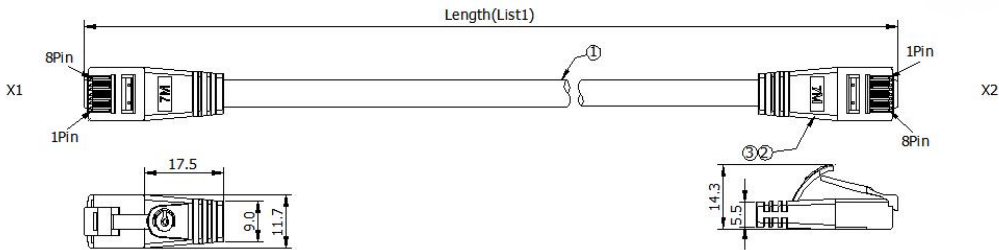
At CableDoc, we don't just offer products and services; we provide tailored solutions rooted in decades of industry expertise. As a brand, we stand on the pillars of reliability, solution-oriented thinking, competency, and a service-oriented approach. These aren't just words; they're the essence of who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

# Technical Datasheet

Applications

- Supports 10,100,1000BASE-T and 10GBASE-T application
- Compliant with IEEE 802.3at PoE
- Supports transmission frequencies up to 500MHz
- The very thin outer diameter is suitable for higher density wiring

Description



schematic representation

Length & ID

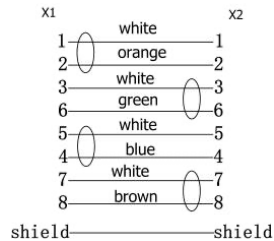
| Length |           |                    |                      |
|--------|-----------|--------------------|----------------------|
| Length | Tolerance | Part No.           | Description.         |
| 100    | -0/+20    | CD-UFP-C6A-XX 001  | XX represents Color. |
| 250    | -0/+20    | CD-UFP-C6A-XX 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 HDPE insulation, LSZH jacket
- 2.Shielded RJ45 crystal connector
- 3.TPE environmental material

# Technical Datasheet

WireMap



(T568B-T568B)

## Transmission Performance:

ISO11801 Channel Class EA (+ALL) Tests 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  $\Omega$

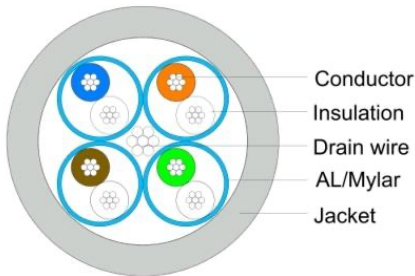
Insulation Resistance: 500M  $\Omega$

Voltage Proof: 1000V AC/1 minute no breakdown

Durability: min. 750 cycles

# Technical Datasheet

Cable Section Diagram



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

# Technical Datasheet

## Electrical data 20°C

Characteristic Impedance: 100 ohm

Conductor DC resistance:  $\leq 55.3$  ohm/100m @20°C

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

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

| Frequency<br>MHz | ATT<br>dB<br>Max. | RL<br>dB<br>Min. | NEXT<br>dB<br>Min. | PSNEXT<br>dB<br>Min. | ACRF<br>dB<br>Min. | PSACRF<br>dB<br>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:  $\geq 10.0Mpa$

Elongation:  $\geq 125\%$

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

Tensile Strength:  $\geq 8Mpa$

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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