

CAT6A U/UTP

MicroConnect's CAT6A U/UTP Ethernet cables are constructed with pure copper strands and 26 AWG for exceptional performance and reliability. Designed without shields, these cables are ideal for environments with minimal electromagnetic interference (EMI). The outer jacket is made from LSZH (Low Smoke Zero Halogen) material, which ensures minimal smoke, toxic fumes, and no acid gases in the event of a fire. These cables also feature strain relief and latch protection to ensure a secure connection.

Available in various lengths and configurations, MicroConnect provides the perfect CAT6A Ethernet cable to meet your high-performance networking needs.

- ▶ Latch protection
- ▶ Strain relief
- ▶ Gold plated RJ45 connectors



A wide selection of lengths and colors



LENGTH	WHITE	GREY	BLACK	BLUE	PURPLE	RED	GREEN	ORANGE	YELLOW
0.15 m	–	MC-UTP6A001S	MC-UTP6A001SS	MC-UTP6A001SB	–	MC-UTP6A001SR	MC-UTP6A001SG	–	MC-UTP6A001SY
0.25 m	MC-UTP6A0025W	MC-UTP6A002S	MC-UTP6A002SS	MC-UTP6A002SB	MC-UTP6A002SP	MC-UTP6A002SR	MC-UTP6A002SG	MC-UTP6A002SO	MC-UTP6A002SY
0.3 m	–	MC-UTP6A003	MC-UTP6A003S	MC-UTP6A003B	–	MC-UTP6A003R	MC-UTP6A003G	–	MC-UTP6A003Y
0.5 m	MC-UTP6A005W	MC-UTP6A005	MC-UTP6A005S	MC-UTP6A005B	MC-UTP6A005P	MC-UTP6A005R	MC-UTP6A005G	MC-UTP6A005O	MC-UTP6A005Y
1 m	MC-UTP6A01W	MC-UTP6A01	MC-UTP6A01S	MC-UTP6A01B	MC-UTP6A01P	MC-UTP6A01R	MC-UTP6A01G	MC-UTP6A01O	MC-UTP6A01Y
1.5 m	MC-UTP6A015W	MC-UTP6A015	MC-UTP6A015S	MC-UTP6A015B	MC-UTP6A015P	MC-UTP6A015R	MC-UTP6A015G	MC-UTP6A015O	MC-UTP6A015Y
2 m	MC-UTP6A02W	MC-UTP6A02	MC-UTP6A02S	MC-UTP6A02B	MC-UTP6A02P	MC-UTP6A02R	MC-UTP6A02G	MC-UTP6A02O	MC-UTP6A02Y
3 m	MC-UTP6A03W	MC-UTP6A03	MC-UTP6A03S	MC-UTP6A03B	MC-UTP6A03P	MC-UTP6A03R	MC-UTP6A03G	MC-UTP6A03O	MC-UTP6A03Y
5 m	MC-UTP6A05W	MC-UTP6A05	MC-UTP6A05S	MC-UTP6A05B	MC-UTP6A05P	MC-UTP6A05R	MC-UTP6A05G	MC-UTP6A05O	MC-UTP6A05Y
7.5 m	MC-UTP6A075W	MC-UTP6A075	MC-UTP6A075S	MC-UTP6A075B	MC-UTP6A075P	MC-UTP6A075R	MC-UTP6A075G	MC-UTP6A075O	MC-UTP6A075Y
10 m	MC-UTP6A10W	MC-UTP6A10	MC-UTP6A10S	MC-UTP6A10B	MC-UTP6A10P	MC-UTP6A10R	MC-UTP6A10G	MC-UTP6A10O	MC-UTP6A10Y
15 m	MC-UTP6A15W	MC-UTP6A15	MC-UTP6A15S	MC-UTP6A15B	MC-UTP6A15P	MC-UTP6A15R	MC-UTP6A15G	MC-UTP6A15O	MC-UTP6A15Y
20 m	MC-UTP6A20W	MC-UTP6A20	MC-UTP6A20S	MC-UTP6A20B	MC-UTP6A20P	MC-UTP6A20R	MC-UTP6A20G	MC-UTP6A20O	MC-UTP6A20Y
30 m	–	MC-UTP6A30	–	–	MC-UTP6A30P	–	–	MC-UTP6A30O	–



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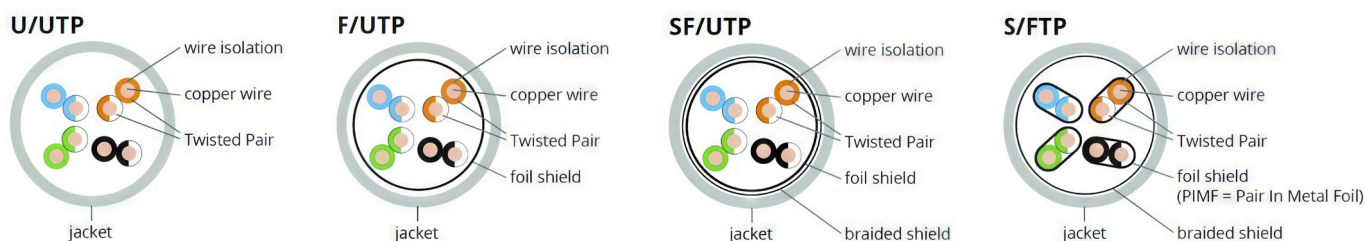
Twisted Pair Network Cables

MicroConnect network cables always consists of eight strands twisted into four pairs. The twisting of these pairs, along with an electronically conductive shield, minimizes the likelihood of cross-talk between neighboring conductors within the cable. This design also enhances the cable's resilience to interference from external magnetic fields, which can be generated by nearby electrical cables.



Jacket

MicroConnect offers three primary types of materials for network cable jackets: PVC (Polyvinyl Chloride), PE (Polyethylene), and LSZH, also known as LSOH (Low Smoke Zero Halogen). While PVC cables are softer, more flexible, and easier to handle, LSZH cables are firmer and less flexible due to their flame-retardant composition. The halogen-free jacket of LSZH cables does not emit dangerous gases, smoke, or acid in the event of a fire, making them increasingly essential in systems where protecting people and equipment from toxic and corrosive gases is critical. The PE jacket, on the other hand, is resistant to weathering and UV radiation, making it the preferred choice for outdoor cable systems.



Shielding

There are two primary types of network cables: shielded and unshielded. Unshielded cables typically offer lower transmission quality, especially at high data rates or over long distances. In contrast, shielded cables, often called twisted pairs, are wrapped in a foil screen that protects against electromagnetic interference (EMI). Understanding a cable's shielding is straightforward once knowing the naming convention. The first letter before the slash (/) indicates the shielding of the outer cable jacket: U (unshielded), F (foil shielded), S (braided shield), or SF (braided and foil shielded). The letter after the slash denotes the shielding of the twisted pairs (TP): U (unshielded), F (foil shielded), or S (braided shielded). For example, a U/UTP cable means an unshielded outer jacket with unshielded twisted pairs.

Categories

Twisted pair network cables are categorized into different standards based on their performance, which can be seen in the illustration to the right.

CATEGORY	MAX. DATA RATE	BANDWIDTH	APPLICATION
CAT 5e	1 Gbps	100 MHz	1 GBase-T
CAT 6	1 Gbps	250 MHz	1 GBase-T, 155-MBit-ATM, 622-MBit-ATM
CAT 6a	10 Gbps	500 MHz	10 GBase-T
CAT 7	10 Gbps	600 MHz	10 GBase-T
CAT 81	25 Gbps	2000 MHz	25 GBase-T