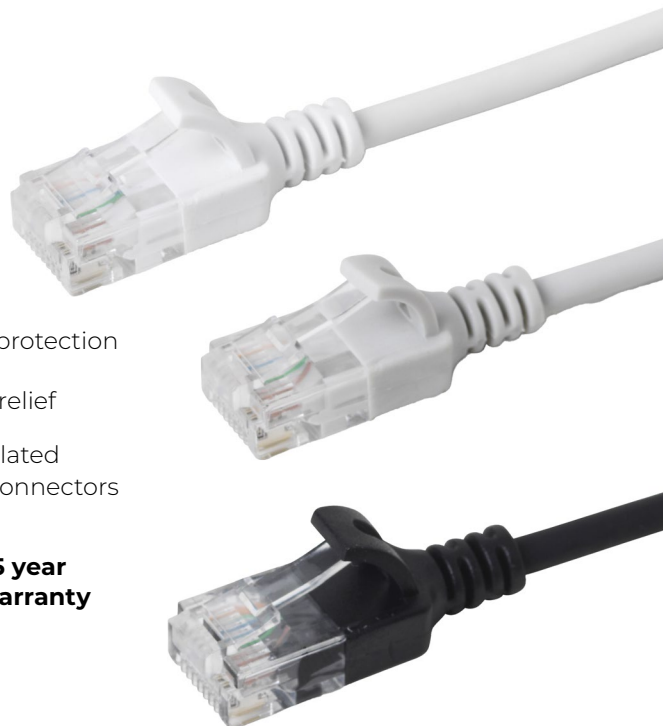


CAT6A U/UTP SLIM

MicroConnect's CAT6A U/UTP Slim Ethernet cables are constructed with pure copper strands for outstanding performance and reliability. The outer jacket is made from LSZH (Low Smoke Zero Halogen) material, ensuring minimal smoke, toxic fumes, and no acid gases in the event of a fire. With a 28 AWG, these cables are ideal for space-constrained environments like IT racks and cabinets. Their slim, highly flexible design enhances accessibility and simplifies installation, enabling faster and easier cable management. Additionally, their reduced size improves airflow, helping to minimize the risk of downtime and ensuring optimal network performance.

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



A wide selection of lengths and colors



LENGTH	WHITE	GREY	BLACK	BLUE	GREEN	RED	YELLOW
0.15 m	V-UTP6A0015W-SLIM	V-UTP6A0015-SLIM	V-UTP6A0015S-SLIM	–	–	–	–
0.2 m	–	–	–	V-UTP6A002B-SLIM	–	–	–
0.25 m	V-UTP6A0025W-SLIM	V-UTP6A0025-SLIM	V-UTP6A0025S-SLIM	V-UTP6A0025B-SLIM	V-UTP6A0025G-SLIM	V-UTP6A0025R-SLIM	V-UTP6A0025Y-SLIM
0.3 m	–	–	–	V-UTP6A003B-SLIM	–	–	–
0.5 m	V-UTP6A005W-SLIM	V-UTP6A005-SLIM	V-UTP6A005S-SLIM	V-UTP6A005B-SLIM	V-UTP6A005G-SLIM	V-UTP6A005R-SLIM	V-UTP6A005Y-SLIM
1 m	V-UTP6A01W-SLIM	V-UTP6A01-SLIM	V-UTP6A01S-SLIM	V-UTP6A01B-SLIM	V-UTP6A01G-SLIM	V-UTP6A01R-SLIM	V-UTP6A01Y-SLIM
1.5 m	V-UTP6A015W-SLIM	V-UTP6A015-SLIM	V-UTP6A015S-SLIM	V-UTP6A015B-SLIM	V-UTP6A015G-SLIM	V-UTP6A015R-SLIM	V-UTP6A015Y-SLIM
2 m	V-UTP6A02W-SLIM	V-UTP6A02-SLIM	V-UTP6A02S-SLIM	V-UTP6A02B-SLIM	V-UTP6A02G-SLIM	V-UTP6A02R-SLIM	V-UTP6A02Y-SLIM
3 m	V-UTP6A03W-SLIM	V-UTP6A03-SLIM	V-UTP6A03S-SLIM	V-UTP6A03B-SLIM	V-UTP6A03G-SLIM	V-UTP6A03R-SLIM	V-UTP6A03Y-SLIM
4 m	–	–	–	V-UTP6A04B-SLIM	–	–	–
5 m	V-UTP6A05W-SLIM	V-UTP6A05-SLIM	V-UTP6A05S-SLIM	V-UTP6A05B-SLIM	V-UTP6A05G-SLIM	V-UTP6A05R-SLIM	V-UTP6A05Y-SLIM
7.5 m	V-UTP6A075W-SLIM	V-UTP6A075-SLIM	V-UTP6A075S-SLIM	V-UTP6A075B-SLIM	V-UTP6A075G-SLIM	V-UTP6A075R-SLIM	V-UTP6A075Y-SLIM
10 m	V-UTP6A10W-SLIM	V-UTP6A10-SLIM	V-UTP6A10S-SLIM	V-UTP6A10B-SLIM	V-UTP6A10G-SLIM	V-UTP6A10R-SLIM	V-UTP6A10Y-SLIM
15 m	–	–	–	V-UTP6A15B-SLIM	–	–	–
20 m	–	–	–	V-UTP6A20B-SLIM	–	–	–



**Try our
cable guide**



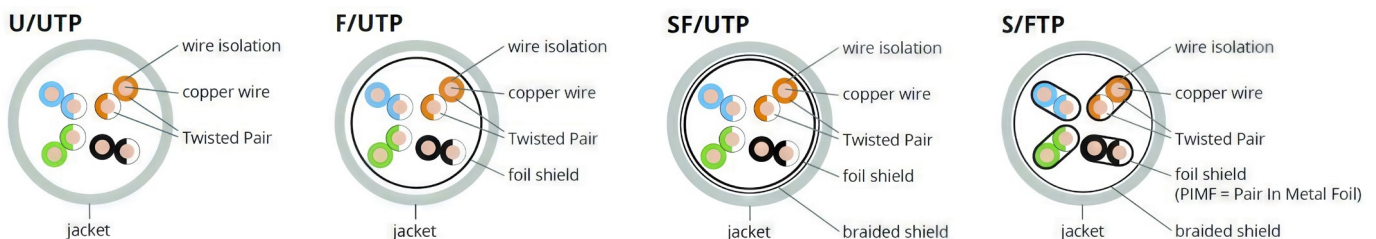
Twisted Pair Network Cables

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