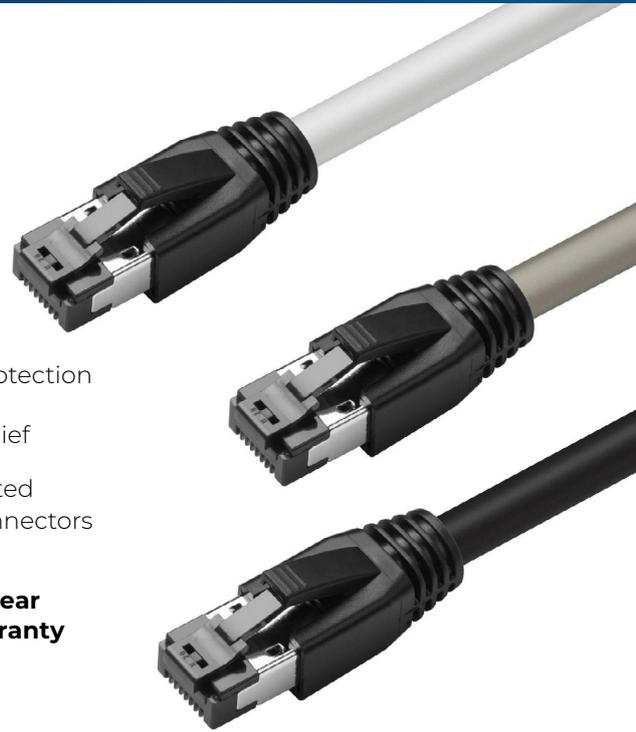


CAT8.1 SFTP CU

MicroConnect's CAT8.1 S/FTP CU Ethernet cables are built with pure copper strands and 24 AWG for exceptional performance and reliability. These cables are PoE++ compatible, supporting up to 60W power delivery to meet the demands of high-power devices. 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. Featuring a foil shield around each pair and an overall braided shield, they are ideal for environments with intense electromagnetic interference (EMI). Designed with strain relief and latch protection, these cables ensure a secure and stable connection. Available in various lengths and configurations, MicroConnect provides the ideal CAT8.1 Ethernet cable to meet your most demanding high-speed and power-over-Ethernet networking needs.

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



A wide selection of lengths and colors



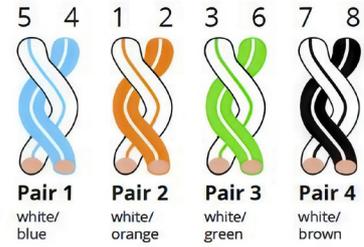
LENGTH	WHITE	GREY	BLACK	RED	GREEN	YELLOW
0.25 m	MC-SFTP80025W	MC-SFTP80025	MC-SFTP80025S	MC-SFTP80025R	MC-SFTP80025G	MC-SFTP80025Y
0.5 m	MC-SFTP8005W	MC-SFTP8005	MC-SFTP8005S	MC-SFTP8005R	MC-SFTP8005G	MC-SFTP8005Y
1 m	MC-SFTP801W	MC-SFTP801	MC-SFTP801S	MC-SFTP801R	MC-SFTP801G	MC-SFTP801Y
1.5 m	MC-SFTP8015W	MC-SFTP8015	MC-SFTP8015S	MC-SFTP8015R	MC-SFTP8015G	MC-SFTP8015Y
2 m	MC-SFTP802W	MC-SFTP802	MC-SFTP802S	MC-SFTP802R	MC-SFTP802G	MC-SFTP802Y
3 m	MC-SFTP803W	MC-SFTP803	MC-SFTP803S	MC-SFTP803R	MC-SFTP803G	MC-SFTP803Y
5 m	MC-SFTP805W	MC-SFTP805	MC-SFTP805S	MC-SFTP805R	MC-SFTP805G	MC-SFTP805Y
7.5 m	MC-SFTP8075W	MC-SFTP8075	MC-SFTP8075S	MC-SFTP8075R	MC-SFTP8075G	MC-SFTP8075Y
10 m	MC-SFTP8010W	MC-SFTP8010	MC-SFTP8010S	MC-SFTP8010R	MC-SFTP8010G	MC-SFTP8010Y



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.

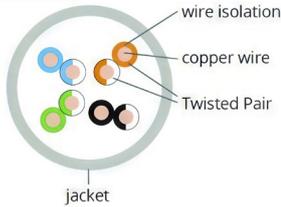


Jacket

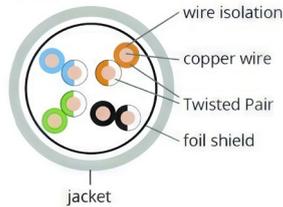
MicroConnect offers three primary types of materials for network cable jackets: PVC (Polyvinyl Chloride), PE (Polyethylene), and LSZH, also known as LSOH (Low Smoke Zero Halogen). While PVC cables are softer, more flexible, and easier to handle, LSZH cables are firmer and less flexible due to their flame-retardant 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.



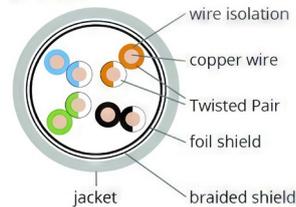
U/UTP



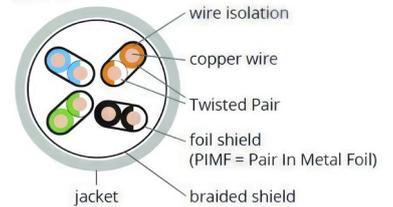
F/UTP



SF/UTP



S/FTP



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	BANDWITH	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