

CAT6 S/FTP CU

MicroConnect's CAT6 S/FTP CU Ethernet cables feature pure copper strands with 28 AWG, delivering high performance and reliable networking. The outer jacket is made from LSZH (Low Smoke Zero Halogen) material, which minimizes smoke, toxic fumes, and acid gases in the event of a fire. These cables include strain relief and latch protection to ensure a secure connection. Designed with a foil shield around each pair and an overall braided shield, they are ideal for environments with significant electromagnetic interference (EMI).

Available in various lengths and configurations, MicroConnect provides the perfect CAT6 Ethernet cable to meet your demanding network requirements.

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



A wide selection of lengths and colors



LENGTH	WHITE	GREY	BLACK	BLUE	PURPLE	RED	ORANGE	YELLOW
0.15 m	SSTP60015W	SSTP60015	SSTP60015S	SSTP60015B	SSTP60015P	SSTP60015R	SSTP60015O	SSTP60015Y
0.25 m	SSTP60025W	SSTP60025	SSTP60025S	SSTP60025B	SSTP60025P	SSTP60025R	SSTP60025O	SSTP60025Y
0.5 m	SSTP6005W	SSTP6005	SSTP6005S	SSTP6005B	SSTP6005P	SSTP6005R	SSTP6005O	SSTP6005Y
1 m	SSTP601W	SSTP601	SSTP601S	SSTP601B	SSTP601P	SSTP601R	SSTP601O	SSTP601Y
1.5 m	SSTP6015W	SSTP6015	SSTP6015S	SSTP6015B	–	SSTP6015R	SSTP6015O	SSTP6015Y
2 m	SSTP602W	SSTP602	SSTP602S	SSTP602B	SSTP602P	SSTP602R	SSTP602O	SSTP602Y
3 m	SSTP603W	SSTP603	SSTP603S	SSTP603B	SSTP603P	SSTP603R	SSTP603O	SSTP603Y
5 m	SSTP605W	SSTP605	SSTP605S	SSTP605B	SSTP605P	SSTP605R	SSTP605O	SSTP605Y
7 m	SSTP607W	SSTP607	SSTP607S	SSTP607B	SSTP607R	–	SSTP607O	SSTP607Y
10 m	–	SSTP610	SSTP610S	SSTP610B	SSTP610R	–	SSTP610O	SSTP610Y
15 m	SSTP615W	SSTP615	SSTP615S	SSTP615B	SSTP615P	SSTP615R	SSTP615O	SSTP615Y
20 m	SSTP620W	SSTP620	SSTP620S	SSTP620B	SSTP620P	SSTP620R	SSTP620O	SSTP620Y
25 m	SSTP625W	SSTP625	–	–	–	–	–	–
30 m	SSTP630W	SSTP630	–	–	–	–	–	–
50 m	SSTP650W	SSTP650	–	–	–	–	–	–

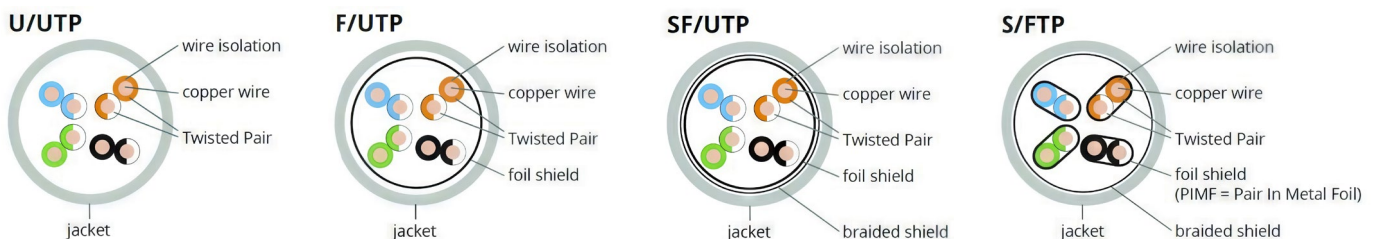
Twisted Pair Network Cables

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