



CAT5E SFTP (SF/UTP) OUTDOOR TWISTED PAIR 305M



## ABOUT PRODUCT

### SFTP Cat. 5e

SFTP Cat. 5e is most often used to build local networks, it includes **Fast Ethernet (100 Mb/s) and Gigabit Ethernet 1000 MB/s applications**. It is built with 4 pairs of twisted-pair cables, which eliminates mutual and electromagnetic interference. The cables are made of **pure copper** with a thickness of 24 AWG and protected by a PE sheath. The diameter of each cable with insulation is 0.97 mm. The cable is shielded with **aluminium foil and aluminium alloy braiding**. The packaging contains 305 meters of the cable.



### Key features

- SFTP Cat.5e cable
- Length 305 m
- PE coating
- Shielding - aluminium foil and aluminium alloy braiding
- The package contains a self-expanding roller
- Designed for outdoor usage



## High resistance and convenient installation

The **polyethylene PE coating has high mechanical strength** and high chemical resistance, it also has a gas barrier, making it ideal for outdoor applications. The packaging contains a **self-expanding roller**, which guarantees comfortable unwinding of the cable without the risk of entanglement.

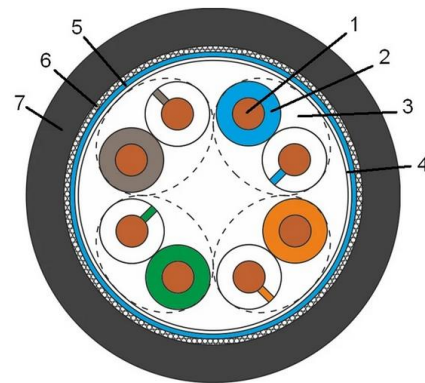


## Applications

The cable is designed for outdoor installation in telephone ducts, collectors, mines, on building walls and everywhere where there is a risk of increased electromagnetic discharges. The twisted-pair cable is also often used in CCTV installations, because one cable can transmit both the video signal from several cameras and supply them with power.

## Construction

- 1. copper wire -  $\varnothing$  0.48 mm
- 2. PE insulation -  $\varnothing$  1.0 mm
- 3. a pair of wires
- 4. film
- 5. Aluminium foil shielding - 18 mm wide
- 6. Shielding of aluminium alloy braided sleeving - 12 x 5 x 0.12 mm
- 7. Outer PE coating - 0.6 mm thick



Częstotliwość, MHz	1	4	10	16	20	31,25	62,5	100
Tłumienie, dB, max	2,1	4,1	6,5	8,3	9,3	11,7	17,0	22,0
NEXT, dB, min	65,3	56,2	50,3	47,2	45,7	42,8	38,3	35,3
PS NEXT, dB, min	62,3	53,2	47,3	44,2	42,7	39,8	35,3	32,3
ELFEXT, dB, min	64	51,9	44	39,9	37,9	34,1	28	24
PS ELFEXT, dB, min	61	48,9	41	36,9	34,9	31,1	25	21
RL, dB, min	20	23	25	25	25	23,6	21,5	20,1

## SPECIFICATION

### Features / filters

Cabel for assembly	Outside the building
Cable category	Cat.5e
Length	305m
Shielding type	SF/UTP
Cable top coat	PE
Cable type	Installation cables
Colour	Black

### Electrical specifications

Capacity	$\leq 56$ pF/m
DC resistance	$\leq 95$ Ohm/km
Insulation resistance	$\geq 5$ GOhm/km
Resistance imbalance	2 %
Signal propagation rate	0,65 s
Characteristic impedance in the 1-100 MHz frequency range	$100 \pm 15$ Ohm

### Mechanical characteristics

Temperature range during installation	From -15°C to 60°C
Temperature range after installation	From -50°C to 60°C
Bending radius during installation	$\geq 8$ cable diameters
Bending radius after installation	$\geq 4$ cable diameters
Tensile stress	$\leq 85$ N

### Compliance with standards

System	ISO/IEC 11801-1, EN 50173-1, ANSI/TIA-568-C.2
Cable	IEC 61156-5
CPR class	FCA