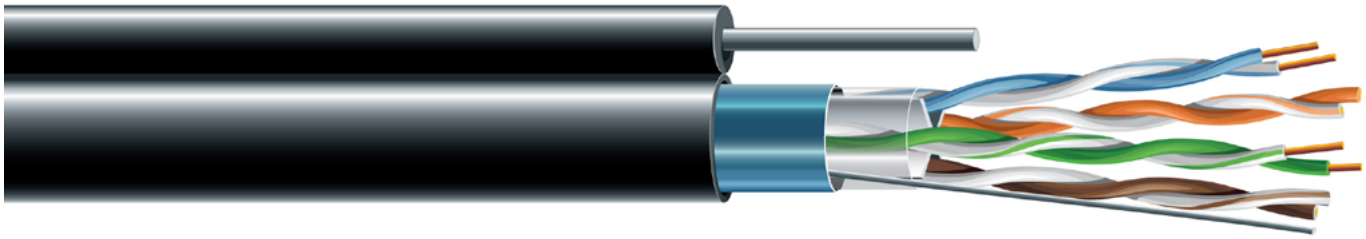
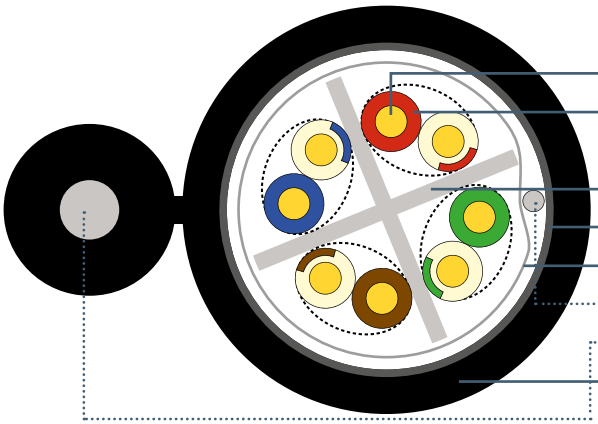
Cat.6 F/UTP PE 4x2x0,54 with Steel wire

Application

Multicore and symmetrical twisted pair cable for digital communications type **Cat. 6 F/UTP PE 4x2x0,54 with Steel wire** is designed for structured cabling networks with external laying on overhead lines. This cable type can operate at frequencies up to 250 MHz in conditions of increased electromagnetic action.





Cable structure

- **Conductive core**: 0,54 mm copper soft wire
- **Insulation**: HDPE polyethylene, colored marking of insulation
- **Cross divider**
- **Screen**: Al-Pet tape min. 100% coverage
- **Pet tape** min. 100% coverage
- A **tinned copper contact wire**, Ø 26 AWG
- **Steel wire**: 1,2 mm
- **Sheath**: PE RAL 9011 Black

Standards

ISO/IEC 11801-1, IEC 61156-5
EN 50288-5-1
ANSI EIA/TIA 568.2-D

Specifications

Temperature range: fixed.....-20°C...+60°C
flexing.....0°C...+50°C
Tensile strength.....max. 100 N
Conductor resistance.....max. 85 Ω/km
Resistance imbalance.....max. 2%
Insulation resistance.....min. 5000 MΩ x km
Capacitance.....max. 56 pF/m
Capacity imbalance.....max. 1600 pF/km
Velocity of propagation.....67-69%
Propagation delay.....max. 537 ns/100 m
Signal delay.....max. 45 ns/100m
Test voltage.....1000 V
Operating voltage.....max. 72 V
TCL min. «Level 2»
Coupling attenuation «Type II»
Transfer impedance «Class 2»

Fre-quency, MHz	Attenuation [dB/100 m]	NEXT [dB]	PS-NEXT [dB]	ACR [dB/100 m]	PS-ACR [dB/100 m]	ACR-F [dB/100 m]	PS-ACR-F [dB/100 m]	RL [dB]
	max.	min.	min.	min.	min.	min.	min.	min.
1*	2.1	75,3	72,3	73,2	70,2	68	65	20
4	3,8	66,3	63,3	62,4	59,4	56	53	23
10	6,0	60,3	57,3	54,3	51,3	48	45	25
16	7,6	57,2	54,2	49,6	46,6	43,9	40,9	25
31.25	10,7	52,9	49,9	42,1	39,1	38,1	35,1	23,6
62.50	15,5	48,4	45,4	32,9	29,9	32,1	29,1	21,5
100	19,9	45,3	42,3	25,4	22,4	28	25	20,1
250	33,0	39,3	36,3	6,3	3,3	20	17	17,3

**Values up to 4 MHz are for general information*

Cable structure	Dimention, mm nom	Cable weigh, kg/km, approx.	Sheath color	Packaging, m
Cat. 6 F/UTP PE 4x2x0,54 with Steel wire	7,0 x 11,4	60	Black	305/500/1000