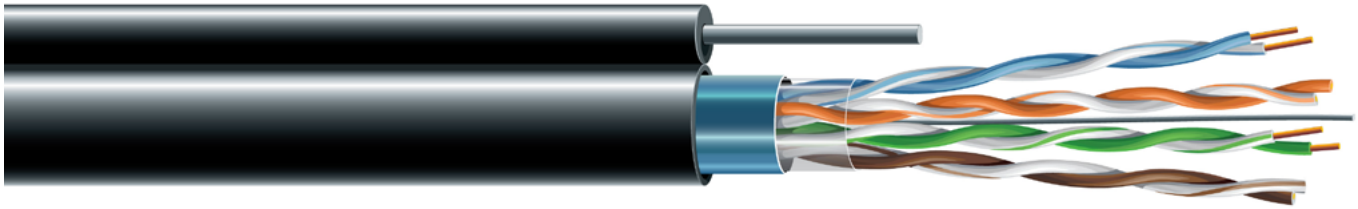
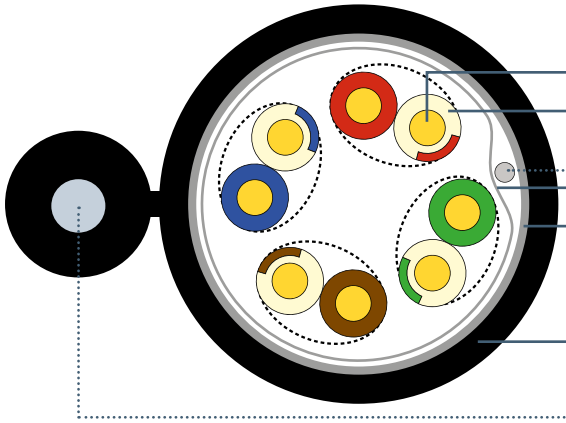
Cat.5e F/UTP PE 4x2x24 AWG with Steel wire

Application

Multicore and symmetrical twisted pair cable for digital communications type **Cat. 5e F/UTP 4x2x24AWG PE with steel wire** is designed for structured cabling networks with external laying on overhead lines. This cable type can operate at frequencies up to 100 MHz in conditions of increased electromagnetic action.





Cable structure

- **Conductive core:** 24 AWG copper soft wire
- **Insulation:** HDPE polyethylene, colored marking of insulation
- **PET tape**
- **Screen:** Al-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 50288-2-1
ANSI EIA/TIA 568.2-D

Specifications

Temperature range: fixed.....-20°C...+60°C
flexing.....0°C...+50°C
Crushing strength.....min. 1000 N/10 cm
Impact strength.....min. 10 impacts
Conductor resistance.....max. 95 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»

Frequency [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	65,3	62,3	63,2	60,2	64,0	61,0	20
4	4,1	56,3	53,3	52,2	49,2	52,0	49,0	23
10	6,5	50,3	47,3	43,8	40,8	44,0	41,0	25
16	8,3	47,2	44,2	39,0	36,0	39,9	36,9	25
31.25	11,7	42,9	39,9	31,1	28,1	34,1	31,1	23,6
62.50	17,0	38,4	35,4	21,4	18,4	28,1	25,1	21,5
100	22,0	35,3	32,3	13,3	10,3	24.0	21,0	20,1

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

Cable structure	Dimension, mm nom	Cable weigh, kg/km, approx.	Sheath color	Packaging, m
Cat. 5e F/UTP 4x2x24AWG PE with steel wire	10,6x6,0	53	Black	305/500/1000