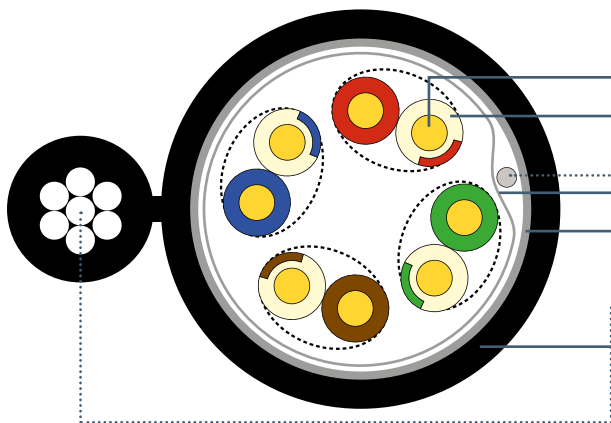
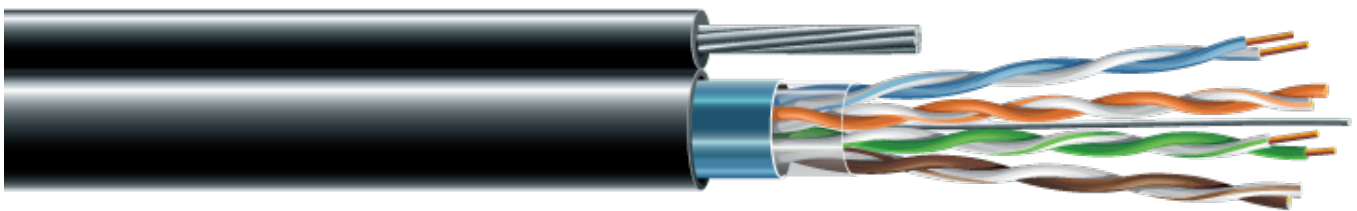


Cat.5e F/UTP PE 4x2x24 AWG with Steel cord

Application

Multicore and symmetrical twisted pair cable for digital communications type **Cat. 5e F/UTP 4x2x24AWG PE with steel cord** 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 cord:** 7x0,5 mm (Ø 1,5 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 |
| Tensile strength..... | max. 1200 N |
| 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 cord | 10,6x6,0 | 53 | Black | 305/500/1000 |