Cat.5e F/UTP PVC, LSZH, PE 4x2x0,46

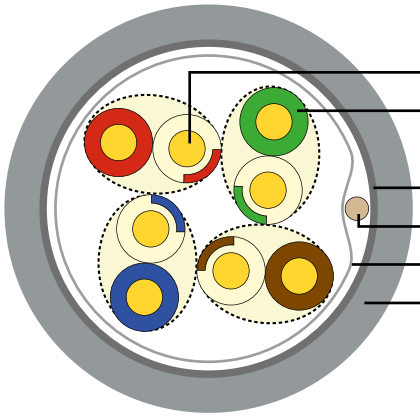
Application

Multicore and symmetrical twisted pair cable for digital communications:

• Type **Cat. 5e F/UTP 4x2x0,46** is designed for structured cabling networks with single laying inside buildings, constructions and equipment. This cable type can operate at frequencies up to 100 MHz in conditions of increased electromagnetic action;

• Type **Cat. 5e F/UTP 4x2x0,46 LSZH** is designed for structured cabling networks with single laying and laying in bundles inside buildings, constructions and equipment. This cable type can operate at frequencies up to 100 MHz in conditions of increased electromagnetic action and where low smoke emission is required;

• Type **Cat. 5e F/UTP 4x2x0,46 PE** is designed for structured cabling networks with external laying along the walls of buildings, constructions, in mines and collectors. This cable type can operate at frequencies up to 100 MHz in conditions of increased electromagnetic action.



Cable structure

- **Conductor**: Copper wire 0,46 mm
- **Insulation**: HDPE in compliance with TIA 568 insulation colour coding
- **Screen**: Al-Pet tape min. 100% coverage
- A **tinned copper drain wire**, Ø 26AWG
- **Pet tape** min. 100% coverage
- **Sheath**:

LSZH/LS0H RAL 2003 Orange
PVC RAL 7001 Grey
PE RAL 9011 Black

Specifications

Temperature range: fixed.....-20°C...+60°C
flexing.....0°C...+50°C
Bending radius: fixed.....min. 4 x D
flexing.....min. 8 x D
Tensile strength.....max. 85 N
Crushing strength.....min. 1000 N/10 cm
Impact strength.....min. 10 impacts
Conductor resistance.....max. 110 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/100 m
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	2,4	65,3	62,3	62,9	59,9	64,0	61,0	20,0
4	4,8	56,3	53,3	51,5	48,5	52,0	49,0	23,0
10	7,7	50,3	47,3	42,6	39,6	44,0	41,0	25,0
16	9,9	47,2	44,2	37,3	34,3	39,9	36,9	25,0
20	11,1	45,8	42,8	34,7	31,7	38,0	35,0	25,0
31.25	14,0	42,9	39,9	28,9	25,9	34,1	31,1	23,6
62.50	20,1	38,4	35,4	18,3	15,3	28,1	25,1	21,5
100	26,0	35,3	32,3	9,3	6,3	24,0	21,0	20,1

Cable structure	Diameter, mm nom	Cable weigh, kg/km, approx.	Sheath color	Packaging, m	CPR
Cat.5e F/UTP 4x2x0,46	5,4	35	Grey	305/500/1000	Eca
Cat.5e F/UTP 4x2x0,46 LSZH	5,4	36	Orange	305/500/1000	Dca
Cat.5e F/UTP 4x2x0,46 PE	5,4	30	Black	305/500/1000	Fca