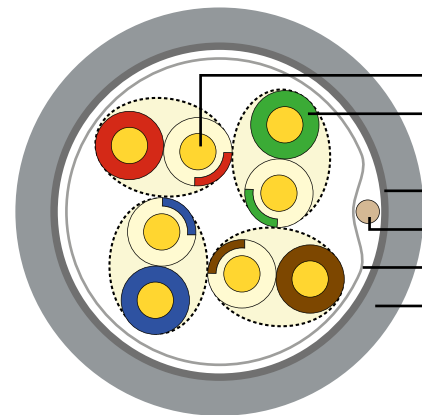


Cat.5e F/UTP PVC 4x2x24 AWG



Application

This data cable range is designed for analogue and digital signal transmission in audio, video and data applications in data communication systems supporting 100 MHz, 1.0 Gbit/s 1 Gigabit Ethernet.



Cable structure

- **Conductor:** Copper wire 24 AWG
- **Insulation:** HDPE in compliance with TIA 568 insulation colour coding
- **Screen:** Pet tape min. 100% coverage
- **A tinned copper drain wire, Ø 26AWG**
- **Al-Pet tape** min. 100% coverage
- **Sheath:** PVC RAL 7035 Grey

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
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. 95 Ω/km
Resistance imbalance.....max. 2%
Insulation resistance.....min. 5000 MΩ x m
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	2,1	65,3	62,3	63,2	60,2	64,0	61,0	20,0
4	4,1	56,3	53,3	52,2	49,2	52,0	49,0	23,0
10	6,5	50,3	47,3	43,8	40,8	44,0	41,0	25,0
16	8,3	47,2	44,2	39,0	36,0	39,9	36,9	25,0
20	9,3	45,8	42,8	36,5	33,5	38,0	35,0	25,0
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

Cable structure	Diameter, mm nom	Cable weigh, kg/km, approx.	Sheath color	Packaging, m	CPR
Cat.5e F/UTP 4x2x24 AWG	5,9	40	Grey	100/305/500	ECA