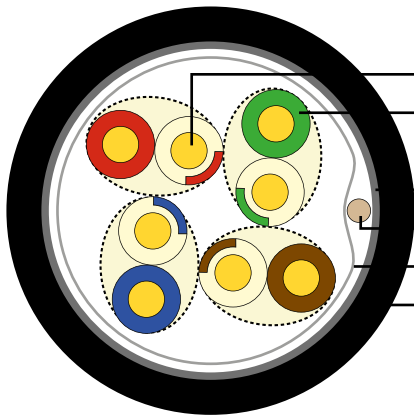


# Cat.5e F/UTP PE 4x2x24 AWG



## 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:**  
PE RAL 9011 Black

## Standards

ISO/IEC 11801-1, IEC 61156-5  
EN 50288-2-1  
ANSI EIA/TIA 568.2-D



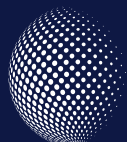
**DATAWAY**

## 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 PE	5,9	35	Black	100/305/500	FCA



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