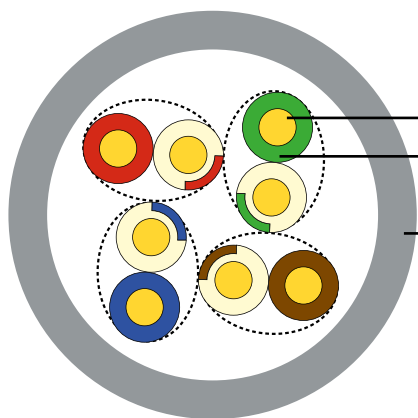


Cat.5e U/UTP 4x2x0.46

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 0.46 mm
- **Insulation:** HDPE in compliance with TIA 568 insulation colour coding
- **Sheath:** PVC RAL 7001 Grey

Standards

ISO/IEC 11801-1, IEC 61156-5
EN 50288-3-1
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. 110 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

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	11,2	45,8	42,8	34,6	31,6	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
Cat.5e U/UTP 4x2x0.46	4,7	27	Grey	305/500/1000