

Datasheet

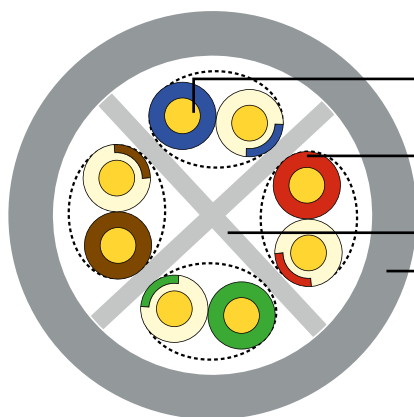
Cat.6 U/UTP, PVC, 4x2x23 AWG



Application

Multicore and symmetrical twisted pair cable for digital communications:

• Type **Cat. 6 U/UTP 4x2x23 AWG** is designed for structured cabling networks with single laying inside buildings, constructions and equipment. This cable type can operate at frequencies up to 350 MHz.



Cable structure

- **Conductive core:**
23 AWG copper soft wire
- **Insulation:** HDPE polyethylene, colored marking of insulation
- **Cross divider**
- **Sheath:**
PVC RAL 7001 Grey

Standards

ISO/IEC 11801-1,
IEC 61156-5 EN 50288-6-1
ANSI EIA/TIA 568.2-D

Specifications

Datasheet

Cat.6 U/UTP, PVC, 4x2x23 AWG

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. 100 N
Crushing strength.....	min. 1000 N/10 cm
Impact strength.....	min. 10 impacts
Conductor resistance.....	max. 85 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

Fre- quency, 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	75,3	72,3	73,2	70,2	68	65	20
4	3,8	66,3	63,3	62,4	59,4	56	53	23
10	6.0	60,3	57,3	54,3	51,3	48	45	25
16	7,6	57,2	54,2	49,6	46,6	43,9	40,9	25
31.25	10,7	52,9	49,9	42,1	39,1	38,1	35,1	23,6
62.50	15.5	48,4	45,4	32,9	29,9	32,1	29,1	21,5
100	19,9	45,3	42,3	25,4	22,4	28	25	20,1
250	33,0	39,3	36,3	6,3	3,3	20	17	17,3
350*	40,0*	37,1*	34,1*	-	-	17,1*	14,1*	16,3*

*Values up to 4 MHz and for 350 MHz are for general information

Cable structure	Diameter, mm nom	Cable weigh, kg/km, approx.	Sheath color	Packaging, m	CPR
Cat. 6 U/UTP 4x2x23 AWG	6,2	40	Grey	305	Eca