

**data cable - category 6a - U/UTP - 500 MHz - C6AU/U**

- category 6 augmented - acc. to DIN IEC 61156-5
- U/UTP (unshielded pairs)
- 4x 2x 0.57 mm (AWG 23/1) - 100 Ohm

PVC

Unshielded data transmission cable for the frequency range up to 500 MHz. Easy to install. Suitable for IEEE 802.3 10/100/1000/10GBase-T, FDDI, broadband, video, ISDN, ATM.

construction

conductor solid bare copper wire, Ø 0.57 mm (AWG 23/1)
 core insulation polyethylene (PE)
 core stranding 2 cores twisted to a pair
 twisting within PE-Cross
 overall diameter 7.2 mm

electric

conductor resistance < 75 Ω/km
 insulation resistance 5 GΩ x km
 operating capacity 50 nF/km
 characteristic impedance 100 Ω ± 0.15%
 signal speed 0.68 c

properties

min. bending radius
 installation operation
 temperature range
 installation operation
 flame retardancy

8x overall diameter
 4x outer diameter

-20°C / +60°C
 ±0°C / +50°C
 acc. to IEC 60332-1

Frequency [MHz]	attenuation [dB/100m]		Next [dB]		ACR [dB/100m]		EL-FEXT [dB/100m]		RL [db]	
	Typ.	MAX CAT6 _A	Typ.	MAX CAT6 _A	Typ.	MAX CAT6 _A	Typ.	MAX CAT6 _A	Typ.	MIN CAT6
1	1.7	2.0	82	66	80.3	64	75	66	22	-
4	3.5	3.6	75	65	71.5	61	67	58	25	23.1
10	5.5	5.7	68	59	62.5	53	58	50	28	25.0
16	6.9	7.2	65	56	58.1	49	54	46	28	25.0
20	7.7	8.1	63	55	55.3	47	52	44	28	25.0
100	17.5	18.5	51	44	33.5	25	38	30	28	20.1
155	22.0	23.4	49	41	27.0	16	35	26	25	18.8
200	25.0	26.8	47	40	22.0	12	32	24	24	18.0
300	32.0	33.3	44	37	13.0	3	29	20	21	16.8
500	39.8	44.1	40	-	0.2	-	25	16	18	15.2

order code	outer jacket	colour	weight k	standard lengths m
C6AUUEY	PVC	grey	0.05	100 / 300 / 500