



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, \varnothing 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	8x overall diameter
temperature range	4x outer diameter
installation operation	-20°C / +60°C
flame retardancy	±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 kg	standard lengths m
C6AUUEY	PVC	grey	0,05	100 / 300 / 500

technical specifications are subject to change