

**CAT6A data cable****AWG 23/1 - U/FTP - 500 MHz - FRNC Dca**

- 4 x 2 x 0.57 mm (AWG 23/1) - 100 Ohm
- U/FTP (foil shielded twisted pairs)
- category 6 augmented - acc. to DIN IEC 61156-5
- flame retardant and non-corrosive
- CPR class Dca - s2, d2, a1 acc. to EN50575

FRNC

Dca

Data cable for analogue and digital signal transmission in the frequency range up to 500 MHz. It is designed for primary (campus), secondary (riser) and tertiary (horizontal) wiring. Suitable for IEEE 802.3 10/100/1000/10GBase-T, FDDI, broadband, video, ISDN, ATM, PoE.

**design**

conductor	solid bare copper wire, $\varnothing$ 0.57 mm (AWG 23/1)
core insulation	Foam-Skin PE
core stranding	2 cores twisted to a pair
twisting	4 pairs twisted
pair shielding	AL/PET foil
overall diameter	7.3 mm

**electric**

conductor resistance	< 75 $\Omega$ /km
insulation resistance	> 5 $\Omega$ x km
mutual capacitance	45 nF/km
characteristic impedance	100 $\Omega$ $\pm$ 15%
signal speed	0.78 c

**properties**

min. bending radius	8x overall diameter
installation operation	4x overall diameter
temperature range	
installation operation	-20°C / +60°C
flame retardancy	$\pm$ 0°C / +50°C
halogen-free	acc. to IEC 60332-1-2 und IEC 60332-3-24
smoke density	acc. to IEC 60754-1/2
	acc. to IEC 61034-2

frequency [MHz]	attenuation [dB/100m]		Next [dB]		ACR-N [dB] @ 100 m		ACR-F [dB] @ 100 m		RL [dB]	
	typical	CAT6 <sub>A</sub> MAX	typical	CAT6 <sub>A</sub> MIN	typical	CAT6 <sub>A</sub> MIN	typical	CAT6 <sub>A</sub> MIN	typical	CAT6 <sub>A</sub> MIN
1	1.9	2.1	100	75.3	98	73.2	103	68	24	-
10	5.6	5.9	100	60.3	94	54.4	98	48	30	25.0
100	17.8	19.1	98	45.3	80	26.2	80	28	30	20.1
200	25.1	27.6	93	40.8	68	13.2	72	22	28	18.0
250	28.9	31.1	90	39.3	60	8.3	71	20	27	17.3
300	31.0	34.3	88	38.1	57	3.9	70	18.5	26	17.3
500	41.8	45.3	83	34.8	41	-10.4	62	14	23	17.3

order code	type	outer jacket	cable color	weight kg/m	standard lengths m
C6AUFEH-D	U/FTP	FRNC	orange	0.05	100 / 300 / 500

technical specifications are subject to change