

data cable - category 6_A - U/FTP - 500 MHz - FRNC Dca

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

Dca

FRNC

4 pairs

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.

construction

conductor	solid bare copper wire, Ø 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 Ω/km
insulation resistance	5 GΩ x km
operating capacity	45 nF/km
characteristic impedance	100 Ω ± 0.15%
signal speed	0.78 c

properties

min. bending radius	8x overall diameter
installation	4x outer diameter
operation	
temperature range	
installation	-20°C / +60°C
operation	±0°C / +50°C
flame retardancy	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.	MIN CAT6 _A	Typ.	MIN CAT6 _A	Typ.	MIN CAT6 _A	Typ.	MIN CAT6
1	1.9	2.1	100	75.3	78	73.2	103	68	30	-
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	outer jacket	colour	weight kg/m	standard lengths m
C6AUFEH-D	FRNC	orange	0,054	100 / 300 / 500

technical specifications are subject to change