

**data cable - category 7_A - S/FTP - AWG 22/1 - 1200 MHz - FRNC Dca**

- category 7 augmented - acc. to draft DIN IEC 61156-5:2008
- S/FTP (overall braid shield + foil shielded twisted pairs)
- 4 x 2 x AWG 22/1 - 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 1200 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, Multimedia, PoE.

construction

conductor	solid bare copper wire, AWG 22/1
core insulation	Foam-Skin PE
core stranding	2 cores twisted to a pair
twisting	4 pairs twisted
pair shielding	AL/PET foil
overall shield	tinned copper braid
outer jacket	FRNC
overall diameter	8.0 mm

electric

conductor resistance	< 65 Ω/km
insulation resistance	5 GΩ x km
operating capacity	45 nF/km
characteristic impedance	100 Ω ± 0.15%
transfer impedance at 10 Mhz	< 5 mΩ/m
screening attenuation	> 85 dB
signal speed	0.79 c

properties

min. bending radius	10x outer diameter
installation operation	5x overall diameter
temperature range	-20°C / +60°C*
installation operation	±0°C / +50°C
flame retardancy	acc. to IEC 60332-1 and IEC 60332-3
halogen-free	acc. to IEC 60754-2
smoke density	acc. to IEC 61034

Frequency [MHz]	attenuation [dB/100m]		Next [dB]		ACR [dB/100m]		EL-FEXT [dB/100m]		RL [dB]	
	Typ.	MAX CAT7 _A	Next [dB]	MINCAT7 _A	Typ.	MINCAT7 _A	Typ.	MINCAT7 _A	Typ.	MINCAT7 _A
1	1.7	2.1	105	78	103	75.9	105	78	25	20
4	3.2	3.7	105	78	102	74.3	103	78	28	23
10	5.1	5.8	105	78	100	72.2	100	75.3	30	25
20	7.1	8.2	105	78	98	69.8	95	69.3	30	25
31.25	9.0	10.3	105	78	96	67.7	93	65.4	30	23.6
62.5	13.1	14.6	105	78	92	63.4	90	59.4	30	21.5
100	16.5	18.5	102	75.4	86	56.9	85	55.3	30	20.1
155	21.5	23.2	100	72.5	78	49.3	82	51.5	29	18.8
200	23.5	26.5	98	70.9	75	44.4	78	49.3	28	18
300	29.1	32.7	96	68.2	67	35.6	70	45.8	27	17.3
500	37.0	42.8	91	64.9	54	22.2	63	41.3	26	17.3
600	41.5	47.1	88	63.7	47	16.6	60	39.7	25	17.3
1000	55.9	61.9	78	60.4	22	-1.5	52	35.3	21	15.1
1200	60.8	-	76	-	15	-	42	-	19	-

order code	outer jacket	colour	weight kg/m	standard lengths m
C7A12EH-D	FRNC	yellow	0,067	100 / 300 / 500

technical specifications are subject to change