



**CAT5e data cable**

**AWG 24/1 - SF/UTP - FRNC Dca**

- SF/UTP (overall foil + braid shield)
- 4 x 2 x 0,52 mm (AWG 24/1) - solid conductors
- flame retardant and non corrosive (FRNC)
- CPR class Dca - s1, d1, a1 acc. to EN50575

**FRNC**

**Dca**

applications: Primary, Secondary and Tertiary cabling Category 5e acc. to ISO/ IEC 11801, EN 50173 and EN 50288-5-1 IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T IEEE 802.5 Token Ring, FDDI, ISDN, ATM.

**design**

conductor solid bare copper wire, Ø 0.52 mm (AWG 24/1)  
 core insulation Foam-Skin PE  
 core stranding 2 cores twisted to a pair  
 twisting 4 pairs twisted  
 overall shield AL/PET foil, metal outside + tinned copper braid (>45% coverage)  
 outer jacket FRNC, grey  
 overall diameter 6.5 mm

**electric**

conductor resistance < 95 Ω/km  
 mutual capacitance 50 pF/m  
 characteristic impedance 100 Ω ± 15%  
 signal speed 0.74 c

**properties**

min. bending radius  
 installation 8x overall diameter  
 operation 4x overall diameter  
 temperature range  
 installation -20°C / +60°C  
 operation ±0°C / +50°C  
 flame retardancy acc. to IEC 60332-1-2  
 halogen-free acc. to IEC 60754-2

**maximum transmission range (device-to-device)**

100Base-T (100 Mbit Ethernet) 100 m  
 1000Base-T (Gbit Ethernet) 100 m  
 10GBase-T (10 Gbit Ethernet) not supported

frequency [MHz]	attenuation [dB/100m]		Next [dB]		ACR-N [dB] @ 100 m		ACR-F [dB] @ 100 m		RL [dB]	
	typical	CAT5e MAX	typical	CAT5e MIN	typical	CAT5e MIN	typical	CAT5e MIN	typical	CAT5e MIN
1	1.9	2.1	80	65	78	63	68	64	24	20
4	3.7	4.0	75	56	71	52	56	52	30	23
10	5.6	6.3	70	50	64	44	46	44	34	25
16	7.2	8.0	68	47	61	39	43	40	35	25
20	8.1	9.0	65	46	57	37	41	38	34	25
31.25	10.3	11.4	60	43	50	31	39	34	33	23.6
62.5	14.4	16.5	56	38	42	22	35	28	31	21.5
100	18.2	21.3	50	35	32	14	26	24	28	20.1
155	19.9	-	45	-	25	-	24	-	26	-
200	24.2	-	42	-	18	-	22	-	24	-

order code	type	outer jacket	working temperature	halogen-free	cable color	weight kg/m	standard lengths m
C5SFUEH-D	SF/UTP	FRNC	-30°C / +70°C	IEC 60754-1	grey	0.05	100 / 300 / 500

technical specifications are subject to change