



data cable - category 5e - SF/UTP - 100 MHz - C5SF/U

- SF/UTP (overall foil + braid shield)
- 4x 2x 0,52 mm (AWG 24/1) - solid conductors
- flame retardant and non-corrosive (C5SF/UH)

FRNC

applications: Primary, Secondary and Tertiary cabling Category 5 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.

construction

conductor solid bare copper wire, Ø 0.52 mm (AWG 24/1)
 core insulation polyethylene (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)
 overall diameter 6.3 mm

properties

min. bending radius
 installation operation 8x overall diameter
 4x outer diameter

electric

conductor resistance < 90 Ω/km
 operating capacity 52 pF/m
 characteristic impedance 100 Ω ± 0.15%
 signal speed 0.67 c

Frequency [MHz]	attenuation [dB/100m]		Next [dB]		ACR [dB/100m]		EL-FEXT [dB/100m]		RL [db]	
	Typ.	MAX CAT5	Typ.	MAX CAT5	Typ.	MAX CAT5	Typ.	MAX CAT5	Typ.	MIN CAT5
1	1.9	2.1	80	63.5	78.1	63	68	64	22	20.0
4	3.7	4.0	75	56.3	71.3	52	56	52	24	23.0
10	5.6	6.3	70	50.3	64.4	44	46	44	26	25.0
16	7.2	8.0	68	47.3	60.8	39	48	40	26	25.0
20	7.9	9.0	65	45.3	57.1	36	41	38	26	25.0
31.25	9.8	11.4	60	42.9	50.2	32	35	34	25	23.6
62.5	15.0	16.5	54	38.4	39.0	22	30	28	23	21.5
100	18.2	21.3	46	35.3	26.8	14	26	24	21	20.1
125	20.0	-	42	-	22.0	-	24	-	20	-
200	24.2	-	38	-	13.8	-	22	-	19	-

order code	outer jacket	working temperature	halogen-free	colour	weight kg/m	standard lengths m
C5SFUEH	FRNC	-30°C / +70°C	IEC 60754-1	grey	0,045	100 / 300 / 500

technical specifications are subject to change