



RamCAT5 network system cable

AWG 24/1 - SF/UTP - PVC

- 2x RamCAT5-solid Cat5e data cable 4x 2x 0.52 mm (AWG 24/1)
- stabilizing PE cross
- SF/UTP (overall foil + braid shield)
- PVC element jackets, Ø 6,6 mm
- MADI tested by Soundcraft/ Studer up to 120 m
- Dante™ tested by YAMAHA UK up to 120 m

CAT
5E PVC

This system cable with 2x CAT5 was developed for mobile audio networks. As a 2-fold network cable element the especially robust, double shielded and windable RC5SB is used. Thanks to solid AWG24 conductors it allows EtherSound™ up to 120 metres. The suitability for the mobile use is reached by the special construction with a cross-shaped twisting element.

hybrid

twisting	2x data
taping	fleece
outer jacket	PVC
overall diameter	16.4 mm
characteristic impedance	100 Ω ± 15%

mechanical & thermal characteristics

working temperature	
mobile use	-30°C / +75°C
installation	0°C / +50°C
min. bending radius	
mobile use	12x overall diameter
installed	8x overall diameter
no hazardous substances	acc. to EU directive RoHS 2011/65/EU from 08.06.2011
CE conformity	acc. to EU directive LVD 2006/95/EG
flame retardancy	acc. to IEC 60332-1-2

data cable

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
cable stranding	4 pairs twisted within a central PE cross
overall shield	AL/PET foil + tinned copper braid (80% coverage)
outer jacket	PVC
overall diameter	16.4 mm
conductor resistance	< 85 Ω/km
mutual capacitance	48 pF/m
signal speed	0.76 c
propagation delay	4.9 nsec/m
delay skew	0.25 nsec/m

frequency [MHz]	attenuation [dB/100m]		Next [dB]		ACR [dB/100m]		RL [dB]	
	typical	CAT5e MAX	typical	CAT5e MIN	typical	CAT5e MIN	typical	CAT5e MIN
1	2.0	2.1	85	65	83.0	62.9	26	-
4	3.9	4.0	74	56	70.1	52.0	28	23.0
10	6.1	6.3	70	50	63.9	43.7	30	25.0
16	7.8	8.0	68	47	60.2	39.0	30	25.0
20	8.7	9.0	63	46	54.3	37.0	30	25.0
31.25	10.9	11.4	58	43	47.1	31.6	28	23.6
62.5	15.9	16.5	55	48	39.1	31.5	26	21.5
100	20.6	21.3	52	35	31.4	13.7	24	20.1
155	24.8	-	49	-	24.2	-	21	-
200	29.3	-	46	-	16.7	-	19	-

order code	type	outer jacket	cable color	weight kg/m	standard lengths m
RC5-SB2	SF/UTP	PVC	black	0,3	50 / 100 / 300

technical specifications are subject to change