



**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