100 Ω



RamCAT network system cable

- RC5SB2 2x RamCAT data cables 4x 2x 0.52 mm (AWG 24/1) solid bare copper
- data cable with stabilizing PE cross
- SF/UTP (overall foil + braid shield)
- EtherSound™ tested by Digigram up to 120 m
- MADI tested by Soundcraft/ Studer up to 120 m including 2 breakout panels and safety margin
- GLD and iLive ACE/dSnake tested by Allen&Heath up to 120 m
- Dante[™] tested by YAMAHA UK up to 120 m, recommended up to 100 m incl. extended error safety margin at 1 Gbit/s





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 EtherSoundTM up to 120 metres. The suitability for the mobile use is reached by the special construction with a cross-shaped twisting element.

hybrid

twisting taping outer jacket overall diameter min. bending radius working temperature 2x data fleece PVC 16.4 mm 10x outer diameter -20°C / +70°C

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)

 $\begin{array}{lll} \text{characteristic impedance} & 100~\Omega \pm 15^{\circ} \\ \text{signal speed} & 0.76~\text{c} \\ \text{propagation delay} & 4.9~\text{nsec/m} \\ \text{delay skew} & 0.25~\text{nsec/m} \end{array}$

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	color	weight kg/m	standard lengths m
RC5-SB2	SF/UTP	PVC	black	0.3	50 / 100 / 300

technical specifications are subject to change

KLOTZ AIS GmbH

