



RamCAT-Solid - shielded, AWG 24/1 - RC5SB

- CAT5e data cable, 4x 2x 0.52 mm (AWG 24/1) - solid conductors
- stabilizing PE cross
- SF/UTP (overall foil + braid shield)
- robust PUR jacket
- EtherSound™ tested by Digigram up to 120 m
- MADl 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

PUR



Double shielded data cable RamCAT with solid conductors, PE-X element and PUR outer jacket. Thanks to AWG24 solid conductors it allows EtherSound™ up to 120 metres. The suitability for mobile use is reached by the special construction with a cross-shaped twisting element and durable PUR outer jacket. The conductor isolation of foam-Skin PE allows the assembly with the etherCON connectors.

construction

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 PUR
 overall diameter 7.1 mm

properties

min. bending radius
 installation operation
 tensile strength 100 N
 working temperature -40°C / +80°C
 halogen-free
 8x overall diameter
 15x outer diameter
 acc. to IEC 60754-1

electric

conductor resistance < 85 Ω/km
 operating capacity 48 pF/m
 characteristic impedance 100 Ω ± 0.15
 signal speed 0.76 c
 propagation delay 4.9 ns/100m @ 100 MHz
 delay skew 0.25 nsec/m

Frequency [MHz]	attenuation [dB/100m]		Next [dB]		ACR [dB/100m]		RL [db]	
	Typ.	MAX CAT5	Typ.	MIN CAT5	Typ.	MIN CAT5	Typ.	MIN CAT5
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	outer jacket	colour	weight [kg/m]
RC5-SB1X	PUR	black	0,065

technical specifications are subject to change