RamCAT - solid
AWG 24/1 - SF/UTP - PUR

- heavy duty CAT5e data cable, 4 x 2 x 0.52 mm (AWG 24/1) - solid conductor
- stabilizing PE cross
- SF/UTP (overall foil + braid shield)
- robust PUR overall jacket
- EtherSound™ tested by Digigram up to 120 m
- MADI tested by Soundcraft/ Studer up to 120 m
- GLD and iLive ACE/dSnake tested by Allen&Heath up to 120 m
- Dante™ tested by YAMAHA UK up to 120 m

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

electric

conductor resistance	< 85 Ω/km
mutual capacitance	48 pF/m
characteristic impedance	100 Ω ± 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]	
	typical	CAT5 MAX	typical	CAT5 MIN	typical	CAT5 MIN	typical	CAT5 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-SB1X	SF/UTP	PUR	black	0.06	20 / 30 / 50 / 100 / 300 / 500

technical specifications are subject to change

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the signal masters