RL

[dB]

100 Ω





RamCAT6-Flex AWG 26/19 - SF/UTP - PUR

- 4 x 2 x 0.15 mm2 (AWG 26/19) 100 0hm
- compression resistant construction due to a PE cross
- robust PUR overall jacket
- low-temperature-flexible down to -40 °C
- compatible to most standard RJ45 connectors

PS ACR-F

[dB]

- 10GBase-T links up to 60 m
- analog and digital audio signals
- digital media over IP

The RAMCAT6-flex cable is designed for data transfer in mobile operation. Developed for a frequency of 500 MHz, it is suitable for data transfer rates of up to 10 Gbit/s. The RAMCAT6 is the cable of choice for data transfer in the Ethernet applications 1000BaseT and 10GBase-T where drag chains and cable drums are used. The rugged data cable offers characteristic impedance of 100 0hm and has four twisted pairs with copper cores (19 x 0.10 mm). The matched lay lengths of the individual pairs and the sophisticated cable stranding with central PE cross are designed to maximize NEXT (near-end crosstalk) and FEXT (far-end crosstalk) values. With a cross-shaped PE central filler and abrasion-proof PUR jacket, the cable is ideal for mobile use on the road. Dual shielding reliably protects against electromagnetic interference. Ideal for the following possible applications such as digital media: SMPTE 2110, AVB, NDI, BLULink or audio: analog (MIC,LINE) AES/EBU, ÁES67, RAVENNA, Dante, AES50, AVB, MILAN, MADI, GigaACE, Ethersound, RockNet and many other multimedia applications.

design

conductor stranded bare copper, 19 x 0,10 mm (AWG 26/19) core insulation Foam-Skin PE, nominal diameter 1.0 mm core stranding 2 cores twisted to a pair

4 pairs twisted within a central PE cross twisting overall shield AL/PET foil + tinned copper braid (85% coverage)

outer jacket 7.0 mm

overall diameter

frequency

PUR, black

attenuation [dB/100m]

electric

conductor resistance < 150 Ω/km mutual capacitance 47 pF/m characteristic impedance $100 \Omega \pm 15\%$ signal speed 0.72 c

propagation delay ≤ 520 ns/100m @ 100 MHz delay skew ≤ 40 ns/100m @ 100 MHz

mechanics

min. bending radius installation operation working temperature halogen-free

8x overall diameter 15x overall diameter -40°C / +80°C acc. to IEC 60754-1

nequency	[Lea	[]		[]		[]	
[MHz]	typical	CAT6 _A Max	typical	CAT6 Min	typical	CAT6 Min	typical	CAT6 MIN	
1	2.5	3.1	84	72.3	77	65.0	28	-	
4	5.0	5.8	75	63.3	69	53.0	30	23.0	
10	8.3	9.0	69	57.3	62	45.0	31	25.0	
16	10.6	11.4	66	54.2	55	40.9	31	25.0	
20	11.7	12.8	60	52.8	51	39.0	31	25.0	
31.25	15.0	16.1	57	49.9	46	35.1	29	23.3	
62.5	21.9	23.3	51	45.4	37	29.1	28	20.7	
100	28.6	29.9	49	42.3	32	25.0	27	19.0	
200	42.1	43.8	42	37.8	27	19.0	23	16.4	
250	47.7	49.7	41	36.3	24	17.0	22	15.6	
order code	type		outer jacket	cable color		weight kg/m	standard lengths m		

PS NEXT

[dB]

order code	type	outer jacket	cable color	weight kg/m	standard lengths m
RC6-LB1RJ	SF/UTP	PUR	black	0.06	100 / 300 / 500

technical specifications are subject to change

