

**RamCAT6-Flex - 4 x 2 x AWG26/19 SF/UTP - RC6**

- 10 GBase-T links up to 60 m
- suitable for drag chains and cable drums
- compression resistant construction due to a PE cross
- 4x 2x 0.15 mm² (AWG 26/19) - 100 Ohm
- low-temperature-flexible down to -40 °C
- compatible to most standard RJ45 connectors

PUR

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 Ohm 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.

construction

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
twisting	4 pairs twisted within a central PE cross
overall shield	AL/PET foil + tinned copper braid (85% coverage)
outer jacket	PUR, black
overall diameter	7.0 mm

mechanics

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

electric

conductor resistance	< 150 Ω/km
operating capacity	47 pF/m
characteristic impedance	100 Ω ± 0.15%
signal speed	0.72 c
propagation delay	≤ 520 ns/100m @ 100 MHz
delay skew	≤ 40 ns/100m @ 100 MHz

Frequency [MHz]	attenuation [dB/100m]		PS Next [dB]		PS ACR-F [dB]		RL [db]	
	Typ.	MAX CAT6 _A	Typ.	MIN CAT6	Typ.	MIN CAT6	Typ.	MIN CAT6
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	outer jacket	colour	weight kg/m	standard lengths m
RC6-LB1RJ	PUR	black	0,058	100 / 300 / 500

technical specifications are subject to change