



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

- 4 x 2 x 0.15 mm² (AWG 26/19) - 100 Ohm
- 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
- 10GBase-T links up to 60 m

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.

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

electric

conductor resistance	< 150 Ω/km
mutual capacitance	47 pF/m
characteristic impedance	100 Ω ± 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]	
	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
RC6-LB1RJ	SF/UTP	PUR	black	0.06	100 / 300 / 500

technical specifications are subject to change