



MultitCAT6A - 4 x (4 x 2 x AWG23/1) S/FTP - 500 MHz - PVC

- 4 x 2 x 0.57 mm (AWG 23/1) low loss solid conductors
- S/FTP (overall braid shield + foil shielded twisted pairs)
- 10GBase-T links up to 100 m
- CPR class Fca

PVC

The C6ASFEY04 multiCAT6A cable for data transmission in installations and in protected mobile operation is designed for a frequency of 500 MHz and is therefore suitable for data transmission rates of up to 10 Gbit/s up to 100 m link length. It is primarily used for data transmission in Ethernet applications 1000Base-T and 10GBase-T. The four data lines with a characteristic impedance of 100 ohms each have four stranded pairs with AWG 23/1 solid conductors. Double shielding (S/FTP) reliably prevents electromagnetic interference. We recommend the Telegärtner metal MFP8 IE series as a suitable plug connector, available from us with article number RJ45SAT-FS. The MultitCAT6A multicore cable is available both as bulk cable and as premade cable with and without cable drum.

design

conductor	solid bare copper wire, Ø 0.57 mm (AWG 23/1)
core insulation	Foam-Skin PE, Ø 1.4 mm
core stranding	2 cores twisted to a pair
cable stranding	4 data cables stranded together
element jacket	PVC, black, numbered, Ø 7.5 mm
twisting	4 shielded pairs twisted together
pair shielding	AL/PET foil
overall shield	tinned copper braid
outer jacket	PUR, black
overall diameter	22.1 mm

properties

min. bending radius	10x overall diameter
flame retardancy	acc. to IEC 60332-1-2

electric

conductor resistance	< 80 Ω/km
mutual capacitance	43 pF/m
characteristic impedance	100 Ω ± 15%
signal speed	0.77 c
propagation delay	480 ns/100m

frequency [MHz]	attenuation [dB/100m]		PS NEXT [dB]		PS ACR-N [dB] @ 100 m		PS ACR-F [dB] @ 100m		RL [dB]	
	typical	CAT6 _A MAX	typical	CAT6 _A MIN	typical	CAT6 _A MIN	typical	CAT6 _A MIN	typical	CAT6 _A MIN
1	1.9	2.1	> 90	72.3	> 88	70.2	> 85	65	26	-
10	5.6	5.9	> 90	57.3	> 84	51.4	> 85	45	32	25.0
100	18.4	19.1	85	42.3	67	23.2	> 75	25	27	20.1
250	29.4	31.1	80	36.3	51	5.3	> 70	17	25	17.3
500	42.1	45.3	75	31.8	33	-13.4	> 60	11	23	17.3

order code	type	outer jacket	cable color	weight kg/m	standard lengths m
C6ASFEY04	S/FTP	PVC	black	0.51	50 / 100

technical specifications are subject to change