



- S/FTP (overall braid shield + foil shielded twisted pairs)
- 10GBase-T links up to 100 m
- CPR class Fca

PVC

The C7SFEY04 multiCAT7 cable for data transmission in installations and in protected mobile operation is designed for a frequency of 600 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 MultiCAT7 multicore cable is available both as bulk cable and as premade cable with and without cable drum.

design

fraguency

C7SFEY04

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

PS NEXT

PVC

attenuation

S/FTP

electric

conductor resistance < 80 Ω/km mutual capacitance 43 pF/m characteristic impedance $100 \Omega \pm 15\%$ signal speed 0.77 с propagation delay 480 ns/100m

properties

PS ACR-N

black

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

maximum transmission range (device-to-device)

PS ACR-F

0.51

100Base-T (100 Mbit Ethernet) 100 m 1000Base-T (Gbit Ethernet) 100 m 10GBase-T (10 Gbit Ethernet) 100 m

irequeitoy	[dB/100m]		[dB]		[dB] @ 100 m		[dB] @ 100m		[dB]	
[MHz]	typical	CAT7 MAX	typical	CAT7 MIN	typical	CAT7 MIN	typical	CAT7 MIN	typical	CAT7 MIN
1	1.9	2.0	> 95	75	93.1	73.0	> 85	75	30	20.0
4	3.6	3.7	> 95	75	91.6	71.3	> 85	75	33	23.0
10	5.6	5.9	> 95	75	89.6	69.1	> 85	71.0	33	25
16	7.2	7.4	92	75	84.8	67.6	> 85	66.9	33	25
20	8.0	8.3	92	75	84.0	66.7	84.0	65.0	33	25
31.25	10.1	10.4	89	75	78.9	64.6	82.0	61.1	30	23.6
62.50	14.3	14.9	87	72.5	72.7	57.6	77.0	55.1	28	21.5
100	18.2	19.0	85	69.4	66.8	50.4	74.0	51.0	26	20.1
250	28.9	31.0	80	63.4	51.1	32.5	60.0	43.0	25	17.3
500	41.7	45.3	76	58.9	34.3	13.7	51.0	37.0	23	17.3
600	45.9	50.1	74	57.7	28.1	7.6	46.0	35.4	22	17.3
order code	type		outer jacket		cable color		weight kg/m		standard lengths m	

technical specifications are subject to change



RL

50 / 100