



CAT-5e and CAT-6 Cables

Our CAT-5e and CAT-6 cables are designed to exceed category 5e and 6 specifications in PVC/FRLS/LSOH jacket options. They comply with all of the performance requirements for current and proposed applications such as Gigabit Ethernet, 100 BASE-Tx, token ring, 155 Mbps ATM, 622Mbps ATM, 100 Mbps TP-PMD, ISDN, analog (broadband, baseband) and digital video & voice.

Technical Data

Conductor Type: 24 AWG Solid Bare Copper

Insulation: Colour-coded PE Insulation

Colour Codes: 1P-White/Blue, 2P-White/Orange, 3P-White/Green, 4P-White/Brown

Sheath: PVC/FRLS/LSOH

Flammability Grade: CMX, CM, MP, CMG, MPG, CMR, MPR

Electrical Characteristics - CAT-5e Cables

Freq. MHz	Attenuation (dB/100 m)Max.	Next (dB) Min.	PSNEXT (dB) Min.	ELFEXT (dB) Min.	PSELFEXT (dB) Min.	Return Loss (dB) Min.	ACR (dB) Min.	PS ACR (dB) Min.
0.772	1.8	67.0	64.0	66.0	63.0	20.0	65.2	62.2
1.000	2.0	65.3	62.3	63.8	60.8	20.0	63.3	60.3
4.000	4.1	56.3	53.3	51.7	48.7	23.0	52.2	49.2
8.000	5.8	51.8	48.8	45.7	42.7	24.5	46.0	43.0
10.000	6.5	50.3	47.3	43.8	40.8	25.0	43.8	40.8
16.000	8.2	47.3	44.3	39.7	36.7	25.0	39.1	36.1
20.000	9.3	45.8	42.8	37.7	34.7	25.0	36.5	33.5
25.000	10.4	44.3	41.3	35.8	32.8	24.3	33.9	30.9
31.250	11.7	42.9	39.9	33.9	30.9	23.6	31.2	28.2
62.500	17.0	38.4	35.4	27.8	24.8	21.5	21.4	18.4
100.000	22.0	35.3	32.3	23.8	20.8	20.1	13.3	10.3

DC Resistance (max.): 9.38Ω/100 metres.

DC Resistance Unbalance: 2% max.

Characteristic Impedance: 100 ±15Ω @ 1-100 MHz

Mutual Capacitance: 5.6 nF/100 metres.

Propagation Delay: 538 ns/100 metres max. @ 100 MHz

Also available in Copper Coated Aluminium (CCA)

Electrical Characteristics - CAT-6 Cables

Freq. MHz	Attenuation (dB/100 m) Max.	Next (dB) Min.	PSNEXT (dB) Min.	ELFEXT (dB) Min.	PSELFEXT (dB) Min.	Return Loss (dB) Min.	ACR (dB) Min.	PS ACR (dB) Min.
0.772	1.8	76.0	74.0	70.0	67.0	20.0	74.2	72.2
1.00	2.0	74.3	72.3	67.8	64.8	20.0	72.3	70.3
4.00	3.8	65.3	63.3	55.8	52.8	23.0	61.5	59.5
8.00	5.3	60.8	58.8	49.7	46.7	24.5	55.5	53.5
10.00	6.0	59.3	57.3	47.8	44.8	25.0	53.3	51.3
16.00	7.6	56.2	54.2	43.7	40.7	25.0	48.6	46.6
20.00	8.5	54.8	52.8	41.8	38.8	25.0	46.3	44.3
25.00	9.5	53.3	51.3	39.8	36.8	24.3	43.8	41.8
31.25	10.7	51.9	49.9	37.9	34.9	23.6	41.2	39.2
62.50	15.4	47.4	45.4	31.9	28.9	21.5	32.0	30.0
100.00	19.8	44.3	42.3	27.8	24.8	20.1	24.5	23.5
200.00	29.0	39.8	37.8	21.8	18.8	18.0	10.8	8.8
250.00	32.8	38.3	36.3	19.8	16.8	17.3	5.5	3.5

DC Resistance (max.): 9.38Ω/100 metres.

DC Resistance Unbalance: 3% max.

Characteristic Impedance: 100 ± 15Ω @ 1-100 MHz,
100 ± 20Ω @ 100-250 MHz

Mutual Capacitance: 5.6nF/100 metres.

Propagation Delay: 536ns/100 metres max. @ 250 MHz

