

Copper Patch Cable Standard

Cat7a IEC61156-6-2009

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB/100m)	Psnext (dB/100m)	Return Loss (dB/100m)	Elfext (dB/100m)	Pselfext (dB/100m)	Propagation Delay(ns)	Delay Skew (µs)	ACR (dB/100m)	PS-ACR (dB/100m)
1	3.0	78.0	75.0	20.0	78.0	75.0	570.0	<0.025	75.0	72.0
4	5.6	78.0	75.0	23.0	78.0	75.0	552.0	<0.025	72.4	69.4
10	8.8	78.0	75.0	25.0	74.0	71.0	545.4	<0.025	69.2	66.2
16	11.1	78.0	75.0	25.0	69.9	66.9	543.0	<0.025	66.9	63.9
31.25	15.6	78.0	75.0	23.3	64.1	61.1	540.4	<0.025	62.4	59.4
62.5	22.3	78.0	75.0	20.7	58.1	55.1	538.6	<0.025	55.7	52.7
100	28.5	75.4	72.4	19.0	54.0	51.0	537.6	<0.025	46.9	43.9
250	46.5	69.4	66.4	15.6	46.0	43.0	536.3	<0.025	23.0	20.0
300	51.3	68.2	65.2	15.6	44.6	41.5	536.1	<0.025	17.0	14.0
350	55.8	67.2	64.2	15.6	43.1	40.1	535.9	<0.025	11.5	8.5
400	60.0	66.4	63.4	15.6	42.0	39.0	535.8	<0.025	6.4	3.4
550	71.6	64.3	61.3	15.6	39.2	36.2	535.5	<0.025	-7.3	-10.3
600	75.1	63.7	60.7	15.6	38.4	35.4	535.5	<0.025	-11.4	-14.4
650	78.6	63.2	60.2	15.6	37.7	34.7	535.4	<0.025	-15.4	-18.4
750	85.2	62.3	59.3	15.6	36.5	33.5	535.3	<0.025	-22.9	-25.9
800	88.4	61.9	58.9	15.6	35.9	32.9	535.3	<0.025	-26.5	-29.5
900	94.5	61.1	58.1	15.6	34.9	31.9	535.2	<0.025	-33.4	-36.4
1000	100.4	60.4	57.4	15.6	34.0	31.0	535.1	<0.025	-40.0	-43.0

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Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB/100m)	Psnext (dB/100m)	Return Loss (dB/100m)	Elfext (dB/100m)	Pselfext (dB/100m)	Propagation Delay(ns)	Delay Skew (µs)	ACR (dB/100m)	PS-ACR (dB/100m)
1	3.0	78.0	75.0	20.0	78.0	75.0	570.0	<0.25	75.0	72.0
4	5.6	78.0	75.0	23.0	78.0	75.0	552.0	<0.25	72.4	69.4
10	8.8	78.0	75.0	25.0	74.0	71.0	545.4	<0.25	69.2	66.2
16	11.1	78.0	75.0	25.0	69.9	66.9	543.0	<0.25	66.9	63.9
31.25	15.6	78.0	75.0	23.3	64.1	61.1	540.4	<0.25	62.4	59.4
62.5	22.3	75.5	72.5	20.7	58.1	55.1	538.6	<0.25	53.1	50.1
100	28.5	72.4	69.4	19.0	54.0	51.0	537.6	<0.25	43.9	40.9
250	46.5	66.4	63.4	15.6	46.0	43.0	536.3	<0.25	20.0	17.0
300	51.3	65.2	62.2	15.6	44.5	41.5	536.1	<0.25	14.0	11.0
350	55.8	64.2	61.2	15.6	43.1	40.1	535.9	<0.25	8.5	5.5
400	60.0	63.4	60.4	15.6	42.0	39.0	535.8	<0.25	3.4	0.4
550	71.6	61.3	58.3	15.6	39.2	36.2	535.5	<0.25	-10.3	-13.3
600	75.1	60.7	57.7	15.6	38.4	35.4	535.5	<0.25	-14.4	-17.4

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Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB/100m)	Psnext (dB/100m)	Return Loss (dB/100m)	Elfext (dB/100m)	Pselfext (dB/100m)	Propagation Delay(ns)	Delay Skew (µs)	ACR (dB/100m)	PS-ACR (dB/100m)
1	3.1	75.3	72.3	20.0	68.0	65.0	570.0	<0.045	72.2	69.2
4	5.8	66.3	63.3	23.0	56.0	53.0	552.0	<0.045	60.5	57.5
10	9.0	60.3	57.3	25.0	48.0	45.0	545.4	<0.045	51.3	48.3
16	11.4	57.2	54.2	25.0	43.9	40.9	543.0	<0.045	45.8	42.8
31.25	16.1	52.9	49.9	23.6	38.1	35.1	540.4	<0.045	36.7	33.7
62.5	23.3	48.4	45.4	21.5	32.1	29.1	538.6	<0.045	25.1	22.1
100	29.9	45.3	42.3	20.1	28.0	25.0	537.6	<0.045	15.4	12.4
250	49.7	39.3	36.3	17.3	20.0	17.0	536.3	<0.045	-10.4	-13.4
300	55.1	38.1	35.1	16.8	18.5	15.5	536.1	<0.045	-17.0	-20.0
350	60.2	37.1	34.1	16.3	17.1	14.1	535.9	<0.045	-23.1	-26.1
400	65.0	36.1	33.3	15.9	16.0	13.0	535.9	<0.045	-28.7	-31.4
500	74.1	34.8	31.8	15.2	14.0	11.0	535.6	<0.045	-39.2	-42.2

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Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB/100m)	Psnext (dB/100m)	Return Loss (dB/100m)	Elfext (dB/100m)	Pselfext (dB/100m)	Propagation Delay(ns)	Delay Skew (µs)	ACR (dB/100m)	PS-ACR (dB/100m)
1	3.1	75.3	72.3	20.0	68.0	65.0	570.0	<0.045	72.2	69.2
4	5.8	66.3	63.3	23.0	56.0	53.0	552.0	<0.045	60.5	57.5
10	9.0	60.3	57.3	25.0	48.0	45.0	545.4	<0.045	51.3	48.3
16	11.4	57.2	54.2	25.0	43.9	40.9	543.0	<0.045	45.8	42.8
20	12.8	55.8	52.8	25.0	42.0	39.0	542.0	<0.045	43.0	40.0
31.25	16.1	52.9	49.9	23.6	38.1	35.1	540.4	<0.045	36.7	33.7
62.5	23.3	48.4	45.4	21.5	32.1	29.1	538.8	<0.045	25.1	22.1
100	29.9	45.3	42.3	20.1	28.0	25.0	537.6	<0.045	15.4	12.4
155.5	38.1	42.4	39.4	18.1	24.2	21.2	536.9	<0.045	4.3	1.3
175	40.7	41.7	38.7	18.4	23.1	20.1	536.7	<0.045	1.0	-2.0
200	43.8	40.8	37.8	18.0	22.0	19.0	536.5	<0.045	-3.0	-6.0
250	49.7	39.3	36.3	17.3	20.0	17.0	536.3	<0.045	-10.4	-13.4

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Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB/100m)	Psnext (dB/100m)	Return Loss (dB/100m)	Elfext (dB/100m)	Pselfext (dB/100m)	Propagation Delay(ns)	Delay Skew (µs)	ACR (dB/100m)	PS-ACR (dB/100m)
1	3.2	65.3	62.3	20.1	64.0	61.0	570.0	<0.045us	62.1	59.1
4	6.0	56.3	53.3	23.0	52.0	49.0	552.0	<0.045us	50.3	47.3
10	9.5	50.3	47.3	25.0	44.0	41.0	545.4	<0.045us	40.8	37.8
16	12.1	47.2	44.2	25.0	39.9	36.9	543.0	<0.045us	35.2	32.2
31.25	17.1	42.9	39.9	23.6	34.1	31.1	540.4	<0.045us	25.8	22.8
62.5	24.8	38.4	35.4	21.5	28.1	25.1	538.6	<0.045us	13.6	10.6
100	32.0	35.3	32.3	20.1	24.0	21.0	537.6	<0.045us	3.3	0.3