

ANSI/TIA-568-C.2 CAT 6A Electrical Specifications

Frequency MHz	Insertion Loss @ 20°C			
	Maximum dB/100 m	NEXT Minimum dB/100 m	ACR Minimum dB/100 m	PSNEXT Minimum dB/100 m
	Specified	Specified	Calculated	Specified
1	2.1	74.3	72.2	72.3
4	3.8	65.3	61.5	63.3
8	5.3	60.8	55.4	58.8
10	5.9	59.3	53.4	57.3
16	7.5	56.2	48.8	54.2
20	8.4	54.8	46.4	52.8
25	9.4	53.3	44.0	51.3
31.25	10.5	51.9	41.4	49.9
62.5	15.0	47.4	32.4	45.4
100	19.1	44.3	25.2	42.3
155	24.1	41.4	17.4	39.4
200	27.6	39.8	12.2	37.8
250	31.1	38.3	7.3	36.3
300	34.3	37.1	2.9	35.1
400	40.1	35.3		33.3
500	45.3	33.8		31.8

Frequency MHz	PSACR Minimum dB/100 m	Return Loss Min. dB/100 m	ELFEXT Minimum dB/100 m	PSELFEXT Minimum dB/100 m
	Calculated	Specified	Specified	Specified
1	70.2	20.0	67.8	64.8
4	59.5	23.0	55.8	52.8
8	53.4	24.5	49.7	46.7
10	51.4	25.0	47.8	44.8
16	46.8	25.0	43.7	40.7
20	44.4	25.0	41.8	38.8
25	42.0	24.3	39.8	36.8
31.25	39.4	23.6	37.9	34.9
62.5	30.4	21.5	31.9	28.9
100	23.2	20.1	27.8	24.8
155	15.4	18.8	24.0	21.0
200	10.2	18.0	21.8	18.8
250	5.3	17.3	19.8	16.8
300	0.9	16.8	18.3	15.3
400		15.9	15.8	12.8
500		15.2	13.8	10.8