

TABLE 1. Termination Length Table by Family*

DEVICE TYPE	RISETIME	MAX LINE LENGTH – INNER (in./mm)	MAX LINE LENGTH – OUTER (in./mm)
Standard TTL	5.0 nSec	7.27 / 185	9.23 / 235
Schottky TTL	3.0 nSec	4.36 / 111	5.54 / 141
10K ECL	2.5 nSec	3.63 / 92	4.62 / 117
ASTTL	1.9 nSec	2.76 / 70	3.51 / 89
FTTL	1.2 nSec	1.75 / 44	2.22 / 56
BICMOS	0.7 nSec	1.02 / 26	1.29 / 33
10KH ECL	0.7 nSec	1.02 / 26	1.29 / 33
100K ECL	0.5 nSec	.730 / 18	.923 / 23
GaAs	0.3 nSec	.440 / 11	.554 / 14
Other	0.1 nSec	0.15 / 4	0.18 / 5

Note: Approximation calculated assuming a nominal $\epsilon_r = 4.1$

*Table published by Rick Hartley in his High Speed Design Presentations