

TABLE OF HYPERBOLIC FUNCTIONS OF PROPAGATION CONSTANTS
NON-LOADED 19 GAUGE CNB, ENB CABLE AT 1000 CPS
(Propagation Constant, $\gamma = .1457 + j .1540$ Per Mile)

Miles (l)	Sinh γl	Cosh γl	Tanh γl	Coth γl
0	0 + j 0	1 + j 0	0 + j 0	$\infty - j \infty$
1	.1445 + j .1559 .2125 /47.2°	.9987 + j .0224 .9989 /1.3°	.1481 + j .1527 .2127 /45.9°	3.2723 - j3.3747 4.7007 /45.9°
2	.2816 + j .3161 .4234 /48.3°	.9937 + j .0896 .9977 /5.2°	.3096 + j .2903 .4244 /43.1°	1.7192 - j1.6116 2.3564 /43.1°
3	.4039 + j .4890 .6342 /50.5°	.9820 + j .2011 1.0024 /11.6°	.4925 + j .3972 .6327 /38.9°	1.2304 - j .9922 1.5806 /38.9°
4	.5031 + j .6787 .8448 /53.5°	.9588 + j .3561 1.0228 /20.4°	.6922 + j .4507 .8260 /33.1°	1.0146 - j .6606 1.2107 /33.1°
5	.5705 + j .8892 1.0565 /57.3°	.9170 + j .5532 1.0709 /31.1°	.8851 + j .4359 .9866 /26.2°	.9093 - j .4478 1.0136 /26.2°
6	.5965 + j1.1229 1.2715 /62.0°	.8480 + j .7899 1.1589 /43.0°	1.0371 + j .3581 1.0972 /19.0°	.8615 - j .2975 .9114 /19.0°
7	.5706 + j1.3803 1.4936 /67.5°	.7412 + j1.0626 1.2956 /55.1°	1.1258 + j .2482 1.1528 /12.4°	.8471 - j .1868 .8674 /12.4°
8	.4813 + j1.6598 1.7281 /73.8°	.5849 + j1.3658 1.4857 /66.8°	1.1545 + j .1421 1.1632 /7.0°	.8533 - j .1050 .8597 /7.0°
9	.3162 + j1.9564 1.9817 /80.8°	.3657 + j1.6915 1.7306 /77.8°	1.1435 + j .0603 1.1451 /3.0°	.8721 - j .0460 .8733 /3.0°
10	.0625 + j2.2619 2.2628 /88.4°	.0697 + j2.0291 2.0303 /88.0°	1.1145 + j .0075 1.1145 /0.4°	.8973 - j .0060 .8973 /0.4°

Note: The data in this table are furnished for use with formulae such as those on Page 35 of Section AB92.075, "Introduction to Telephone Transmission Theory."