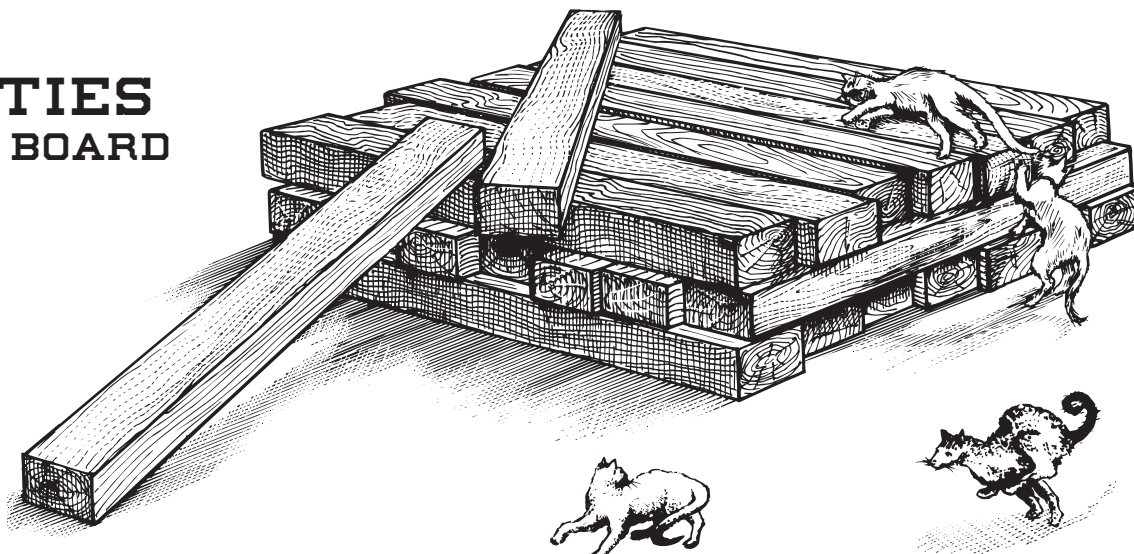


PC TIES & PC BOARD



Printed circuit board ties (PC ties) are made from the same copper clad material used in fabricating electronic circuits. PC ties simplify crossing and turnout construction since stock rails, guard rails and frogs can be soldered in place to hold gauge. Ties are cut to length by the modeler using a razor saw, rail nippers, diagonal cutters or a cutting disc on a motor tool.

PC ties can be used to replace every fifth wood tie in track work and thus eliminate hand spiking. Once everything is soldered into place, the copper can be cut between the rails, insuring that the rails are insulated from each other. The substrate, or base material, holds everything in place after the copper coating is cut.

PC tie material comes in 12" lengths to minimize waste as the ties are cut to match the various lengths needed. Currently our PC ties are cop-

per clad on both sides. In the future the .031 inch thick ties will have copper on just one side.

Turnout throwbars can be drilled, tapped and soldered. In N and HO scale, throwbars are wider than standard ties to allow enough room for drilling holes, since ties that are less than .110 inch wide tend to break when they are drilled.

S and O scale PC ties will need spacers to match the height of regular wood ties.

Module Interface ties are .375 inch wide strips of .062 inch thick printed circuit board. These ties provide a firm anchor for the rails at the edge of modules where rails often get damaged.

Sheet PC board can be used for electrical tie points cut to fit by the modeler or for other special uses.

PC Tie Strips 12" Long

Product Number	Scale	Tie Width	Quantity	Actual Thickness	Use With Corresponding Wood Ties	Price
260	N	9" (.056)	10	.031"	6" x 8" and 7" x 9"	\$6.00
261	N	Throw Bar (.110")	10	.031"	6" x 8" and 7" x 9"	4.50
262	HO - Low Contour	8" (.092)	10	.031"	4" x 8"	4.50
263	HO - Low Contour	9" (.103)	10	.031"	4" x 9"	4.50
264	HO - Low Contour	Throw Bar (.125")	10	.031"	4" x 8" and 4" x 9"	4.50
265	HO	8" (.092)	10	.062"	6" x 8"	4.50
266	HO	9" (.103)	10	.062"	7" x 9"	4.50
267	HO	Throw Bar (.125")	10	.062"	6" x 8" and 7" x 9"	4.50
272	S	8" (.125")	10	.062"	6" x 8"	5.00
273	S	9" (.141")	10	.062"	7" x 9"	5.00
274	O	8" (.167")	10	.062"	6" x 8"	5.00
275	O	9" (.188")	10	.062"	7" x 9"	5.00
276	Module Interface	.375	6	.062"	N/A	5.00
277	Sheet PC Board	5.75" x 3.875"	1	.031"	N/A	2.00