



6-way 1/2" Cu pipe connector



AHoward

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Summary

6-way connector for 1mm-wall, 1/2" ID, 5/8" OD copper pipe. Structural/cosmetic only - does not allow fluid movement.

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Parts A & B should both print supportless. They're glued together with the help of 1x Alignment Peg print.

The Full Voided model has a hollow in the center for the Alignment Peg (though if you're printing the full model as one piece, that void will be entirely internal and unreachable. The Full Voidless model has no hollow for the Alignment Peg - it's a solid model.

To assemble, the copper pipe must have its inside edge fully reamed. Pipe can be secured in place with a M3x16mm screw.

Parts A & B are rotated 45-degrees along X, then 35.25-degrees along Y.

Model files



6-way-cu-full-holed-voided-rotated.stl

☐ Full model, no center void, no M3 pilot holes, rotated 45-degrees on X, then 35.25-degrees on Y



6-way-cu-full-noholes-voidless.stl

☐ Full model, no center void, no M3 pilot holes.



6-way-cu-full-noholes-voided.stl

☐ Full model, with center void, no M3 pilot holes.



6-way-cu-full-holed-voidless.stl

☐ Full model, no center void, with M3 pilot holes.



6-way-cu-full-holed-voided.stl

☐ Full model, with center void, with M3 pilot holes.



6-way-cu-a.stl

☐ Prints with no support. Glue to Part B using Alignment Peg.



6-way-cu-b.stl

☐ Prints with no support. Glue to Part A using Alignment Peg.



alignment-peg.stl

☐ For aligning & gluing together parts A & B.



alignment-peg-void.stl

☐ Dimension of the void into which the Alignment Peg fits.



05in-cu-punch-guide.stl

☐ Jig for using an autopunch to mark the hole for M3 screw.

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