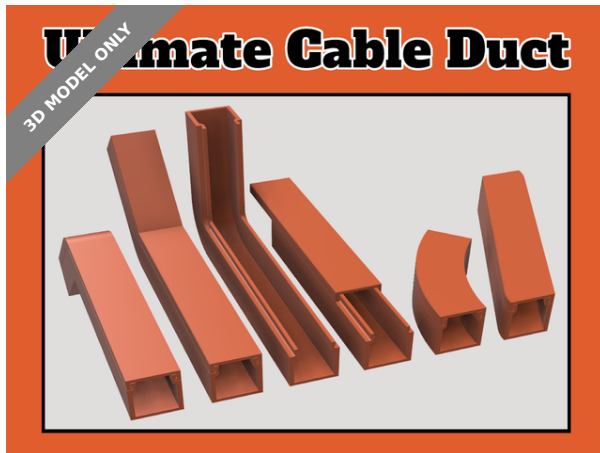




Cable Duct Parametric



Leon_H

[VIEW IN BROWSER](#)

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Summary

The ultimate parametric cable duct to hide your cables!

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This fully parametric cable duct is designed to help you neatly hide your nasty cables.

The cable duct consists of a base and a lid, which can either slide on from the side or simply snap on from above. The lid fits flush with the base, creating a very clean look.

I've uploaded sets in two different sizes: a set for a single cable and another set that can accommodate approximately four cables, depending on their thickness. These sets include all the essential components, however, additional parts are available in the Fusion360 file.

I have also uploaded two test files. These can be used to test the tolerances of the lids and the connector, as well as to ensure that the size of the cable ducts is sufficient for the cables.

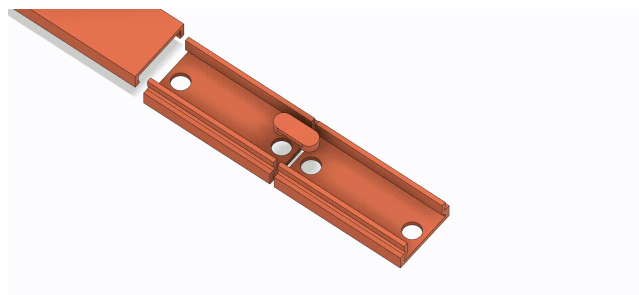
For optimal customization, it's best to adjust the components with the Fusion360 file to suit your exact preferences.

Here is an overview of all customizable parameters:

☆ User Parameter	WallThickness	mm	1 mm	1.00	
☆ User Parameter	OuterWidth	mm	9 mm	9.00	Key parameter: always adjust this
☆ User Parameter	Length	mm	50 mm	50.00	Key parameter: always adjust this
☆ User Parameter	Height	mm	11 mm	11.00	Key parameter: always adjust this
☆ User Parameter	LidClearance	mm	0.17 mm	0.17	
☆ User Parameter	NotchDiameter	mm	1 mm	1.00	
☆ User Parameter	CornerArcAngle	deg	90 deg	90.0	Relevant for all corner pieces
☆ User Parameter	CornerArcRadius	mm	20 mm	20.00	Relevant for all corner pieces
☆ User Parameter	ScrewHoleDiameter	mm	4 mm	4.00	
☆ User Parameter	ScrewHoleDistance	mm	2.5 mm	2.50	
☆ User Parameter	EnableScrewHole		1	1	Set to "1" to enable screw holes. Set to "0" to disable screw holes.
☆ User Parameter	OuterWidthSizeAda...	mm	13 mm	13.00	Relevant for "SizeAdapter" Piece
☆ User Parameter	HeightSizeAdapter	mm	13 mm	13.00	Relevant for "SizeAdapter" Piece
☆ User Parameter	DiagonalOffset	mm	30 mm	30.00	Relevant for "DiagonalOffset" Piece
☆ User Parameter	ConnectorClearance	mm	0.1 mm	0.10	Relevant for "Connector" Piece
☆ User Parameter	EnableStraightOpen...		0	0	Relevant for "Straight" Piece. Set to "1" or "2" to enable openings. Set to "0" to disable openings.

You can download a PDF file detailing the parameter settings for the two cable duct sets provided. If you've used the uploaded components and wish to create your own using the Fusion360 file, you can modify the parameters as described in the PDF to match the settings of the uploaded parts.

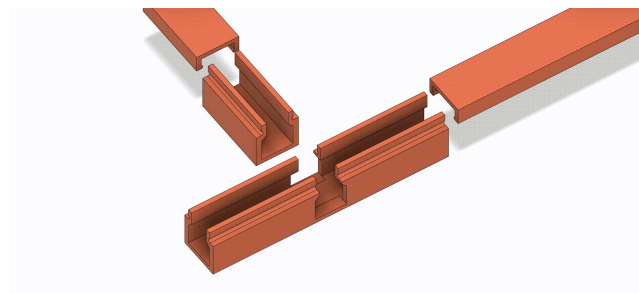
The connector is a joining piece that can be used to link individual parts together. For this purpose, the "EnableScrewHole" parameter must set to "1".



Alternatively, the screw holes can be used to screw the cable ducts onto a surface.

The cable ducts can also be mounted with double-sided adhesive tape.

The parameter "EnableStraightOpenings" allows for the activation of one or two lateral openings on the "StraightBase" component. This feature enables the use of branches to either divert individual cables away or introduce new cables.

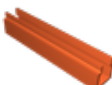


The downward and upward corner pieces may require supports for optimal printing. However, all other pieces can be printed successfully without supports.

If you print this cable duct, please post a make! I would love to see how it turns out and hear your feedback.

Thank you in advance for your support, and happy printing!

Model files

Cable Duct for a single cable		15 files
	connector.stl	
	straightbase50mm.stl	
	straightlid50mm.stl	
	straightbase100mm.stl	
	straightlid100mm.stl	
	straightbase200mm.stl	



straightlid200mm.stl



roundcornerbase.stl



roundcornerlid.stl



angularcornerbase.stl



angularcornerlid.stl



upwardscornerbase.stl



upwardscornerlid.stl



downwardscornerbase.stl



downwardscornerlid.stl

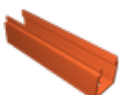


Cable Duct for multiple cables

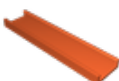
15 files



connector.stl



straightbase50mm.stl



straightlid50mm.stl



straightbase100mm.stl



straightlid100mm.stl



straightbase200mm.stl



straightlid200mm.stl



roundcornerbase.stl



roundcornerlid.stl



angularcornerbase.stl



angularcornerlid.stl



upwardscornerbase.stl



upwardscornerlid.stl



downwardscornerbase.stl



downwardscornerlid.stl

cable-duct-fusion360-file.f3d

☐ Fusion360 File for unlimited customization!



test-print-cable-duct-for-a-single-cable.stl

☐ print this to test the tolerances and whether the cables fit.



test-print-cable-duct-for-multiple-cables.stl

☐ print this to test the tolerances and whether the cables fit.

Other files

fusion360-parameter-sheet.pdf

☐ Parameter sheet for the uploaded cable duct pieces

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