

Revit cable tray cannot be connected



AI Overview

Cable trays in Revit often fail to connect due to missing or unassigned fittings, elevation mismatches, or template-related system family settings.

Common Causes

- Missing or Unassigned Fittings** Cable trays require fittings (like elbows, tees, and reducers) to connect properly. Even if fittings are loaded into the project, they must be assigned to the cable tray type under the routing preferences. Without this, Revit cannot automatically generate connections between trays.
- System Family Limitations** Cable trays are system families, not loadable families. You cannot load a new cable tray type directly; instead, you must duplicate an existing tray type and assign the desired fittings.
- Fittings themselves** are loadable families and must be present in the project for connections to work.
- Elevation or Alignment Issues** Trays must be on the same level and properly aligned. If trays are askewed or at different elevations, Revit will fail to connect them automatically. For vertical connections, you may need to use vertical bends or create a custom family to simulate a tee or elbow.
- Template or Project Standards** Using a custom template may not include all necessary tray types or fittings. You can transfer project standards from a default Revit electrical template or another project to ensure all required families and types are available.

Step-by-Step Solutions

- Load and Assign Fittings** Go to Cable Tray Fittings in the project browser. Load all required fittings (elbows, tees, reducers). Edit the cable tray type and assign these fittings under routing preferences.
- Duplicate and Configure Tray Types** Select an existing cable tray type in Families > Cable Trays. Right-click and choose Duplicate. Assign the loaded fittings to this new type to ensure proper connectivity.
- Check Elevation and Alignment** Ensure all trays are on the same level or use vertical bends for risers. For complex vertical connections, create a horizontal run, adjust elevation, and add elbows manually if needed.
- Transfer Project Standards if Needed** Open a default Revit electrical template. Use Manage > Transfe...

Article Content

Revit keeps drawing a cable tray fitting after it is removed from the ...

2. Duplicate a cable tray (channel, with fittings) and give it a new name. 3. Set "None" to all fitting types in "Edit type" in the newly created cable tray. 4. When I draw a connection that

Learn REVIT Fast LRF-ELEC-01-03 – Cable Tray – Revit news

Join this channel to get access to perks: Lesson Summary: LRF-ELEC-01-03 – Cable Tray in Revit Lesson Focus: This lesson walks through how to start a project and properly set up for Electrical

Revit Tip – Creating "Rotated" Cable Tray using a Face-Based family

Whilst this can be achieved with structural beam elements, this cannot be achieved with the out of the box cable tray families. Structural beam elements possess a cross-sectional angle

Draw Cable Tray

On the ribbon, select placement options. In the drawing area, click to specify the start of the cable tray run, then move the cursor and click to specify points along

Cable Tray Error

The routing solution failed because there is no default fitting type specified or the fitting cannot be found in the project. Ensure the fitting is loaded in the project and try again. I have the

Cable Tray Family Connector issue

My First Revit Family for Cable Tray Fitting. Tried loading the Created Family in Project but they Connectors are not working as expected. Not sure if i

Cable tray not visible in plan region

Hi, I'm working with cable trays on Revit MEP 2017 and i have to draw a cable tray running at high level above the selected view range. In previous

Cable Tray problem

If "none" is the only selection available, then you need to load the cable tray fittings that you want into the project. Once you get the fittings in the project, you can change the angle to suit

Cable Tray Placement Options

This option is useful for connecting segments at different elevations. However, when drawing cable tray at a different offset or to disable snapping to a non-MEP element, clear Automatically Connect to

Cable trays sporadically disappear from views in Revit

Issue: Users reported that cable trays sporadically disappear from Revit views, while all other model elements are still displayed. Adjusting the view crop might make the cable trays reappear.

Wall mounted Cable Tray

Hey everyone need some help with the below, I've been given a wall-mounted cable tray to extend, but I'm running into an issue. When I try to draw a

How to add Cable Trays in Revit (Oct 2020)

Watch the October 2020 recording of our Building Engineer Community virtual meetup to learn the basics of placing cable tray, adding vertical cable tray, placing cable tray and fittings ...

Cannot Load Cable Tray Family

So I have a template that I work out of that has a single cable tray type loaded. I can load cable tray "Fittings" families but not the actual different

Modify Cable Tray

On the Options Bar, specify cable tray options. Drag the control to move or extend the cable tray segment to a new endpoint, or to connect with another cable tray.

Cable Tray Dimensions not showing up on Ribbon.

Cable Tray Dimensions not showing up on Ribbon. Hi All, I am currently using a cable dado trunking system family in my project. The Family

Cable Tray and Conduit

Add Cable Tray Fittings As you draw cable tray, Revit automatically adds fittings. Use the following procedure to manually add cable tray fittings to an existing segment or run.

Cable tray ladder fittings not visible in plan view in Revit

Load it into the project, now the Cable Tray Fitting should be displayed. Edit family again, change the category back to Cable Tray Fittings. Load it into project again, Cable Tray Fittings

Specific Cable Tray Fitting Family not displayed in Revit ...

Issue: Specific Cable Tray Fitting Family is not displayed correctly in the Revit plan view. The same family can be displayed in the 3D view as expected.

Can't create cable tray bends

I've set the Bend Radius to 300 mm but I just can't create any cable tray bending. How is it done? Error - cannot be ignored No auto-route solution was found.

Cable Tray w/ Automatic Fittings : r/Revit

The routing solution failed because there is no default fitting type specified or the fitting cannot be found in the project. Ensure the fitting is loaded in the project and try again.

Joining cable trays

There are definitely more efficient ways to do this, but you can get the connectors of all cable trays and cable tray fittings, determine which connectors are coincident, and connect them (if

Add conduit and cable tray connectors

and note the options for conduit and cable trade connectors. Those systems cannot be created using conduit or cable tray.

Learn REVIT Fast LRF-ELEC-01-03 – Cable Tray – Revit news

This lesson walks through how to start a project and properly set up for Electrical Cable Tray design in Revit 2025. It focuses on template selection, component availability, and basic setup steps.

Cable tray support script fails

I am partially executing this script for cable trays avoiding fittings. however, with current script I am able place support along cable trays, but it is

Add conduit and cable tray connectors

Add conduit and cable tray connectors Review, configure, and create cable tray connectors.

Conduit is split when crossing cable tray in Revit

Issue: Users have reported that when placing conduit crossing over cable trays within 10" elevation, it is split split and a connection is automatically created between the two categories.

Create cable tray openings in walls and floors in Revit

The tool identifies intersections between cable trays and host elements (walls or floors) and generates corresponding openings, reducing manual input and improving precision.

Cable Tray Fittings in Revit API

From the initial exploration, we see that an application wishing to create a complete connected cable tray run will have to ensure that the cable trays are correctly aligned and also connect them with

Contact Us

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