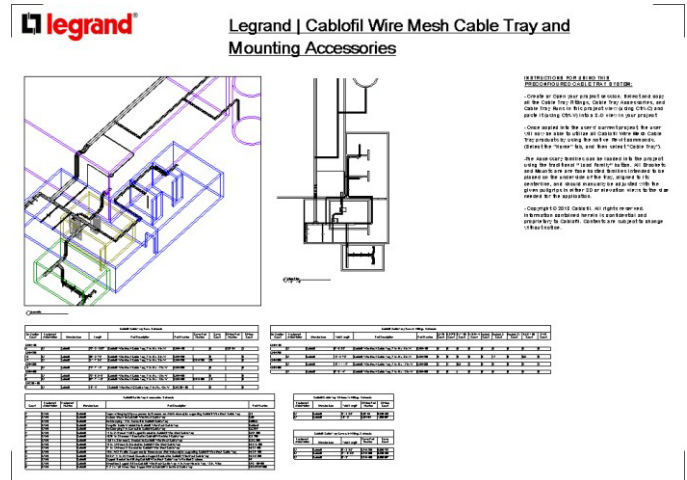




REVIT CONTENT GUIDE

Manufacturer: Cablofil
File: Cable_Tray-Wire_Mesh-Cablofil.rvt
Type Catalog: Not Applicable
Copyright: © Legrand 2022
Schedule file: Cable_Tray-Wire_Mesh-Cablofil.rvt



Loading and Placing into the Project:

To load the system into the project, have the Cablofil cable tray schedule file open in the same instance of Revit as your new project. From within your project, transfer project standards from the schedule file for Cable Tray Types, Cable Tray Settings, and Object Styles. Ensure that the Center Line subcategory is checked to allow for the fittings to be visible in Coarse View. Copy the three schedules from the schedule file into a new sheet view.

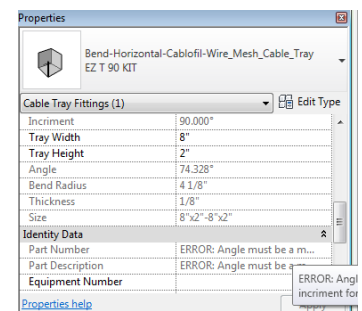
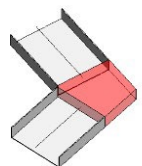
Cable Tray Functionality:

Cablofil Cable Tray can be drawn in Revit using the Revit Cable Tray System Tool. Cable tray components including cable tray runs and fittings will associate to each other and maintain their association through modification to the path of the tray. At any bend or intersection of straight runs, an appropriate fitting will be placed automatically. Project parameters exist in the cable tray system to plan for cover and dividers.

Project Behavior:

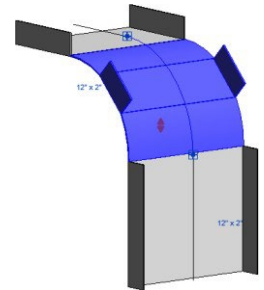
-Fittings

Because the tray in an installation practice is a wire mesh cable tray with no real fittings, all “Fitting Conditions” are made by modifying the tray and joining with splices. The Revit families quantify the counts of individual splices, joiners, and kits as well as modified lengths of straight runs at each instance of a fitting. For example, a 90 degree elbow can be accomplished any of 5 ways, one being with an EZ T 90 kit. With the cable tray tool selected, if a 90 degree turn to a drawn run is made, at the corner of the 2 runs Revit will place a Bend-Horizontal-Cablofil-Wire_Mesh_Cable_Tray automatically with EZ T 90 set as the default type. If the angle is not at 90 degrees, the geometry of the tray will be replaced by an error box (shown top right) and a description of the error “Angle must be a multiple of the indicated available increment for this width/radius combination” which is found in the parameter ‘Increment’ to be 90 (shown bottom right). This error box and error description functionality will appear if an unavailable width or height selection is made as well. The elbow has 4 other types; RAD T 90, Faslock, other than 90 junctions, and SWK, EZ BN 1/4, CE25, ED276. The Faslock and SWK, EZ BN 1/4, CE25, ED276 have special functionality as their ‘Increment’ may be other than 90 degrees depending on the width of the tray which directly affects the radius of the bend.



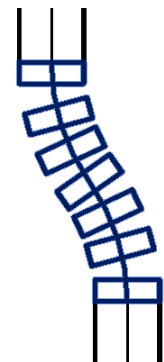
The tees and crosses are made by butting one (or 2 in the case of the cross) trays up to another Cablofil tray and using either Rad T 90's, EZ T 90's, or SWK , EZ BN 1/4 , CE25 , ED276 Kits to join the cut sections to the straight section. In the project, Revit will place Tee-Cablofil-Wire_Mesh_Cable_Tray or Cross-Cablofil-Wire_Mesh_Cable_Tray at the intersection. These fittings will only show an error with an unavailable height/width selected.

The vertical bend family works for both up and down vertical bends of the tray. Vertical bends of tray are made by cutting alternating sections of the sidewall and bending the bottom side of the tray. Since the tray is made up of 2"x4" sections, the bend can only be made at certain radii but at any angle. To place the tray, with the cable tray tool selected change the offset and continue drawing. The tool should place one vertical inside and one outside fitting. Using the pullgrip (shown right), change the desired radius of the bend and the fitting will adjust to the nearest available radius. This family will only produce an error if an unavailable height/width is selected.



-Cablobend

The inclusion of a new type of fitting, Cablobend, allows for more configurability by the user. The Cablobend fitting is offered as a separate fitting option with the cable tray – a flexible fitting that can bend both vertically and horizontally without the need to cut. When a tray with “Cablobend Fittings” is selected the horizontal and vertical bends will be created automatically when drawing the tray. These automatically created Cablobend fittings may be smaller in size than the standard Cablobend and will require the Calobend sections to be cut to size.



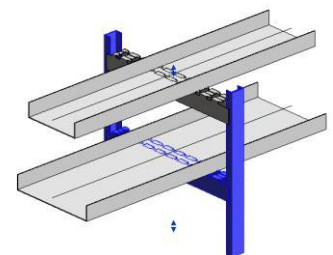
-Cablobend Offset Fitting

The Cablobend Offset families allow the end user to specify a particular vertical or horizontal offset (depending on family selected) that will be generated by the fitting. The user can specify the lateral offset and length parameter to fit their particular offset need. The length has a specified limit of 45” – any length supplied above that will not be generated and this is provided within the construction parameters.

-Accessories

All accessories are work plane based and intended to be placed on the underside or sidewall of the Cable Tray for a consistent work flow and ease of placement and alignment. Most Brackets exhibit a pullgrip to change their length. All components will always round the pullgrip input to the nearest available product.

FLOOR BRACKET: This model has 2 pullgrips to adjust the width evenly from the center as well as one to adjust the height.



CROSS BAR BRACKET: (shown right) Has one upper pullgrip to modify the height of the supports and a lower grip to adjust the mounting height of the crossbar. If the EDF rail is deselected, multiple cross bars can be tiered on a common component.

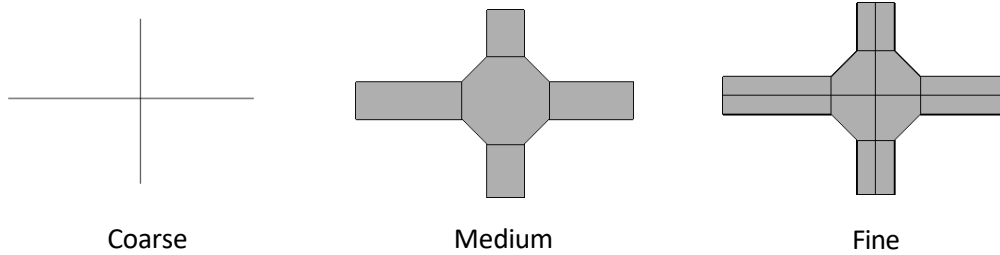
FAS PROFILE TRAPEZE: Has 2 pullgrips to adjust the width evenly from the center as well as an upper and lower grip to adjust the lengths of the threaded rods.

CONDUIT CLAMP: Is workplane based and will host to the sidewall or underside of the cable tray. It contains a conduit connector which can be used to be connected to a conduit system. Changing the size of the conduit (which can be done in the ‘Instances’ Dialog) will change the model of clamp.

TRAY TO CONDUIT: Is a cable tray family that will stay associated to the cable tray system and resize automatically. It has 2 conduit connectors of variable size for conduit to be drawn from the clamps. A third Conduit Face Connector will allow conduit of any size in any location to be drawn for additional conduit.

Visibility:

For a consistent project performance, all model geometry is visible in Plan View to match the straight runs in the project. The Cable Tray runs and fittings are all represented as a channel in Fine, shown as a solid tray in Medium, and represented through center lines in Coarse. All accessories are always visible in all 3 view settings with no notable changes in level of detail.



There are 5 schedules to transfer into the user's project. The Cable Tray Runs in Fittings Schedule is intended to be used in conjunction with the Cable Tray Runs Schedule to achieve a total length of Cablofil Cable Tray sections to be ordered. The Runs in Fittings Schedule will quantify all the associated Kits, Joiners, and Splices of Cablofil Cable Trays to be ordered despite geometry for them not being represented in the project environment. The accessories schedule will display all manually placed brackets and kits with a quantity, part number, and description. The other two schedules are for calculating the total number of covers and dividers that are used in the fittings, this should be used in conjunction with the cover and divider count in the Cable Tray Runs Schedule.

[illegible]

Cable/E Cable Tray Devices in Filings Schedule				
Equipment Abbreviation	Manufacturer	Total Length	Device Part Number	Device Count
C/F	Cable/E	2' - 4' 30"	C/F F 5A	0.000/450
C/F	Cable/E	10' - 2"	C/F F 5A	0.000/001

Cabinet & Cable Tray Covers in Filing Schedule				
Equipment Abbreviation	Manufacturer	Total Length	Cover Part Number	Cover Count
C1	CableLife	0' - 3.93'	CYH 200	0.000192
C2	CableLife	0' - 10.93'	CYH 900	0.000453
C3	CableLife	0' - 3'	CYH 450	0.000091