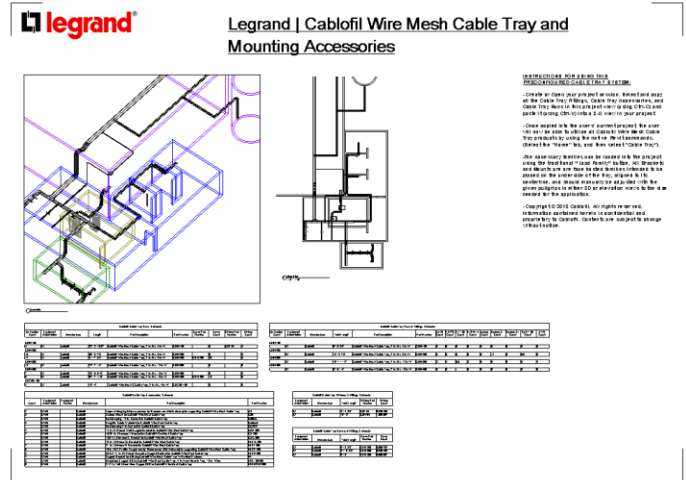




REVIT CONTENT GUIDE

Manufacturer: Cablofil
File: Cable_Tray-Wire_Mesh-Cablofil.rvt
Type Catalog: Not Applicable
Rendering file: Not Applicable
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.

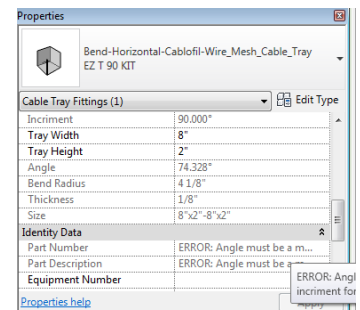
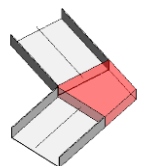
Cable Tray Functionality:

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:

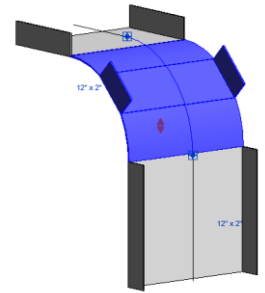
-Fittings

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.

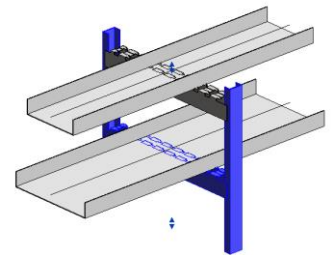
The vertical bend family works for both up and down vertical bends of the tray. Vertical bends of tray are made by cutting alternating sections of the sidewall and bending the bottom side of the tray. Since the tray is made up of 2"x4" sections, the bend can only be made at certain radii but at any angle. 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.



-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.

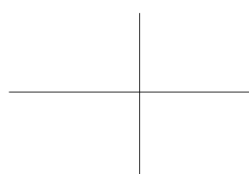
FAS PROFILE TRAPEZE: Has 2 pullgrips to adjust the width evenly from the center as well as an upper and lower grip to adjust the lengths of the threaded rods.

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.

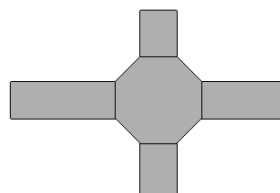
TRAY TO CONDUIT: Is a cable tray family that will stay associated to the cable tray system and resize automatically. It has 2 conduit connectors of variable size for conduit to be drawn from the clamps. A third Conduit Face Connector will allow conduit of any size in any location to be drawn for additional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

Visibility:

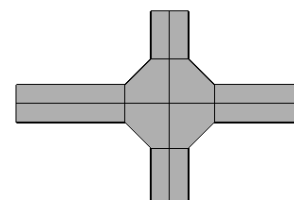
For a consistent project performance, all model geometry is visible in Plan View to match the straight runs in the project. The Cable Tray runs and fittings are all represented as a channel in Fine, shown as a solid tray in Medium, and represented through center lines in Coarse. All accessories are always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



Coarse



Medium



Fine

Schedule Creation:

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.

Cable Tray Runs Schedule							
Run Section Count	Equipment Abbreviation	Manufacturer	Length	Part Description	Part Number	Cover Part Number	Divider Part Number
C3 34 180							
6	C7	Cablefil	28' - 3 1/8"	Cablefil V-Mesh Cable Tray, 2 in. H x 4 in. W	C3 34 180	0	CO3 1 34
C3 34 200							
18	C7	Cablefil	38' - 3 1/8"	Cablefil V-Mesh Cable Tray, 2 in. H x 8 in. W	C3 34 200	0	0
12	C7	Cablefil	31' - 7 1/8"	Cablefil V-Mesh Cable Tray, 2 in. H x 8 in. W	C3 34 200	CVN 300	0
C3 34 300							
18	C7	Cablefil	44' - 7 1/8"	Cablefil V-Mesh Cable Tray, 2 in. H x 12 in. W	C3 34 300	0	0
C3 34 400							
7	C7	Cablefil	22' - 9 1/8"	Cablefil V-Mesh Cable Tray, 2 in. H x 12 in. W	C3 34 400	0	0
8	C7	Cablefil	32' - 7 1/8"	Cablefil V-Mesh Cable Tray, 2 in. H x 12 in. W	C3 34 400	CVN 400	0
C3 34 500							
2	C7	Cablefil	12' - 4"	Cablefil V-Mesh C Cable Tray, 2 in. H x 4 in. W	C3 C 30 180	0	0

Cable Tray Accessories Schedule				
Count	Equipment Abbreviation	Manufacturer	Part Description	Part Number
2	C7AX	Cablefil	Tripartite Hanging Clip suspended by threaded rod (P/NL Included) for supporting Cablefil V-Mesh Cable Tray	AX
9	C7AX	Cablefil	Surface Mount for Cablefil V-Mesh Cable Tray	AX
1	C7AX	Cablefil	8 in. Clamping 1/2 in. Cordset for Cablefil Cable Tray	CMC10C
9	C7AX	Cablefil	8 in. Clamping 1/2 in. Cordset for Cablefil Cable Tray	Cablefil
1	C7AX	Cablefil	8 in. Clamping 2 in. Cordset for Cablefil Cable Tray	CMC2UP
2	C7AX	Cablefil	14 in. Universal V-Mesh Support Bracket for Cablefil V-Mesh Cable Tray	CSP 300
2	C7AX	Cablefil	12.5 in. Standard C Bracket for Cablefil V-Mesh Cable Tray	C3 300
1	C7AX	Cablefil	19.5 in. Standard C Bracket for Cablefil V-Mesh Cable Tray	C3C 300
1	C7AX	Cablefil	19 in. Universal C Bracket for Cablefil V-Mesh Cable Tray	U3 C 400
2	C7AX	Cablefil	21 in. Universal L Bracket for Cablefil V-Mesh Cable Tray	U3L 400
9	C7AX	Cablefil	18 in. L AS in. Universal Support Bracket for Cablefil V-Mesh Cable Tray	U3SP 400
9	C7AX	Cablefil	9 AS in. Universal Standard Support Bracket for Cablefil V-Mesh Cable Tray	U3SU 300
2	C7AX	Cablefil	Support Bracket for At-Rough Cablefil V-Mesh Cable Tray for Vertical Surfaces	SV
8	C7AX	Cablefil	Underlay Support Kit for Cablefil V-Mesh Cable Tray, 4 in. x 1/2 in. x 1/2 in. for Tray, 18 in. Wide	U3 V 100400
8	C7AX	Cablefil	21 x 2 in. Flat Underlay Support Kit for Cablefil V-Mesh Cable Tray	U3 SUHVP 300

Cable Tray Runs in Fittings Schedule														
Run Section Count	Equipment Abbreviation	Manufacturer	Total Length	Part Description	Part Number	CO3 Count	CO3V Count	C3 1 30 Count	C3 1V 30 Count	CO3V14 Count	Subkit Count	Subkit 5 Count	Subkit XL Count	Subkit Count
C3 34 180														
6	C7	Cablefil	28' - 3 1/8"	Cablefil V-Mesh Cable Tray, 2 in. H x 4 in. W	C3 34 180	0	0	0	0	0	0	0	0	0
C3 34 200														
1	C7	Cablefil	12' - 3 1/8"	Cablefil V-Mesh Cable Tray, 2 in. H x 8 in. W	C3 34 200	0	0	5	0	0	2	0	0.5	0
C3 34 300														
1	C7	Cablefil	12' - 11 1/2"	Cablefil V-Mesh Cable Tray, 2 in. H x 12 in. W	C3 34 300	0	4	5.5	0	0	0	0	4	0
C3 34 400														
1	C7	Cablefil	32' - 8 1/4"	Cablefil V-Mesh Cable Tray, 2 in. H x 12 in. W	C3 34 400	0	0	1	0	0	0	0	0	0

Cable Tray Dividers in Fittings Schedule				
Equipment Abbreviation	Manufacturer	Total Length	Divider Part Number	Divider Count
C7	Cablefil	28' - 3 1/8"	CO3 1 34	0.000453
C7	Cablefil	12' - 3"	CO3 1 34	1.000007

Cable Tray Covers in Fittings Schedule				
Equipment Abbreviation	Manufacturer	Total Length	Cover Part Number	Cover Count
C7	Cablefil	28' - 3 1/8"	CVN 300	0.000452
C7	Cablefil	12' - 10 1/8"	CVN 300	0.000453
C7	Cablefil	12' - 3"	CVN 400	0.000007