INSTALLATION GUIDE
Cablofil, the inventor of wire mesh cable tray is a revolutionary cable management system that provides exceptional strength combined with the flexibility to adapt easily to field requirements. Installation is easier since wire mesh requires fewer parts and the FAS system allows splice, bracket and accessory connections without hardware! Manufactured in the heartland of the US, Cablofil is dedicated to providing superior quality product, service and expertise.

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For more information visit www.cablofil.com
FINISHES

Cablofil wire cable tray and accessories are available in a variety of finishes to meet any industry need, from decorative to extreme environments. Use this chart to help you determine the best finish for your application and its availability.

Standard finish is EZ, electroplated zinc. (Indoor applications) Stock finishes available include [EZ], electroplated zinc, [316L], 316 stainless steel, [GC], Hot dipped galvanized, [BL] Black powder coat paint

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- recommended
- possible

For a more detailed explanation of finish standards and compatibility, visit www.cablofil.com.
**HOW TO CUT CABLOFIL CABLE TRAY**

- Always use side action bolt cutters.
- Angle all cuts away from the new end.
- Cut each wire with one clean cut — eliminating any grinding or touch-up.

- Cut the bottom wires first, in order as shown, from the underside of the tray.
- Rest the lower jaw of the cutters against the cradle wire and cut at an angle away from the new end.

- Cut the side wires next, starting with the top wire.
- Make sure the finished cut is safe and ready for installation.

**USING A POWER CUTTER TO CUT CABLOFIL CABLE TRAY**

Cutify from Cablofil makes cutting wire cable tray easy. This lightweight power tool features a 330° swivel cutting head to make cuts from any angle. One button control engages and retracts blade for each cut. Cutify Kit comes in a padded carrying case with 2 batteries and a charger.

Use the same cutting procedures as outlined on the previous page when using Cutify. Remember to always wear safety goggles and follow safe procedures when using power equipment.

For more information visit www.cablofil.com
HOW TO SPLICE CABLOFIL CABLE TRAY - EDRN

**Splicing Guidelines**

<table>
<thead>
<tr>
<th>Splice Code</th>
<th>7&quot; (178 mm)</th>
<th>12&quot; (300 mm)</th>
<th>18&quot; (457 mm)</th>
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<td>2x EDRN</td>
<td>2x EDRN</td>
<td>2x EDRN</td>
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<tr>
<td>EDRN split as needed</td>
<td>1&quot; (25 mm)</td>
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</table>

**Instructions**

1. 2x EDRN
2. 2x EDRN
3. 1" (25 mm)
4. 2x EDRN

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HOW TO SPLICE CABLOFIL CABLE TRAY - PRECLICK

**Splicing Guidelines**

<table>
<thead>
<tr>
<th>Splice Code</th>
<th>7&quot; (178 mm)</th>
<th>12&quot; (300 mm)</th>
<th>18&quot; (457 mm)</th>
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<td>PRECLICK split as needed</td>
<td>2x PRECLICK</td>
<td>2x PRECLICK</td>
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<tr>
<td>SWK split as needed</td>
<td>1x SWK</td>
<td>2x SWK</td>
<td></td>
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</tbody>
</table>

**Instructions**

1. 2x PRECLICK
2. 2x SWK
3. 1x SWK
4. 2x SWK

Step 1-2: Snap a PRECLICK on each length of Cablofil tray to be joined.

Step 3: Snap in place with a screwdriver or a Simple "3/8" wrench.

Step 4: Snap in place with a long driver or a Simple "5/8" wrench.

Step 5: Join bent lengths of Cablofil tray and snap in place. (two optional)

Removing PRECLICK: Use a screwdriver to remove PRECLICK.

---

HOW TO SPLICE CABLOFIL CABLE TRAY - SWK

**Splicing Guidelines**

<table>
<thead>
<tr>
<th>Splice Code</th>
<th>7&quot; (178 mm)</th>
<th>12&quot; (300 mm)</th>
<th>18&quot; (457 mm)</th>
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<td>2x SWK</td>
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<td>2x SWK</td>
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</tbody>
</table>

**Instructions**

1. 2x SWK
2. 1x SWK
3. 2x SWK
4. 1x SWK

- Use SWK to splice any two sections of Cablofil tray.
- Swaged nut allows clamp to be stationary while nut is tightened.
- Consult chart below for correct number of SWK sets needed for each width of tray.

---

For more information visit www.cablofil.com
HOW TO SPLICE CABLOFIL CABLE TRAY - CE 25, CE 30

- Use CE 25 and CE 30 with EZ BIN 1/4 to splice any two sections of Cablofil tray.
- Consult chart below for correct number of Nut/ Bolt/Clamp sets needed for each width of tray.

DIRECTIONAL CHANGE HARDWARE

<table>
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<tr>
<th>90 DEGREE BENDS</th>
<th>FASLOCK (SWEEP)</th>
<th>SWK (SWEEP)</th>
<th>RAD750</th>
<th>EZ750</th>
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HORIZONTAL TEE

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<td>24&quot;</td>
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For more information visit www.cablofil.com
One RAD T 90 KIT will make one T Junction.
One EZ T 90 KIT will make one T Junction.
90° BENDS: RAD T 90 KIT

One RAD T 90 KIT will make two 90° Bends.
90° BENDS: EZ T 90 KIT

One EZ T 90 KIT will make two 90° Bends. For complete kit description see page 25.

For more information visit www.cablofil.com
One EZ T 90 KIT will make two 90° Junctions.
Sweeps can be formed easily on site by cutting some of the side and bottom wires. Use the SWK method to secure desired curve. Always place bolt heads to inside of tray to prevent frayed wires.
Sweeps can be formed easily on site by cutting some of the side and bottom wires. Use the FASLOCK method to secure desired curve.
REDUCTIONS

CHANGING LEVELS

To avoid obstructions or change levels, cut the side wires as shown and bend Cablofil cable tray to the angles needed.

CUTTING AND BENDING
Per NEC 392, the national electrical code section for cable tray, all cable tray systems must be properly BONDED, per section 259.96. To meet this requirement, Cablofil recommends that UL-classified splices are used to join sections and that the cable tray be bonded to building steel or the facility grounding system every 50'-60'. By bonding the tray every 50'-60', the tray will maintain a low potential to ground which reduces EMI and provides a continuous path for stray currents. Steel trapeze type hangers clamped securely to building steel usually provide a solid bond. Cablofil standard splices (SWK, EDRN, EZBN, EDT, EZT90, RADT90) are designed to have less than 1 milliamp of resistance between connections and provide bonding between sections. These splices have been tested by UL as part of the cable tray grounding system. Painted Cablofil wire mesh tray requires the outer mask of the conductive surface be removed at each end of the tray prior to installing the (SWK) splice. This (SWK) splice provides a UL Classified Bonding continuity between painted tray sections. All cable tray needs to be electrically continuous per NEC 250.96. Standard Cablofil splices provide continuity per NEC 250.96. Cutting and removal of cable tray sections will allow continuity per NEC 250.96 and only affects the rare use of cable tray as the EGC. Use of cable tray as an EGC is rare since UL requires all multiconductor cables to contain an integral EGC and single conductor cables are only used in a few industrial applications.

LOADING

Cablofil has been tested to UL, CSA, NEMA VE1 and IEC standards. Cablofil wire mesh tray and supports are designed to support any cable load allowed by the NEC when supports are spaced on 8" spans. Only the heaviest cables (750 kcmil multiconductor power or larger) may require shorter spans. For specific loading go to the interactive load table on www.cablofil.com and choose your exact cable for detailed cable capacity and span requirements.

SUPPORT SPACING

Cablofil comes in 118" lengths and straight sections are designed for 6'-8" support spacing; (building joists or purlins are typically on 6'-7" spacing)

Cablofil has developed the following diagrams as a general guideline for supporting Field Fabricated Wire Mesh Tray. These guidelines will provide assistance in estimating and locating supports for the most common wire mesh tray installations. Supports are required as some of the side wires have been cut and the load capacity has been reduced. In actual installation, shallow and narrow trays may not require as many supports just as deep and wide trays may require additional supports. The installer should keep in mind that unique requirements arise in the field and practical solutions are often simple.
**Horizontal Y Support**
Center support not required on trays less than 12" wide.

**Reduction Support**

**Horizontal Cross Support**
On 24" wide items, recommended distance is 1 ft. 6 in. (457mm) from splice connection.

**Horizontal Tee Support**
Additional support recommended at back of tee (shown) or directly under tee, diagonally positioned, for 4" and 6" deep trays, 18" and wider.

**Vertical Transition**
Support vertical transition at top support location. Distances of 3 ft. and larger should be supported at each end as illustrated.