A bill of materials is the list of product item numbers that are required to accurately price and supply a lighting system.

Before you begin, you will need a rough plan of the lighting required for your project or a list of the pieces your client has requested.

**Process overview**
1. Use the catalog to help you select the appropriate system, elements, and options for your design.
2. Use the layout worksheet to gather information.
3. Use the detailed steps in this booklet to determine the exact item numbers of the products required for the project.

**Tools**

![Tech Lighting Full Line Catalog](image1)
![Wilmette Full Line Catalog](image2)
![T-trak Full Line Catalog](image3)
![This Booklet](image4)
![Layout Worksheet](image5)

**Additional resources**

Your local Encompass Lighting sales representative can provide you with product information and pricing. For the name and phone number of your local rep, visit our website: www.encompasslighting.com.

Also visit our website for technical and product information, including spec sheets and installation instructions.

Our toll-free Quotation and Customer Support Hotline, 800.522.5315 is available Monday-Friday, 8:30 a.m.-5:00 p.m. Central Standard Time.
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Wilmette Systems

MonoRail pp. 20-23

T~trak Systems

T~trak pp. 24-27
Step One: Design Your Tech Lighting MonoRail System

**ELEMENTS** (Pendants, Heads, and Functional Art):
Choose elements from product overview (pp. 14-17).
Determine item number(s) (pp. 28-129).

Choose Accessories and Optical Controls, if required or desired (pp. 28-129).
Determine item number(s) (pp. 326-339).

Choose lamps, 12 or 24 volt, that do not exceed maximum wattage of element or accessory (may be included; pp. 28-129).
Determine item number(s) (pp. 340-341).

Add up total lamp wattage on system.

**FINISH:**
Choose finish of system and make sure all components are specified as such.

**DRAWING:**
Use scaled drawing as a reference.

**LENGTH:**
Measure length of MonoRail run; determine quantity and length of MonoRail pieces required (p. 240).

Specify one pair of End Caps for each open end of run (p. 241).

Determine number of Standoffs, one for every three feet of run.

Does the run include a sharp angle or turn?
If so, specify a Flexible Connector to make the turn (p. 241).

Would you like the Rail to be custom bent at the factory? If so, please provide the degree and radius of each curve by fax to the quotes department, 847.410.4720, for a quotation.
## Step Two: Add Power and Hardware to Complete the System

**Transformer**: *(p. 244)*

Choose:
- Magnetic or electronic
- 12 volt or 24 volt
  - *Output wattage _________
    - Single or dual-feed

**AND**

Specify a Power Feed Canopy, single or dual-feed *(p. 245)*.

**OR**

**Surface Transformer** *(p. 246)*

Choose:
- Magnetic or electronic
- 12 volt or 24 volt
  - *Output wattage _________
    - Single or dual-feed

*Wattage of the transformer must meet or exceed wattage of lamps calculated on previous page.*

**If you are using LED heads or pendants, be sure to choose a transformer that is compatible with LED fixtures.**

<table>
<thead>
<tr>
<th>QTY</th>
<th>ITEM NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>700AT _________ AND 700MOP _________</td>
</tr>
<tr>
<td>0</td>
<td>700MO _________</td>
</tr>
</tbody>
</table>

If powering system with more than one Transformer, add Isolating Connectors *(p. 241)* to isolate the feeds from each other.

<table>
<thead>
<tr>
<th>QTY</th>
<th>ITEM NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>700MOCINC</td>
</tr>
</tbody>
</table>

If dropping system a distance below ceiling, add one Power Extender *(p. 245)* to each Power Feed (add two when using dual-feed).

<table>
<thead>
<tr>
<th>QTY</th>
<th>ITEM NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>700MOP _________</td>
</tr>
</tbody>
</table>

**Mounting:**

Select Standoffs *(p. 242)* that match or exceed drop of the Surface Transformer or Power Feed. Refer to Length section on previous page for quantity.

<table>
<thead>
<tr>
<th>QTY</th>
<th>ITEM NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>700MOS _________</td>
</tr>
</tbody>
</table>

Is the ceiling vaulted? If so, specify one Power Vault Adapter *(p. 250)* for each power feed (add two when using dual-feed).

<table>
<thead>
<tr>
<th>QTY</th>
<th>ITEM NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>700MOPVLT _________</td>
</tr>
</tbody>
</table>

Then specify one Standoff Vault Adapter for each Standoff *(p. 250)*.

<table>
<thead>
<tr>
<th>QTY</th>
<th>ITEM NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>700MOCVLT _________</td>
</tr>
</tbody>
</table>

**Special:**

This outline covers only the most common MonoRail applications, but MonoRail can do almost anything. For other MonoRail system options, see Special Installations on *(pp. 248-251)* of the catalog, or call your local representative or Tech Lighting quotes department *(800.522.5315)*.

www.techlighting.com
Sample Bill of Materials - As seen on p. 93 of the Tech Lighting Full Line Catalog

### CHECKLIST

**Make sure your Bill of Materials includes:**

- Elements (pp. 28-129)
- Accessories and Optical Controls (pp. 326-339)
- Lamps—if not included with elements; (pp. 340-341, lamps must not exceed maximum wattage of element or accessory)
- MonoRail (p. 240)
- End Caps (one pair for each open end; p. 241)
- Transformer (pp. 244, 246)
- Power Feed Canopy (for remote transformer; p. 245)
- Power Extender (if necessary; p. 245)
- Isolating Connectors (if necessary; p. 241)
- Standoffs—one for every three feet of run (p. 242, standoff lengths must match power feed length)
- Make sure all finishes match and item numbers end with Z (Antique Bronze), C (Chrome), or S (Satin Nickel)

### Sample Bill of Materials

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Item Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3</td>
<td>700MOAE3S</td>
<td>MO-Aero 3&quot;, Satin Nickel</td>
</tr>
<tr>
<td>B</td>
<td>2</td>
<td>700MOCMULFS</td>
<td>MO-Camille, Inner Frost, Satin Nickel</td>
</tr>
<tr>
<td>C</td>
<td>3</td>
<td>700MR16GF</td>
<td>Round Glass Shield Accessory, Frost, Aluminum</td>
</tr>
<tr>
<td>D</td>
<td>3</td>
<td>300BLV136</td>
<td>12v GE CC, Hal MR16, GU5.3 55° 50w</td>
</tr>
<tr>
<td>E</td>
<td>3</td>
<td>700MOA96S</td>
<td>Clear MonoRail 96&quot;, Satin Nickel</td>
</tr>
<tr>
<td>F</td>
<td>2</td>
<td>700MOCCAPS</td>
<td>MO End Caps, pair, Satin Nickel</td>
</tr>
<tr>
<td>G</td>
<td>1</td>
<td>700AT300T</td>
<td>Remote Magnetic Transformer, 12v 300w</td>
</tr>
<tr>
<td>H</td>
<td>1</td>
<td>700MOP402S</td>
<td>MO Single Feed Canopy, 4&quot; Round, Satin Nickel</td>
</tr>
<tr>
<td>I</td>
<td>1</td>
<td>700MOP06S</td>
<td>MO Power Extender, 6&quot;, Satin Nickel</td>
</tr>
<tr>
<td>J</td>
<td>8</td>
<td>700MOS04S</td>
<td>MO Rigid Standoff, 4&quot;, Satin Nickel</td>
</tr>
</tbody>
</table>

---

[www.techlighting.com](http://www.techlighting.com)
TWO-CIRCUIT MONORAIL SYSTEM

END CAPS
RIGID STANDOFF
MO2 HEAD
MR16 LAMP
UV LENS
MO2 KIEV PENDANT
SURFACE TRANSFORMER

www.techlighting.com
Step One: Design Your Tech Lighting Two-Circuit MonoRail System

Page numbers below reference the Tech Lighting Full-Line Catalog (921TLFLCAT09), unless indicated otherwise.

ELEMENTS (Pendants, Heads, and Functional Art):
Choose elements from product overview (pp. 14-17).
Determine item number(s) (pp. 28-129).

Choose Accessories and Optical Controls, if required or desired (pp. 28-129).
Determine item number(s) (pp. 326-339).

Choose 12 volt lamps that do not exceed maximum wattage of element or accessory (may be included; pp. 28-129).
Determine item number(s) (pp. 340-341).

Add up total lamp wattage on system. __________ watts

FINISH:
Choose finish of system and make sure all components are specified as such.

(Z) ANTIQUE BRONZE
(C) CHROME
(S) SATIN NICKEL

DRAWING:
Use scaled drawing as a reference.

LENGTH:
Measure length of Two-Circuit MonoRail run; determine quantity and length of Two-Circuit MonoRail pieces required (p. 260).

Specify one pair of End Caps for each open end of run (p. 261).

Determine number of Standoffs, one for every three feet of run.

Does the run include a sharp angle or turn?
If so, specify a Flexible Connector to make the turn (p. 261).

Would you like the Rail to be custom bent at the factory? If so, please provide the degree and radius of each curve by fax to the quotes department, 847.410.4720, for a quotation.
TWO-CIRCUIT MONORAIL SYSTEM

Step Two: Add Power and Hardware to Complete the System

**TRANSFORMER:**

Remote Transformer (p. 264)

Choose:
- Magnetic or electronic
- 12 volt
- *Output wattage ___________
- Single or dual-feed

**AND**

Specify a Power Feed Canopy, single or dual-feed (p. 265).

**OR**

Surface Transformer (p. 265)

Choose:
- Magnetic or electronic
- 12 volt
- *Output wattage ___________
- Single or dual-feed

*Wattage of the transformer must meet or exceed wattage of lamps calculated on previous page.*

If powering system with more than one transformer, add Isolating Connectors (p. 261) to isolate the feeds from each other.

If dropping system a distance below ceiling, add one Power Extender (p. 265) to each Power Feed (add two when using dual-feed).

**MOUNTING:**

Select Standoffs (p. 262) that match or exceed drop of the Surface Transformer or Power Feed. Refer to Length section on previous page for quantity.

Is the ceiling vaulted? If so, specify one Power Vault Adapter (p. 268) for each power feed (add two when using dual-feed).

Then specify one Standoff Vault Adapter for each Standoff (p. 268).

**SPECIAL:**

This outline covers only the most common Two-Circuit MonoRail applications, but Two-Circuit MonoRail can do almost anything. For other Two-Circuit MonoRail system options, see Special Installations on (pp. 266-268) of the catalog, or call your local representative or Tech Lighting quotes department (800.522.5315).
### CHECKLIST

Make sure your Bill of Materials Includes:

- Elements (pp. 28-129)
- Accessories and Optical Controls (pp. 336-339)
- Lamps—if not included with elements; (pp. 340-341 lamps must not exceed maximum wattage of element or accessory)
- Two-Circuit MonoRail (p. 260)
- End caps (one pair for each open end; p. 261)
- Transformer (p. 264-265)
- Power feed canopy (for remote transformer; p. 265)
- Power extender (if necessary; p. 265)
- Isolating connectors (if necessary; p. 261)
- Standoffs—one for every three feet of run (p. 262, standoff length must match power feed length)

Make sure all finishes match and item numbers end with Z (Antique Bronze), C (Chrome) or S (Satin Nickel)

### SAMPLE BILL OF MATERIALS - As seen on p. 257 of the Tech Lighting Full Line Catalog

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Item Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3</td>
<td>700MO2AE6S</td>
<td>MO2-Aero 6”, Satin Nickel</td>
</tr>
<tr>
<td>B</td>
<td>2</td>
<td>700MO2SAVWS</td>
<td>MO2-Savoy White, Satin Nickel</td>
</tr>
<tr>
<td>C</td>
<td>3</td>
<td>700MR16GF</td>
<td>Round Glass Accessory, Frost</td>
</tr>
<tr>
<td>D</td>
<td>3</td>
<td>300BLV138</td>
<td>12v GE CC. Hal MR16 GU5.3 25° 50w</td>
</tr>
<tr>
<td>E</td>
<td>1</td>
<td>700MO2A96S</td>
<td>Clear Mono2Rail 96°, Satin Nickel</td>
</tr>
<tr>
<td>F</td>
<td>1</td>
<td>700MO2A48S</td>
<td>Clear Mono2Rail 48°, Satin Nickel</td>
</tr>
<tr>
<td>G</td>
<td>2</td>
<td>700MO2CCAPS</td>
<td>MO2 End Caps, Satin Nickel</td>
</tr>
<tr>
<td>H</td>
<td>1</td>
<td>700AT2X300T</td>
<td>2x300T Remote Magnetic Transformer, Single Feed</td>
</tr>
<tr>
<td>I</td>
<td>1</td>
<td>700MO2P4C02S</td>
<td>MO2 Single Feed Canopy, 4” Round, Satin Nickel</td>
</tr>
<tr>
<td>J</td>
<td>3</td>
<td>700MO2506S</td>
<td>MO2 Rigid Standoff 2”, Satin Nickel</td>
</tr>
</tbody>
</table>
Step One: Design Your Tech Lighting Wall MonoRail System

Page numbers below reference the Tech Lighting Full-Line Catalog (921TLFLCAT09), unless indicated otherwise.

**ELEMENTS:**

**WALL MOUNTED**
Choose Wall MonoRail heads (p. 16).
Determine item number(s) (pp. 101-129).

**CEILING MOUNTED**
Choose elements from product overview (pp. 14-17).
Determine item number(s) (pp. 28-129).
Order one Wall MonoRail FreeJack Connector for each element (p. 315).

Choose Accessories and Optical Controls, if required or desired (pp. 28-129).
Determine item number(s) (pp. 326-339).

Choose lamps, 12 or 24 volt, that do not exceed maximum wattage of element or accessory (pp. 28-129).
Determine item number(s) (pp. 340-341).

Add up total lamp wattage on system.

**FINISH:**
Choose finish of system and make sure all components are specified as such.

(Z) ANTIQUE BRONZE
(C) CHROME
(S) SATIN NICKEL

**DRAWING:**
Use scaled drawing as a reference.

**LENGTH:**
Measure length of Wall MonoRail run; determine quantity and length of MonoRail pieces required (p. 276).

Specify one pair of End Caps for each open end of run (p. 277).

Determine number of Standoffs needed, one for every three feet of run.

<table>
<thead>
<tr>
<th>QTY.</th>
<th>ITEM NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>700WM</td>
</tr>
<tr>
<td></td>
<td>700WM</td>
</tr>
<tr>
<td></td>
<td>700WM</td>
</tr>
<tr>
<td></td>
<td>700FJ</td>
</tr>
<tr>
<td></td>
<td>700WMOCHED</td>
</tr>
<tr>
<td></td>
<td>700</td>
</tr>
<tr>
<td></td>
<td>700</td>
</tr>
<tr>
<td></td>
<td>300BLV</td>
</tr>
<tr>
<td></td>
<td>300BLV</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

___________ watts

# of standoffs __________
TRANSFORMER**:

Remote Transformer (p. 278)
Choose:
- Magnetic or electronic
- 12 volt or 24 volt
  *Output wattage _________
  Single or dual-feed

AND
Specify a Power Feed Canopy (p. 279).
(if using a dual feed transformer be sure to order two canopies and one isolating connector)

OR

Surface Transformer (p. 280)
Note: if using a Kable Lite Surface Transformer the transformer must be mounted adjacent to run.
Choose:
- Magnetic or electronic
- 12 volt or 24 volt
  *Output wattage _________
  Single

AND
Specify a Center Power Feed or End Power Feed Connector and determine item number (p. 279).

*Wattage of the transformer must meet or exceed wattage of lamps calculated on previous page.
**If you are using LED heads or pendants, be sure to choose a transformer that is compatible with LED fixtures.

If powering system with more than one transformer, add Isolating Connectors (p. 277) to isolate the feeds from each other.

MOUNTING:
Order Wall MonoRail Standoffs (p. 276).
Refer to Length section on previous page for quantity.

SPECIAL:
This outline covers only the most common Wall MonoRail applications. For other Wall MonoRail system options call your local representative or Tech Lighting quotes department (800.522.5315).
WALL MONORAIL SYSTEM

SAMPLE BILL OF MATERIALS - As seen on pp. 270-271 of the Tech Lighting Full Line Catalog

CHECKLIST
Make sure your Bill of Materials Includes:

- Elements (pp. 28-129)
- Lamps (pp. 340-341)
- Accessories and Optical Controls (pp. 326-339)
- Wall MonoRail (p. 276)
- End Caps (one pair for each open end; p. 277)
- Transformer (pp. 278, 280)
- Power Feed Canopy (for Remote Transformer p. 279)
- End or Center Power Feed (for Surface Transformer; p. 279)
- Isolating Connectors (if necessary; p. 277)
- Standoffs (one for every three feet of run; p. 276)

Make sure all finishes match and item numbers end with Z (Antique Bronze), C (Chrome), or S (Satin Nickel)

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Item Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3</td>
<td>700WMWAL12Z</td>
<td>WMO-Wally Lite 12”, Antique Bronze</td>
</tr>
<tr>
<td>B</td>
<td>3</td>
<td>300BLV138</td>
<td>12v GE CC. Hal MR16 Lamp, GU5.3 25˚ 50w</td>
</tr>
<tr>
<td>C</td>
<td>1</td>
<td>700MOA96BRZ</td>
<td>Brown MonoRail 96”, Antique Bronze</td>
</tr>
<tr>
<td>D</td>
<td>2</td>
<td>700MOCCAPZ</td>
<td>End Caps, pair, Antique Bronze</td>
</tr>
<tr>
<td>E</td>
<td>1</td>
<td>700AT150T</td>
<td>Remote Magnetic Transformer, 12v 150w</td>
</tr>
<tr>
<td>F</td>
<td>1</td>
<td>700WMOP2SQZ</td>
<td>WMO Power Feed Canopy, 2” Square, Antique Bronze</td>
</tr>
<tr>
<td>G</td>
<td>2</td>
<td>700WMOS01Z</td>
<td>WMO Standoff, Antique Bronze</td>
</tr>
</tbody>
</table>

www.techlighting.com
Step One: Design Your Tech Lighting Kable Lite System

Page numbers below reference the Tech Lighting Full-Line Catalog (921TLFLCAT09), unless indicated otherwise.

**ELEMENTS** (Pendants, Heads, and Functional Art):
Choose elements from product overview (pp. 14-17).
Check cable separation requirements. Cable separation is usually 1", 2", 3.5", 5.5", or 8". 5.5" separation has most element options. Determine item number(s) (pp. 28-129).

Choose Accessories and Optical Controls, if required or desired (pp. 28-129).
Determine item number(s) (pp. 326-339).

Choose lamps, 12 or 24 volt, that do not exceed maximum wattage of element or accessory (may be included; pp. 28-129). Determine item number(s) (pp. 340-341).

Add up total lamp wattage on system

**FINISH:**
Choose finish of system and make sure all components are specified as such.

**DRAWING:**
Use scaled drawing as a reference.
Identify mounting locations for turnbuckles and any turns in the run.

**LENGTH:**
Measure length of Kable Lite run; determine distance in feet.
Order two times the length of run plus 10 percent (p. 290).
Choose turnbuckles to tighten cable (p. 291).

<table>
<thead>
<tr>
<th>QTY</th>
<th>ITEM NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>700K</td>
</tr>
<tr>
<td></td>
<td>700K</td>
</tr>
<tr>
<td></td>
<td>700K</td>
</tr>
<tr>
<td></td>
<td>700</td>
</tr>
<tr>
<td></td>
<td>700</td>
</tr>
<tr>
<td></td>
<td>300BLV</td>
</tr>
<tr>
<td></td>
<td>300BLV</td>
</tr>
</tbody>
</table>

__________________ watts

(C) CHROME
(S) SATIN NICKEL
KABLE LITE SYSTEM

Step Two: Add Power and Hardware to Complete the System

**TRANSFORMER**:  
Remote Transformer (p. 294)  
Choose:  
- Magnetic or electronic  
- 12 volt or 24 volt  
  *Output wattage _________  
  Single or dual-feed  

AND  
Specify a Power Feed Canopy, single or dual-feed (p. 295).  

OR  
Surface Transformer (p. 296)  
Choose:  
- Magnetic or electronic  
- 12 volt or 24 volt  
  *Output wattage _________  
  Single or dual-feed  

*Wattage of the transformer must meet or exceed wattage of lamps calculated on previous page.  
**If you are using LED heads or pendants, be sure to choose a transformer that is compatible with LED fixtures.

If powering system with more than one transformer, add Isolating Connectors (p. 293) to isolate the feeds from each other.  

MOUNTING:  
Determine how far below ceiling the system will drop. If using a Surface Transformer drop must exceed height of Transformer (p. 296).

If mounting turnbuckles to ceiling and dropping the system a greater distance below ceiling choose either Rigid T Standoff or Rigid Post Standoff to mount before turnbuckles. Determine item number (p. 292).  

If cables will be making a turn off the wall specify either Horizontal Turn or Wall Turn and determine item number (p. 293).  

If cables will be making a turn off the ceiling specify Rigid Post Standoff Turn. Determine item number (p. 292).  

If using heavier elements, such as glass pendants, or if a span of cable exceeds 20’ without support, specify Adjustable Standoffs. Determine item number (p. 293).  

SPECIAL:  
This outline covers only the most common Kable Lite applications, but Kable Lite is very versatile. For other Kable Lite system options, see Special Installations on (pp. 298-300) of the catalog, or call your local representative or Tech Lighting quotes department (800.522.5315).
CHECKLIST
Make sure your Bill of Materials Includes:

Elements (pp. 28-129), make sure selected cable separation works with elements)
Lamps—if not included with elements; (pp. 240-241, lamps must not exceed maximum wattage
of element or accessory)
Accessories and Optical Controls (pp. 326-339)
Cable (p. 290)
Turnbuckles (one pair for each end; p. 291)
Transformer (pp. 294, 296)
Power Feed Canopy (for remote transformer; p. 295)
Isolating Connectors (if necessary; p. 293)
Ceiling or wall supports (if necessary; pp. 292-293)
Make sure all finishes match and item numbers end with C (Chrome) or S (Satin nickel)

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Item Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>5</td>
<td>700KBYENC</td>
<td>K-Bye-Bye, Aluminum</td>
</tr>
<tr>
<td>B</td>
<td>5</td>
<td>700BLV136</td>
<td>12v GE CC. Hal MR16 Lamp, GU5.3 55° 50w</td>
</tr>
<tr>
<td>C</td>
<td>25 ft.</td>
<td>700KLABAREC</td>
<td>Bare Cable, Tin Plate, per ft.</td>
</tr>
<tr>
<td>D</td>
<td>2</td>
<td>700KPARTTS</td>
<td>Universal Turnbuckles, Satin Nickel</td>
</tr>
<tr>
<td>E</td>
<td>1</td>
<td>700AT300T</td>
<td>Remote Magnetic Transformer 12v 300w</td>
</tr>
<tr>
<td>F</td>
<td>1</td>
<td>700KP4C24S</td>
<td>KL Single Feed Canopy, 4&quot; Round, Satin Nickel</td>
</tr>
</tbody>
</table>

www.techlighting.com
Step One: Design Your Wilmette Monorail System

Page numbers below reference the Wilmette Full-Line Catalog (921WMTFLCAT09), unless indicated otherwise

LOW-VOLTAGE HEADS & PENDANTS:
Choose low-voltage heads & pendants from system thumbnails (p. 137).
Determine item number(s) (pp. 84-129).

Choose Accessories and Optical Controls, if required or desired (pp. 84-129).
Determine item number(s) (pp. 130-131).

Choose lamps that do not exceed maximum wattage of low-voltage head or pendant or accessory (may be included; pp. 84-129).
Determine item number(s) (p. 156).

Add up total lamp wattage on system.

FINISH:
Choose finish of system and make sure all components are specified as such

(Z) ANTIQUE BRONZE
(N) POLISHED NICKEL
(S) SATIN NICKEL

DRAWING:
Use scaled drawing as a reference.

LENGTH:
Measure length of MonoRail run; determine quantity and length of MonoRail pieces required (p. 140).

Specify one pair of End Caps for each open end of run (p. 141).

Determine number of Standoffs, one for every three feet of run.

Does the run include a sharp angle or turn?
If so, specify a Flexible Connector to make the turn (p. 141).

Would you like the Rail to be custom bent at the factory? If so, please provide the degree and radius of each curve by fax to the quotes department, 847.410.4720, for a quotation.
TRANSFORMER**:  
Remote Transformer (p. 142)  
Choose:  
Magnetic or electronic  
*Output wattage _________  
Single or dual-feed  
AND  
Specify a Power Feed Canopy, single or dual-feed (p. 142).

OR  
Surface Transformer (p. 143)  
Choose:  
Magnetic or electronic  
*Output wattage _________  
Single or dual-feed

*Wattage of the transformer must meet or exceed wattage of lamps calculated on previous page.  
**If you are using LED heads or pendants, be sure to choose a transformer that is compatible with LED fixtures.

If powering system with more than one Transformer, add Isolating Connectors (p. 141) to isolate the power feeds from each other.  

If dropping system a distance below ceiling, add one Power Extender (p. 142) to each power feed (add two when using dual-feed).

MOUNTING:  
Select Standoffs (p. 141) that match or exceed drop of the Surface Transformer or Power Feed. Refer to Length section on previous page for quantity.

Is the ceiling vaulted? If so, specify one Power Vault Adapter (p. 144) for each power feed (add two when using dual-feed).  
Then specify one Standoff Vault Adapter for each Standoff (p. 144).

SPECIAL:  
This outline covers only the most common MonoRail applications, but MonoRail can do almost anything. For other MonoRail system options, see pp. 144-145 of the catalog, or call your local representative or Wilmette Lighting quotes department (800.522.5315).
Make sure your Bill of Materials Includes:

- Transformer (pp. 142-143)
- Power Feed Canopy (for remote transformer; p. 142)
- Power Extender (if necessary; p. 142)
- Isolating Connectors (if necessary; p. 141)
- Standoffs—one for every three feet of run (p. 141, standoff lengths must match power feed length)
- MonoRail (p. 140)
- End Caps (one pair for each open end; p. 141)
- Low-Voltage Heads & Pendants (pp. 84-129)
- Accessories and Optical Controls (pp. 130-131)
- Lamps—if not included with low-voltage heads and pendants (p. 156, lamps must not exceed maximum wattage of element or accessory)

Make sure all finishes match and item numbers end with Z (Antique Bronze), N (Polished Nickel) or S (Satin Nickel)
Step One: Design Your T-trak System

Choose Single or Two-Circuit T-trak and make sure all components are specified as such (TT Single-Circuit T-trak) (TT2 Two-Circuit T-trak).

**ELEMENTS** (Pendants and Heads):
Choose elements from product overview (pp. 16-19).
Determine item number(s) for line-voltage elements (pp. 44-98).
Choose Accessories and Optical Controls, if desired (pp. 66-67 & pp. 75, 77).

Determine item number(s) for low-voltage FreeJack elements (pp. 28-129 of Tech Full Line Catalog).
Order one T-trak FreeJack connector for each FreeJack low-voltage element (p. 18).
Choose Accessories and Optical Controls, if required or desired (pp. 226-233 of Tech Full Line Catalog).
Determine item number(s) (pp. 226-233).

Choose lamps that do not exceed maximum wattage of element or accessory (may be included; pp. 44-98 line-voltage; pp. 28-129 low-voltage).
Determine item number(s) (pp. 105-106, also pp. 234-236 of Tech Full Line Catalog).

**FINISH:**
Choose finish of system and make sure all components are specified as such.

**DRAWING:**
Use scaled drawing as a reference.

**LENGTH:**
Measure length of T-trak run; determine quantity and length of T-trak pieces required (p. 20).

Determine number of Rigid Standoffs with Connector, one for each connection point between track sections.

Determine number of Rigid Standoffs without Connector, one for the center of each 8’ track section plus two for the ends of the run.

Does the run include a sharp angle or turn?
If so, specify a Flexible Connector to make the turn (p. 21) and add 2 Rigid Standoffs without Connector (above).

Would you like the track to be custom bent at the factory? If so, please provide the degree and radius of each curve by fax to the quotes department, 847.410.4720, for a quotation.

<table>
<thead>
<tr>
<th>QTY.</th>
<th>ITEM NUMBER</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>700TT</td>
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<td></td>
<td>700TT</td>
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<td></td>
<td>700FJ</td>
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<tr>
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<td>700TTCHEDFJ</td>
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<td></td>
<td>300</td>
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<tr>
<td>7</td>
<td>700TTCFXHS</td>
</tr>
</tbody>
</table>

**COLORS**

(Z) **ANTIQU E BRONZE**
(SELECTED FIXTURES)

(5) **SATIN NICKEL**

(W) **WHITE**
POWER FEED CANOPY:
Determine how far below the ceiling the system will be dropped.

Power Feed Canopy (p. 22)
Choose:
  Type of Power Feed
  Length of Drop

If using a Power Feed Canopy “with connector” you can reduce your standoff with connector count (on previous page) by one.

MOUNTING:
Select Rigid Standoffs with Connector (p. 21) that match the drop of the Power Feed Canopy. Refer to Length section on previous page for quantity.

Select Rigid Standoffs without Connector (p. 21) that match the drop of the Power Feed Canopy. Refer to Length section on previous page for quantity.

Is the ceiling vaulted? If so specify one Power Vault Adapter (p. 24) for each Power Feed Canopy. Then specify one Standoff Vault Adapter for each Standoff (p. 24).

SPECIAL:
This outline covers only the most common T~trak™ applications, but T~trak can do almost anything. For other system options, see Special Installations on (pp. 24-25) of the catalog, or call your local representative or Tech Lighting quotes department (800.522.5315).
# T-TRAK SYSTEM

## SAMPLE BILL OF MATERIALS - As seen on p. 79 of the T-trak Full Line Catalog

### CHECKLIST

**Make sure your Bill of Materials Includes:**

- **Power Feed Canopy** (p. 22, without connector if powering from the center of a section of track; with connector if joining sections of track)
- **Standoffs with Connector** (p. 21, one for each connection point between track sections)
- **Standoffs without Connector** (p. 21, one for the center of each 8’ track section plus two for the ends of the run)
- **T-trak** (p. 20)
- **Elements—line-voltage** (pp. 44-98)
- **Elements—low-voltage**; order one T-trak FreeJack connector (p. 18) for each FreeJack element (pp. 28-129 of Tech Full Line Catalog)
- **Accessories and Optical Controls** (pp. 66-67, 75, 77 line-voltage; pp. 226-233 of Tech Full Line Catalog, low-voltage) (pp. 28-129 of Tech Full Line Catalog)
- **Lamps**—if not included with elements; (pp. 105-106, also pp. 234-236 of Tech Full Line Catalog), lamps must not exceed maximum wattage of element or accessory)
- Make sure all finishes match and item numbers end with (Z) Antique Bronze, (S) Satin Nickel or (W) White

### SAMPLE BILL OF MATERIALS

As seen on p. 79 of the T-trak Full Line Catalog

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Item Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>4</td>
<td>700TTOM2006FW</td>
<td>TT-Om PAR20 6”, Frost Lens Ring, White</td>
</tr>
<tr>
<td>B</td>
<td>4</td>
<td>300BH417</td>
<td>120v Inc PAR20 E26 Med 40˚ 50w</td>
</tr>
<tr>
<td>C</td>
<td>2</td>
<td>700TTA96W</td>
<td>T-trak 96”, White</td>
</tr>
<tr>
<td>D</td>
<td>1</td>
<td>700TTP4C02W</td>
<td>TT Power Feed Canopy w/o Connector, 4” Round, 2”, White</td>
</tr>
<tr>
<td>E</td>
<td>1</td>
<td>700TTSCC02W</td>
<td>TT Rigid Standoff w/ Conductive Connector 2”, White</td>
</tr>
<tr>
<td>F</td>
<td>3</td>
<td>700TT502W</td>
<td>TT Rigid Standoff w/o Connector 2”, White</td>
</tr>
</tbody>
</table>

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www.techlighting.com
LAYOUT WORKSHEET

Date ____________________ Rep _______________________________________________

Job name/location _____________________________________________________________

Submitter’s name ______________________________________________________________

Company ____________________________________________________________________

Phone _________________________________  Fax _________________________________

SYSTEM

☐ Tech Lighting MonoRail  (p. 234)  ☐ Tech Lighting Two-Circuit MonoRail  (p. 254)
☐ Tech Lighting Wall MonoRail  (p. 270)  ☐ Tech Lighting Kable Lite (p. 284)
☐ T–trak”  (p. 6)

Note: pages numbers refer to their respective catalogs

ELEMENTS

Elements to be used (specify):

<table>
<thead>
<tr>
<th>Name/Length</th>
<th>Quantity</th>
<th>Color/Finish</th>
<th>Accessory/Finish/Color</th>
<th>Lamp/Watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Type</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>2nd Type</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3rd Type</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4th Type</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total No. of Elements:  Total Wattage:

FINISH

☐ Antique Bronze  ☐ Chrome  ☐ Satin Nickel  ☐ White  T–trak only

☐ Custom finish or colored insulator (specify) ____________________________________

DRAWING

Attach scaled drawing or provide on reverse side.

☐ Plan view Scale:  ☐ 1/8” = 1’  ☐ 1/4” = 1’

☐ Elevation Scale:  ☐ 1/2” = 1’  ☐ Not to scale

LENGTH

Length of run:

If custom curve, supply degree and radius:

TRANSFORMER

( low-voltage systems only)

ὡ (p. 270)

☐ Remote:

☐ Magnetic OR  ☐ 12V  ☐ 24V

☐ Electronic Output Wattage:

Canopy/Power Feed type:

☐ 4” Round  ☐ 2” Square  ☐ Rectangular

☐ Direct End  ☐ Other____________

☐ Surface:

☐ Magnetic OR  ☐ 12V  ☐ 24V

☐ Electronic Output Wattage:

If using existing junction boxes, show location on drawing.

MOUNTING

If ceiling mounted, how far below the ceiling will the system be dropped? (circle)

Tech Lighting MonoRail:  2”  3”  4”  5”  6”  12”  24”  36”  48”  96”

Tech Lighting Two-Circuit MonoRail:  2”  6”  12”  24”  36”  48”  96”

Tech Lighting Kable Lite:  1” 2.5”  5”  12” 18”  24”

T–trak:  2”  6”  12”  24”  36”  48”  96”

Is the ceiling vaulted?  ☐ Yes  ☐ No

SPECIAL

☐ Cantilever  ☐ Other (specify) ____________________________________________

847.410.4400  
Quotes Dept. Fax:  847.410.4720
www.encompasslighting.com

FINISH

☐ Antique Bronze  ☐ Chrome  ☐ Satin Nickel  ☐ White  T–trak only

☐ Custom finish or colored insulator (specify) ____________________________________

DRAWING

Attach scaled drawing or provide on reverse side.

☐ Plan view Scale:  ☐ 1/8” = 1’  ☐ 1/4” = 1’

☐ Elevation Scale:  ☐ 1/2” = 1’  ☐ Not to scale

LENGTH

Length of run:

If custom curve, supply degree and radius:

TRANSFORMER

( low-voltage systems only)

.writeln(20,20) shoreline

☐ Remote:

☐ Magnetic OR  ☐ 12V  ☐ 24V

☐ Electronic Output Wattage:

Canopy/Power Feed type:

☐ 4” Round  ☐ 2” Square  ☐ Rectangular

☐ Direct End  ☐ Other____________

☐ Surface:

☐ Magnetic OR  ☐ 12V  ☐ 24V

☐ Electronic Output Wattage:

If using existing junction boxes, show location on drawing.

MOUNTING

If ceiling mounted, how far below the ceiling will the system be dropped? (circle)

Tech Lighting MonoRail:  2”  3”  4”  5”  6”  12”  24”  36”  48”  96”

Tech Lighting Two-Circuit MonoRail:  2”  6”  12”  24”  36”  48”  96”

Tech Lighting Kable Lite:  1” 2.5”  5”  12” 18”  24”

T–trak:  2”  6”  12”  24”  36”  48”  96”

Is the ceiling vaulted?  ☐ Yes  ☐ No

SPECIAL

☐ Cantilever  ☐ Other (specify) ____________________________________________

847.410.4400  
Quotes Dept. Fax:  847.410.4720
www.encompasslighting.com
Date ____________________ Rep ______________________________
Job name/location ___________________________________________________________________________
Submitter’s name ___________________________________________________________________________
Company _________________________________________________________________________________
Phone _________________________________ Fax _________________________________

SYSTEM

☐ Wilmette MonoRail (p. 132)

ELEMENTS

Elements to be used (specify):

<table>
<thead>
<tr>
<th>Name/Length</th>
<th>Quantity</th>
<th>Color/Finish</th>
<th>Accessory/Finish/Color</th>
<th>Lamp/Watts</th>
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</thead>
<tbody>
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<td>1st Type</td>
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<tr>
<td>3rd Type</td>
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</tr>
<tr>
<td>4th Type</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Total No. of Elements: Total Wattage:

FINISH

☐ Antique Bronze ☐ Polished Nickel ☐ Satin Nickel
☐ Custom finish or colored insulator (specify) _____________________________________________

DRAWING

Attach scaled drawing or provide on reverse side.

☐ Plan view Scale: ☐ 1/8” = 1’ ☐ 1/4” = 1’
☐ Elevation ☐ 1/2” = 1’ ☐ Not to scale

LENGTH

Length of run:

If custom curve, supply degree and radius:

TRANSFORMER

(low-voltage systems only) (p. 270)

☐ Remote: ☐ Magnetic OR Electronic
☐ Electronic

Canopy/Power Feed type:

☐ 4” Round ☐ Direct End ☐ Other___________

☐ Surface: ☐ Magnetic OR Electronic
☐ Electronic

If using existing junction boxes, show location on drawing.

MOUNTING

If ceiling mounted, how far below the ceiling will the system be dropped? (circle)

Wilmette MonoRail: 2” 3” 4” 5” 6” 12” 24” 36” 48” 96”

Is the ceiling vaulted? ☐ Yes ☐ No

SPECIAL

☐ Other (specify) _________________________________