

Generating a Bill of Materials For Tech Lighting Systems



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T~trak™

ELEMENT 



921TLBOM07

WHAT IS A BILL OF MATERIALS?

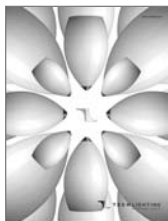
A bill of materials is the list of product item numbers that are required to accurately price and supply a lighting system.

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 job.
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.

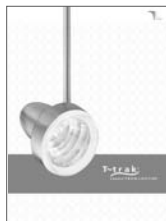
Tools



Tech Lighting
Full Line Catalog



Wilmette
Full Line Catalog



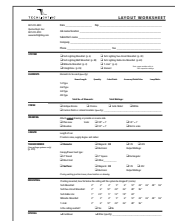
T-trak
Full Line Catalog



Element
Full Line Catalog



This Booklet



Layout Worksheet

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.

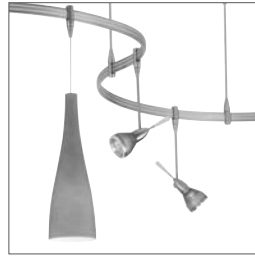
Also visit our website for technical and product information, including spec sheets and instructions.

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.

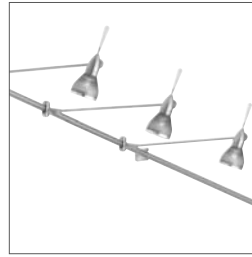
Tech Lighting Systems



MonoRail
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Two-Circuit MonoRail
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Wall MonoRail
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Kable Lite
pp. 16-19

Wilmette Systems



MonoRail
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T~trak Systems



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pp. 24-27



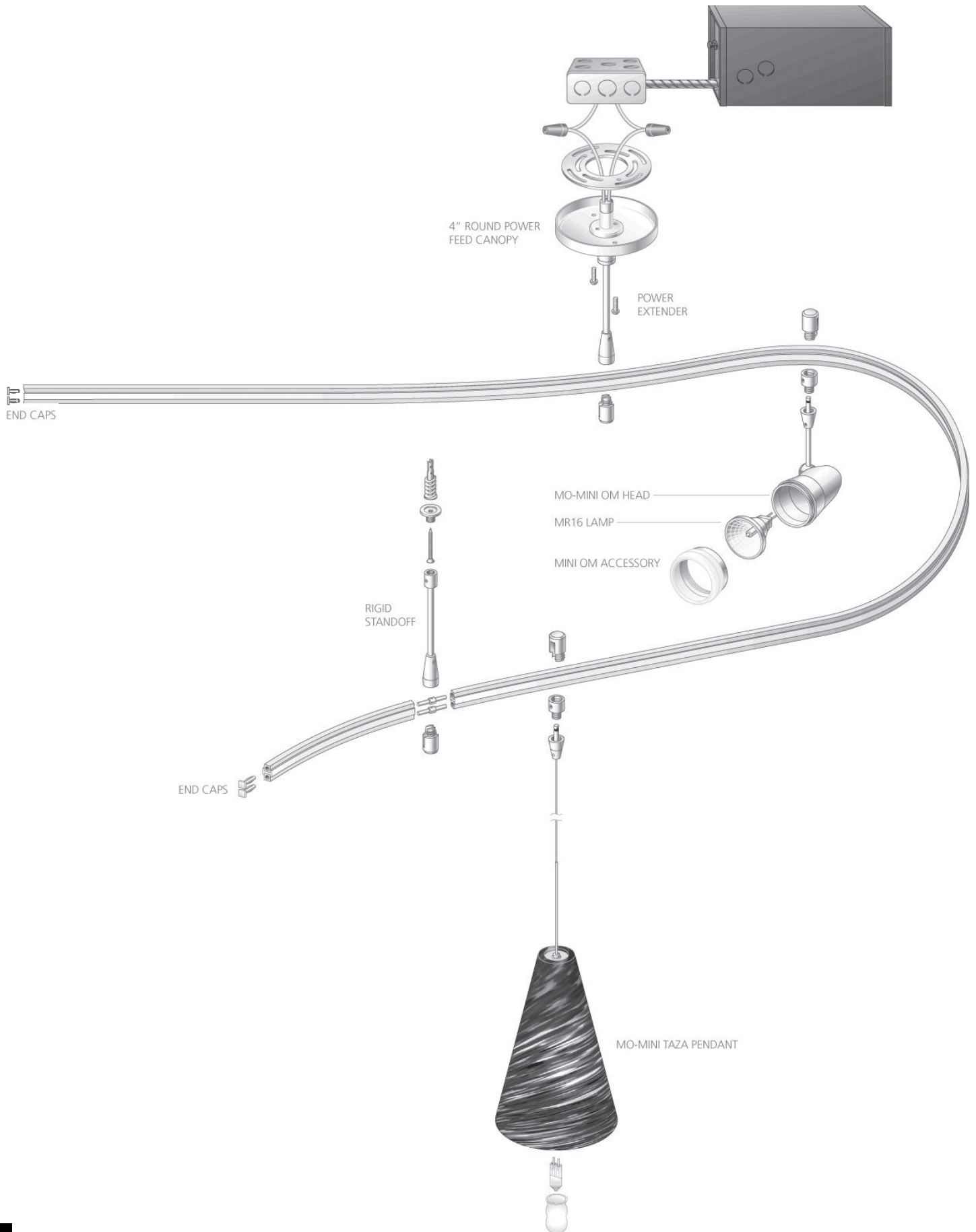
StraightLine
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Element



Element
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TECH LIGHTING®
MONORAIL SYSTEM



Step One: Design Your Tech Lighting MonoRail System

Page numbers below reference the Tech Lighting Full-Line Catalog (921TLFLCAT07), unless indicated otherwise.



ELEMENTS (Pendants, Heads, and Functional Art):

Choose elements from system thumbnail (pp. 18-20).

Determine item number(s) (pp. 96-179).

QTY. ITEM NUMBER

700MO _____
 700MO _____
 700MO _____

Choose Accessories and Optical Controls, if required or desired (pp. 96-179).

Determine item number(s) (pp. 226-233).

700 _____
 700 _____

Choose lamps, 12 or 24 volt, that do not exceed maximum wattage of element or accessory (may be included; pp. 96-179).

Determine item number(s) (pp. 234-236).

300BLV _____
 300BLV _____

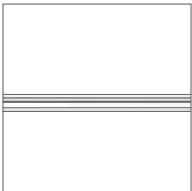
Add up total lamp wattage on system.

_____ 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 MonoRail run; determine quantity and length of MonoRail pieces required (p. 22).

700MOA _____
 700MOA _____
 700MOCCAP _____

Specify one pair of End Caps for each open end of run (p. 23).

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

of standoffs _____

Does the run include a sharp angle or turn?
If so, specify a Flexible Connector to make the turn (p. 23).

700MOCFXH _____

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.

MONORAIL SYSTEM

Step Two: Add Power and Hardware to Complete the System

QTY. ITEM NUMBER

TRANSFORMER:

Remote Transformer (p. 24)

Choose:

- Magnetic or electronic
- 12 volt or 24 volt
- *Output wattage _____
- Single or dual-feed

700AT _____

AND

Specify a Power Feed Canopy, single or dual-feed (p. 24).

AND
700MOP _____

OR

Surface Transformer (p. 25)

Choose:

- Magnetic or electronic
- 12 volt or 24 volt
- *Output wattage _____
- Single or dual-feed

OR

700MOSRT _____

**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. 23) to isolate the feeds from each other.

700MOCINC

If dropping system a distance below ceiling, add one Power Extender (p. 25) to each power feed (add two when using dual-feed).

700MOP _____

MOUNTING:

Select Standoffs (p. 23) that match or exceed drop of the Surface Transformer or Power Feed. Refer to Length section on previous page for quantity.

700MOS _____

Is the ceiling vaulted? If so, specify one Power Vault Adapter (p. 26) for each power feed (add two when using dual-feed).

700MOPVLT _____

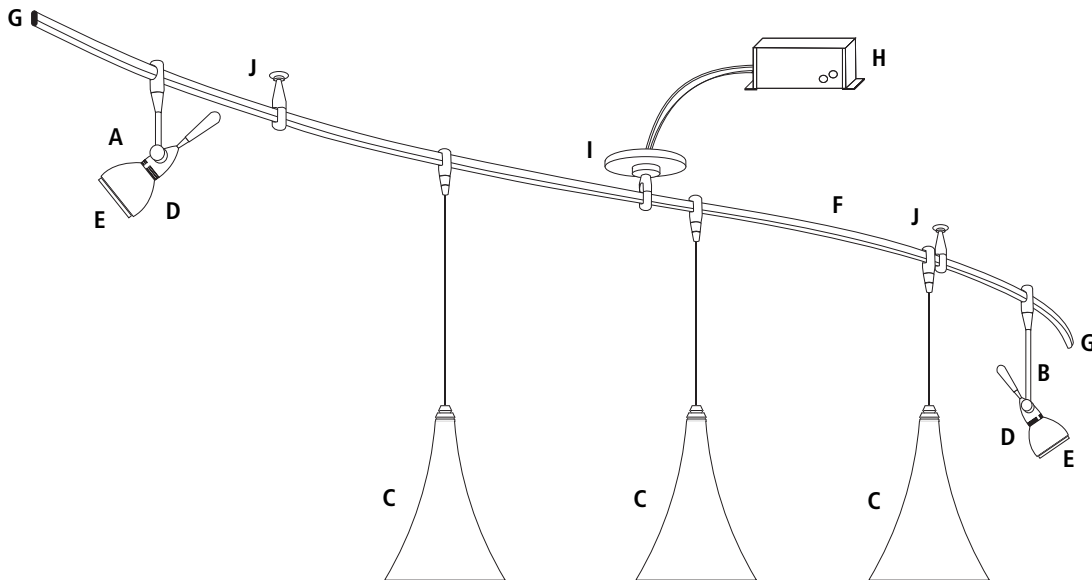
Then specify one Standoff Vault Adapter for each Standoff (p. 26).

700MOCVLT _____

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. 26-27) of the catalog, or call your local representative or Tech Lighting quotes department (800.522.5315).

Sample Bill of Materials - As seen on p. 14 of the Tech Lighting Full Line Catalog



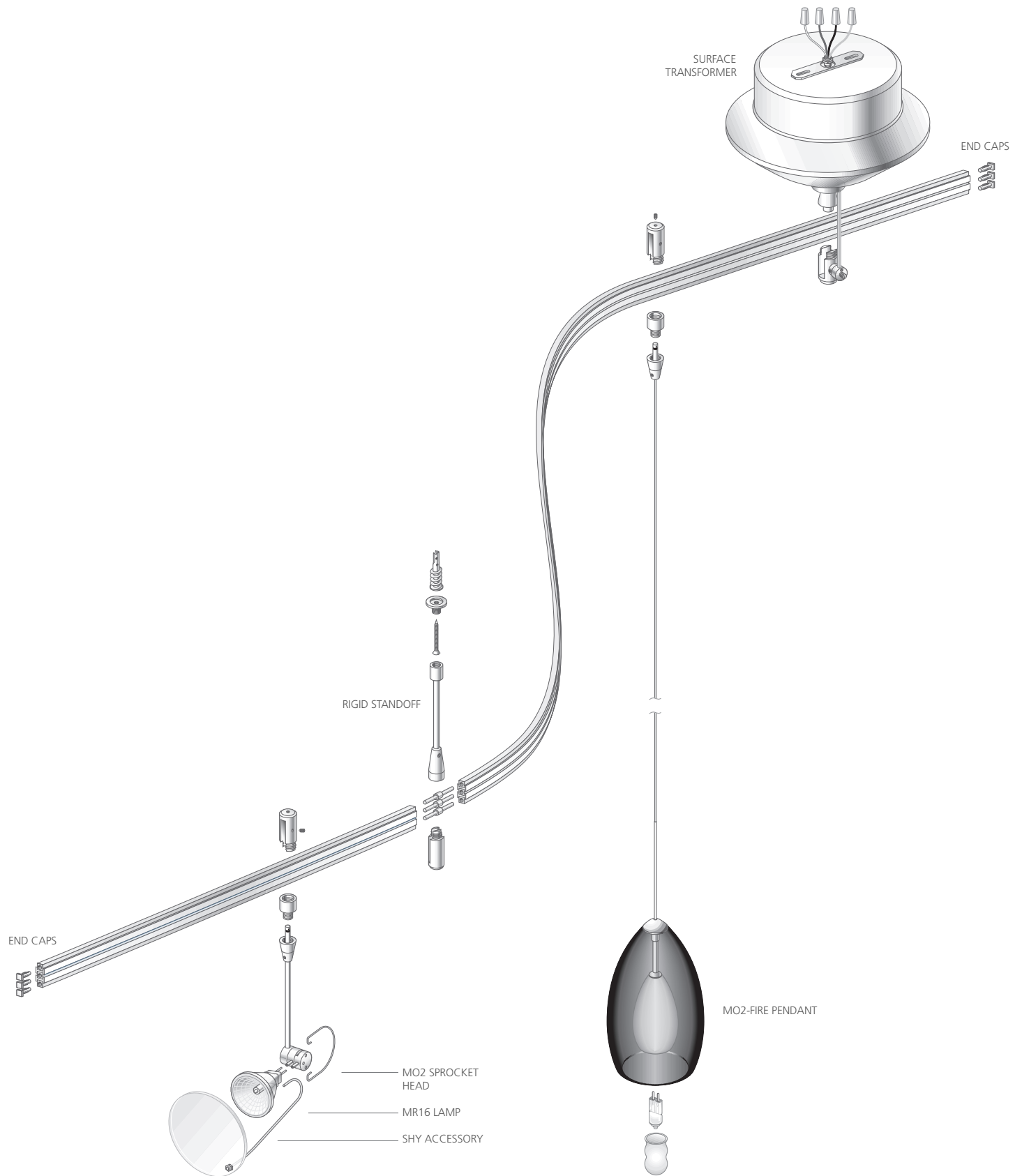
Item	Quantity	Item Number	Description
A	1	700MOAE6Z	MO-Aero 6", antique bronze
B	1	700MOAE12Z	MO-Aero 12", antique bronze
C	3	700MOMLPAZ	MO-Melrose, tahoe pine amber, antique bronze
D	2	700MR16AGZ	Round Glass Shield Accessory, amber, antique bronze
E	2	300BLV136	12v GE CC, Hal MR16, GU5.3 55° 50w
F	1	700MOBHSC60BRZ	Brown MonoRail Horizontal S Curve, antique bronze
G	2	700MOCCAPZ	MO End Caps, pair, antique bronze
H	1	700AT300T	Remote Magnetic Transformer, 12v 300 watts
I	1	700MOP4C02Z	MO Single Feed Canopy, 4" round, antique bronze
J	2	700MOS02Z	MO Rigid Standoff, 2", antique bronze

CHECKLIST

Make sure your Bill of Materials Includes:

- Transformer (pp. 24-25)
- Power Feed Canopy (for remote transformer; p. 24)
- Power Extender (if necessary; p. 25)
- Isolating Connectors (if necessary; p. 23)
- Standoffs—one for every three feet of run (p. 23, standoff lengths must match power feed length)
- MonoRail (p. 22)
- End Caps (one pair for each open end; p. 23)
- Elements (pp. 96-179)
- Accessories and Optical Controls (pp. 226-233)
- Lamps—if not included with elements; (pp. 234-236, lamps must not exceed maximum wattage of element or accessory)
- Make sure all finishes match and item numbers end with Z (Antique Bronze), C (Chrome), or S (Satin Nickel)

TWO-CIRCUIT MONORAIL SYSTEM



TWO-CIRCUIT MONORAIL SYSTEM

Step One: Design Your Tech Lighting Two-Circuit MonoRail System

Page numbers below reference the Tech Lighting Full-Line Catalog (921TLFCAT07), unless indicated otherwise.



ELEMENTS (Pendants, Heads, and Functional Art):
Choose elements from system thumbnail (pp. 38-40).
Determine item number(s) (pp. 96-179).

QTY. ITEM NUMBER

700MO2 _____
 700MO2 _____
 700MO2 _____

Choose Accessories and Optical Controls, if required or desired (pp. 96-179).
Determine item number(s) (pp. 226-233).

700 _____
 700 _____

Choose 12 volt lamps that do not exceed maximum wattage of element or accessory (may be included; pp. 96-179).
Determine item number(s) (pp. 234-236).

300BLV _____
 300BLV _____

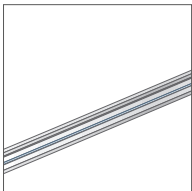
Add up total lamp wattage on system.

_____ 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 MonoRail pieces required (p. 42).

700MO2A _____
 700MO2A _____

Specify one pair of End Caps for each open end of run (p. 43).

700MO2CCAP _____

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

of standoffs _____

Does the run include a sharp angle or turn?
If so, specify a Flexible Connector to make the turn (p. 43).

700MO2CFXH _____

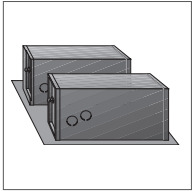
Would you like the rail to be custom bent at the factory? If so, please provide the degree and radius of each curve by fax to the quotes department, 847.410.4720, for a quotation.

TWO-CIRCUIT MONORAIL SYSTEM

Step Two: Add Power and Hardware to Complete the System

QTY. ITEM NUMBER

TRANSFORMER:



Remote Transformer (p. 44)

Choose:

Magnetic or electronic

12 volt

*Output wattage _____

Single or dual-feed

AND

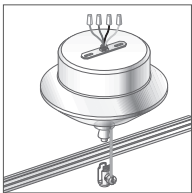
Specify a Power Feed Canopy, single or dual-feed (p. 44).

700AT _____

AND

700MO2P _____

OR



Surface Transformer (p. 45)

Choose:

Magnetic or electronic

12 volt

*Output wattage _____

Single or dual-feed

OR

700MO2SRT _____

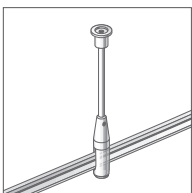
**Wattage of the transformer must meet or exceed wattage of lamps calculated on previous page.*

If powering system with more than one transformer, add Isolating Connectors (p. 43) to isolate the feeds from each other.

700MO2CINC

If dropping system a distance below ceiling, add one Power Extender (p. 45) to each power feed (add two when using dual-feed).

700MO2P _____



MOUNTING:

Select Standoffs (p. 43) that match or exceed drop of the Surface Transformer or Power Feed. Refer to Length section on previous page for quantity.

700MO2S _____

Is the ceiling vaulted? If so, specify one Power Vault Adapter (p. 46) for each power feed (add two when using dual-feed).

700MO2PVLT _____

Then specify one Standoff Vault Adapter for each Standoff (p. 46).

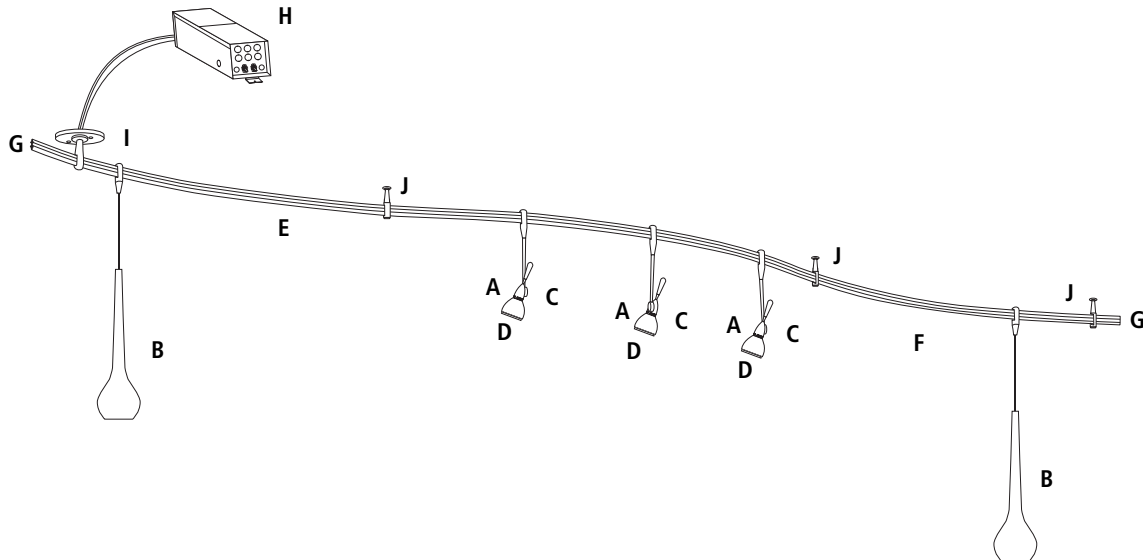
700MO2CVLT _____

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. 46-47) of the catalog, or call your local representative or Tech Lighting quotes department (800.522.5315).

TWO-CIRCUIT MONORAIL SYSTEM

SAMPLE BILL OF MATERIALS - As seen on p. 35 of the Tech Lighting Full Line Catalog



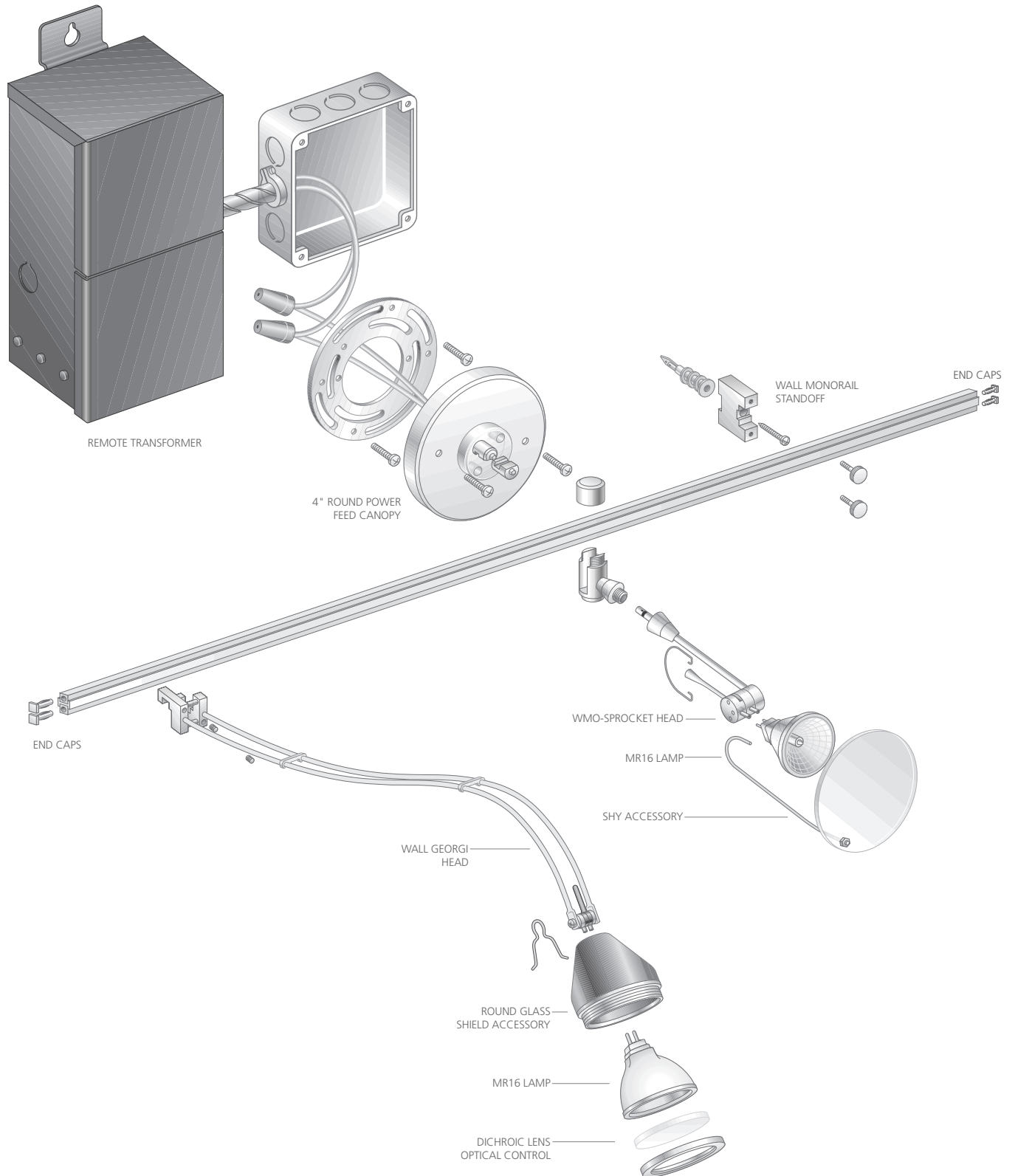
Item	Quantity	Item Number	Description
A	3	700MO2AE6S	MO2-Aero 6", satin nickel
B	2	700MO2SAVWS	MO2-Savoy White, satin nickel
C	3	700MR16GF	Round Glass Accessory, frost
D	3	300BLV138	12v GE CC. Hal MR16 GU5.3 25° 50w
E	1	700MO2A96S	Clear Mono2Rail 96", satin nickel
F	1	700MO2A48S	Clear Mono2Rail 48", satin nickel
G	2	700MO2CCAPS	MO2 End Caps, satin nickel
H	1	700AT2X300T	2x300T Remote Magnetic Transformer, single feed
I	1	700MO2P4C02S	MO2 Single Feed Canopy, 4" round, satin nickel
J	3	700MO2S06S	MO2 Rigid Standoff 2", satin nickel

CHECKLIST

Make sure your Bill of Materials Includes:

- Transformer (p. 44)
- Power feed canopy (for remote transformer; p. 44)
- Power extender (if necessary; p. 45)
- Isolating connectors (if necessary; p. 43)
- Standoffs—one for every three feet of run (p. 43, standoff length must match power feed length)
- Two-Circuit MonoRail (p. 42)
- End caps (one pair for each open end; p. 43)
- Elements (pp. 96-179)
- Accessories and Optical Controls (pp. 226-233)
- Lamps—if not included with elements; (pp. 234-236 lamps must not exceed maximum wattage of element or accessory)
- Make sure all finishes match and item numbers end with Z (Antique Bronze), C (Chrome) or S (Satin Nickel)

WALL MONORAIL SYSTEM



WALL MONORAIL SYSTEM

Step One: Design Your Tech Lighting Wall MonoRail System

Page numbers below reference the Tech Lighting Full-Line Catalog (921TLFLCAT07), unless indicated otherwise.



ELEMENTS:

Choose Wall MonoRail heads (p. 52).
Determine item number(s) (pp. 152-173).

Choose Accessories and Optical Controls, if required or desired (pp. 152-173).
Determine item number(s) (pp. 226-233).

Choose lamps, 12 or 24 volt, that do not exceed maximum wattage of element or accessory (pp. 152-173).
Determine item number(s) (pp. 234-236).

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 Wall MonoRail run; determine quantity and length of MonoRail pieces required (p. 54).

Specify one pair of End Caps for each open end of run (p. 55).

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

QTY. ITEM NUMBER

700WM _____

700WM _____

700 _____

700 _____

300BLV _____

300BLV _____

_____ watts

(Z) ANTIQUE BRONZE

(C) CHROME

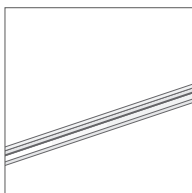
(S) SATIN NICKEL

700MOA _____

700MOA _____

700M2CCAP _____

of standoffs _____

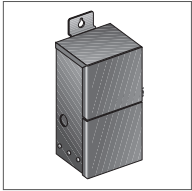


WALL MONORAIL SYSTEM

Step Two: Add Power and Hardware to Complete the System

QTY. ITEM NUMBER

TRANSFORMER:



Remote Transformer (p. 56)

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. 56).
(if using a dual feed transformer be sure to order two canopies)

700AT _____
AND
 700WMOP _____

OR



Surface Transformer (p. 57)

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. 57).

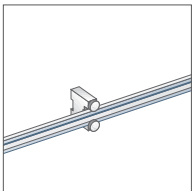
OR

700SRT _____
AND
 700MOP _____

**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. 55) to isolate the feeds from each other.

700MOCINC



MOUNTING:

Order Wall MonoRail Standoffs (p. 55).
Refer to Length section on previous page for quantity.

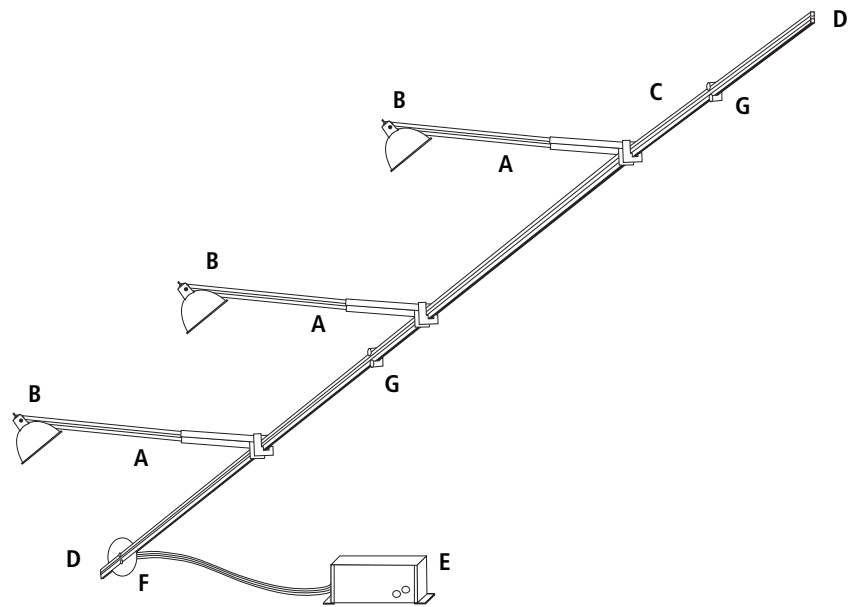
700WMOS01 _____

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 p. 59 of the Tech Lighting Full Line Catalog



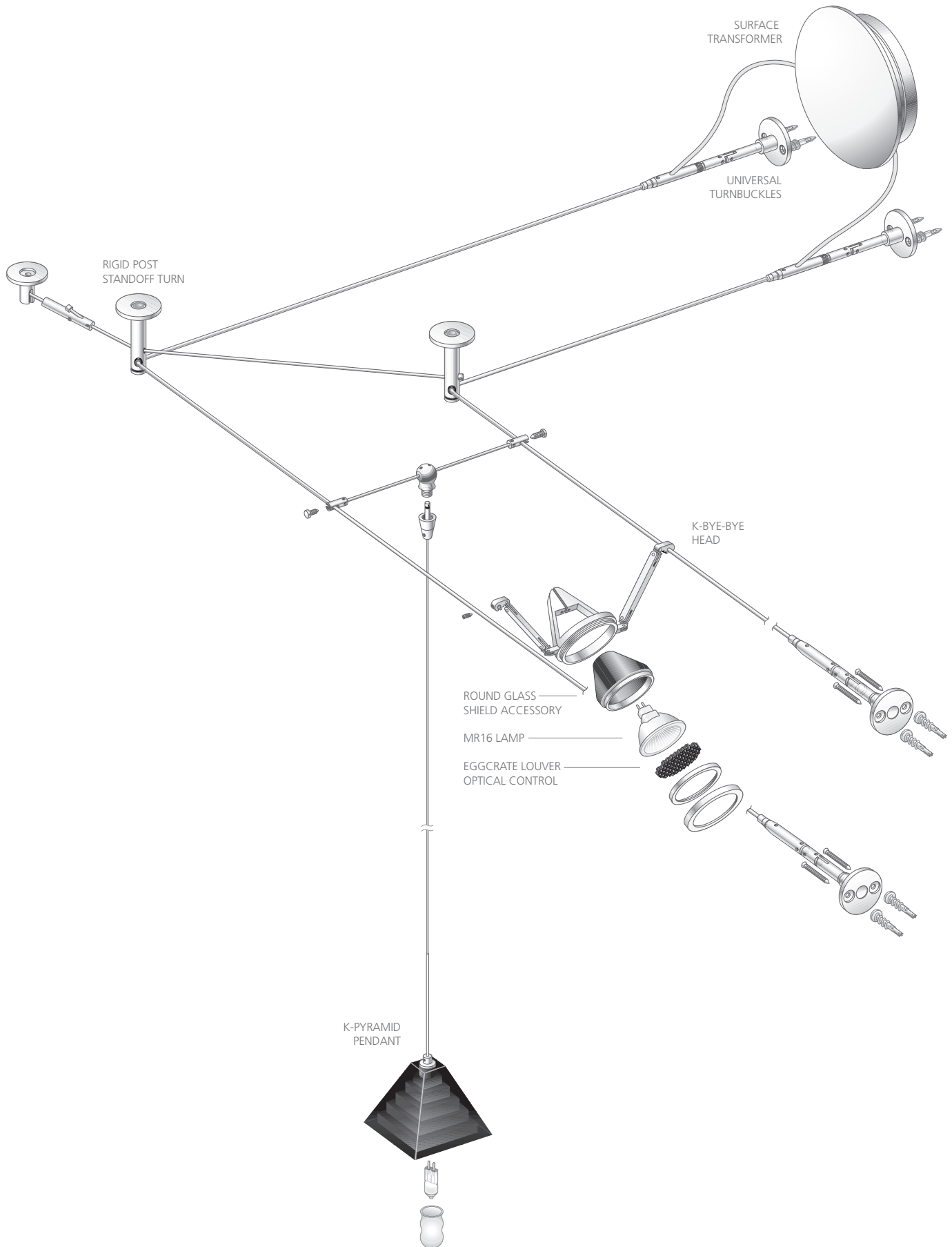
Item	Quantity	Item Number	Description
A	3	700WMTELS	WMO-Telescope, satin nickel
B	3	300BLV138	12v GE CC. Hal MR16 Lamp, GU5.3 25° 50w
C	1	700MOA96S	Clear MonoRail 96", satin nickel
D	2	700MOCCAPS	End Caps, pair, satin nickel
E	1	700AT150T	Remote Magnetic Transformer, 12v 150w
F	1	700WMOP4RS	WMO Power Feed Canopy, 4" round, satin nickel
G	2	700WMOS01S	WMO Standoff, satin nickel

CHECKLIST

Make sure your Bill of Materials Includes:

- Transformer (pp. 56-57)
 - Power Feed Canopy (for Remote Transformer p. 56)
 - End or Center Power Feed (for Surface Transformer; p. 57)
 - Isolating Connectors (if necessary; p. 55)
 - Standoffs (one for every three feet of run; p. 55)
 - Wall MonoRail (p. 54)
 - End Caps (one pair for each open end; p. 55)
 - Elements (pp. 152-173)
 - Lamps (pp. 234-236)
 - Accessories and Optical Controls (pp. 226-233)
- Make sure all finishes match and item numbers end with Z (Antique Bronze), C (Chrome), or S (Satin Nickel)

TECH LIGHTING®
KABLE LITE SYSTEM



Step One: Design Your Tech Lighting Kable Lite System

Page numbers below reference the Tech Lighting Full-Line Catalog (921TLFCAT07), unless indicated otherwise.



ELEMENTS (Pendants, Heads, and Functional Art):

Choose elements from system thumbnail (pp. 68-70).
 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. 96-179).

QTY.	ITEM NUMBER
<input type="checkbox"/>	700K _____
<input type="checkbox"/>	700K _____
<input type="checkbox"/>	700K _____

Choose Accessories and Optical Controls, if required or desired (pp. 96-179).
 Determine item number(s) (pp. 226-233).

<input type="checkbox"/>	700 _____
<input type="checkbox"/>	700 _____

Choose lamps, 12 or 24 volt, that do not exceed maximum wattage of element or accessory (may be included; pp. 96-179).
 Determine item number(s) (pp. 234-236).

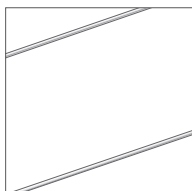
<input type="checkbox"/>	300BLV _____
<input type="checkbox"/>	300BLV _____

Add up total lamp wattage on system _____ watts

FINISH:

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

(C) CHROME
(S) SATIN NICKEL



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. 72).

<input type="checkbox"/>	700KLA _____
--------------------------	--------------

Choose turnbuckles to tighten cable (p. 73).

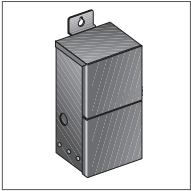
<input type="checkbox"/>	700 _____
<input type="checkbox"/>	700 _____

KABLE LITE SYSTEM

Step Two: Add Power and Hardware to Complete the System

QTY. ITEM NUMBER

TRANSFORMER:



Remote Transformer (p. 76)

Choose:

- Magnetic or electronic
- 12 volt or 24 volt
- *Output wattage _____
- Single or dual-feed

700AT _____

AND

Specify a Power Feed Canopy, single or dual-feed (p. 76).

AND
700KP _____

OR



Surface Transformer (p. 77)

Choose:

- Magnetic or electronic
- 12 volt or 24 volt
- *Output wattage _____
- Single or dual-feed

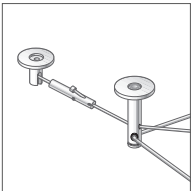
OR

700SRT _____

**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. 128) to isolate the feeds from each other.

700P _____



MOUNTING:

Determine how far below ceiling the system will drop. If using a Surface Transformer drop must exceed height of transformer (p. 77).

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. 74).

700K _____

If cables will be making a turn off the wall specify either Horizontal Turn or Wall Turn and determine item number (p. 75).

700 _____

If cables will be making a turn off the ceiling specify Rigid Post Standoff Turn. Determine item number (p. 74).

700KSOT _____

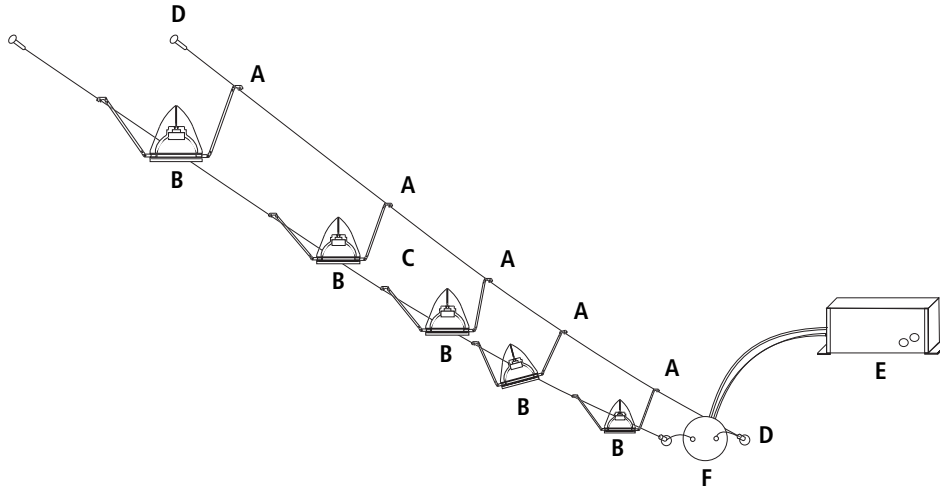
If using heavier elements, such as glass pendants, or if a span of cable exceeds 20' without support, specify Adjustable Standoffs. Determine item number (p. 74).

700PRTD3 _____

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. 78-79) of the catalog, or call your local representative or Tech Lighting quotes department (800.522.5315).

SAMPLE BILL OF MATERIALS - As seen on p. 60 of the Tech Lighting Full Line Catalog



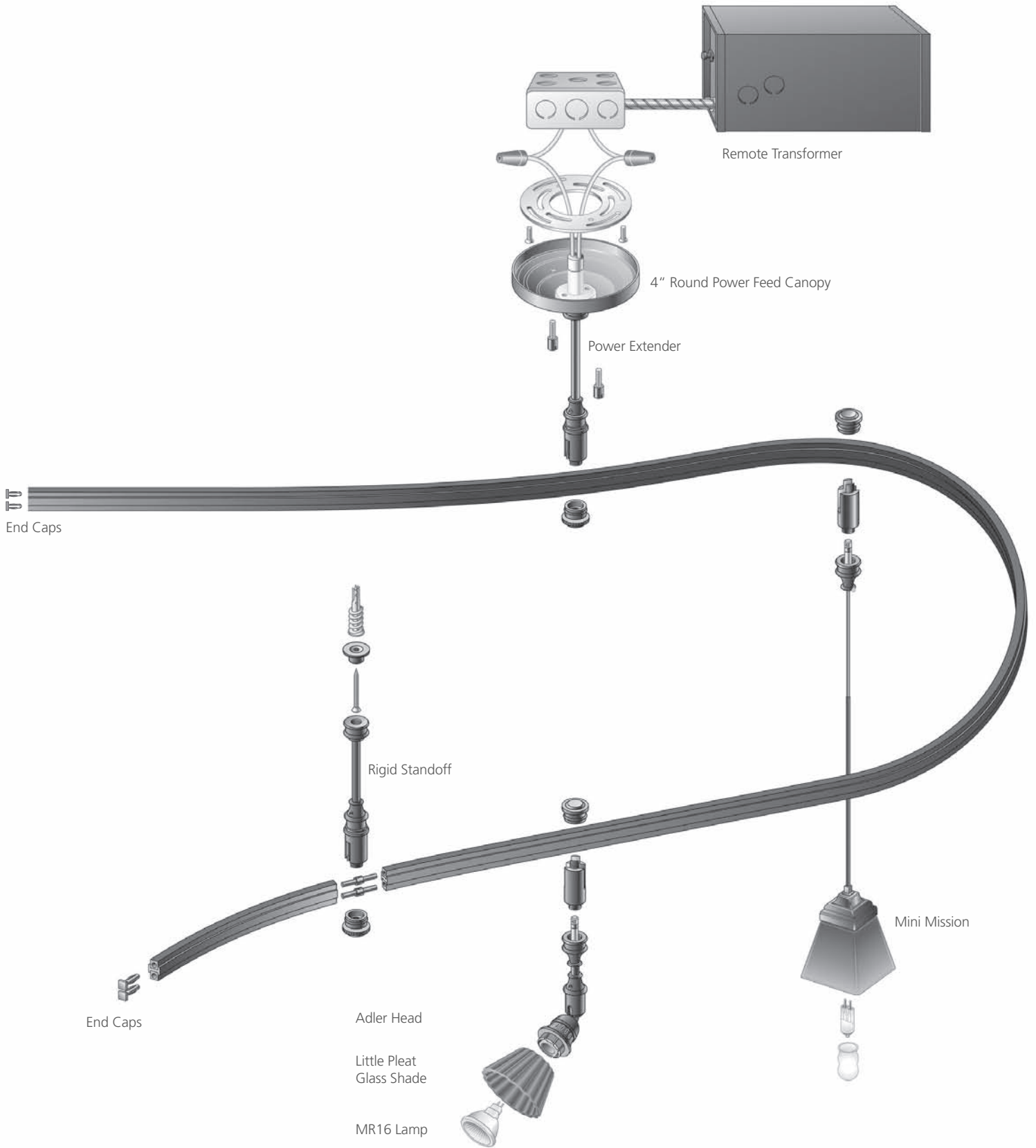
Item	Quantity	Item Number	Description
A	5	700KBYENC	K-Bye-Bye, aluminum
B	5	700BLV136	12v GE CC. Hal MR16 Lamp, GU5.3 55° 50w
C	25 ft.	700KLABAREC	Bare Cable, tin plate, per ft.
D	2	700KPARTTS	Universal Turnbuckles, satin nickel
E	1	700AT300T	Remote Magnetic Transformer 12v 300w
F	1	700KP4C24S	KL Single Feed Canopy, 4" round, satin nickel

CHECKLIST

Make sure your Bill of Materials Includes:

- Transformer (pp. 76-77)
 - Power Feed Canopy (for remote transformer; p. 76)
 - Cable (p. 72)
 - Turnbuckles (one pair for each end; p. 73)
 - Isolating Connectors (if necessary; p. 75)
 - Ceiling or wall supports (if necessary; pp. 74-75)
 - Elements (pp. 96-179), make sure selected cable separation works with elements)
 - Lamps—if not included with elements; (pp. 234-236, lamps must not exceed maximum wattage of element or accessory)
 - Accessories and Optical Controls (pp. 226-233)
- Make sure all finishes match and item numbers end with C (Chrome) or S (Satin nickel)

MONORAIL SYSTEM



MONORAIL SYSTEM

Step One: Design Your Wilmette MonoRail System

Page numbers below reference the Wilmette Full-Line Catalog (921WLFLLCAT07), unless indicated otherwise



LOW-VOLTAGE HEADS & PENDANTS:

Choose low-voltage heads & pendants from system thumbnails (p. 11) .

Determine item number(s) (pp. 26-39).

Choose Accessories and Optical Controls, if required or desired (pp. 26-39).

Determine item number(s) (pp. 68-69).

Choose lamps that do not exceed maximum wattage of low-voltage head or pendant or accessory (may be included; pp. 26-39).

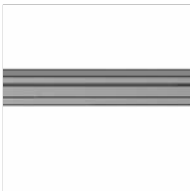
Determine item number(s) (p. 72).

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. 12).

Specify one pair of End Caps for each open end of run (p. 13).

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. 13).

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.

QTY. ITEM NUMBER

600MO _____
 600MO _____
 600MO _____

600 _____
 600 _____

300BLV _____
 300BLV _____

_____ watts

600MOA _____
 600MOA _____
 600MOCCAP _____

of standoffs _____

600MOCFXH _____

MONORAIL SYSTEM

Step Two: Add Power and Hardware to Complete the System

QTY. ITEM NUMBER

TRANSFORMER:



Remote Transformer (p. 14)

Choose:

*Output wattage _____
Single or dual-feed

AND

Specify a Power Feed Canopy, single or dual-feed (p. 14).

600AT _____

AND

600MOP _____

OR

Surface Transformer (p. 15)

Choose:

*Output wattage _____
Single or dual-feed



OR

600MOSRT _____

**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. 13) to isolate the power feeds from each other.

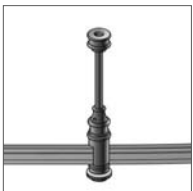
600MOCINC

If dropping system a distance below ceiling, add one Power Extender (p. 13) to each power feed (add two when using dual-feed).

600MOP _____

MOUNTING:

Select Standoffs (p. 13) that match or exceed drop of the Surface Transformer or Power Feed. Refer to Length section on previous page for quantity.



600MOS _____

Is the ceiling vaulted? If so, specify one Power Vault Adapter (p. 16) for each power feed (add two when using dual-feed).

600MOPVLT _____

Then specify one Standoff Vault Adapter for each Standoff (p. 16).

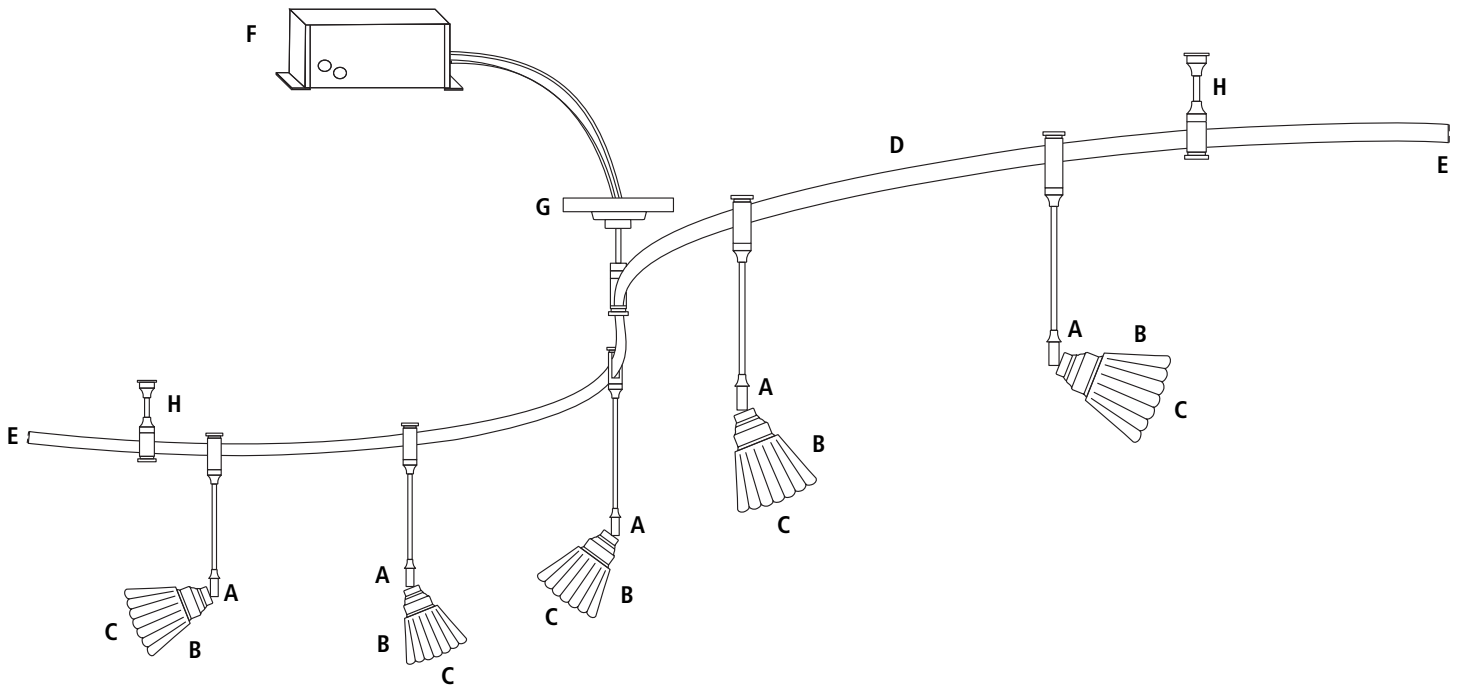
600MOSVLT _____

SPECIAL:

This outline covers only the most common MonoRail applications, but MonoRail can do almost anything. For other MonoRail system options, see pp. 16-17 of the catalog, or call your local representative or Wilmette Lighting quotes department (800.522.5315).

MONORAIL SYSTEM

SAMPLE BILL OF MATERIALS - As seen on p. 7 of the Wilmette Full Line Catalog



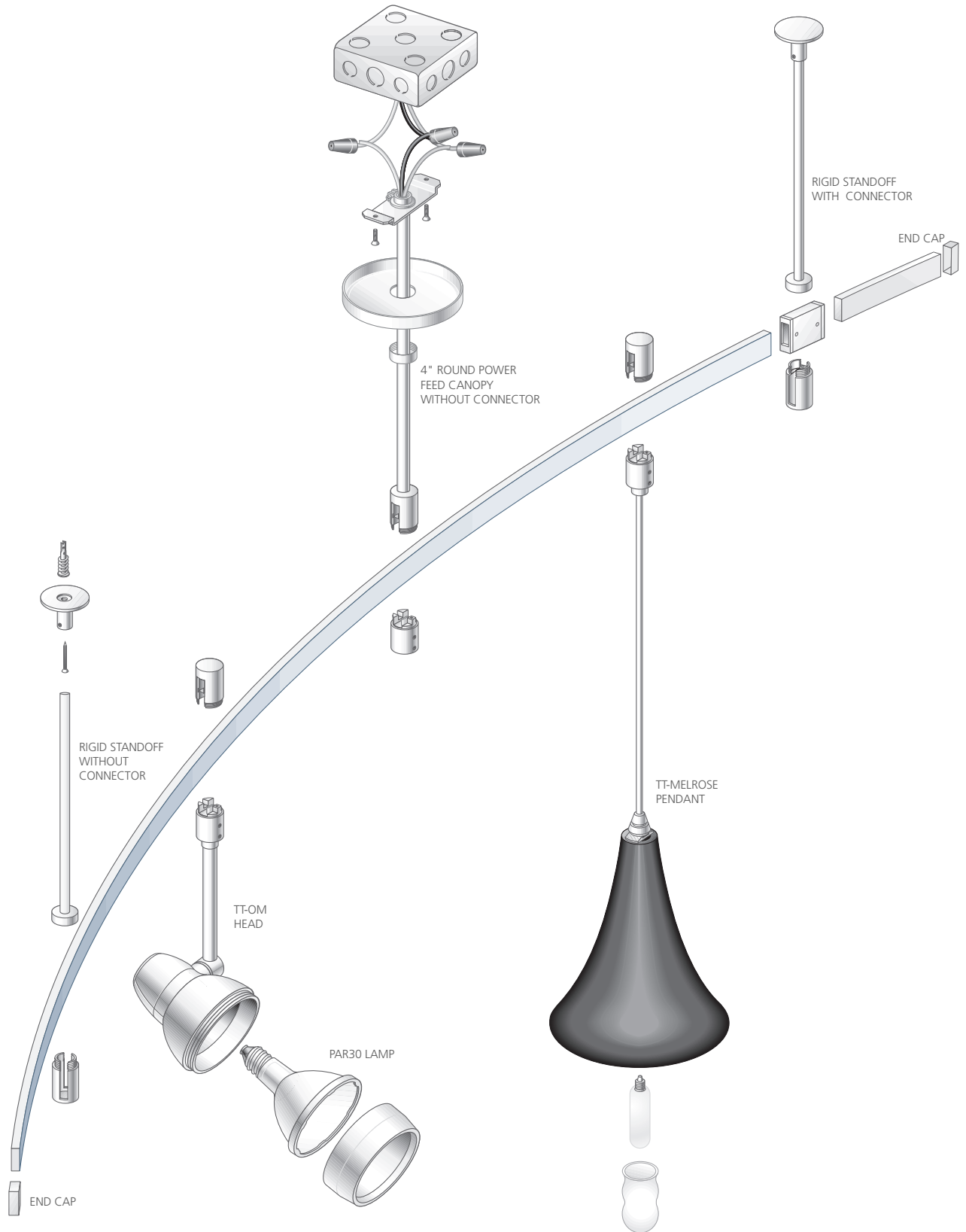
Item	Quantity	Item Number	Description
A	5	600MOSVN06N	WMT MO Sullivan Head 6", Polished Nickel
B	5	600LIPLTA	Little Pleat Accessory, Amber
C	5	300BLV139	12v CC Hal MR16, GU5.3 40° 50w
D	1	600MOBHSC60N	Clear MonoRail Horizontal S Curve, Polished Nickel
E	2	600MOCCAPN	WMT MO End Caps, Pair, Polished Nickel
F	1	600AT300T	Remote Magnetic Transformer, 12v 300 watts
G	1	600MOP4C02N	WMT MO Single Feed Canopy, 4" Round, Polished Nickel
H	2	600MOS02N	WMT MO Rigid Standoffs, 2", Polished Nickel

CHECKLIST

Make sure your Bill of Materials Includes:

- Transformer (pp. 14-15)
- Power Feed Canopy (for remote transformer; p. 14)
- Power Extender (if necessary; p. 15)
- Isolating Connectors (if necessary; p. 13)
- Standoffs—one for every three feet of run (p. 13, standoff lengths must match power feed length)
- MonoRail (p. 12)
- End Caps (one pair for each open end; p. 13)
- Low-Voltage Heads & Pendants (pp. 26-39)
- Accessories and Optical Controls (pp. 68-69)
- Lamps—if not included with low-voltage heads and pendants (p. 72, 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)

T~trak™ SYSTEM



Step One: Design Your T~trak System

Page numbers below reference the T~trak Full-Line Catalog (921TTFLCAT07), unless indicated otherwise.

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 system thumbnail (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. 96-179 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. 96-179 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.

QTY. ITEM NUMBER

700TT _____

700TT _____

700 _____

700 _____

700FJ _____

700TTCHEDFJ _____

700 _____

700 _____

300 _____

300 _____

(Z) ANTIQUE BRONZE
(SELECTED FIXTURES)

(S) SATIN NICKEL

(W) WHITE

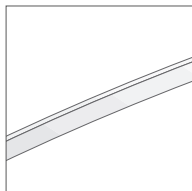
700TTA _____

700TTA _____

of standoffs with
connector _____

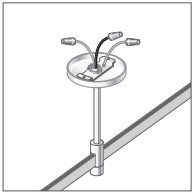
of standoffs without
connector _____

700TTCFXHS



T~TRAK SYSTEM

Step Two: Add Power and Hardware to Complete the System



POWER FEED CANOPY:

Determine how far below the ceiling the system will be dropped.

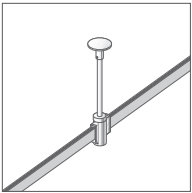
Power Feed Canopy (p. 22)
Choose:

- 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.

QTY. ITEM NUMBER

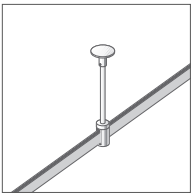
700TTP _____



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.

700TTS CC _____



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.

700TTS _____

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

700TTPVLTS _____

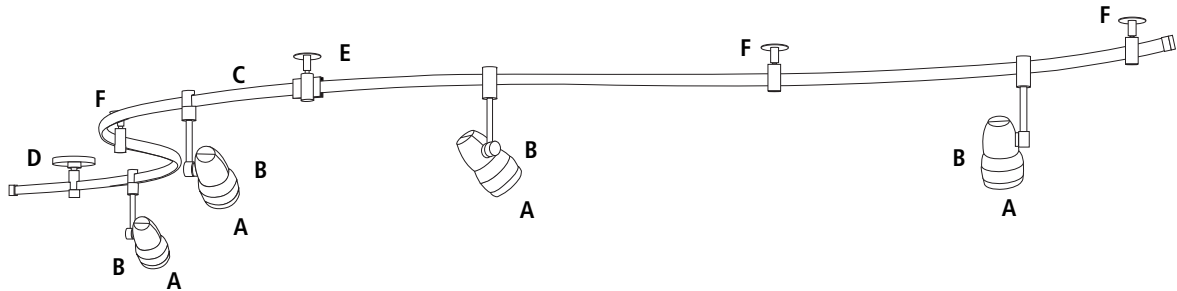
Then specify one Standoff Vault Adapter for each Standoff (p. 24).

700TTSVLTS _____

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).

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



Item	Quantity	Item Number	Description
A	4	700TOM2006FW	TT-Om PAR20 6", frost lens ring, white
B	4	300BHV417	120v Inc PAR20 E26 Med 40° 50w
C	2	700TTA96W	T~trak 96", white
D	1	700TTP4C02W	TT Power Feed Canopy w/o Connector, 4" round, 2", white
E	1	700TTSCC02W	TT Rigid Standoff w/ Conductive Connector 2", white
F	3	700TTS02W	TT Rigid Standoff w/o Connector 2", white

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. 96-179 of Tech Full Line Catalog)

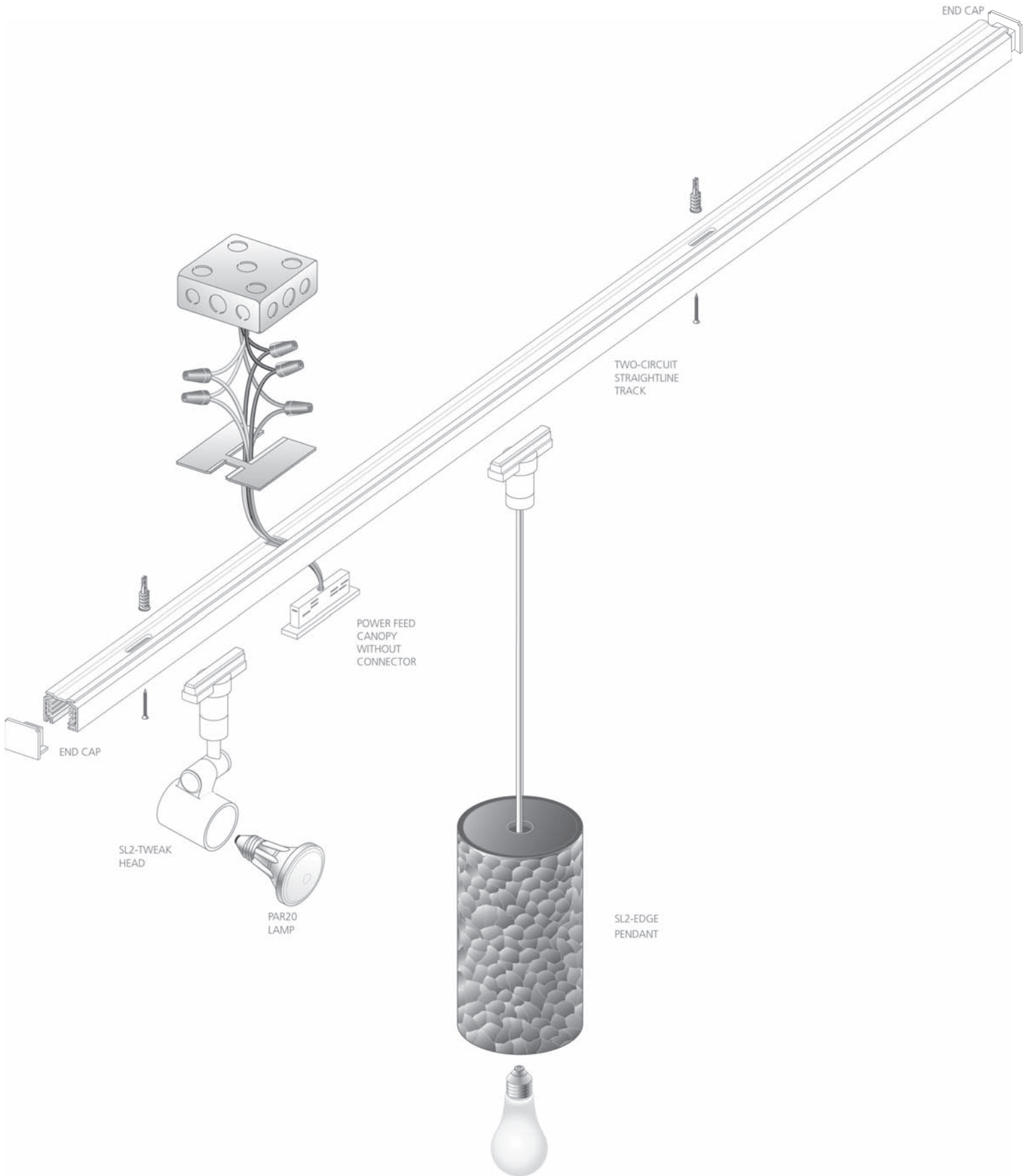
Accessories and Optical Controls (pp. 66-67, 75, 77 line-voltage; pp. 226-233 of Tech Full Line Catalog, low-voltage) (pp. 96-179 of Tech Full Line Catalog)

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

End Caps (one pair for each open end; p. 21)

STRAIGHTLINE SYSTEM



STRAIGHTLINE SYSTEM

Step One: Design Your StraightLine System

Page numbers below reference the T~trak Full-Line Catalog (921TTFLCAT07), unless indicated otherwise

Choose Single or Two-Circuit StraightLine and make sure all components are specified as such (SL Single-Circuit StraightLine) (SL2 Two-Circuit StraightLine).



ELEMENTS (Pendants and Heads):

Choose elements from system thumbnail (pp. 32-35).
 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. 96-179 of Tech Full Line Catalog).

Order one StraightLine FreeJack connector for each FreeJack low-voltage element (p. 34).

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. 96-179 low-voltage).

Determine item number(s) (pp. 105-106, also pp. 234-236 of Tech Full Line Catalog).

QTY.	ITEM NUMBER
<input type="checkbox"/>	700SL _____
<input type="checkbox"/>	700SL _____
<input type="checkbox"/>	700 _____
<input type="checkbox"/>	700 _____
<input type="checkbox"/>	700FJ _____
<input type="checkbox"/>	700SLCHEDFJ _____
<input type="checkbox"/>	700 _____
<input type="checkbox"/>	700 _____
<input type="checkbox"/>	300 _____
<input type="checkbox"/>	300 _____

FINISH:

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

- (Z) ANTIQUE BRONZE
- (SELECTED FIXTURES)
- (S) SATIN NICKEL
- (W) WHITE



DRAWING:

Use scaled drawing as a reference.

LENGTH:

Measure length of StraightLine run; determine quantity and length of StraightLine pieces required (p. 36).

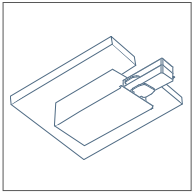
<input type="checkbox"/>	700SL _____
<input type="checkbox"/>	700SL _____
<input type="checkbox"/>	700SLCL _____
<input type="checkbox"/>	700SLFLX _____

Does the run include a sharp angle or turn?
 If so, specify an L Connector or a Flexible Connector to make the turn (p. 36).

Note: Many connectors require you to specify the ground configuration when ordering. See diagrams on p. 36 for standard ground contact configuration options.

STRAIGHTLINE SYSTEM

Step Two: Add Power and Hardware to Complete the System



POWER FEED CANOPY:

Power Feed Canopy (p. 37)

QTY. ITEM NUMBER

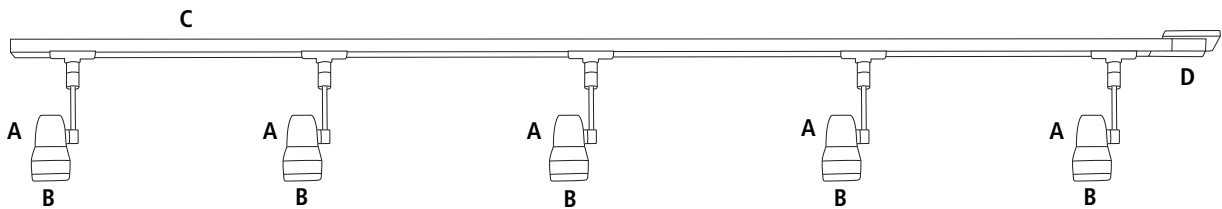
700SL _____

SPECIAL:

This outline covers only the most common StraightLine applications, but StraightLine can do almost anything. For other system options, see Connectors and Power Feed Canopies on (pp. 36-37) of the catalog, or call your local representative or Tech Lighting quotes department (800.522.5315).

STRAIGHTLINE SYSTEM

SAMPLE BILL OF MATERIALS - As seen on p. 28 of the T~trak Full Line Catalog



Item	Quantity	Item Number	Description
A	5	700SL2OM2006FW	TT-Om PAR20 6", frost lens ring, white
B	5	300BHV417	120v Inc PAR20 E26 Med 40° 50w
C	1	700SL2144W	StraightLine 96", white
D	1	700SL2P4CELW	Power Feed Canopy with End feed

CHECKLIST

Make sure your Bill of Materials Includes:

- Power Feed Canopy (p. 37, without connector if powering from the center of a section of track; with connector if joining sections of track)
- StraightLine Track (p. 36)
- Elements—line-voltage (pp. 44-98)
- Elements—low-voltage; order one StraightLine FreeJack connector (p. 34) for each FreeJack element (pp. 96-179 of Tech Full Line Catalog)
- Accessories and Optical Controls (pp. 66-67, 75, 77 line-voltage; pp. 226-233 low-voltage)
- 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 hardware item numbers end with (B) Black or (W) White; line-voltage element items end with (BS) Black/Satin Nickel, (WS) White/Satin Nickel, (WW) White/White; low-voltage element items end with (Z) Antique Bronze or (S) Satin Nickel
- End Caps (one for each end of the track; p. 36)

RECESSED DOWNLIGHTS

HOW TO ORDER

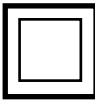
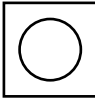
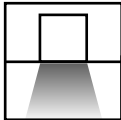
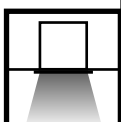











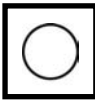






The Element catalog features item number grids for ease of ordering. For example, here is the grid for a 3.5" Square Flanged Flat Halogen MR16, from p. 12 of the Element Catalog. Select from the choices below each option field to build the complete item number.

	LAMP	FUNCTION	HOUSING RATING	TRANSFORMER	APERTURE	FINISH
E3SFF - *Housing Only	H Halogen MR16	A Adjustable D Down	I IC Airtight N Non-IC Airtight	M Dual-Tap Toroidal E Electronic R Remote	O No Lens H Shower L With Lens	Z Antique Bronze B Black S Satin Nickel W White
E3SFF - *Trim Only						
E3SFF - ** Trim & Housing Complete	H	A	N	M	H	W

* If you wish to have the trim and housing ship separately please fill out the first and second order grid options.
**To ship complete please fill out the third order grid option.

FULL LINE CATALOG ORDERING GRID

For your reference, listed here is the ordering grid for the complete ELEMENT Full Line.

SIZE	TRIM SHAPE	CEILING APPEARANCE	TRIM STYLE	LAMP	FUNCTION	HOUSING* RATING	TRANSFORMER*	APERTURE	FINISH
E3	S Square R Round	L Flangeless F Flanged	B Bevel F Flat	H Halogen MR16 C CMH MR16	A Adjustable D Down	I IC Airtight N Non-IC Airtight	M Dual-Tap Toroidal E Electronic R Remote	O No Lens H Shower L With Lens	Z Antique Bronze B Black S Satin Nickel W White
	 	 	 	 	 	 	  	  	   

* Halogen MR16 only.
* Halogen MR16 only. CMH MR16 includes 20 watt electronic ballast.

NOTE: 75 Watt maximum rating in **Non-IC**, 50 Watt maximum rating in **IC**. To include Wattage Restriction Label, write **WR** on the order and specify wattage. (Example: WR37)
Shower and lens versions include Solite™ soft focus lens at aperture.
Optical controls ordered separately - see p. 22 of the Element Catalog
Lamp ordered separately - see pp. 24-26 of the Element Catalog

RECESSED DOWNLIGHTS

Step One: Design Your Recessed Downlight

Page numbers below reference the Element Full-Line Catalog (921ELEFLCAT07), unless indicated otherwise.

LAMPS:

Decide between Halogen MR16 (pp. 12-15) and CMH MR16 (pp. 18-21) to identify appropriate section in the catalog.

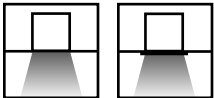
DESIGN YOUR PART NUMBER

Identify the default item number before selecting options



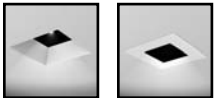
CHOOSE TRIM SHAPE:

Decide between Round (pp. 14-15, 20-21) and Square (pp. 12-13, 18-19).



CHOOSE CEILING APPEARANCE:

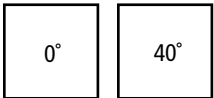
Decide between Flangeless (p. 13, p. 15, p. 19, p. 21) and Flanged (p. 12, p. 14, p. 18, p. 20). The trim is smaller on the Flangeless than the Flanged version and sits flush to ceiling. The Flangeless housing ships with a plaster plate, and the installer adds a skim coat around the plaster plate up to the aperture.



CHOOSE TRIM STYLE:

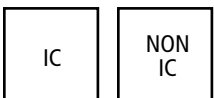
Decide between Bevel and Flat (pp. 12-15, pp. 18-21). Flat is flush with the ceiling surface. Bevel is regressed and appears like a cone or pyramid from below.

Select Options



CHOOSE FUNCTION:

Decide between Adjustable and Down. Adjustable incorporates a 0° to 40° Tilt Adjustment and 361° Pan Rotation. Down is a direct downlight, without Tilt Adjustment or Pan Rotation.



CHOOSE HOUSING RATING:

Decide between IC Airtight and Non-IC Airtight. IC is required when fixture is intended for direct contact with insulation (IC offering in Halogen MR16 only). Non-IC should be used if the installation space does not contain insulation. If insulation is present, a minimum 3" clearance should exist on all sides of the fixture, and insulation may not be present across top of the installed fixture.



CHOOSE APERTURE:

Decide among No Lens, Shower, and With Lens options for the trim. The Shower and With Lens versions include Solite™ soft focus lens at the aperture.

CHOOSE FINISH:

Decided between Antique Bronze, Black, Satin Nickel, and White finish options for the trim.

RECESSED DOWNLIGHTS

Page numbers below reference the Element Full-Line Catalog (921ELEFLCAT07), unless indicated otherwise

QTY. ITEM NUMBER

CHOOSE SHIPPING METHOD:

Select the first and second grid options to have the trim and housing ship together. Select the third grid option to have the trim and housing ship complete.

Example:

Ship Separately: Order E3SFF-HANM (Housing) and E3SFF-HW (Trim)

Ship Complete: Order E3SFF-HANM-HW

COMPLETE ITEM NUMBER:

Ship Separately

Housing Only

E3 _____

Trim Only

E3 _____

OR

Ship Complete

Trim and Housing Complete

E3 _____

IDENTIFY WATTAGE RESTRICTION, IF DESIRED:

If required, write WR on the order and specify wattage.

For example: E3SFF-HANM-HW-WR37

Ship Separately

Housing Only

E3 _____ -WR _____

Trim Only

E3 _____

OR

Ship Complete

Trim and Housing Complete

E3 _____ -WR _____

Step Two: Add Optical Controls

Integrate up to three control accessories in the included snoot if desired. Determine part number(s) (p. 22).

E3 _____

Step Three: Add Remote Transformer, if desired

REMOTE TRANSFORMER (P. 23):

CHOOSE:

Magnetic or Electronic (Electronic in 300 watt only)

Output wattage _____

Single or dual-feed

EAT _____

Step Four: Select Lamps

LAMPS (P. 26):

CHOOSE:

Halogen or

CMH

300BLV _____

300BHV _____



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

Date
Rep
Job name/location
Submitter's name
Company
Phone
Fax

SYSTEM

- Tech Lighting MonoRail (p. 6)
Tech Lighting Two-Circuit MonoRail (p. 30)
Tech Lighting Wall MonoRail (p. 48)
Tech Lighting Kable Lite (p. 60)
T~trak™ (p. 6)
StraightLine (p. 26)

Note: pages numbers refer to their respective catalogs

ELEMENTS

Elements to be used (specify):

Table with columns: Name/Length, Quantity, Color/Finish, Accessory/Finish/Color, Lamp/Watts. Rows include 1st Type, 2nd Type, 3rd Type, 4th Type.

Total No. of Elements:

Total Wattage:

FINISH

- Antique Bronze
Chrome
Satin Nickel
White
Custom finish or colored insulator (specify)

DRAWING

Attach drawing or provide on reverse side.

- Plan view
Elevation
Scale: 1/8" = 1', 1/4" = 1', 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
Canopy/Power Feed type: 4" Round, 2" Square, Rectangular, Direct End, Other
Surface: Magnetic OR Electronic
Output Wattage: 12V, 24V

If using existing junction boxes, show location on drawing.

MOUNTING

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

Table showing mounting distances for Tech Lighting MonoRail, Two-Circuit MonoRail, Kable Lite, and T~trak. Includes a row for 'Is the ceiling vaulted?' with Yes/No options.

SPECIAL

- Cantilever
Other (specify)

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

Date _____ Rep _____
Job name/location _____
Submitter's name _____
Company _____
Phone _____ Fax _____

SYSTEM

Wilmette MonoRail (p. 4)

ELEMENTS

Elements to be used (*specify*):

Name/Length	Quantity	Color/Finish	Accessory/Finish/Color	Lamp/Watts
1st Type				
2nd Type				
3rd Type				
4th Type				


Total No. of Elements:

Total Wattage:

FINISH

Antique Bronze Polished Nickel Satin Nickel
 Custom finish or colored insulator (*specify*) _____

DRAWING

Attach  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: Output Wattage:

Canopy/Power Feed type:
 4" Round Direct End Other _____
 Surface: 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*)

Wilmette MonoRail: 2" 3" 4" 5" 6" 12" 24" 36" 48" 96"
Is the ceiling vaulted? Yes No

SPECIAL

Other (*specify*) _____