Stay on the right track...
Insist on Genuine Electro-Rail®
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Typical cutting room installation.

Typical sewing room installation.
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Why Electro-Rail® is the Rail of Choice:

- Vast experience in complete system installations.
- Preferred by thousands of satisfied customers worldwide.
- Simple modular installation.
- Easy to use electrical plug-ins and trolleys installed in seconds to meet production requirements.
- Designed with safety in mind.
- An affordable system with proven economic benefits.
- Made to precise tolerances.
- Long lasting, heavy duty, high quality components.
- Simple to maintain and clean.
- Design and engineering services available.
- U.L. listed and C.S.A. certified.

Stay on the right track...
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* Electro-Rail® is listed by Underwriter's Laboratories, Inc.® (U.L) under BUSWAYS AND ASSOCIATED FITTING (File E165922). Electro-Rail® is also listed by the Canadian Standards Association (C.S.A.) under WIREWAYS AND BUSWAYS (File LL 103287-1).
ELECTRO-RAIL® systems are capable of providing multi-purpose trolleys or stationary plug-ins for installations requiring a source of electrical power which can be reconfigured without rewiring.

These systems provide moveable outlets for electrical power along their entire length. The systems are especially suited for use where conventional wire systems would be cumbersome and costly.

Plug-in Jacks with stationary power take-offs, are available for all ELECTRO-RAIL® systems.

The busway-supported outlets called “trolleys” (E60 system only) make contact with the enclosed bus bars and provide a continuous moveable connection for electrical devices. The trolleys are easily inserted and removed through door-busway sections.

As additional outlets are needed, trolleys (E60 System only) or stationary plug-ins can be quickly and efficiently inserted, their numbers being limited only by the current-carrying capacity of the busway and the capacity of each outlet.

Reliable design assures uniform contact pressure, limiting work stoppages due to electrical and mechanical interruptions in supplying power.

Advantages of these systems include low installation costs with complete re-usability; ease of adding outlets as required; electrical and personnel safety; compactness; dependability and minimum maintenance expense.

All “busway (track) sections” are factory assembled for ease in handling and rapid installation. No special tools are required.

Systems are designed for indoor use in non-hazardous, non-corrosive, dry atmosphere.

**Maintenance**

**Electrical Maintenance** on your ELECTRO-RAIL® System and parts requires:

1. keeping the System dry and clean to prevent electrical leakage or "shorts" across the insulation.
2. maintaining electrical continuity by keeping bus bar contact surfaces clean and joints tight.

**Mechanical Maintenance** on your ELECTRO-RAIL® System and parts requires:

1. preventing excessive wear.
2. replacing parts showing excessive wear.

**Preventative Maintenance:**
The following procedure, periodically performed, is recommended:

(a) Remove and inspect contacts for excessive wear. Replace worn contacts.
(b) Blow out all foreign particles which have accumulated inside the busway.
(c) Check jacks for electrical contact within the busway.
(d) Check all busway supports, busway joints, bus bar and feed connections for tightness.
Evaluation of Electro-Rail® "E60" Busway System

Fully compatible with System 60 Feedrail®

ELECTRO-RAIL® "E60" 2 & 3 Pole Systems
(Movable trolley & Stationary Plug-in Systems)

Electrical Current Carrying Capacity
Busway (track) rating: 60 amperes continuous; Trolleys rated at 5, 15 & 20 amperes continuous; PLUG-IN JACKS rated at 15 amperes continuous.

Voltage
Busway (track) 300 Volts. (See perspective pages for Trolleys).

Supporting the Busway
Busway (track) should have a minimum of two busway hangers per section for support. Additional Busway hangers can be attached at intermediate points. Busway may be supported on up to 10' centers at busway joints when used with duplex track hangers. Please refer to Busway Hanger Section for available styles.

Busway
Busway (track) sections consist of a one-piece streamlined 18-gauge zinc coated steel housing and the enclosed current carrying bus bars and insulators. Busways are factory assembled in convenient 10 foot lengths and ready for easy, fool-proof on-the-job installation. The lower horizontal portions of the housing serve as smooth, rigid runways for the trolleys.

"E60" Busway (track) sections are available in two types (Plain & Door).

Bus bars are of hard drawn copper. Designed to carry the specified current of 60 amperes per pole continuously. Bus bar connectors provide full current carrying capacity across the joints without disrupting the free travel of the trolley contacts. Insulators are made of high insulating and arc-resistant material.

Trolleys
Trolleys are available in both fusible and non-fusible styles.

All ELECTRO-RAIL® "E60" 2 & 3 Pole Trolleys have a chassis-insulator contact assembly. The chassis is of heavy gauge zinc plated steel. Trolley and guide wheels are a special ball bearing type. The insulator block combines sufficient insulating properties with high arc resistance.

ELECTRO-RAIL® "E60" 2 & 3 Pole Trolleys are available with 3 types of contacts: Copper Graphite Roller Contacts for movement not in excess of 150 feet per minute; Copper Graphite Brush Contacts for movement up to 250 feet per minute; Bronze Brush Contacts for stationary service. The polarizing tab on the chassis and a stop in the door busway (track) section, assures the insertion of the trolley in the correct manner. Equipment grounding may be accomplished through the trolleys. Do not use weights in excess of 20 lbs. per trolley in moving applications.

Plug-Ins
Plug-ins are designed for applications where the continuous movement of a trolley is not required (i.e., sewing rooms, connecting light fixtures, small tools, etc.). Insertion into a busway (track) section can be at any point of busway. After insertion a quarter turn makes electrical contact with bus bars and locks the plug-in securely in place and is properly polarized.

Grounding
For safety, the busway (track) casings of the ELECTRO-RAIL® "E60" system may be used as a grounding conductor for grounding equipment through individual trolleys or plug-ins.

To ground the equipment use the screw on the underside of the trolley chassis or on trolleys having cabinets or boxes by using the grounding screw within the box. Busway housing must be grounded through conduit or other appropriate means.

Uses
ELECTRO-RAIL® "E60" 2 & 3 pole systems are designed for indoor service where the system can be kept dry. These systems are electrified busway (track) in which the current carrying components are enclosed in protective steel housings. Low friction busway-supported trolleys take off current and provide ready electric power.

The ELECTRO-RAIL® "E60" 2 & 3 Pole Systems provides safe electric power for sewing machines, cloth cutting machines, cloth laying and inspection machines, silk screen printing and drying machines, monorail hoists, light duty cranes and stackers, book binding machines, portable tools on assembly and production lines, radio, TV and appliance test lines, lights for offices, stores, factories, etc.

The ELECTRO-RAIL® "E60" 2 & 3 Pole Systems are made of standardized components, factory assembled for fast, on-site installation.
"E60" Component Ordering Guide

When Using End Feed Sets
(requirements for each run)
1. One coupling set (ERS-102) less than the number of track sections in busway run
2. One dead end cap set (ERS-107)
3. One end feed set (ERS-106)
4. One junction box (ERS-110)
5. Two hangers for each 10 foot busway section (select type best suited for your requirements)
6. Select appropriate trolleys or plug-ins

When Using Center Feed Sets
(requirements for each run)
1. Two coupling sets (ERS-102) less than the number of busway sections in busway run
2. Two dead end cap sets (ERS-107)
3. One center feed set (ERS-103)
4. One junction box (ERS-110)
5. Two hangers for each 10 foot busway section (select type best suited for your requirements)
6. Select appropriate trolleys or plug-ins

"E60" Mounting Methods

Examples of the methods commonly used for mounting 2 & 3 pole systems busway runs are shown below. These methods can be used in existing plants as well as in new constructions. Engineers and contractors can devise other methods to suit special installations. In every case the mounting should be designed to insure a rigid installation in both horizontal and vertical alignment. Rod or strap supports should not exceed 2 feet in length without sway bracing.

As an aid in planning mountings, the basic dimensions of the ELECTRO-RAIL® 2 & 3 pole systems are shown below. These are offered as a guide only.

Wall Mounting
- 3/8" Hex Nut & Lock Washer
- Hanger Rod (Cut to Length)
- ER-105 Clevis Support
- Electro-Rail® Busway

Wood Ceiling Mounting
- 3/8" Lag Screw
- Hanger Rod (Cut to Length)
- ERS-150 Busway Hanger
- Electro-Rail® Busway

Wood Beam Mounting
- 3/8" Hex Nut & Lock Washer
- ERS-150 Busway Hanger
- Electro-Rail® Busway

Concrete Ceiling Mounting
- Lead Anchor or Concrete Insert in ERS-150 Busway Hanger

"E60" Electrical Connections and Usage

Note:
On single phase equipment, use 3-wire cord and connect the green wire to grounding terminal on trolley. On 3 phase equipment, use 4-wire cord and connect the green wire to grounding terminal on trolley. Grounding all devices is an absolute must to comply with electrical codes. When ordering fused switches with clutch motors or other devices, fused trolleys are not required. For cutting machines, use roller trolleys.

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<td>Equipment Ground</td>
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Installation Procedures for Electro-Rail® "E60"

Installation Instructions for ERS-103
Coupling with Center Feed Set

Remove plain copper connectors and replace with center feed set terminal connectors (#1) and tighten screws as indicated (#2). Place the busway (track) sections end to end and loosen screws (#3) to clear openings in connectors. Slide bus bars into terminal connectors and tighten screws (#3). Up to 1/32” gap may be left in bus bar joint to permit alignment. Hook side plates (#4) into underside slots (#5) of casings and swing up into position. Insert screws (#6) into side plates and tighten so that the casings are clamped securely. Mount cover (#7) on side plates with screws (#8). Insert 2 half moon spacers onto connectors and fasten with screws (#9) to the cover (#7).

Installation Instructions for ERS-106
Mounting with End Feed Set

Remove plain copper connectors and replace with end feed set terminal connectors (#1) and tighten screws as indicated (#2). Insert end insulator (#3) into terminal connectors as indicated. Tighten screws (#4) to secure insulator. Mount side plates as indicated above (ERS-103 instructions). Loosen mounting clip (#5) on end plate and slide into position. Installation of cover and spacers same as ERS-103 instructions above.

Note: Feed Set will accommodate ERS-110 junction box, 4” octagonal box, or extension ring.
Installation Procedures for Electro-Rail® “E60”

Installation Instructions for ERS-102
Joining Busway Sections with Coupling Set

Install terminal connectors to bus bars on one end (#1). Place bus bar sections end to end and loosen screws (#2) to clear openings in connectors. Slide bus bars into terminal connectors (#3), shifting the bus bars slightly if necessary, and retighten screws (#2). Up to 1/32” gap may be left in bus bar joint. Caution: Insure the connectors are centered in the casing.

Hook side plates (#4) into underside slots (#5) of casings and swing up into position. Insert screws (#6) into side plates and tighten so that the casings are clamped securely. Place insulator (#7) on connectors (#3). Mount cover (#8) on side plates with screws (#9).

Installation Instructions for ERS-107
Mounting with Dead End Cap

Install terminal connectors as indicated. Insert the end insulator (#1) as indicated. Tighten screws (#2) to secure insulator and connectors. Mount side plates as indicated above (ERS-102 instructions). Loosen mounting clip (#3) on end plate and slide into position. Installation of cover same as ERS-102 instructions above.

Trolley Mounting Installation

1. Press pins together on underside of the door section and swing doors open.
2. Insert trolley in busway (track) slot. If trolley hits polarizing stop, remove, turn trolley 180° and reinsert. Close busway doors.
"E60" Plug-in & Trolley Busway

Heavy gauge zinc plated steel busway (track) complete with three (3) copper bus bars mounted on arc-resisting insulators. Door busway is identical to plain busway sections with the addition of a trap door to permit insertion or removal of trolleys. Polarizing flange assures proper electrical orientation of trolleys. Coupling Set (ERS-102) includes three (3) Bus Bar Connectors (E190-3).

ERS-100
Plain Busway
60 Amp, 300 Volt, AC/DC
2 or 3 Poles (10 ft.)

ERS-101
Door Busway
60 Amp, 300 Volt, AC/DC
2 or 3 Poles (10 ft.)

Note: It is recommended that a minimum of one door section be used with every five sections of plain busway.

"E60" Busway Accessories

E5
Five Foot Safety Strip
Safety & dust protection closure strip can be custom cut to fit spaces between plug-ins.

ERS-77
Busway Cleaning Tool
This trolley mounted tool with cleaning stones, permits bus bars to be quickly cleaned. It is inserted in the door openings along the busway same as standard trolleys and pushed back and forth. All bus bars are cleaned at the same time.
**Busway Accessories**

**ERS-105**

*Busway Hanger Set*

For use in mounting busway (track) sections. Mounting hole will take 3/8" diameter bolt. Set can be attached to busway at any point. A minimum of two busway hangers required for each 10 foot busway section.

**ERS-115**

*Busway Hanger Set*

Use in place of ERS-105 Busway Hanger Set, where mounting bolts are to fasten vertically to supports. Takes 3/8" diameter bolts. Can be attached to busway (track) at any point between busway joints. Minimum of two busway hangers required for each straight busway section.

**ERS-108**

*Busway Hanger Set*

Use in place of ERS-105 Busway Hanger Set, where structural supports are not available. Takes 3/8" diameter messenger cable. They can be attached to busway (track) at any point. Minimum of two hangers required for each 10 foot busway section.

**ERS-124**

*Dplex Busway Hanger Set*

For use in Clevis or other hanging when 10 foot support spacing is desired. To be used at busway (track) joint over coupling set.

**ERS-150**

*Busway Hanger Set*

For Tie Rod Installations. Permits direct attachment of 3/8" tie rods at any point between busway (track) joints. Permits easy leveling of busway sections. Minimum of two busway hangers required for each section.

**ER-105**

*Busway Clevis Support*

For use in Tie Rod Installations. Malleable iron, with 3/8" cross bolt and 3/8-16 tapped hole for tie rod. Used with ERS-105 Busway Hanger Set.

- 36" All threaded rod (20 pack)
- 3/8" Lock washer (zinc plated)
- 3/8" Hex nut (zinc plated)
ERS-102
**Coupling Set**
Side plates with cover for coupling adjacent busway (track) sections. They lock sections together. Coupling Set includes three E190-3 Connectors.

ERS-107
**Dead End Cap**
For use in closing the end of a busway (track) run. Similar to ERS-102 Coupling Set with the addition of removable end insulator, end plate, bumper and Bus Bar Connectors.

ERS-103
**Center Feed Set**
For use in electrical connections to the power supply between any two adjoining busway (track) sections. Also serves as a busway coupling. Cover fits standard 2-1/8" deep, 4" octagon extension ring or outlet box, or ERS-110 Junction Box. Terminals included.

ERS-106
**End Feed Set**
For use in electrical connection to the power supply and closing the end of a busway (track) run. Similar to ERS-103 Center Feed Set with the addition of an end plate and bumper.

ERS-110
**Junction Box**
For use with ERS-103 and ERS-106 Feed Sets. Box has 1" and 1-1/2" knockouts on three sides.
**ERS-53P**

**Non-Fusible Plug-In Jack with Junction Box**

15 Amperes — 300 Volt (AC or DC).

Self-contained unit of jack, junction box and cable clamp. Non-fusible. Polarized Plug-in Jack is designed for applications where moveable trolleys are not required, such as in sewing rooms or for connecting lighting fixtures and small tools. Plug-In Jacks can be inserted at any point in the busway (track). Following insertion, a quarter turn of the Plug-In Jack establishes electrical contact with the bus bars and locks the plug-in jack securely in place. Equipment ground is accomplished through the metallic shell of the busway housing. Lead wires are color coded. One 1/2" Junction Box knock-out complies with OSHA.

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**ERS-45**

**Non-Fusible Plug-In Jack**

15 Amperes — 300 Volt (AC or DC).

Same as ERS-53P less junction box. Supplied with 6" leads. Designed to take a standard handy box.

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**ERS-61P**

**Fusible Plug-In Cabinet**

15 Amperes — 250 Volt (AC).

Steel hinged door cabinet. Takes 9/16" x 2" long cartridge fuses. Includes cartridge fuse block and cable support lug. Fuses are not included.

---

**ERS-19**

**Fusible Roller Trolley with Cabinet**

3 Pole — 5 Amperes — 300 Volt (AC or DC).

Equipped with 1/2" IPS nipple to which an enameled steel cabinet with cable grip is attached through a swivel type connector. Cabinet has a hinged self-locking door and is complete with open type fuse block. For standard cartridge fuses. Fuses are not included.
Non-Fusible Trolleys with Cable Grip
300 Volts (AC or DC)

ERS-22
Fixed Trolley
15 Amperes.
2 Pole Bronze Brush Contacts.

ERS-2
Fixed Trolley
15 Amperes.
3 Pole Bronze Brush Contacts.

ERS-26
Moveable Trolley
15 Amperes.
2 Pole Copper Graphite Brush Contacts.

ERS-6
Moveable Trolley
15 Amperes.
3 Pole Copper Graphite Brush Contacts.

ERS-32
Moveable Roller Trolley
5 Amperes.
2 Pole Copper Graphite Roller Contacts.

ERS-12
Moveable Roller Trolley
5 Amperes.
3 Pole Copper Graphite Roller Contacts.
"E60" Replacement Parts

E110-7
Trolley Body
5 & 15 Amperes.

E120-1
Trolley Chassis
5 & 15 Amperes.

E115-4
Bronze Brush Contact
15 Amperes.

E115-42
Copper Graphite Brush Contact
15 Amperes.

E115-12
Copper Graphite Roller Contact
5 Amperes.

E155-10
Chassis Liner
5 & 15 Amperes.

E155-13
Contact Retaining Plate

E150-8
Plate Screw
"E60" Replacement Parts

**E185-5**
Track Door Hinge

**E155-3**
Bus Bar Insulator

**E190-3**
Bus Bar Connector

**E155-4**
Bus Bar Spacer

**12281-1**
Coupling Insulator

**E170-1**
Terminal Feed

**E155-7**
Terminal Spacer
2 required.
# Electro-Rail® Heavy Duty Use Special Service Trolleys

3 Pole — 20 Amperes — 300 Volt (AC or DC).
These special service trolleys are equipped with brush type copper graphite contacts. Specifically for use in applications where service is continuous or heavy duty, such as hoists, light tonnage monorails, automatic cloth spreaders, machine tools, etc.
 Fusible units include cabinet with hinged self-locking door with fuse block. Trolleys use standard cartridge type fuses. Fuses are not included.

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"E60" Replacement Parts for ERS-84 & ERS-86

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ELECTRO-RAIL® "E300" 4 Pole System
(Stationary Plug-in System)

Electrical Current Carrying Capacity
Busway (track) rating: 50 amperes continuous. PLUG-IN JACKS rated at 15 amperes continuous.

Voltage
Busway (track) 300 Volts.

Supporting the Busway
Busway (track) should have a minimum of two busway hangers per section for support. Additional Busway hangers can be attached at intermediate points. Busway may be supported on up to 10° centers at busway joints when used with duplex track hangers.

Please refer to Busway Hanger Section for available styles.

Busway
Busway (track) sections consist of a one-piece streamlined 18-gauge zinc coated steel housing and the enclosed current carrying 4 round bus bars and insulators. Busways are factory assembled in convenient 10 foot lengths and ready for easy, fool-proof on-the-job installation. Bus bars are of hard drawn copper. Designed to carry the specified current of 50 amperes per pole continuously, without overheating. Bus bar coupling sets provide full current carrying capacity across the joints. Insulators are made of high insulating and arc-resistant material.

Plug-Ins
A plastic polarizing guard in the busway housing insures proper insertion and grounding of the polarized plug-in jack. Designed for applications where the frequent movement of a trolley is not required (i.e., sewing rooms, connecting light fixtures, small tools, etc.). Insertion into a busway (track) section can be at any point of busway. After insertion a one quarter turn makes electrical contact with bus bars and locks the plug-in securely in place.

"E300" Component Ordering Guide
1. One coupling set (ERS-402-4) less than the number of track sections (ERS-300M) in busway run
2. One dead end cap set (ERS-307-4)
3. One end feed set (ERS-306-4)
4. Two hangers for each 10 foot busway section (select type best suited for your requirements)
5. Select number of plug-ins required either (ERS-351M or ERS-350M)

"E300" Mounting Methods
Examples of the methods commonly used for mounting 4 pole system busway runs are shown below. These methods can be used in existing plants as well as in new constructions. Engineers and contractors can devise other methods to suit special installations. In every case the mounting should be designed to insure a rigid installation in both horizontal and vertical alignment. Rod or strap supports should not exceed 2 feet in length without sway bracing.

As an aid in planning mountings, the basic dimensions of the ELECTRO-RAIL® 4 pole systems are shown below. These are offered as a guide only.
"E300" — 4 Pole Assembly

2 BUSWAY HANGER SETS REQUIRED PER SECTION — MAXIMUM SPACING 5'-0" EXCEPT WHEN DUPLEX HANGERS ARE USED.
Installation Instructions for ERS-402-4
Joining Straight to Straight Sections with Coupling Plate

Join straight track sections (1), making sure plastic polarizing strips (2) of both sections are on the same side. Back off the 8 set screws (3) in terminal block (4). Slip terminal block connectors (5) on to bus bars (6). Tighten set screws (3) to bus bars. Insert bus bars (6) into terminal block (4), bringing track casings together and tighten set screws (3).

Take the 2 halves of the coupling plate (7) and hook them to the bottom of the track housing and swing up so the holes are placed over the dimples (8) on the track housing. Hold the coupling plate (7) and insert screws (9) to fasten them together (Do not tighten all the way).

Tighten screws (9) on coupling plate. Place cover plate (10) onto coupling plate (7), and insert screws (11) and tighten. The joining of sections is complete.
Installation Instructions for ERS-307-4
Mounting Dead End Cap on Busway (Track) Housing

Place bus stops (1) over bus bars (2) and push them on all the way. Take the 2 halves of the coupling plate (3) and hook them to the bottom of the busway (track) housing and swing up so the holes are placed over the dimples (4) on the busway housing.

Hold the coupling plate (1) and insert screws (2) to fasten the coupling together. Loosen screws on end plate (3) to allow sliding into position on coupling plate (1). Retighten screws on end plate.

Place cover plate (1) onto coupling plate (2). Insert screws (3) on coupling and the installation of dead end cap is completed.
Installation Procedures for Electro-Rail® “E300”

Installation Instructions for ERS-306-4
Mounting End Feed Box to Busway (Track) Section

Place connectors (1) of plastic insulator (2) onto bus bar ends so that the connectors are half way on. Tighten the 4 screws (3) on the connectors to hold the insulator secure. Take the 2 halves of the coupling plate (4) and hook them to the bottom of the busway (track) housing and swing up so the holes are placed over the dimples (5) on the busway housing.

Hold the coupling plate (1) and insert screws (2) to fasten the 2 halves of coupling plate together. Then place end feed box (3) over coupling plate (1) as illustrated. Line up holes in box and coupling (4) and insert and tighten screws (5).

Place cover (1) over box (2) as illustrated. Insert screws (3) and tighten. The end feed box installation is completed.
"E300" Plug-In Busway

ERS-300M
50 Amp, 300 Volt
AC/DC Busway
4 Pole (10 ft.)
Includes two (2) E5 Safety Closure Strips.

E11669I
Bus Bar Insulator

"E300" Busway Accessories

E5
Five Foot Safety Strip
Safety & dust protection closure strip can be custom cut to fit spaces between plug-ins.

Typical sewing room installation.
**ERS-105**

**Busway Hanger Set**
For use in mounting busway (track) sections. Mounting hole will take 3/8" diameter bolt. Set can be attached to busway at any point. A minimum of two busway hangers required for each 10 foot busway section.

**ERS-115**

**Busway Hanger Set**
Use in place of ERS-105 Busway Hanger Set, where mounting bolts are to fasten vertically to supports. Takes 3/8" diameter bolts. Can be attached to busway (track) at any point between busway joints. Minimum of two busway hangers required for each straight busway section.

**ERS-108**

**Busway Hanger Set**
Use in place of ERS-105 Busway Hanger Set, where structural supports are not available. Takes 3/8" diameter messenger cable. They can be attached to busway (track) at any point. Minimum of two hangers required for each 10 foot busway section.

**ERS-124**

**Duplex Busway Hanger Set**
For use in Clevis or other hanging when 10 foot support spacing is desired. To be used at busway (track) joint over coupling set.

**ERS-150**

**Busway Hanger Set**
For Tie Rod Installations. Permits direct attachment of 3/8" tie rods at any point between busway (track) joints. Permits easy leveling of busway sections. Minimum of two busway hangers required for each section.

**ER-105**

**Busway Clevis Support**
For use in Tie Rod Installations. Malleable iron, with 3/8" cross bolt and 3/8-16 tapped hole for tie rod. Used with ERS-105 Busway Hanger Set.

3/8" Lock washer (zinc plated)  
3/8" Hex nut (zinc plated)  
36" All threaded rod (20 pack)
ERS-351M
4 Pole Plug-In Jack with Junction Box
15 Amperes
Polarized Plug-in Jack with a galvanized steel junction box and clamp for fast, easy wiring. The Jack has spring-loaded contacts for direct, positive contact with the bus bars. One junction box 1/2" knock-out complies with OSHA.

ERS-350M
4 Pole Plug-In Jack
15 Amperes
Same as ERS-351M less junction box. 4-Pole Polarized Jack has spring-loaded contacts for direct, positive contact with the bus bars.

ERS-402-4
4 Pole Coupling Set
Side plates with cover for coupling adjacent busway (track) sections. They lock sections together. Includes block with four (4) bus bar connectors.

ERS-307-4
4 Pole Dead End Cap
For closing the end of a busway (track) run.

ERS-306-4
4 Pole End Feed Set
50 Amperes
For electrical connection to the power supply and closing the end of a busway (track) run.
Fully compatible with System G.E. LTG

Underwriters Laboratories Inc.® LISTED

Canadian Standards Association® LISTED

ELECTRO-RAIL® "E422" 4 Pole System
(Stationary Plug-in System)

Electrical Current Carrying Capacity
Busway (track) rating: 50 amperes continuous. PLUG-IN JACKS rated at 20 amperes continuous.

Voltage
Busway (track) 300 Volts.

Supporting the Busway
Busway (track) should have a minimum of two busway hangers per section for support. Additional Busway hangers can be attached at intermediate points.

Please refer to Busway Hanger Section for available styles.

Busway
Busway (track) sections consist of a one-piece streamlined gray painted steel housing and the enclosed current carrying bus bars and insulators. Busways are factory assembled in convenient 10 foot lengths and ready for easy, fool-proof installation. Bus bars are plated copper. Designed to carry the specified current of 50 amperes per pole continuously, without overheating. Bus bar coupling sets provide full current carrying capacity across the joints.

Plug-Ins
Polarized plug-ins are designed for applications where the movement of a trolley is not required (i.e., sewing rooms, connecting light fixtures, small tools, etc.). Insertion into a busway (track) section can be at any point of busway. After insertion plug-ins are secured by a cable clamping bracket.

Grounding
For safety, the busway (track) casings of the ELECTRO-RAIL® "E422" system is used as a grounding conductor through the plug-in brackets.

"E422" Component Ordering Guide

With ERS-EF422 End Feed
1. One coupling set ERS-CS less than number of track sections (ERS-R422) in busway run
2. One end set ERS-EF422
3. One end cap ERS-EC
4. Two hangers for each 10 foot section of busway (select type desired for your requirements)
5. Determine number of plug-ins required either ERS-P421 or ERS-PIB421

With ERS-CF422 Center Feed
1. Two coupling sets ERS-CS less than number of track sections (ERS-R422) in busway run
2. One center feed ERS-CF422
3. Two end cap ERS-EC
4. Two hangers for each 10 foot section of busway (select type desired for your requirements)
5. Determine number of plug-ins required either ERS-P421 or ERS-PIB421

Basic Setup & Dimensions of Electro-Rail® "E422" Busway (Track)

"E422" — 4 Pole Assembly

Hanger Plate ERS-HP
Hanger Plate w/Messenger ERS-CHP
Coupling Set ERS-CS
End Cap ERS-EC

End Feed ERS-EF422
Plug-in ERS-PIB421
Plug-in ERS-P421
Center Feed ERS-CF422

Underwriters Laboratories Inc.® LISTED

Canadian Standards Association® LISTED
"E422" Plug-In Busway

ERS-R422
50 Amp, 300 Volt
4 Pole Track Rail
(10 ft.)
Includes two (2) E4 Safety Closure Strips. Bus Connectors not included — see Couplings.

"E422" Busway Accessories

E4
Five Foot Safety Strip
Safety & dust protection closure strip can be custom cut to fit spaces between plug-ins.

E70527
Insulator for Rail
Safety & dust protection closure strip can be custom cut to fit spaces between plug-ins.

ERS-EC
End Cap
"E422" Hanger Plates

ERS-HP
Plate Only with Screws

ERS-CHP
Combination Rod & Messenger

"E422" Couplings

ERS-CP
Coupling Plate Only

ERS-BC
Bus Bar Connector

ERS-CS
4 Pole Coupling Set
Consists of one (1) ERS-CP Coupling Plate and four (4) ERS-BC Bus Bar Connectors.

ERS-CPSS
Coupling Plate Support Set
Consists of one (1) 12" Support Bar, two (2) ERS-HP Plates and all needed hardware.
ERS-P421
Plug-In
20 Amperes — 240 Volt.
Contacts: A-B-C-N.
May be used for 2, 3 or 4 pole applications.

ERS-PIB421
Fusible Plug-In
with Conduit Box
20 Amperes.
Contacts: A-B-C-N.
Takes 3 standard cartridge fuses.
Fuses are not included.

"E422" 4 Pole Feed-In Boxes

ERS-EF422
End Feed-In Box
50 Amperes.
Surface Mounting. Couplings included.

ERS-CF422
Center Feed-In Box
50 Amperes.
Surface Mounting. Couplings included.
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Literature No. ELER99
Printed in U.S.A.