



**Starline®**  
A brand of **legrand**

# Track Busway Product Selection Guide

T1-T5 US SYSTEMS  
S3-S5 US SYSTEMS

# T1-T5 SYSTEMS

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# T1 SERIES

## SPECS & INTRODUCTION

### SPECS

This specification covers the electrical characteristics and general requirements for a track busway system, hereafter referred to as (Track Busway or busway). The system shall be designed primarily for overhead distribution of electrical power. Supporting designated work areas and equipment. Once installed the busway will provide a simple, versatile, fast and economic means of distributing power. Loads fed from a variety of plug-in units can be easily added or removed without shutting power down to the busway.

Track Busway shall be designed and manufactured to the following standards:

1. Underwriters Laboratories Standard, UL 857 — The common UL, CSA, and ANCE Standard for Busways that is derived from the fifth edition of CSA Standard C22.2 No. 27, the twelfth edition of UL 857, and the second edition of NMX-J-148-1998-ANCE.

\*All standards and certifications available upon request

### INTRODUCTION

Starline is the leader in electrical power distribution in the mission critical, commercial and light industrial industries with Starline Track Busway. This system was designed to meet the rugged specification of the UL857, Busway and Associated Fittings, with the flexible features of track lighting — and is available in systems with 40, 50 & 60 amps with isolated ground.

It is the simple, versatile, fast and economical solution for supplying power to electrical loads and is unique because the busway can be instantly tapped at any location, with a variety of plug-in units.

The Product Selection Guide was developed to help the design engineer understand and consider all of the options available with Starline Track Busway when designing a system.

This guide is all-inclusive; however, Starline excels at collaborating with design engineers to provide solutions for any application. If you have a need that is not found in this guide, please contact us at **1-800-245-6378** or email us at **info@starlinepower.com**. We will be happy to answer your questions over the telephone or schedule a visit with one of our local representatives.

Also, if viewing this guide in print, please keep in mind that this is a working document. Starline reserves the right to change information and descriptions of listed services and products. The latest version of this guide is available for download at [downloads.starlinepower.com](https://downloads.starlinepower.com).

# T1 SERIES

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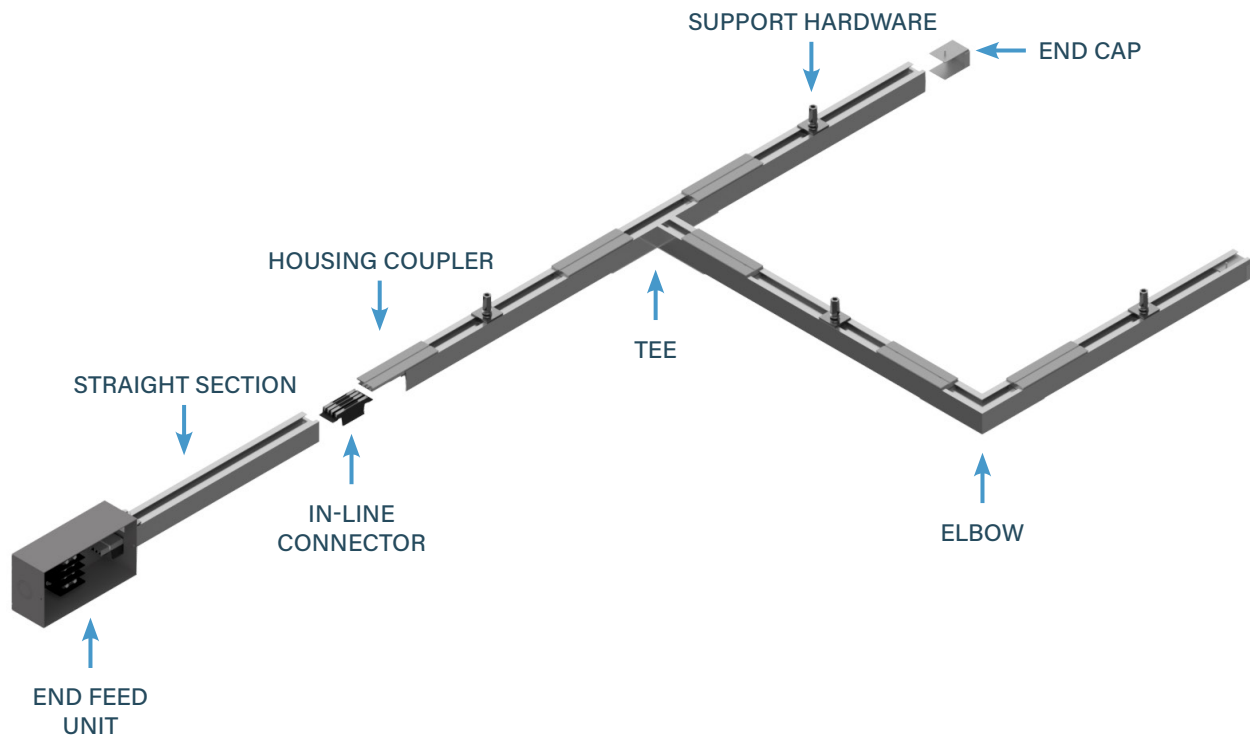
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# T1 SERIES

## SYSTEM LAYOUT DRAWING



### PLUG-IN UNITS

For further information on applicable T1 plug-in unit options, please consult the factory.

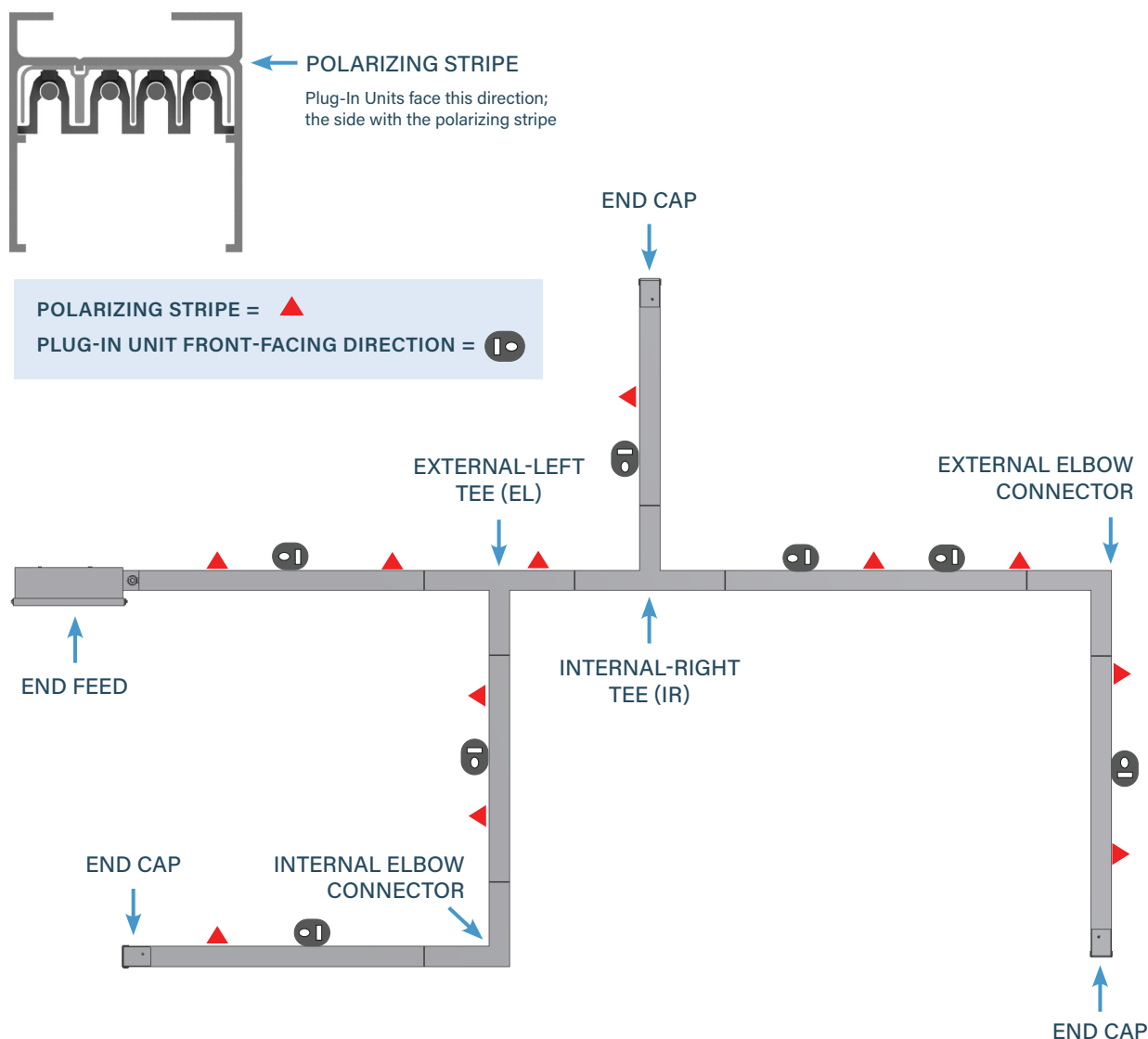
# T1 SERIES

## POLARITY TIPS

Starline utilizes a unique polarizing method to prevent mismatched components from being inadvertently connected to each other. The system is designed to prevent cross phasing during installation.

**It is particularly important to understand this design concept prior to ordering and/or installing some components.**

For example, if the face direction of a Starline plug-in unit is important in your installation consider that they will always face the side with the polarizing stripe.



# T1 SERIES

## SYSTEM LAYOUT TIPS

### POWER FEEDS

Determine location of power feeds based on relation to power source, existing feeders and voltage drop concerns for longer runs.

### SUPPORT HARDWARE

Support hardware is spaced no more than 10 feet apart. Refer to **page 1.24** for support hardware details. Contact your local Starline applications engineer for any questions.

### INSTALLATION

Printed installation drawings are supplied with each system shipment and they are also available for download online at [downloads.starlinepower.com](https://downloads.starlinepower.com). CAD files of these drawings are also available by contacting your local Starline applications engineer.

### BUSWAY HOUSING SECTIONS

Standard busway lengths are available in 20, 10 and 5-foot increments. Although the factory can cut individual Starline Track Busway sections to any length under 20 feet, it is highly recommended to keep all layout runs in increments of 5 feet to simplify layout and installation. Custom lengths can be made but can increase lead time and make layout and installation a bit more complex.

### BUSWAY TEES AND ELBOWS SECTIONS

Try to keep all runs as straight as possible as tees and elbows are added cost. With grid or any other bidirectional applications, there is a choice of two-plane with each direction on a separate plane or using cross sections if single-plane is required. Single-plane applications can provide power in both directions as well as parallel runs.

LENGTH OF BUSWAY FOR A ONE VOLT DROP IN LINE TO LINE VOLTAGE:			
SYSTEM DESIGNATION	DISTRIBUTED LOAD	VOLTAGE DROP @ 0.8 PF SINGLE PHASE	VOLTAGE DROP @ 0.8 PF THREE PHASE
40T1	40 amps	36 ft	63 ft
50T1	50 amps	29 ft	50 ft
60T1	60 amps	29 ft	51 ft

# T1 SERIES

## COMPONENT RELATIONSHIP TIPS

When ordering material, it is important to understand the relationship between various components.

### EXAMPLES

- Each straight section requires a connector and coupler.
- Three Housing Couplers (HC) are needed for each Tee Connector.

### GENERAL SUPPORT HARDWARE RULE TO FOLLOW:

10 feet maximum spacing between supports and we recommend 10% more than the required quantity to cover potential layout changes.

- Total Power Feeds and End Caps can be determined by counting the total number of unconnected runs.
- Before specifying or ordering Elbow or Tee connectors, it is important to understand polarity and the relationship to direction of outlets. Please refer to **page 1.3 Polarity Tips** for more detail.

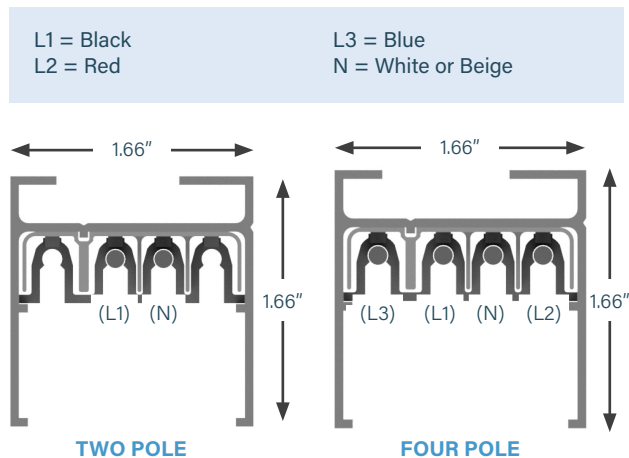
# 40-50-60 AMP SYSTEMS

## STRAIGHT SECTIONS

### ■ PRODUCT DESCRIPTION

Track Busway straight sections consist of an extruded aluminum shell with insulated copper conductor strips mounted on the top interior wall. The aluminum housing acts as a 100% ground path and each straight section has an open access slot over its entire length for the insertion of snap-in plug-in units. Housing configurations include 2 and 4 pole varieties, 480/277 Volts max. Track Busway straights are connected together using a joint kit, which includes an in-line connector and housing coupler (found under Accessories).

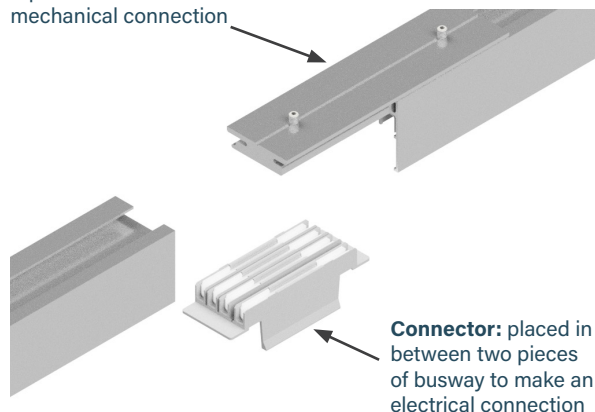
Sections are supported every 10 feet maximum and can support 100 pounds hanging weight between vertical supports. Four-pole busway is normally used in 3-phase/4-wire power systems. Four-pole busway may be used for 2 independent single-phase circuits at different voltages. Sections can be factory cut to any length.



### WEIGHT

10 ft 40 Amp, 2 or 4 pole: 7/8 lbs  
10 ft 50 Amp, 2 or 4 pole: 7/8 lbs  
10 ft 60 Amp, 2 or 4 pole: 8/9 lbs

**Housing Coupler:** placed over top of connector to make a mechanical connection



# 40-50-60 AMP SYSTEMS

## STRAIGHT SECTIONS: RECESSED

### ■ PRODUCT DESCRIPTION

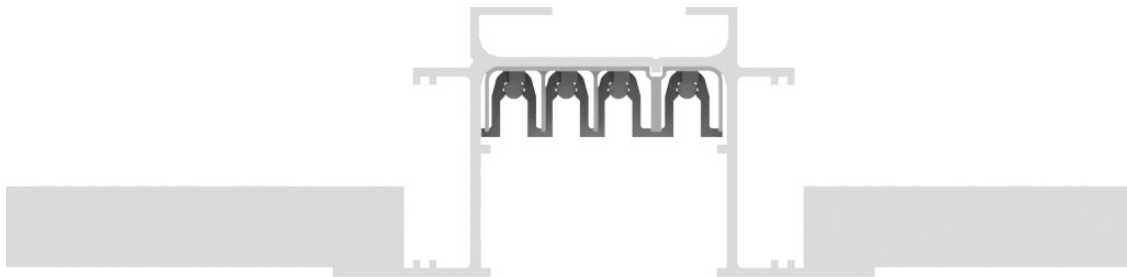
T1 housing is also available in a slightly different design, specifically tailored for busway that is meant to be installed recessed into a suspended ceiling.

Busway straight sections are available in 20, 10, and 5 foot lengths for two standard drop or suspended ceiling configurations.

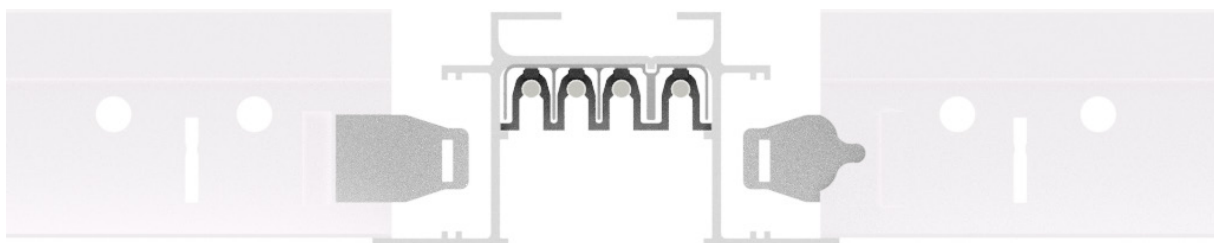
For recessed housing, please choose **'R1'** as opposed to 'T1' in your product number.

\*refer to **page 1.8** option 4. Compatibility (frame compatibility)

4. COMPATIBILITY (frame compatibility)			
T1	T1 System	R1	T1 System (Recessed Housing)



DRY WALL INSTALLATION



STANDARD AND REGULAR TILE INSTALLATION



## STRAIGHT SECTIONS: PRODUCT NUMBERS

10. Paint Color

**EXAMPLES**

**US060T1C4S-0906C-STD0** = US System, Straight Section, 60 amps, T1 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 9 foot - 6 inch Straight Length, Continuous Busway Access, Factory Mill Finish

**US040R1C2S-0500C-PA50** = US System, Straight Section, 40 amps, T1 System-R1 Recessed Housing, Copper Conductor, 1 Phase plus Neutral, Standard Polarization- 5 foot Straight Length, Continuous Busway Access, Painted RAL 3005

# 40-50-60 AMP SYSTEMS

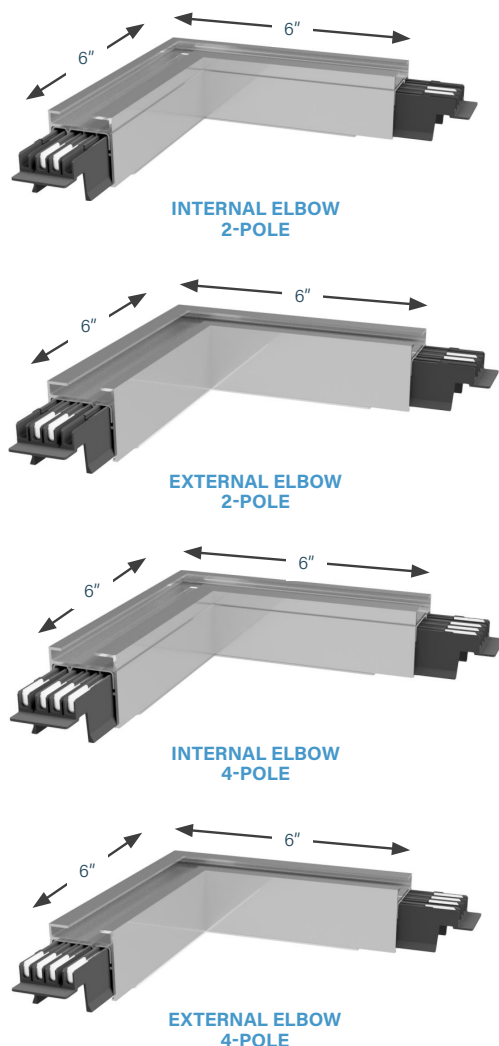
## ELBOW SECTIONS

### ■ PRODUCT DESCRIPTION

Factory pre-assembled elbow sections are used for making a 90-degree turn. Elbows are connected to busway sections electrically by means of built-in bus connectors. Connectors are installed by “snapping” into position with housing section butted together. Connectors are polarized to prevent phase mismatch. Housings are then mechanically joined via couplers (found in Accessories section).

Dimensions below are 6 inches from center to center, not end to end.

**Weight** .5 lbs



#### \*Elbows are offered with various 'Turning Direction' options:

Internal (IN)  
External (EX)

\*see below

Non-Populated (NP)

\*contains bus connectors but with no copper running through

Internal-Housing Only (IH)

External-Housing Only (EH)

\*contains no bus connectors or copper running through

Internal-Feed (IF)

External-Feed (EF)

\*comes with a hole in the top to feed wiring



# 40-50-60 AMP SYSTEMS

## ELBOW SECTIONS: PRODUCT NUMBERS

<b>U</b>	<b>E</b>	<b>040</b>	<b>T1</b>	<b>C</b>	<b>4</b>	<b>S</b>	<b>-</b>	<b>IN</b>
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/Ground Busbar	7. Polarization	8. Turning Direction	
								<b>- STD0</b>
								9. Paint Color

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>8. Turning Direction</b> <i>(direction of section polarizing stripe)</i> <b>IN</b> Internal <b>NP</b> Non-Populated <b>EH</b> External-Housing Only <b>EF</b> External-Feed <b>EX</b> External <b>IH</b> Internal-Housing Only <b>IF</b> Internal-Feed
<b>2. Product Type</b> <i>(section component)</i> <b>E</b> Elbow Section	<b>9. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD0</b> Factory Mill Finish <b>BLK0</b> Paint Factory Black <b>WHT0</b> Paint Factory White <b>RED0</b> Paint Factory Red <b>BLU0</b> Paint Factory Blue <b>**RAL</b> <i>(please see page 1.23)</i>
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>040</b> 40 amps <b>060</b> 60 amps <b>050</b> 50 amps	
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T1</b> T1 System <b>R1</b> T1 System (Recessed Housing)	
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper	
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral <b>2</b> 1 Phase plus Neutral	
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard	

### EXAMPLES

**UE060R1C4S-IN-BLK0** = US System, Elbow Section, 60 amps, T1 System-R1 Recessed Housing, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Painted Factory Black

**UE050T1C2S-EH-STD0** = US System, Elbow Section, 50 amps, T1 System, Copper Conductor, 1 Phase plus Neutral, Standard Polarization, External Turning Direction Housing Only, Factory Mill Finish

# 40-50-60 AMP SYSTEMS

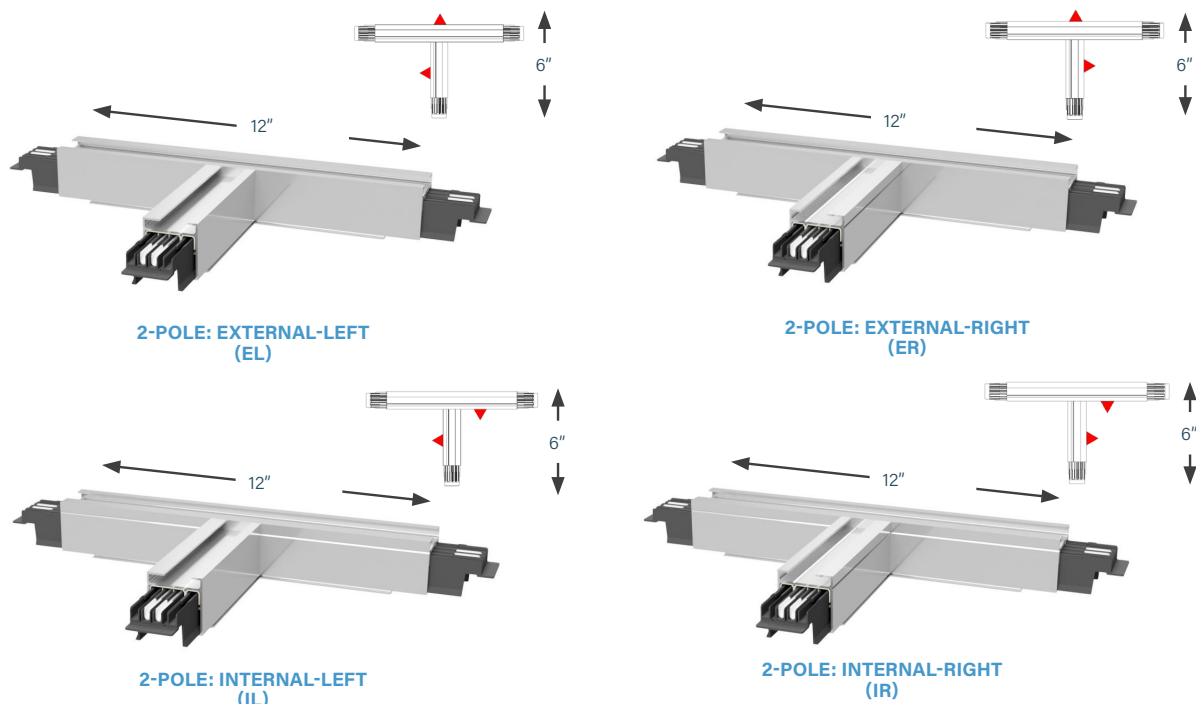
## TEE SECTIONS

### PRODUCT DESCRIPTION

Similar to elbow connectors, tee connectors are used for connecting branch housing sections at 90 degrees to the main run. Please be aware of polarization issues before making your final selection (refer to **page 1.3 Polarity Tips**).

Tees are electrically connected to sections of 40/50/60 amp busway by means of built-in bus connectors. Connectors are installed by "snapping" into position with housing section butted together. Connectors are polarized to prevent phase mismatch. Housings are then mechanically joined via couplers, ordered separately.

**Weight** 1 lb



**\*Tees are offered with various 'Turning Direction' options:**

Internal-Left (IL)  
 Internal-Right (IR)  
 External-Left (EL)  
 External-Right (ER)

\*see below

Non-Populated (NP)

\*contains bus connectors but with no copper running through

▲ = Polarizing Stripe

## TEE SECTIONS: PRODUCT NUMBERS



<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US		<b>8. Turning Direction</b> <i>(direction of section polarizing stripe)</i> <b>IL</b> Internal-Left <b>EL</b> External-Left <b>IR</b> Internal-Right <b>ER</b> External-Right <b>NP</b> Non-Populated	
<b>2. Product Type</b> <i>(section component)</i> <b>T</b> Tee Section		<b>9. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD0</b> Factory Mill Finish <b>REDO</b> Paint Factory Red <b>BLK0</b> Paint Factory Black <b>BLU0</b> Paint Factory Blue <b>WHT0</b> Paint Factory White <b>**RAL</b> <i>(please see page 1.23)</i>	
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>040</b> 40 amps <b>050</b> 50 amps <b>060</b> 60 amps			
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T1</b> T1 System <b>R1</b> T1 System (Recessed Housing)			
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper			
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral <b>2</b> 1 Phase plus Neutral			
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard			

UT040R1C2S-EL-STD0 = US System, Tee Section, 40 amps, T1 System-R1 Recessed Housing, Copper Conductor, 1 Phase plus Neutral, Standard Polarization, External-Left Turing Direction, Factory Mill Finish

# 40-50-60 AMP SYSTEMS

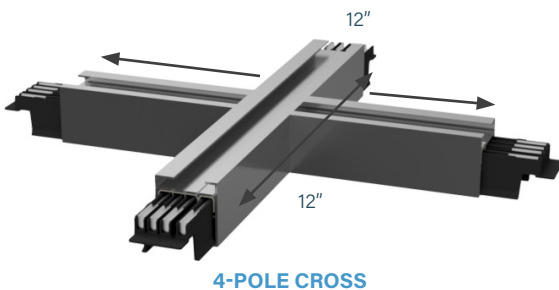
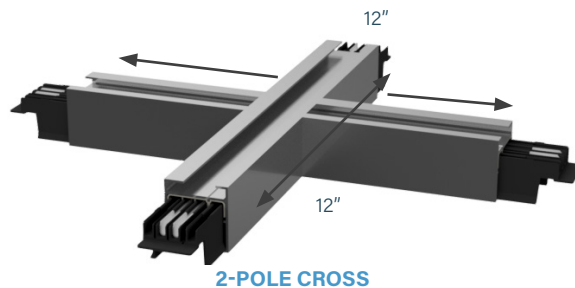
## CROSS SECTIONS

### ■ PRODUCT DESCRIPTION

Similar to tee connectors, crosses are typically used for grid designs. Please be aware of polarization issues before making your final selection (refer to **page 1.3 Polarity Tips**).

Crosses are electrically connected to sections of 40/50/60 amp busway by means of built-in bus connectors. Connectors are installed by "snapping" into position with housing section butted together. Connectors are polarized to prevent phase mismatch. Housings are then mechanically joined via couplers, ordered separately.

**Weight** 1.5 lbs



**\*Crosses are offered with various 'Turning Direction' options:**

Standard (ST)

\*see below

Internal (IN)

External (EX)

Internal-Left (IL)

Internal-Right (IR)

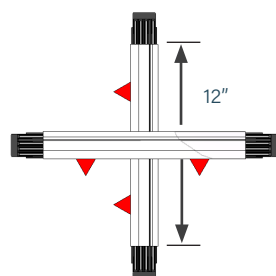
External-Left (EL)

External-Right (ER)

\*For structural configuration, empty legs of the cross may be ordered. Please consult your applications engineer.

Non-Populated (NP)

\*contains bus connectors but with no copper running through



Standard  
(ST)

▲ = Polarizing Stripe



# 40-50-60 AMP SYSTEMS

## CROSS SECTIONS: PRODUCT NUMBERS

<b>U</b>	<b>X</b>	<b>040</b>	<b>T1</b>	<b>C</b>	<b>4</b>	<b>S</b>	<b>-</b>	<b>ST</b>
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction

**- STD0**

9. Paint Color

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>8. Turning Direction</b> <i>(direction of section polarizing stripe)</i> <b>ST</b> Standard <b>IL</b> Internal-Left <b>EL</b> External-Left <b>NP</b> Non-Populated <b>IR</b> Internal-Right <b>ER</b> External-Right
<b>2. Product Type</b> <i>(section component)</i> <b>X</b> Cross Section	<b>9. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD0</b> Factory Mill Finish <b>BLK0</b> Paint Factory Black <b>WHT0</b> Paint Factory White <b>RED0</b> Paint Factory Red <b>BLU0</b> Paint Factory Blue <b>**RAL</b> <i>(please see page 1.23)</i>
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>040</b> 40 amps <b>060</b> 60 amps <b>050</b> 50 amps	
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T1</b> T1 System <b>R1</b> T1 System (Recessed Housing)	
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper	
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral <b>2</b> 1 Phase plus Neutral	
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard	

### EXAMPLES

**UX050T1C4S-NP-RED0** = US System, Cross Section, 50 amps, T1 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Non-Populated Turning Direction, Painted Factory Red

**UX060R1C2S-IL-STD0** = US System, Cross Section, 60 amps, T1 System-R1 Recessed Housing, Copper Conductor, 1 Phase plus Neutral, Standard Polarization, Internal-Left Turning Direction, Factory Mill Finish

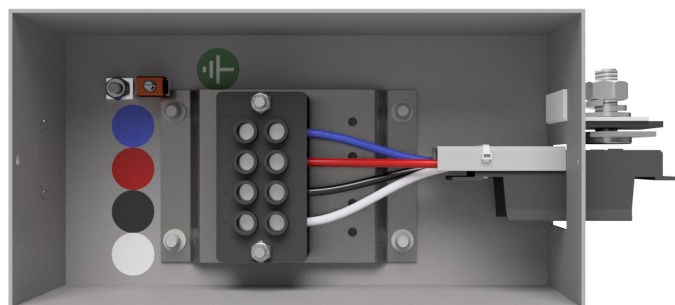
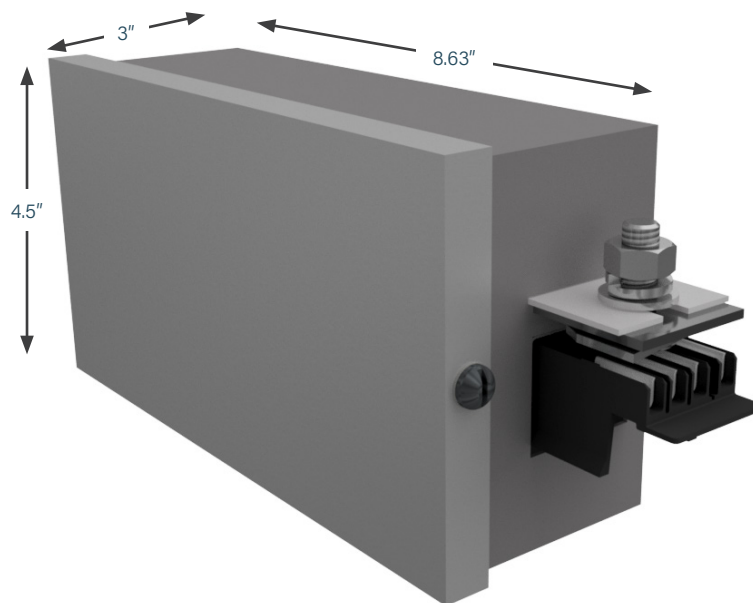
## 40-50-60 AMP SYSTEMS

### END FEED UNITS

#### ■ PRODUCT DESCRIPTION

An end feed unit consists of a steel junction box with a removable side, a connector to insert into the busway run and terminal block for field connections. The unit is bolted to the first busway section.

**Weight** 3.3 lbs



INTERNAL VIEW

# 40-50-60 AMP SYSTEMS

## END FEED UNITS: PRODUCT NUMBERS

U	F	040	T1	C	4	S	-	S	R	S	N
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/Ground Busbar	7. Polarization	8. Lug/Box Options	9. Lid Orientation	10. Accessories Package	11. Accessories Location	

LL	-	STD0	*Optional
*12. System		13. Paint Color	

<b>1. System</b> (standard of measure) <b>U</b> US	<b>9. Lid Orientation</b> (from the terminal, side with removable lid) <b>R</b> Right
<b>2. Product Type</b> (section component) <b>F</b> End Feed	<b>10. Accessories Package</b> (optional accessories for feed units) <b>S</b> Standard
<b>3. Product Frame</b> (maximum amperage) <b>040</b> 40 amps <b>050</b> 50 amps <b>060</b> 60 amps	<b>11. Accessories Location</b> (from the terminal, side with accessory) <b>N</b> None (N/A)
<b>4. Compatibility</b> (frame compatibility) <b>T1</b> T1 System <b>R1</b> T1 System (Recessed Housing)	<b>*12. System</b> (line to line or line to neutral system) <b>LL</b> Line to Line <b>LN</b> Line to Neutral <i>*LL &amp; LN specification required only when ordering a 2-pole system (reference option 6 Neutral/Ground Busbar)</i>
<b>5. Material</b> (busbar material) <b>C</b> Copper	<b>13. Paint Color</b> (allows painting of the busway housing) <b>STD0</b> Factory Mill Finish <b>RED0</b> Paint Factory Red <b>BLK0</b> Paint Factory Black <b>BLU0</b> Paint Factory Blue <b>WHT0</b> Paint Factory White <b>**RAL</b> (please see page 1.23)
<b>6. Neutral/Ground Busbar</b> (size of neutral busbar and/or ground) <b>4</b> 3 Phase plus Neutral <b>2</b> 1 Phase plus Neutral	
<b>7. Polarization</b> (orientation of section for mating purposes) <b>S</b> Standard <b>R</b> Reversed	
<b>8. Lug/Box Options</b> (standard/double/bolt lugs and box size) <b>S</b> Standard lugs, Standard box	

### EXAMPLE

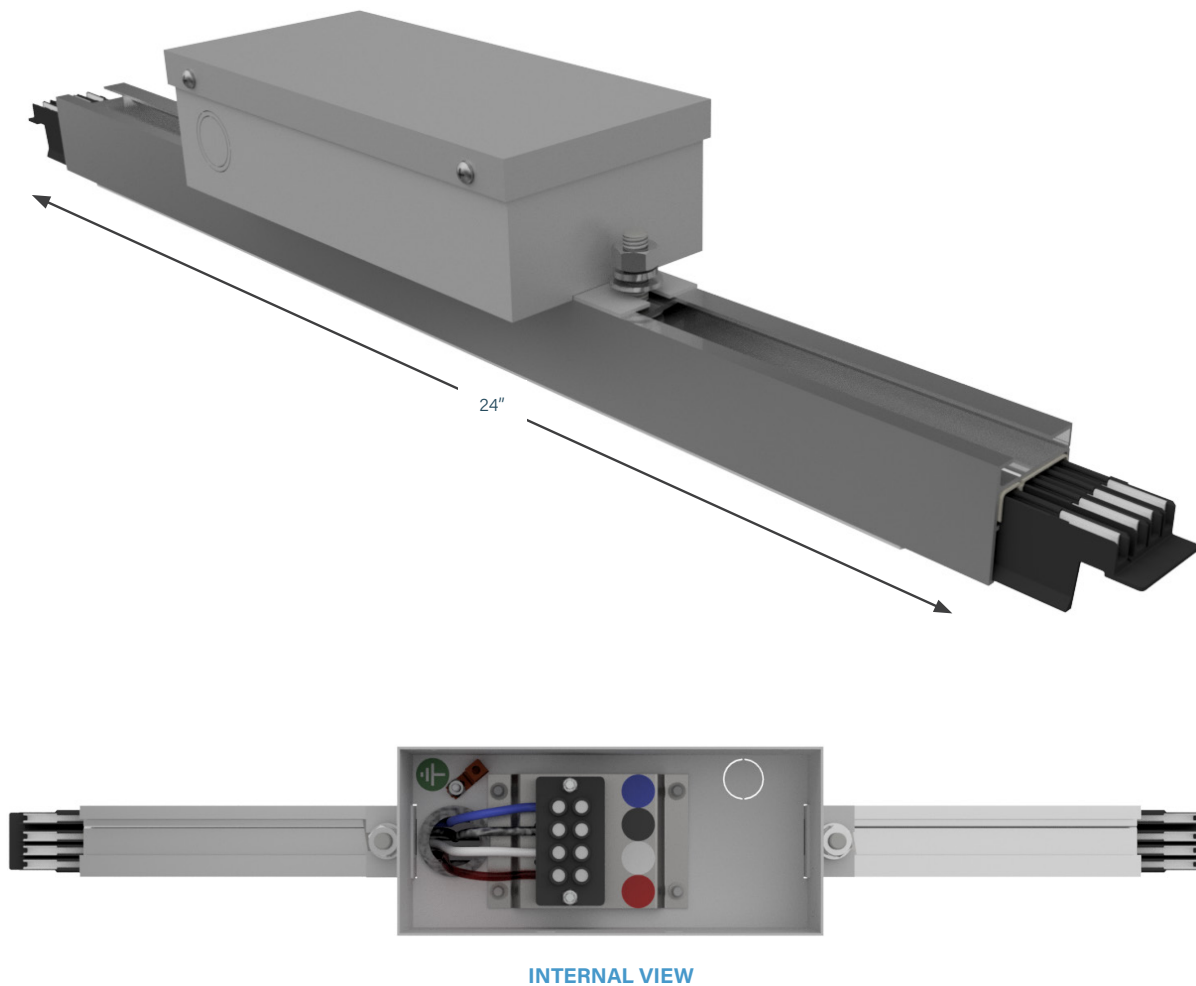
**UF040T1C4R-SRSN-BLU0** = US System, End Feed, 40 amps, T1 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, Right lid Orientation, Standard Accessory Package, No Accessories Location, Painted Factory Blue

# 40-50-60 AMP SYSTEMS

## ABOVE FEED UNITS

### ■ PRODUCT DESCRIPTION

**Weight** 5 lbs





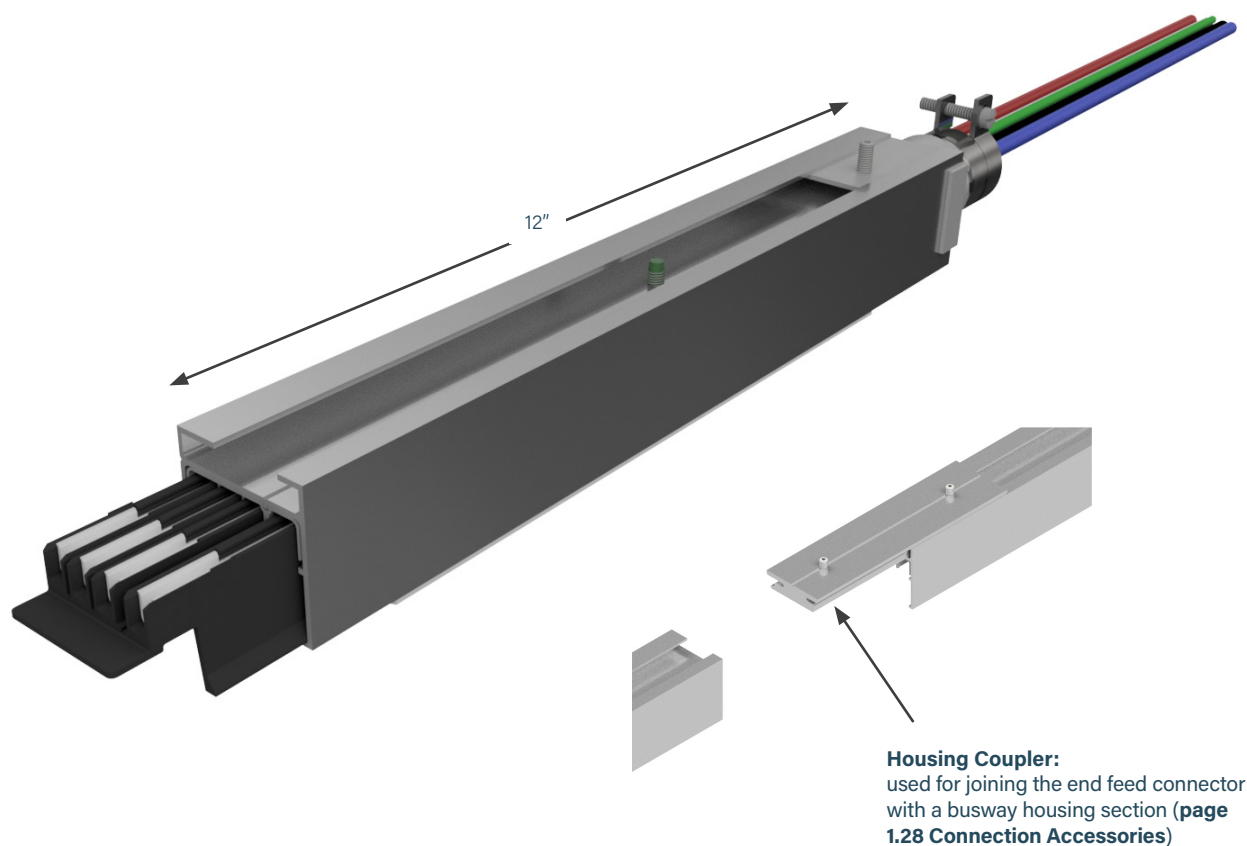
## 40-50-60 AMP SYSTEMS

### END FEED CONNECTOR UNITS

#### ■ PRODUCT DESCRIPTION

An end feed connector provides an inconspicuous way to connect to power. It consists of a 1 foot section of busway with connector mounted inside and wire lead exiting through the end cap. A 1 inch conduit mounting adapter is included. A housing coupler (ordered separately) is used to connect to the busway section.

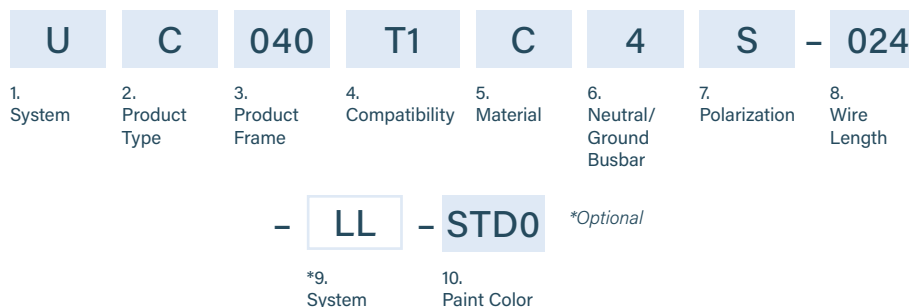
**Weight** 2 lbs





# 40-50-60 AMP SYSTEMS

## END FEED CONNECTOR UNITS: PRODUCT NUMBERS



<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>8. Wire Length</b> <i>(total length of wire in inches)</i> <b>024</b> 24 inches <b>048</b> 48 inches <b>072</b> 72 inches <b>096</b> 96 inches
<b>2. Product Type</b> <i>(section component)</i> <b>C</b> End Feed Connector	<b>*9. System</b> <i>(line to line or line to neutral system)</i> <b>LL</b> Line to Line <b>LN</b> Line to Neutral <i>*LL &amp; LN specification required only when ordering a 2-pole system (reference option 6 Neutral/Ground Busbar)</i>
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>040</b> 40 amps <b>050</b> 50 amps <b>060</b> 60 amps	<b>10. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD0</b> Factory Mill Finish <b>RED0</b> Paint Factory Red <b>BLK0</b> Paint Factory Black <b>BLU0</b> Paint Factory Blue <b>WHT0</b> Paint Factory White <b>**RAL</b> <i>(please see page 1.23)</i>
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T1</b> T1 System <b>R1</b> T1 System (Recessed Housing)	
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper	
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral <b>2</b> 1 Phase plus Neutral	
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard <b>R</b> Reversed	

### EXAMPLES

**UC050T1C2R-048-LN-RED0** = US System, End Feed Connector, 50 amps, T1 System, Copper Conductor, 1 Phase plus Neutral, Reversed Polarization, 48 inch Wire Length, Line to Neutral System, Painted Factory Red

**UC060R1C4S-072-STD0** = US System, End Feed Connector, 60 amps, T1 System-R1 Recessed Housing, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 72 inch Wire Length, Factory Mill Finish

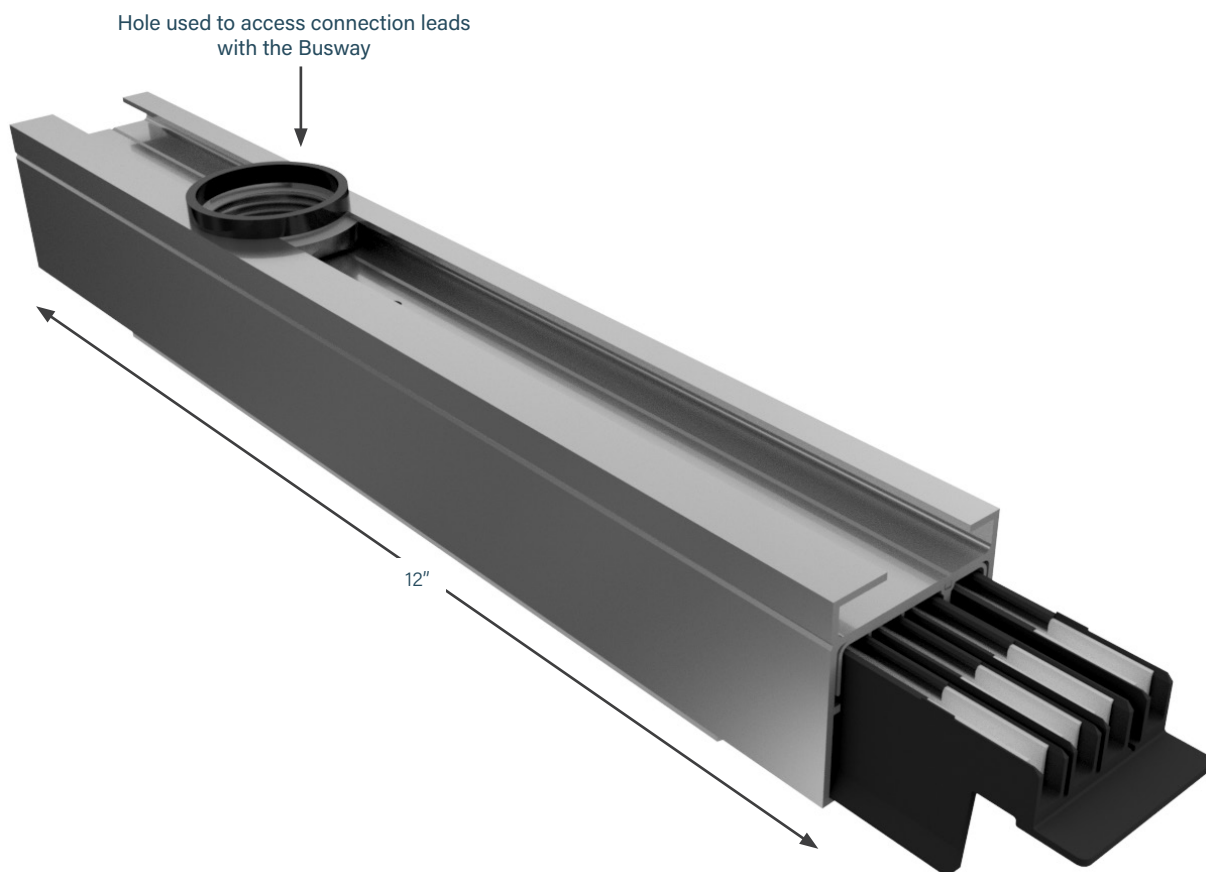
# 40-50-60 AMP SYSTEMS

## PENDANT FEED UNITS

### ■ PRODUCT DESCRIPTION

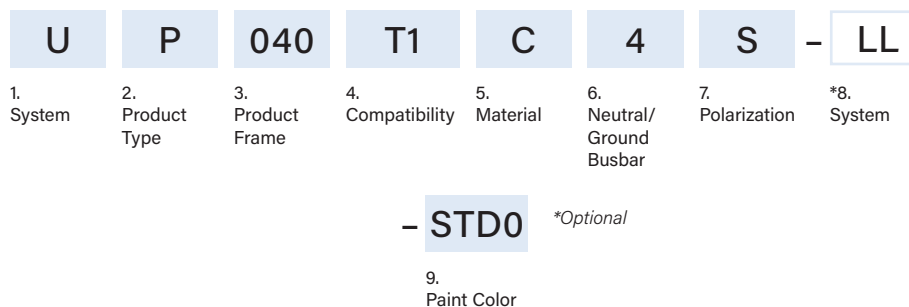
A Pendant Feed consists of a 1 foot busway section with a 1 inch conduit size access hole for access to connection leads inside the busway. A 1 inch conduit mounting adapter is included.

**Weight** 2 lbs



# 40-50-60 AMP SYSTEMS

## PENDANT FEED UNITS: PRODUCT NUMBERS



<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>*8. System</b> <i>(line to line or line to neutral system)</i> <b>LL</b> Line to Line <b>LN</b> Line to Neutral <i>*LL &amp; LN specification required only when ordering a 2-pole system (reference option 6 Neutral/Ground Busbar)</i>
<b>2. Product Type</b> <i>(section component)</i> <b>P</b> Pendant Feed	
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>040</b> 40 amps <b>050</b> 50 amps <b>060</b> 60 amps	<b>9. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD0</b> Factory Mill Finish <b>RED0</b> Paint Factory Red <b>BLK0</b> Paint Factory Black <b>BLU0</b> Paint Factory Blue <b>WHT0</b> Paint Factory White <b>**RAL</b> <i>(please see page 1.23)</i>
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T1</b> T1 System <b>R1</b> T1 System (Recessed Housing)	
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper	
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral <b>2</b> 1 Phase plus Neutral	
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard <b>R</b> Reversed	

### EXAMPLES

**UP040R1C2R-LL-PH50** = US System, Pendant Feed, 40 amps, T1 System-R1 Recessed Housing, Copper Conductor, 1 Phase plus Neutral, Reversed Polarization, Line to Line System, Painted RAL 5015

**UP060T1C4S-STD0** = US System, Pendant Feed, 60 amps, T1 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Factory Mill Finish

# T1 SERIES

## RAL COLORS

1ST CHARACTER	
<b>P</b>	Paint

2ND CHARACTER	
<b>0</b>	100
<b>1</b>	101
<b>2</b>	102
<b>3</b>	103
<b>4</b>	200
<b>5</b>	201
<b>A</b>	300
<b>B</b>	301
<b>C</b>	302
<b>D</b>	303
<b>E</b>	400
<b>F</b>	401
<b>G</b>	500
<b>H</b>	501
<b>J</b>	502
<b>K</b>	600
<b>L</b>	601
<b>M</b>	602
<b>N</b>	603
<b>P</b>	700
<b>Q</b>	701
<b>R</b>	702
<b>S</b>	703
<b>T</b>	704
<b>U</b>	800
<b>V</b>	801
<b>W</b>	802
<b>X</b>	900
<b>Y</b>	901
<b>Z</b>	902

3RD CHARACTER	
<b>0</b>	0
<b>1</b>	1
<b>2</b>	2
<b>3</b>	3
<b>4</b>	4
<b>5</b>	5
<b>6</b>	6
<b>7</b>	7
<b>8</b>	8
<b>9</b>	9

4TH CHARACTER	
<b>0</b>	0

### EXAMPLE:

P B 2 0 = Paint RAL 3012

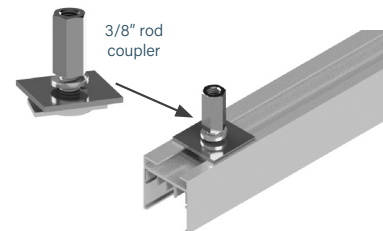
# T1 SERIES

## ACCESSORIES: SUPPORT HARDWARE

### ■ THREADED ROD

For mounting to 3/8 - 16 threaded rod. Can be inserted anywhere along the top full-access slot of busway. Hanger support is required every 10 feet maximum.

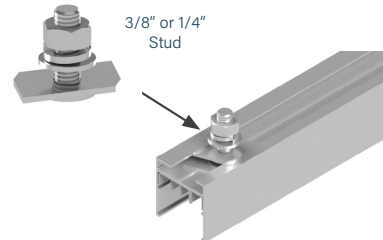
*Part Number*  
**URHB-3**  
*Available in plain zinc*  
*or black (-BLK)*  
*Weight*  
 .3 lb



### ■ STANDARD

For mounting to strut or other flat surfaces. Twist-in design allows inserting anywhere along the top full-access slot on the busway. Hanger support is required every 10 feet maximum.

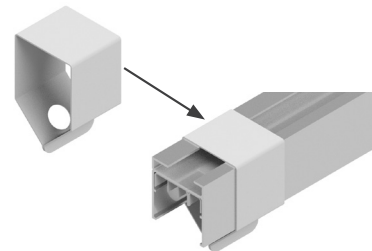
*Part Number*  
**UTHB-3 (3/8")**  
**UTHB-1/4 (1/4")**  
*Available in plain zinc*  
*or black (-BLK)*  
*Weight*  
 .2 lb



### ■ WEIGHT HOOK ADAPTER

Can be used as a hanger to suspend the busway from chains or cables. Can also be used to hang loads of up to 50 pounds under the busway, such as light fixtures, tools and balancers.

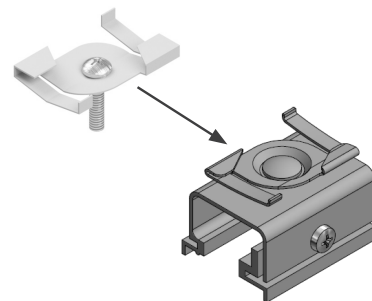
*Part Number*  
**UWHRT1**  
*Available in plain zinc*  
*or black (-BLK)*  
*Weight*  
 .2 lb



### ■ T-BAR SUSPENDED CEILING

For mounting to an inverted T-bar. The clip locks onto T-bar and the busway is connected to the stud on the clip. T-bar is mounted with surface clip. Maximum spacing is 5 feet.

*Part Number*  
**UTHB-5**  
*Available in plain zinc*  
*Weight*  
 .1 lb



# T1 SERIES

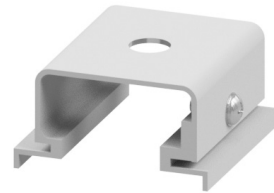
## ACCESSORIES: SUPPORT HARDWARE

### ■ SURFACE MOUNT

For mounting to a surface. Comes with a 7/32 inch hole.

For rod mounting, this comes with a 7/16 inch hole.

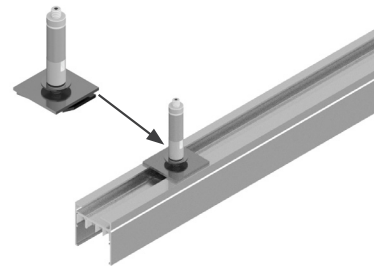
*Part Number*  
*UMCT1-S (surface)*  
*Available in all standard*  
*and RAL colors*  
*UMCT1-R (rod)*  
*No available colors*



### ■ CABLE

For mounting to a 1/16 inch or 3/32 inch aircraft cable with easy grip clamp assembly. Cable is not included. Hanger support is every 10 feet maximum.

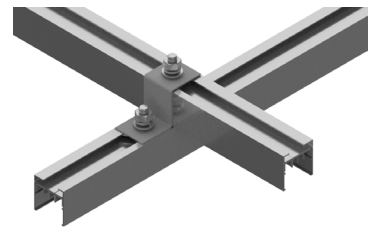
*Part Number*  
*UACH-1 (1/16" cable)*  
*UACH-2 (3/32" cable)*  
*Available in plain zinc*  
*Weight*  
*.2 lb*



### ■ CROSSOVER BRACKET

Two plane (over-under): the most economical method for providing single, two or three phase power in both directions. Use simple straight runs with power feeds from either end.

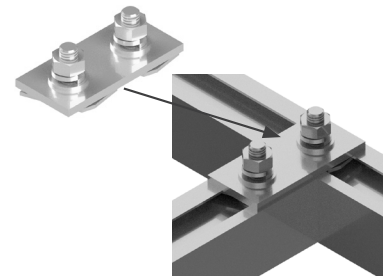
*Part Number*  
*UGBT1-OU2*  
*Available in plain zinc*  
*or black (-BLK)*  
*\*4 required*



### ■ TWO-HOLE GRID BRACKET

Used to make the mechanical connection between two perpendicular pieces of T1 housing.

*Part Number*  
*UGBT1-SP2*  
*Available in plain zinc*  
*or black (-BLK)*





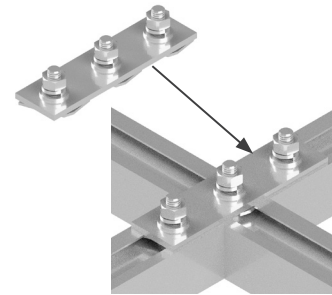
# T1 SERIES

## ACCESSORIES: SUPPORT HARDWARE

### ■ THREE-HOLE GRID BRACKET

Used to make the mechanical connection between three, intersecting pieces of T1 housing.

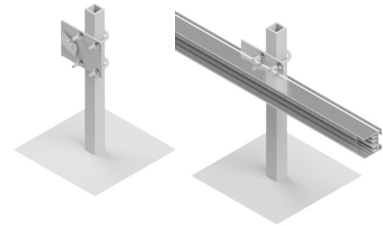
*Part Number*  
*UGBT1-SP3*  
*Available in plain zinc*  
*or black (-BLK)*



### ■ RAISED MOUNTING BRACKET

For mounting the busway horizontally (with access slot facing to the side) for under floor applications.

*Part Number*  
*URFBT1*  
*Available in plain zinc*  
*or black (-BLK)*



# T1 SERIES

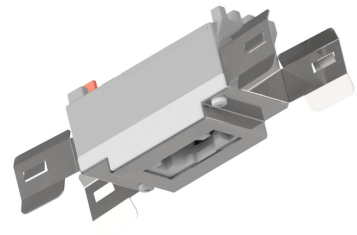
## ACCESSORIES: CONNECTOR AND ADAPTERS

### ■ MONOPOINT ADAPTER

The monopoint track lighting adapter is compatible with a variety of Juno style track lighting fixtures, providing a direct connection to T1 Busway.

Weight  
0.5 lbs

*Part Number*  
*UMPT1-1*  
*(J-Style)*



### ■ IP50 CONNECTOR

The IP50 connector can be hardwired into lighting fixtures other small loads to connect directly into T1 Busway.

\*Additional fuse amperage available.  
Please consult factory.

Weight  
0.5 lbs

*Part Number*  
*IP50-30-4*



# T1 SERIES

## ACCESSORIES: CONNECTION HARDWARE

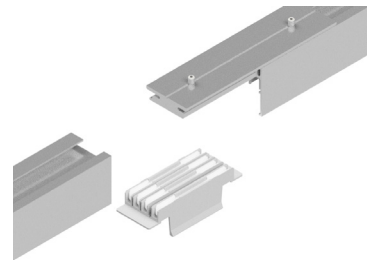
### JOINT KIT

For the connection of adjacent busway sections. Each kit is comprised of an in-line connector and housing coupler.

**In-Line Connector:** sections of busway are joined electrically by means of an in-line connector.

**Housing Coupler:** sections of busway are joined mechanically by means of a housing coupler. One is required per connection point.

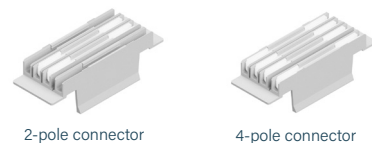
*Part Number*  
*UJKT1-2 (for 2-pole systems)*  
*UJKT1-4 (for 4-pole systems)*  
*Available in all standard and RAL colors*



### IN-LINE CONNECTOR

The connector is installed by 'snapping' into position with housing sections butted together. All in-line bus connectors are polarized to prevent phase mismatch.

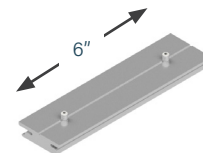
*Part Number*  
*UBCT1-2 (for 2-pole systems)*  
*UBCT1-4 (for 4-pole systems)*



### HOUSING COUPLER

Housing couplers make the mechanical connection between sections of busway.

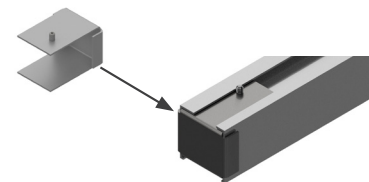
*Part Number*  
*UHCT1*  
*Available in all standard and RAL colors*



### END CAP

Used for insulating the female end of the busway.

*Part Number*  
*UECT1*  
*Available in standard & RAL colors*  
*UECR1*  
*is required for recessed housing*  
*Weight: .2 lb*



### OPTIONAL CLOSURE STRIP

Made of rigid PVC, the closure strip is used to close the continuous access slot of the busway. It may be used for aesthetic purposes, for keeping dust and dirt from entering the busway or as an added safety measure. It is easily cut to length in the field to be installed around plug-in units.

*Part Number*  
*UCST1*  
*Available in standard colors*



# T1 SERIES

## SERVICES

Regular servicing of busway systems is crucial for ensuring that your system performs at its best. By conducting regular maintenance, you can identify and address any potential issues before they turn into expensive problems, thus saving you time and money in the long run. Regular servicing can help extend the lifespan of your busway system, ensuring that it meets safety standards and complies with regulations. Choose from various offerings and customize a service plan that works best for you.

### **WE ARE CURRENTLY OFFERING THE FOLLOWING SERVICES:**

#### **COMMISSIONING AND EQUIPMENT RENTALS**

Designing a mission-critical facility involves a significant investment of time and money. Through comprehensive commissioning services, Starline can help guarantee your project delivers the outcomes you expect.

Whether you need rental equipment to test your busway system or certified technicians to perform the testing, Starline has you covered. Choose from our inventory of load bank tap-offs and associated gear, or work with a Starline Engineer to customize and perform a commissioning plan to fit your specific needs.

#### **METER SERVICES**

Starline's certified technicians make optimizing your meters' performance and functionality a breeze. Our comprehensive on-site meter programming service includes inspecting, programming, reporting, and optional retrofitting services for you existing systems.

#### **STARTUP AND SYSTEM CERTIFICATION**

At Starline, we are committed to ensuring the success of your project. Our team understands the risks associated with the energization of systems, which is why we've designed a rigorous certification process to inspect, test and report on your Starline Busway and Critical Power Monitor ("CPM") products. Our certification process proactively identifies and prevents any potential issues before they happen.

To ensure the long-term success of your project, it is crucial to have Starline-certified technicians inspect and validate the installation before full commissioning. Level 2 and 3 commissioning ensures the installation complies with safety requirements and meets factory standards for ongoing reliability.

- Double the length of the standard factory warranty
- Ensure all joint and feed connections are properly installed with continuity testing
- Ensure proper installation of all plug-in units
- Validate that system will perform to your specified requirements
- Full certification report delivered electronically at conclusion of service

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at [downloads.starlinepower.com/services](https://downloads.starlinepower.com/services).

# T1 SERIES

## SERVICES

### TURNKEY INSTALLATION SERVICES

Our trained and factory certified Busbar installers are looking forward to completing your next job. You can order your best-in-class power distribution system and leave the rest to us. Our technicians will complete your installation quickly and safely and will reduce your overall TCO by extending your product warranty.

### PREVENTATIVE MAINTENANCE PLANS AND IR SCANNING

Although Starline busway is expertly designed to require less maintenance, NETA ATS and MTS guidelines recommend conducting annual inspections and health assessments on all critical equipment. Yearly preventative maintenance helps to ensure your system's long-term reliability and safety.

Starline's FLIR-certified technicians will create a custom preventative maintenance plan for your specific needs. Our certified technicians will work to:

- Identify thermal anomalies
- Extend equipment lifecycle
- Ensure optimal system performance
- Improve facility safety and operational sustainability

Upon completing your preventative maintenance plan, you may be eligible to extend your product warranty.

### ON-SITE INSTALLATION SUPPORT

Starline's on-site installation service makes installing your busway as quick and easy as possible.

Our installation support starts with scheduling a preliminary trip to the installation site. During the initial visit, our certified technicians will train your installing contractor and develop a thorough installation and commissioning plan.

After completing the training, your installing contractor will have a direct line of communication with our installation experts. Our experts can help answer questions and provide hands-on guidance when needed.

Opting for Starline's installation support helps mitigate the installation risk and reduces the learning curve typically associated with new installations.

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at [downloads.starlinepower.com/services](https://downloads.starlinepower.com/services).

# T1 SERIES

## SERVICES

### ON-SITE PRODUCT TRAINING

At Starline, we offer comprehensive on-site product training services facilitated by our team of certified technicians. With their extensive expertise and commitment to upholding our high factory standards, you can confidently rely on them to ensure your and your systems' reliability and operational safety.

Our training programs equip your team with the knowledge and skills necessary to operate and maintain your systems effectively. Through hands-on demonstrations and interactive sessions, our certified technicians will guide your staff in understanding the intricate workings of the products and address any questions or concerns your team may have during the training process.

By choosing our on-site product training services, you are investing in your system's and operations' long-term success

### RECERTIFICATION AND EXTENDED WARRANTY PLANS

Starline's recertification and extended warranty options provide best-in-class coverage for all of your Starline products and systems. Our extended warranty plans safeguard your investment beyond the standard warranty timeframe, offering you peace-of-mind while our recertification programs help mitigate risk and downtime. Whether the busway has been installed for years or you are relocating to another building, Starline is here to help.

Choose from one of our flexible one to four-year plans or have your system recertified anytime. Contact your Starline rep for more information.

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at [downloads.starlinepower.com/services](https://downloads.starlinepower.com/services).

# T2 SERIES

## SPECS & INTRODUCTION

### SPECS

This specification covers the electrical characteristics and general requirements for a track busway system, hereafter referred to as (Track Busway or busway). The system shall be designed primarily for overhead distribution of electrical power. Supporting designated work areas and equipment. Once installed the busway will provide a simple, versatile, fast and economic means of distributing power. Loads fed from a variety of plug-in units can be easily added or removed without shutting power down to the busway.

Track Busway shall be designed and manufactured to the following standards:

1. Underwriters Laboratories Standard, UL 857 — The common UL, CSA, and ANCE Standard for Busways that is derived from the fifth edition of CSA Standard C22.2 No. 27, the twelfth edition of UL 857, and the second edition of NMX-J-148-1998-ANCE.

\*All standards and certifications available upon request

### INTRODUCTION

Starline is the leader in electrical power distribution in the mission critical, commercial and light industrial industries with Starline Track Busway. This system was designed to meet the rugged specification of the UL857, Busway and Associated Fittings, with the flexible features of track lighting — and is available in systems with 40, 50 & 60 amps with isolated ground.

It is the simple, versatile, fast and economical solution for supplying power to electrical loads and is unique because the busway can be instantly tapped at any location, with a variety of plug-in units.

The Product Selection Guide was developed to help the design engineer understand and consider all of the options available with Starline Track Busway when designing a system.

This guide is all-inclusive; however, Starline excels at collaborating with design engineers to provide solutions for any application. If you have a need that is not found in this guide, please contact us at **1-800-245-6378** or email us at **info@starlinepower.com**. We will be happy to answer your questions over the telephone or schedule a visit with one of our local representatives.

Also, if viewing this guide in print, please keep in mind that this is a working document. Starline reserves the right to change information and descriptions of listed services and products. The latest version of this guide is available for download at [downloads.starlinepower.com](https://downloads.starlinepower.com).

# T2 SYSTEMS

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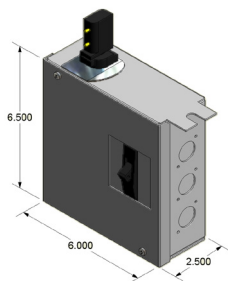
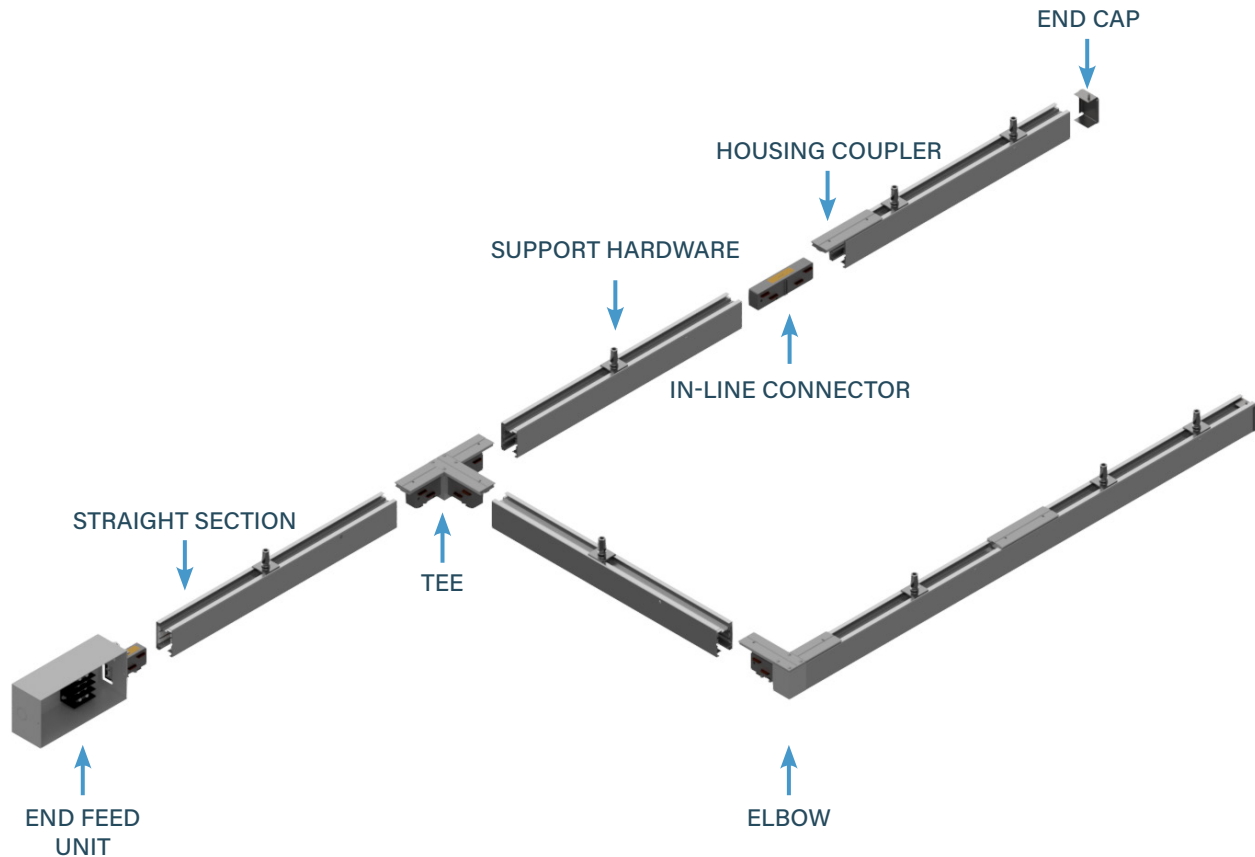
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# T2 SERIES

## SYSTEM LAYOUT DRAWING



### PLUG-IN UNITS

For further information on applicable T2 plug-in unit options, please consult the factory.

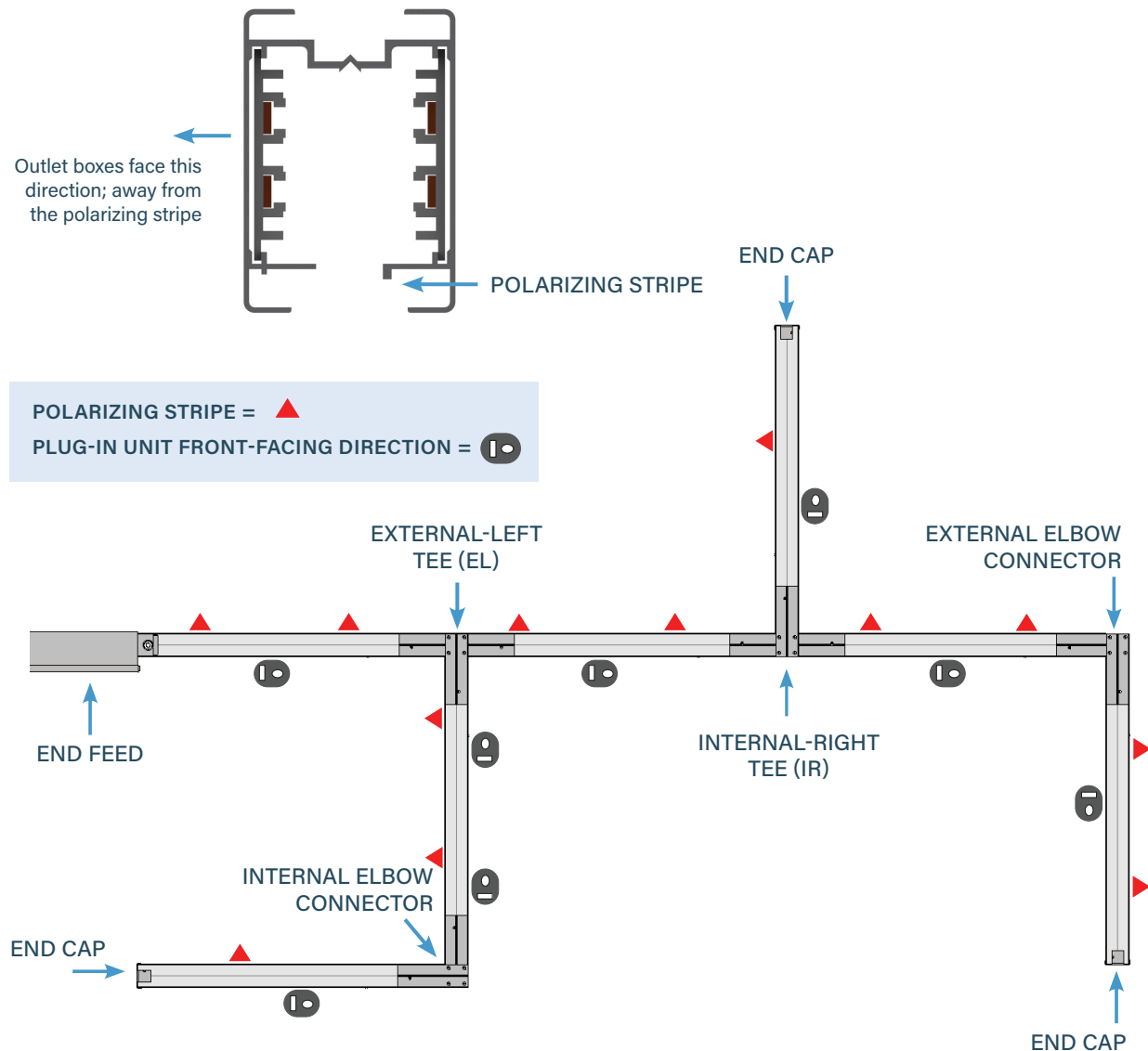
# T2 SERIES

## POLARITY TIPS

Starline utilizes a unique polarizing method to prevent mismatched components from being inadvertently connected to each other. The system is designed to prevent cross phasing during installation.

**It is particularly important to understand this design concept prior to ordering and/or installing some components.**

For example, if the face direction of a Starline plug-in unit is important in your installation consider that they will always face the conductor side.



# T2 SERIES

## SYSTEM LAYOUT TIPS

### POWER FEEDS

Determine location of power feeds based on relation to power source, existing feeders and voltage drop concerns for longer runs.

### SUPPORT HARDWARE

Support hardware is spaced no more than 10 feet apart. Refer to **page 2.43** for support hardware details. Contact your local Starline applications engineer for any questions.

### INSTALLATION

Printed installation drawings are supplied with each system shipment and they are also available for download online at [downloads.starlinepower.com](https://downloads.starlinepower.com). CAD files of these drawings are also available by contacting your local Starline applications engineer.

### BUSWAY HOUSING SECTIONS

Standard busway lengths are available in 20, 10 and 5-foot increments. Although the factory can cut individual Starline Track Busway sections to any length under 20 feet, it is highly recommended to keep all layout runs in increments of 5 feet to simplify layout and installation. Custom lengths can be made but can increase lead time and make layout and installation a bit more complex.

### BUSWAY TEES AND ELBOWS SECTIONS

Try to keep all runs as straight as possible as tees and elbows are added cost. Pay close attention to polarity on the elbows. The polarity will need to match the adjacent busway section(s) to be compatible.

LENGTH OF BUSWAY FOR A ONE VOLT DROP IN LINE TO LINE VOLTAGE:			
SYSTEM DESIGNATION	DISTRIBUTED LOAD	VOLTAGE DROP @ 0.8 PF SINGLE PHASE	VOLTAGE DROP @ 0.8 PF THREE PHASE
60T2 (standard)	60 amps	29 ft	51 ft
100T2 (standard)	100 amps	42 ft	72 ft

## T2 SERIES

### COMPONENT RELATIONSHIP TIPS

When ordering material, it is important to understand the relationship between various components.

#### EXAMPLES

- No need to add extra Joint Kits for Elbows, Tees, or Crosses, as they are already part of your housing count.
- If using an Above Feed, order a Joint Kit for each Feed.

#### GENERAL SUPPORT HARDWARE RULE TO FOLLOW:

10 feet maximum spacing between supports and we recommend 10% more than the required quantity to cover potential layout changes.

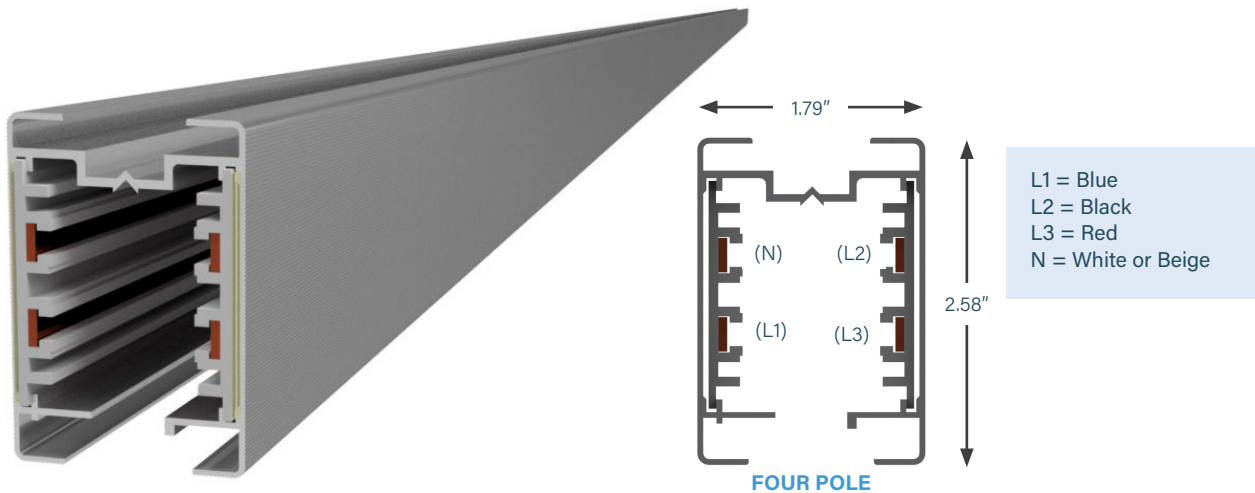
- Total Power Feeds and End Caps can be determined by counting the total number of unconnected runs.
- Before specifying or ordering elbow or tee connectors, it is important to understand polarity and the relationship to direction of outlets. Please refer to **page 2.3 Polarity Tips** for more detail.

# 60 AMP SYSTEMS

## STRAIGHT SECTIONS

### PRODUCT DESCRIPTION

Track Busway straight sections consist of an extruded aluminum shell with insulated copper conductor strips mounted on the two opposite interior side walls. The aluminum housing acts as a 100% ground path and each straight has an open access slot over its entire length for the insertion of turn-n-lock plug-in units. The housing configuration is 4 pole in a 480V design. Track Busway housing is connected together using in-line connectors and housing couplers (found under Accessories).



#### MATERIAL

Extruded Aluminum

#### RATINGS

100% Ground Path  
US: 60 Amp, 480 Volt

#### LENGTH

5 ft, 10 ft, 20 ft; or custom lengths between 2 - 20 ft

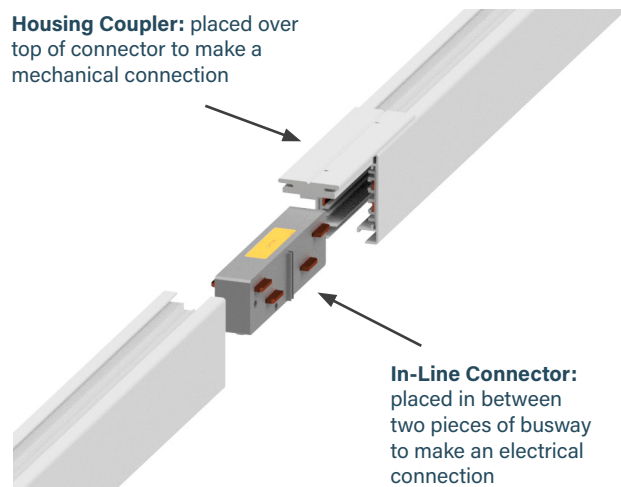
#### VOLTAGE DROP

Distributed load  
Single Phase 29 ft (.8PF)  
Three Phase 51 ft (.8PF)

#### WEIGHT

10 ft 4 pole: 12.5 lbs

**Housing Coupler:** placed over top of connector to make a mechanical connection



# 60 AMP SYSTEMS

## STRAIGHT SECTIONS: PRODUCT NUMBERS

<b>U</b>	<b>S</b>	<b>060</b>	<b>T2</b>	<b>C</b>	<b>4</b>	<b>S</b>	<b>-</b>	<b>0200</b>	<b>C</b>
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	8. Straight	9. Busway	
									<b>- STD0</b>
									10. Paint Color

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>9. Busway Access</b> <i>(how plugs access the busway)</i> <b>C</b> Continuous
<b>2. Product Type</b> <i>(section component)</i> <b>S</b> Straight Section	<b>10. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD0</b> Factory Mill Finish <b>RED0</b> Paint Factory Red <b>BLK0</b> Paint Factory Black <b>BLU0</b> Paint Factory Blue <b>WHT0</b> Paint Factory White <b>**RAL</b> (please see page 2.42)
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>060</b> 60 amps	
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T2</b> T2 System	
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper	
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral	
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard	
<b>8. Straight Length</b> <i>(length of section)</i> <b>XXYY</b> XX=feet, YY=inches	

### EXAMPLES

**US060T2C4S-1000C-STD0** = US System, Straight Section, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 10 foot Straight Length, Continuous Busway Access, Factory Mill Finish

**US060T2C4S-0500C-P010** = US System, Straight Section, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 5 foot Straight Length, Continuous Busway Access, Painted RAL 1001

# 60 AMP SYSTEMS

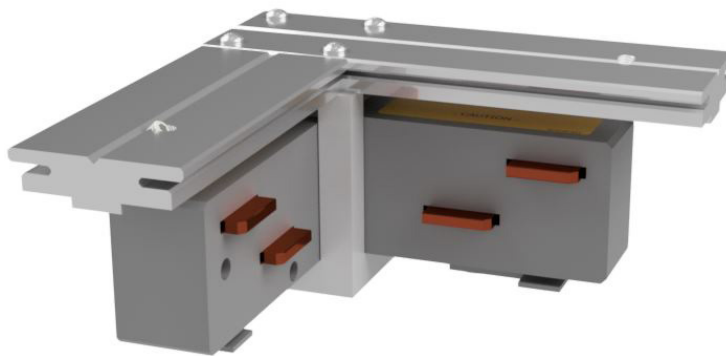
## ELBOW SECTIONS

### ■ PRODUCT DESCRIPTION

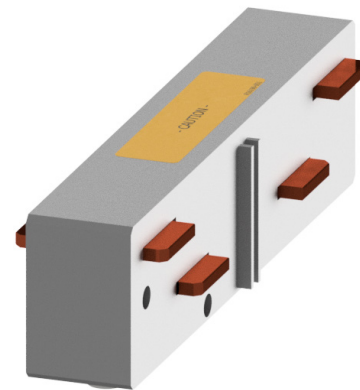
Elbow connectors are used for making a 90 degree turn in a 60 amp busway run. Please be aware of polarization issues before making your final selection (refer to **page 2.3 Polarity Tips**).

Elbows are electrically connected to sections of 60 amp busway by means of an in-line connector. The connector is installed by inserting in each end of the housing sections to be joined. Hex head compression screws are tightened to make a reliable connection. All in-line connectors are polarized to prevent phase mismatch.

**Weight** .5 lbs

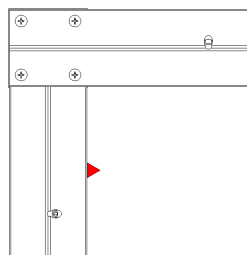


ELBOW CONNECTOR

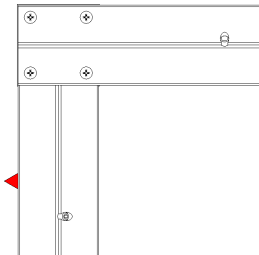


IN-LINE CONNECTOR

▲ = Polarizing Stripe



Internal Elbow



External Elbow

# 60 AMP SYSTEMS

## ELBOW SECTIONS: PRODUCT NUMBERS

U	E	060	T2	C	4	S	-	IN
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction



# 60 AMP SYSTEMS

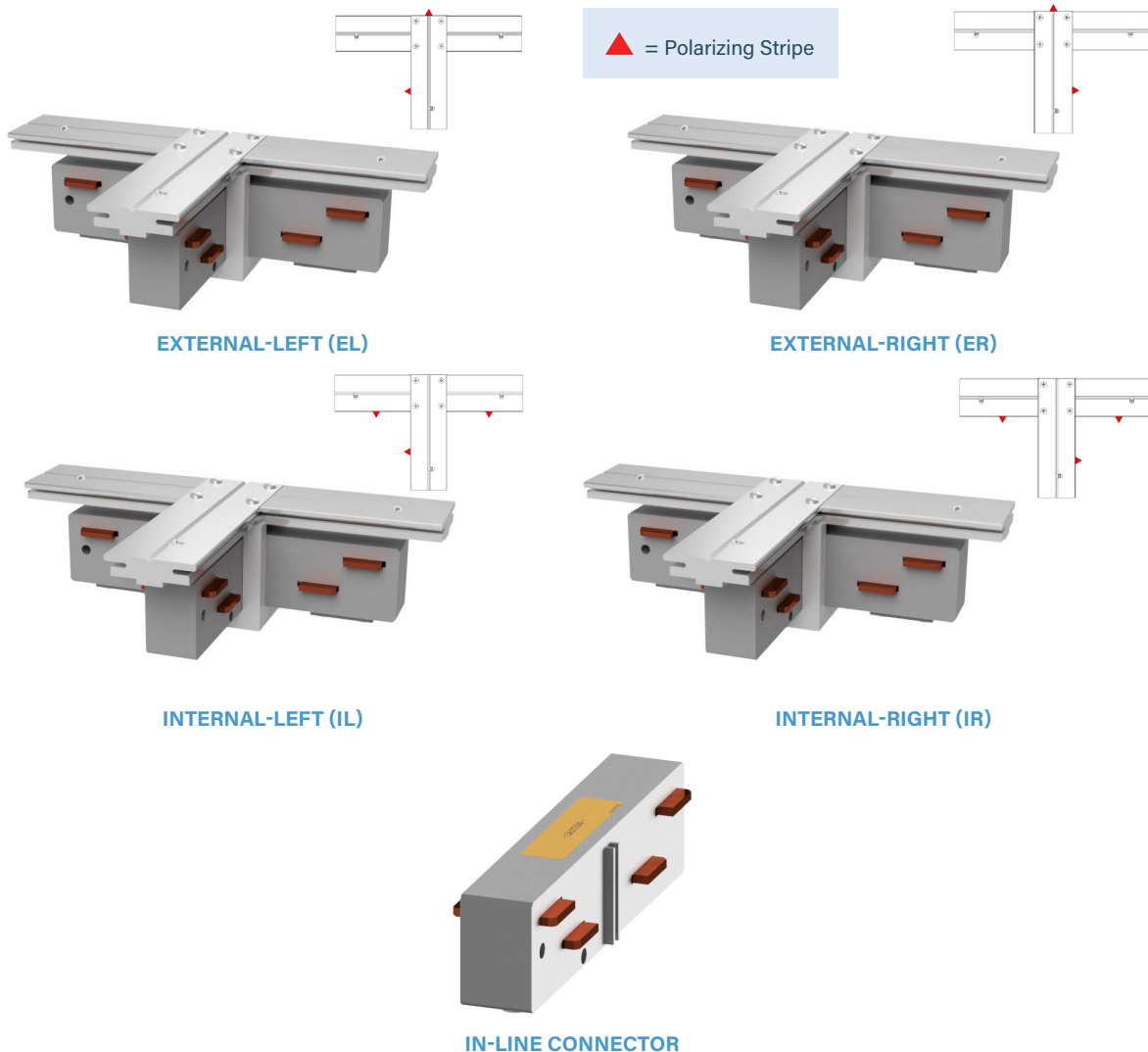
## TEE SECTIONS

### ■ PRODUCT DESCRIPTION

Similar to elbow connectors, tee connectors are used for connecting branch housing sections at 90 degrees to the main run. Please be aware of polarization issues before making your final selection (refer to **page 2.3 Polarity Tips**).

Tees are electrically connected to sections of 60 amp busway by means of an in-line connector. The connector is installed by inserting in each end of the housing sections to be joined. Hex head compression screws are tightened to make a reliable connection. All in-line connectors are polarized to prevent phase mismatch.

**Weight** 1 lb



# 60 AMP SYSTEMS

## TEE SECTIONS: PRODUCT NUMBERS

U	T	060	T2	C	4	S	-	IR
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction

# 60 AMP SYSTEMS

## CROSS SECTIONS

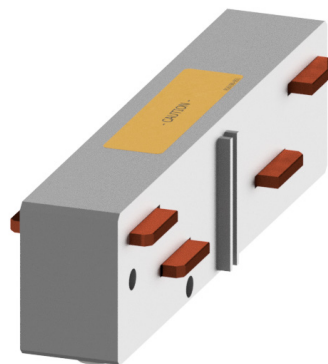
### ■ PRODUCT DESCRIPTION

Similar to tee connectors, crosses are typically used for grid designs. Please be aware of polarization issues before making your final selection (**refer to page 2.3 Polarity Tips**).

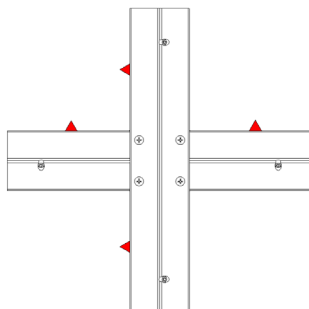
Crosses are electrically connected to sections of 60 amp busway by means of an in-line connector. The connector is installed by inserting in each end of the housing sections to be joined. Hex head compression screws are tightened to make a reliable connection. All in-line connectors are polarized to prevent phase mismatch.



STANDARD CROSS



IN-LINE CONNECTOR



▲ = Polarizing Stripe

# 60 AMP SYSTEMS

## CROSS SECTIONS: PRODUCT NUMBERS

U	X	060	T2	C	4	S	-	ST
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction
</								

# 60 AMP SYSTEMS

## END FEED UNITS

### ■ PRODUCT DESCRIPTION

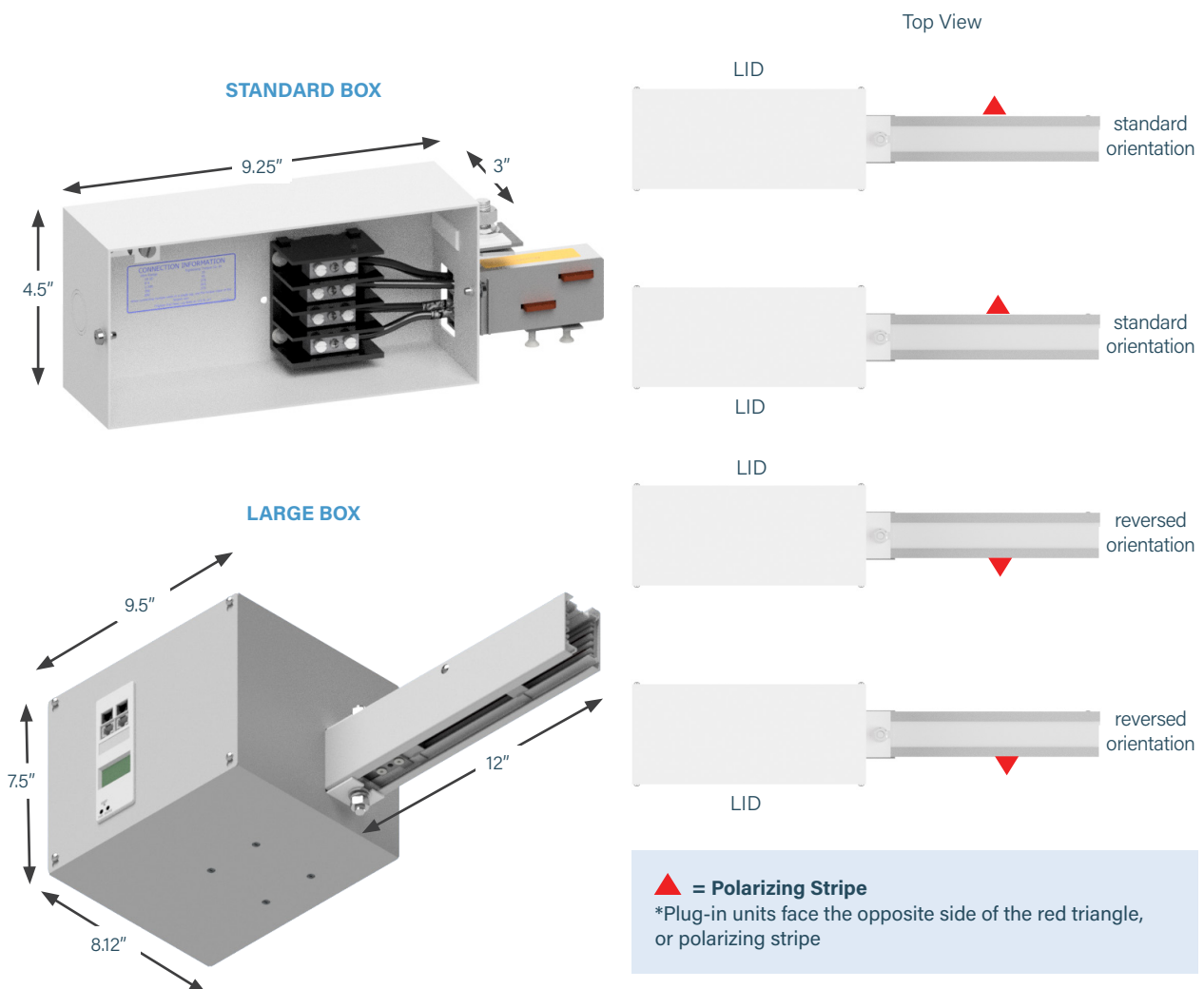
With a built-in connector, the end feed units for 60T2 systems consist of a steel junction box with removable side, a terminal block for field connections and an in-line connector already terminated to one side of the terminal block.

The unit is inserted into the busway and held in position via a bolted connection to the busway.

### Weight

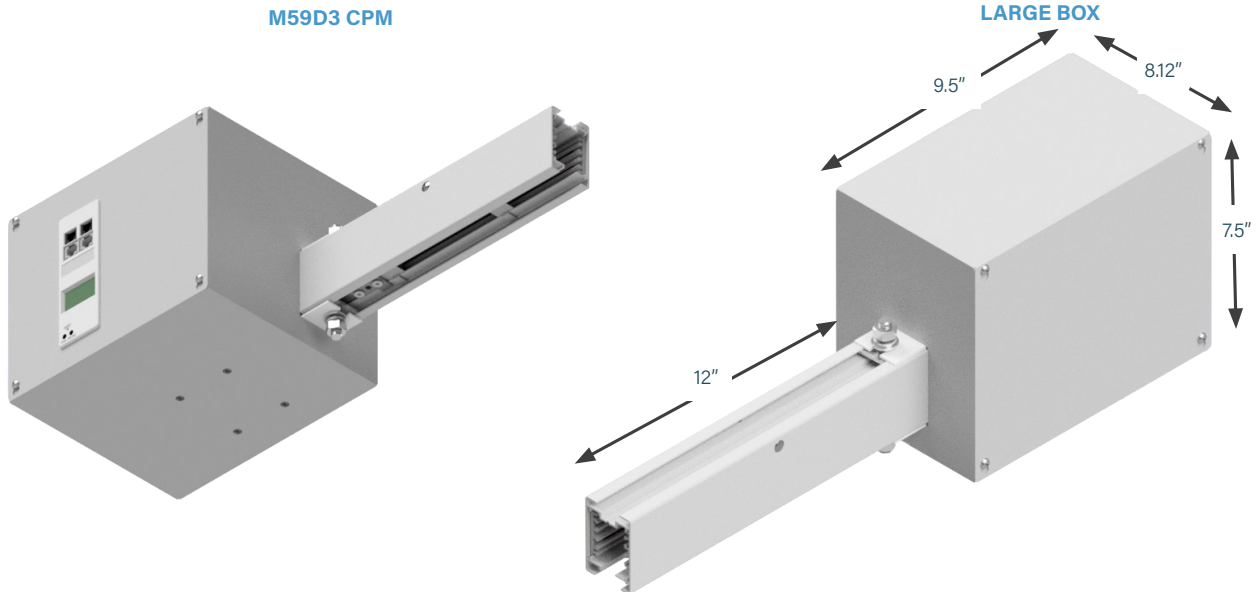
Standard box: 3.5 lbs

Large box: 12 lbs



# 60 AMP SYSTEMS

## END FEED UNITS: METERING



### AC END FEED METER OPTIONS

- M51** Single Eth./WiFi,  $\leq 480V_Y$ ,  $\leq 277V_{\Delta}$
- M53** Single Eth./No WiFi,  $\leq 480V_Y$ ,  $\leq 277V_{\Delta}$
- M58** Dual Eth.,  $\leq 480V_Y$ ,  $\leq 277V_{\Delta}$
- M59** Dual Eth./Dual Modbus,  $\leq 480V_Y$ ,  $\leq 277V_{\Delta}$

### DC END FEED METER OPTIONS

- M61** Single Eth./WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M63** Single Eth./No WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M67** Dual Eth., single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M69** Dual Eth./Dual Modbus, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

### BOX/LUGS OPTION

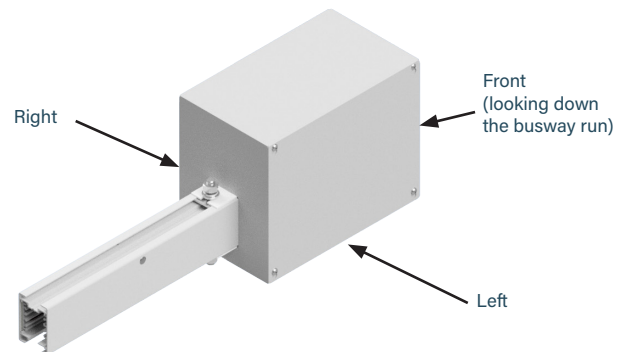
### 1 Meter or Accessory

- (S) Standard Box, Standard Lugs
- (L) Large Box, Standard Lugs

X

\*Large box with one meter or accessory is 8.12" deep. A meter and accessory cannot be on the same lid. Consult factory to determine accessory location for Large box.

Meters and accessories are not available on Standard box.



\*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on **page 2.16** End Feed Units: Product Numbers)

## END FEED UNITS: PRODUCT NUMBERS

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>10. Accessories Package</b> <i>(optional accessories for feed units)</i> <b>S</b> Standard <b>N</b> None (N/A) <i>*Accessories not available on standard box</i>
<b>2. Product Type</b> <i>(section component)</i> <b>F</b> End Feed	<b>11. Accessories Location</b> <i>(from the terminal, side with accessory)</i> <b>N</b> None (N/A) <i>*Consult factory for Large box accessory options</i>
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>60</b> 60 amps	<b>12. Straight Length</b> <i>(for large box only)</i> <b>0100</b> 1 ft. (For other lengths, consult the factory)
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T2</b> T2 System	<b>13. Busway Access</b> <i>(for large box only)</i> <b>C</b> Continuous
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper	<b>14. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD0</b> Factory Mill Finish <b>RED0</b> Paint Factory Red <b>BLK0</b> Paint Factory Black <b>BLU0</b> Paint Factory Blue <b>WHT0</b> Paint Factory White <b>**RAL</b> <i>(please see page 2.42)</i>
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral	<b>15. Tape Marking</b> <i>(colored tape on both sides of busway housing)</i> <b>O</b> No Tape Marking
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard <b>R</b> Reversed	
<b>8. Lug/Box Options</b> <i>(standard/double/bolt lugs and box size)</i> <b>S</b> Standard lugs, Standard box <b>L</b> Standard lugs, Large box	
<b>9. Meter Location</b> <i>(from the terminal, side with removable lid; meter must follow lid orientation on large box)</i> <b>R</b> Right <b>L</b> Left <b>N</b> None (N/A)	

## 2.16

## END FEED UNITS: PRODUCT NUMBERS

**M51D**  
Single Ethernet  
w/ Wi-Fi

## 2.17



## 60 AMP SYSTEMS

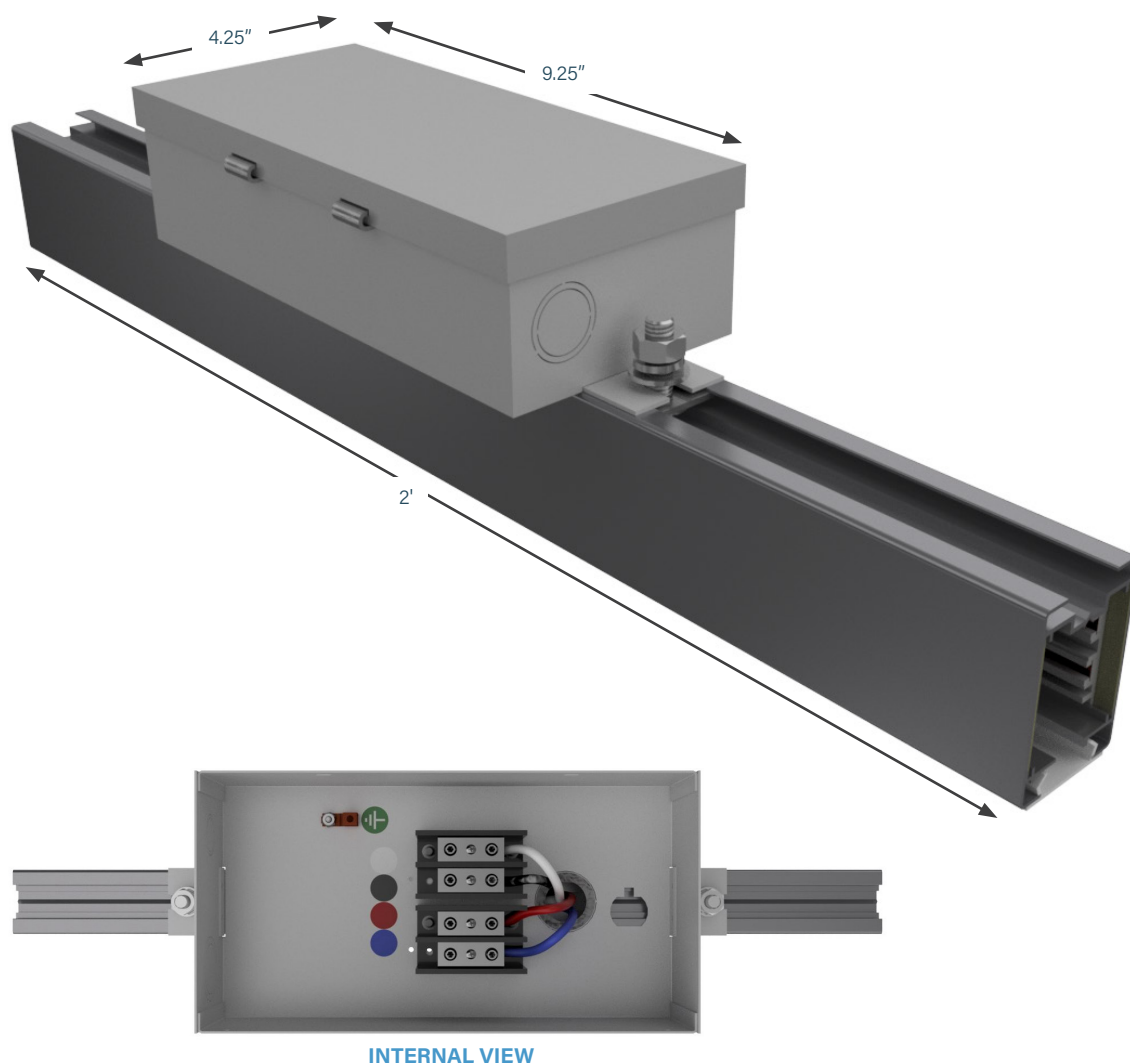
### ABOVE FEED UNITS

#### ■ PRODUCT DESCRIPTION

The above feed unit is used for supplying power anywhere along the top of a busway run. It consists of a two-foot section of busway, and a junction box with a 60A rated terminal block.

Two in-line connectors and housing couplers (supplied separately) are used to connect two adjacent busway sections.

**Weight** 2 - 5 lbs



## ABOVE FEED UNITS: PRODUCT NUMBERS

U	A	060	T2	C	4	S	–	S	N	S	N
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	8. Lug/Box Options	9. Lid Orientation	10. Accessories Package	11. Accessories Location	
			–	0200	C	012	–	STD0			
				12. Straight Length	13. Busway Access	14. Feed Location	15. Paint Color				

<p><b>1. System</b> <i>(standard of measure)</i></p> <p><b>U</b> US</p>	<p><b>10. Accessories Package</b> <i>(optional accessories for feed units)</i></p> <p><b>S</b> Standard</p>
<p><b>2. Product Type</b> <i>(section component)</i></p> <p><b>A</b> Above Feed</p>	<p><b>11. Accessories Location</b> <i>(from the terminal, side with accessory)</i></p> <p><b>N</b> None (N/A)</p>
<p><b>3. Product Frame</b> <i>(maximum amperage)</i></p> <p><b>060</b> 60 amps</p>	<p><b>12. Straight Length</b> <i>(length of section)</i></p> <p><b>0200</b> 2 feet</p>
<p><b>4. Compatibility</b> <i>(frame compatibility)</i></p> <p><b>T2</b> T2 System</p>	<p><b>13. Busway Access</b> <i>(how plugs access the busway)</i></p> <p><b>C</b> Continuous</p>
<p><b>5. Material</b> <i>(busbar material)</i></p> <p><b>C</b> Copper</p>	<p><b>14. Feed Location</b> <i>(location of the center of the top feed)</i></p> <p><b>012</b> 12 inches</p>
<p><b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i></p> <p><b>4</b> 3 Phase plus Neutral</p>	<p><b>15. Paint Color</b> <i>(allows painting of the busway housing)</i></p> <p><b>STD0</b> Factory Mill Finish      <b>REDO</b> Paint Factory Red  <b>BLK0</b> Paint Factory Black      <b>BLU0</b> Paint Factory Blue  <b>WHT0</b> Paint Factory White      <b>**RAL</b> <i>(please see page 2.42)</i></p>
<p><b>7. Polarization</b> <i>(orientation of section for mating purposes)</i></p> <p><b>S</b> Standard                      <b>R</b> Reversed</p>	
<p><b>8. Lug/Box Options</b> <i>(standard/double/bolt lugs and box size)</i></p> <p><b>S</b> Standard lugs, Standard box</p>	
<p><b>9. Lid Orientation</b> <i>(from the terminal, side with removable lid)</i></p> <p><b>N</b> None (N/A)</p>	

**UA060T2C4S-SNSN-0200C012-BLK0** = US System, Above Feed, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Standard Lugs, Standard Box, No Lid Orientation, Standard Accessory Package, No Accessory Location, 2 foot Straight Length, Continuous Access, 12 inch Feed Location, Painted Factory Black

# 60 AMP SYSTEMS

## END FEED CONNECTOR UNITS

### ■ PRODUCT DESCRIPTION

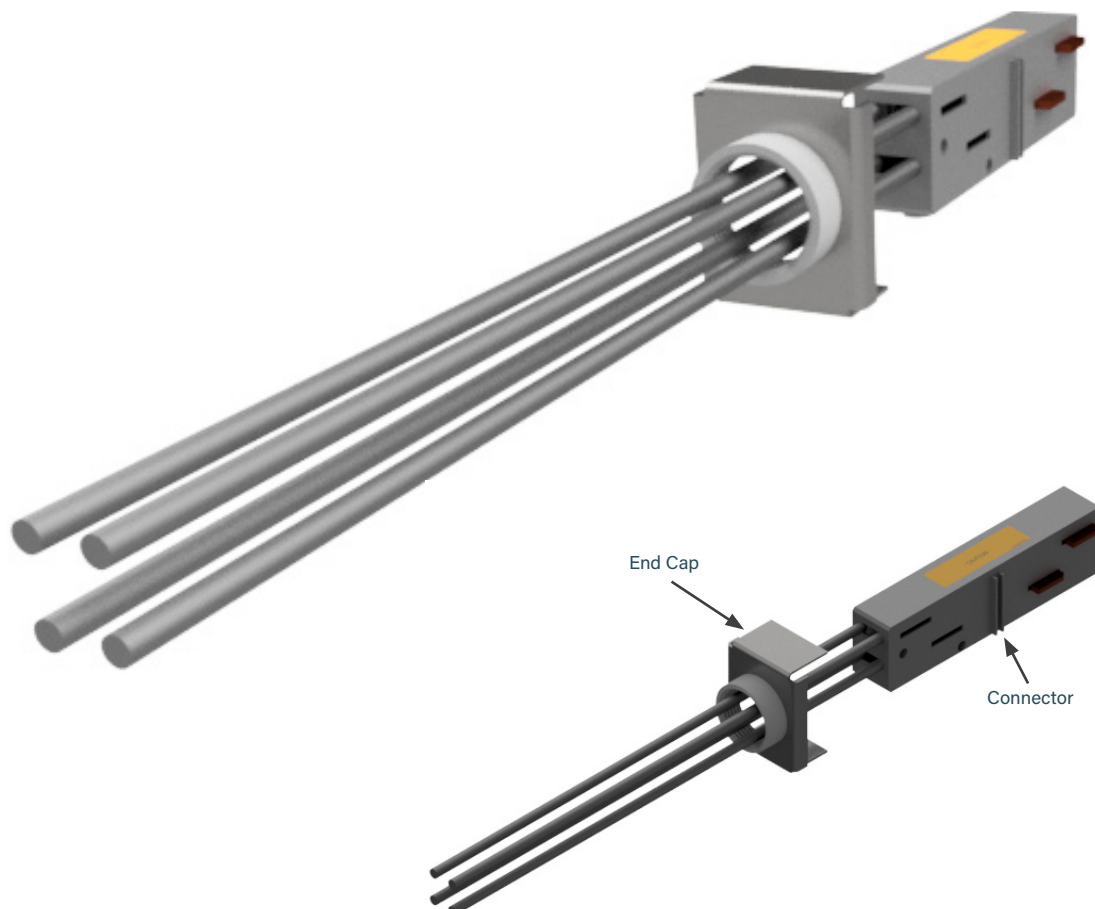
This design of power feed has a built-in connector and is used primarily in applications where aesthetic appearance is important — such as retail.

Wire leads are preassembled to the connector and eliminate the junction box on the busway.

24 in wire length is standard, but additional lengths are available upon request.

End Feed Connector units are shipped with an installation tool specifically designed to move the housing clip to desired location to allow for proper fit. See Installation Instructions for more details.

**Weight** 2 lbs



# 60 AMP SYSTEMS

## END FEED CONDUCTOR UNITS: PRODUCT NUMBERS

<b>U</b>	<b>C</b>	<b>060</b>	<b>T2</b>	<b>C</b>	<b>4</b>	<b>S</b>	<b>-</b>	<b>024</b>
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Wire Length

**1. System** *(standard of measure)*
**U** US

**2. Product Type** *(section component)*
**C** Concealed Feed

**3. Product Frame** *(maximum amperage)*
**060** 60 amps

**4. Compatibility** *(frame compatibility)*
**T2** T2 System

**5. Material** *(busbar material)*
**C** Copper

**6. Neutral/Ground Busbar** *(size of neutral busbar and/or ground)*
**4** 3 Phase plus Neutral      **2** 1 Phase plus Neutral

**7. Polarization** *(orientation of section for mating purposes)*
**S** Standard      **R** Reversed

**8. Wire Length** *(total length of wire in inches)*
**ZZZ** ZZZ = inches (024 is standard)

**EXAMPLE**
**UC060T2C4S-024** = US System, Concealed Feed, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 24 inch Wire Length

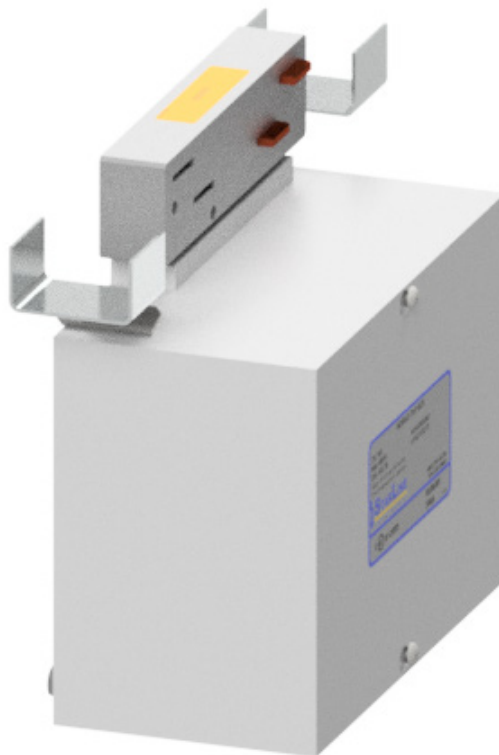
## 60 AMP SYSTEMS

### BELOW FEED UNITS

#### ■ PRODUCT DESCRIPTION

A Below Power Feed is designed to be installed anywhere along the full-access opening of a busway run. Insert the Power Feed connector into the busway run where desired and secure with a hanger bolt (supplied). The Below Power Feed unit must be completely installed in the selected busway housing before the adjacent housing section can be installed. A terminal block is provided in the box for field terminations. Power supply cable is fed in from under the unit.

**Weight** 4.8 lbs



## BELOW FEED UNITS: PRODUCT NUMBERS

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>9. Lid Orientation</b> <i>(from the terminal, side with removable lid)</i> <b>R</b> Right
<b>2. Product Type</b> <i>(section component)</i> <b>B</b> Below Feed	<b>10. Accessories Package</b> <i>(optional accessories for feed units)</i> <b>S</b> Standard
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>060</b> 60 amps	<b>11. Accessories Location</b> <i>(from the terminal, side with accessory)</i> <b>N</b> None (N/A)
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T2</b> T2 System	<b>12. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD0</b> Paint Factory Silver <b>RED0</b> Paint Factory Red <b>BLK0</b> Paint Factory Black <b>BLU0</b> Paint Factory Blue <b>WHT0</b> Paint Factory White <b>**RAL</b> <i>(please see page 2.42)</i>
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper	
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral	
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard <b>R</b> Reversed	
<b>8. Lug/Box Options</b> <i>(standard/double/bolt lugs and box size)</i> <b>S</b> Standard lugs, Standard box	

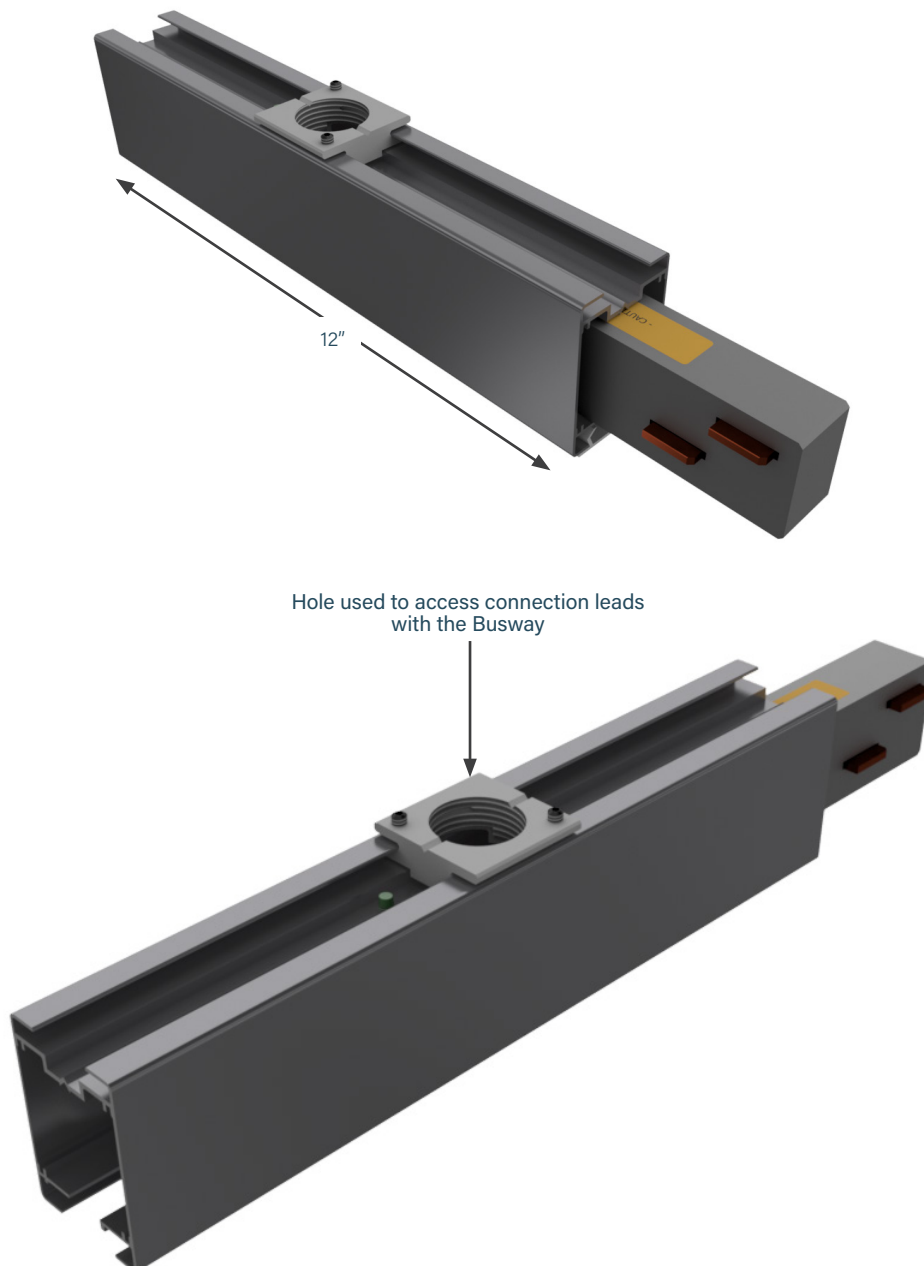
## 2.23

## 60 AMP SYSTEMS

### PENDANT FEED UNITS

#### ■ PRODUCT DESCRIPTION

A Pendant Feed consists of a 1 foot busway section with a 1 inch conduit size access hole for access to connection leads inside the Busway. A 1 inch conduit mounting adapter is included.



# 60 AMP SYSTEMS

## PENDANT FEED UNITS: PRODUCT NUMBERS

<b>U</b>	<b>P</b>	<b>060</b>	<b>T2</b>	<b>C</b>	<b>4</b>	<b>S</b>	<b>S</b>
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/Ground Busbar	7. Polarization	*8. System
<b>- STD0</b>							
9. Paint Color							

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>*8. System</b> <i>(Line to Line or Line to Neutral System)</i> <b>LL</b> LL Line to Line <b>LN</b> Line to Neutral <i>*LL &amp; LN specification required only when ordering a 2-pole system (reference option 6. Neutral/Ground Busbar)</i>
<b>2. Product Type</b> <i>(section component)</i> <b>P</b> Pendant Feed	
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>060</b> 60 amps	
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T2</b> T2 System	
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper	
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral	
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard <b>R</b> Reversed	<b>9. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD0</b> Factory Mill Finish <b>RED0</b> Paint Factory Red <b>BLK0</b> Paint Factory Black <b>BLU0</b> Paint Factory Blue <b>WHT0</b> Paint Factory White <b>**RAL</b> <i>(please see page 2.42)</i>

### EXAMPLES

**UP060T2C4R-PD60** = US System, Pendant Feed, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Painted RAL 3036

**UP060T2C4S-STD0** = US System, Pendant Feed, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Factory Mill Finish

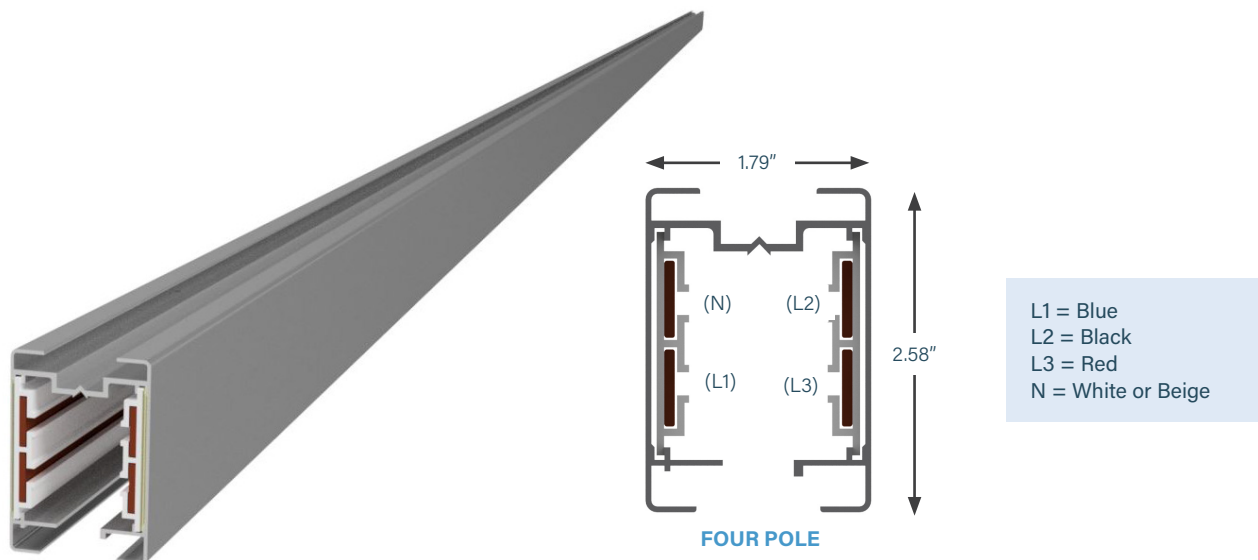


# 100 AMP SYSTEMS

## STRAIGHT SECTIONS

### PRODUCT DESCRIPTION

Track Busway straight sections consist of an extruded aluminum shell with insulated copper conductor strips mounted on the two opposite interior side walls. The aluminum extrusion acts as a 100% ground path and each straight has an open access slot over its entire length for the insertion of turn-n-lock plug-in units. The housing configuration is 4 pole in a 600 Volt design. Track Busway straights are connected together using in-line connectors and housing couplers (found under Accessories).



#### MATERIAL

Extruded Aluminum

#### RATINGS

100% Ground Path  
100 Amp, 600 Volt

#### LENGTH

5 ft, 10 ft, 20 ft; or custom lengths between 2 - 20 ft

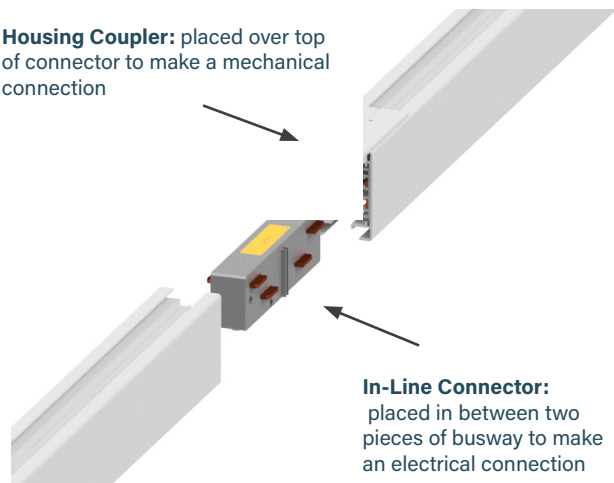
#### VOLTAGE DROP

Distributed load  
Single Phase 29 ft (.8PF)  
Three Phase 51 ft (.8PF)

#### WEIGHT

10 ft 4 pole: 16 lbs

**Housing Coupler:** placed over top of connector to make a mechanical connection



# 100 AMP SYSTEMS

## STRAIGHT SECTIONS: PRODUCT NUMBERS

U	S	100	T2	C	4	S	-	0200	C
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	8. Straight	9. Busway	

# 100 AMP SYSTEMS

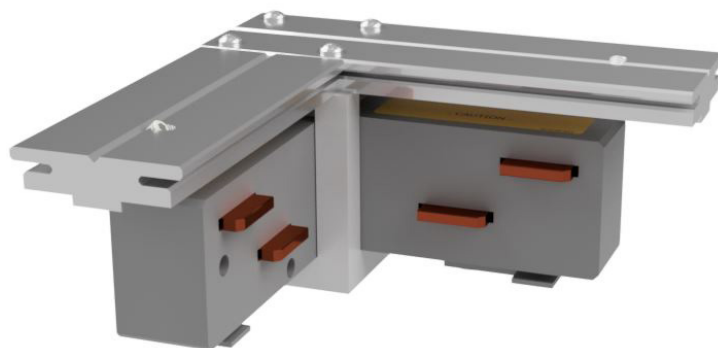
## ELBOW SECTIONS

### ■ PRODUCT DESCRIPTION

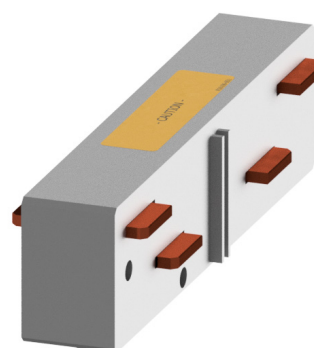
Elbow connectors are used for making a 90 degree turn in a 100 amp compact busway run. Please be aware of polarization issues before making your final selection (refer to **page 2.3 Polarity Tips**).

Elbows are electrically connected to sections of 100 amp busway by means of an in-line connector. The connector is installed by inserting in each end of the housing sections to be joined. Hex head compression screws are tightened to make a reliable connection. All in-line connectors are polarized to prevent phase mismatch.

**Weight** .5 lbs

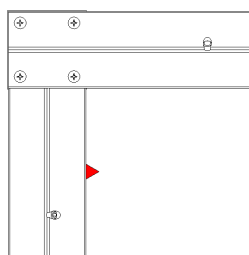


ELBOW CONNECTOR

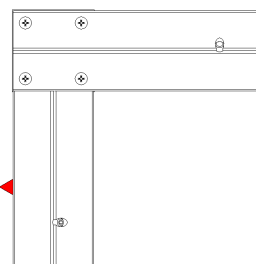


IN-LINE CONNECTOR

▲ = Polarizing Stripe



Internal Elbow



External Elbow

# 100 AMP SYSTEMS

## ELBOW SECTIONS: PRODUCT NUMBERS

U	E	100	T2	C	4	S	-	IN
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction

# 100 AMP SYSTEMS

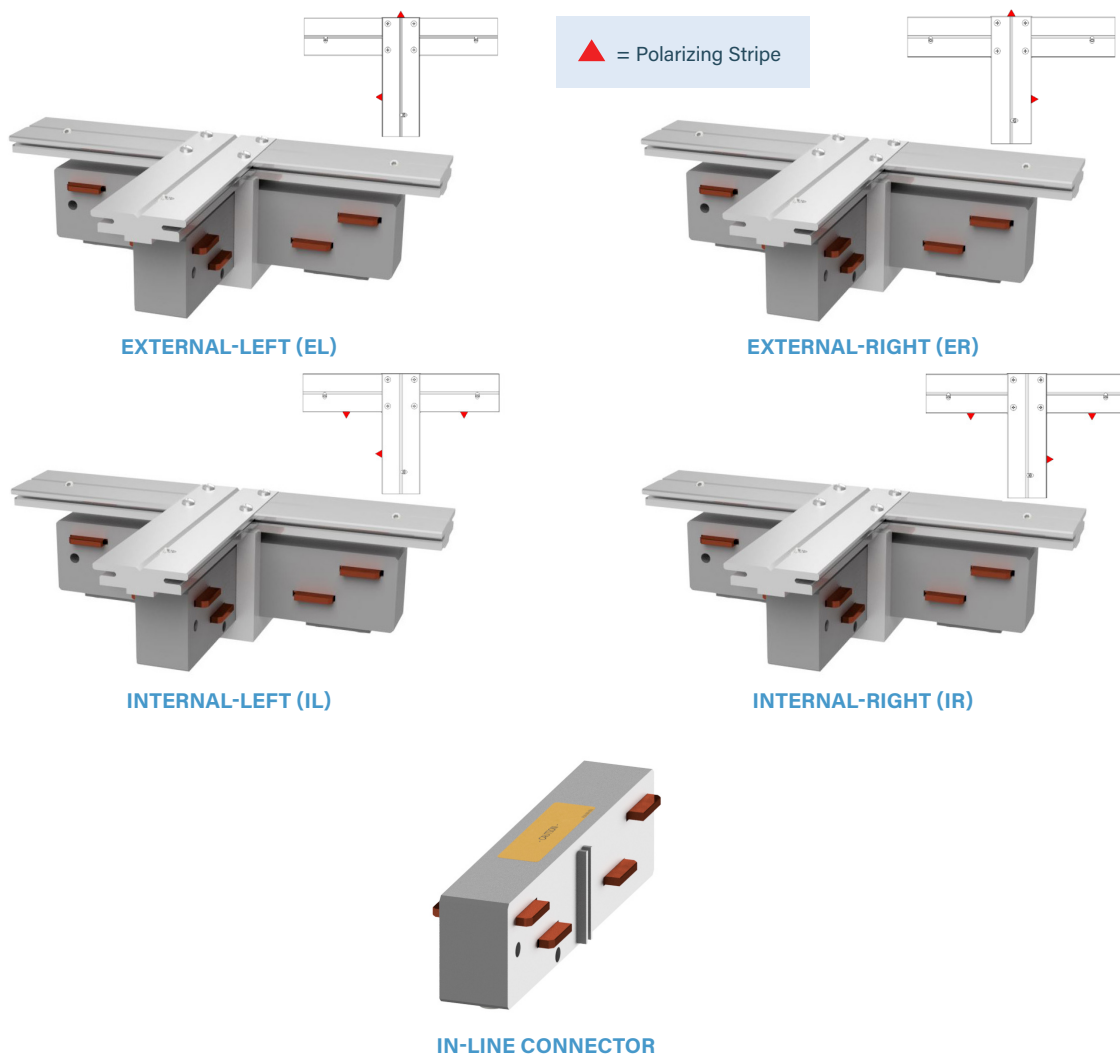
## TEE SECTIONS

### ■ PRODUCT DESCRIPTION

Similar to elbow connectors, tee connectors are used for connecting branch housing sections at 90 degrees to the main run. Please be aware of polarization issues before making your final selection (refer to **page 2.3 Polarity Tips**).

Tees are electrically connected to sections of 100 amp busway by means of an in-line connector. The connector is installed by inserting in each end of the housing sections to be joined. Hex head compression screws are tightened to make a reliable connection. All in-line connectors are polarized to prevent phase mismatch.

**Weight** 1 lb



# 100 AMP SYSTEMS

## TEE SECTIONS: PRODUCT NUMBERS

U	T	100	T2	C	4	S	-	IR
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction

# 100 AMP SYSTEMS

## CROSS SECTIONS

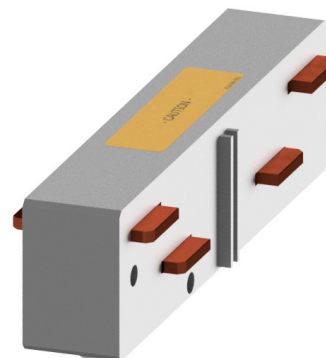
### ■ PRODUCT DESCRIPTION

Similar to tee connectors, crosses are typically used for grid designs. Please be aware of polarization issues before making your final selection (**refer to page 2.3 Polarity Tips**).

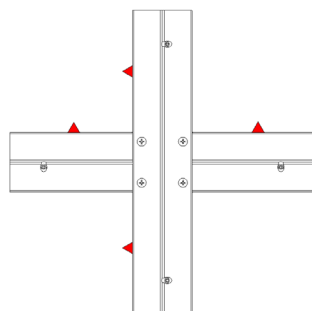
Crosses are electrically connected to sections of 100 amp busway by means of an in-line connector. The connector is installed by inserting in each end of the housing sections to be joined. Hex head compression screws are tightened to make a reliable connection. All in-line connectors are polarized to prevent phase mismatch.



STANDARD CROSS



IN-LINE CONNECTOR



▲ = Polarizing Stripe

# 100 AMP SYSTEMS

## CROSS SECTIONS: PRODUCT NUMBERS

U	X	100	T2	C	4	S	-	ST
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction



# 100 AMP SYSTEMS

## END FEED UNITS

### PRODUCT DESCRIPTION

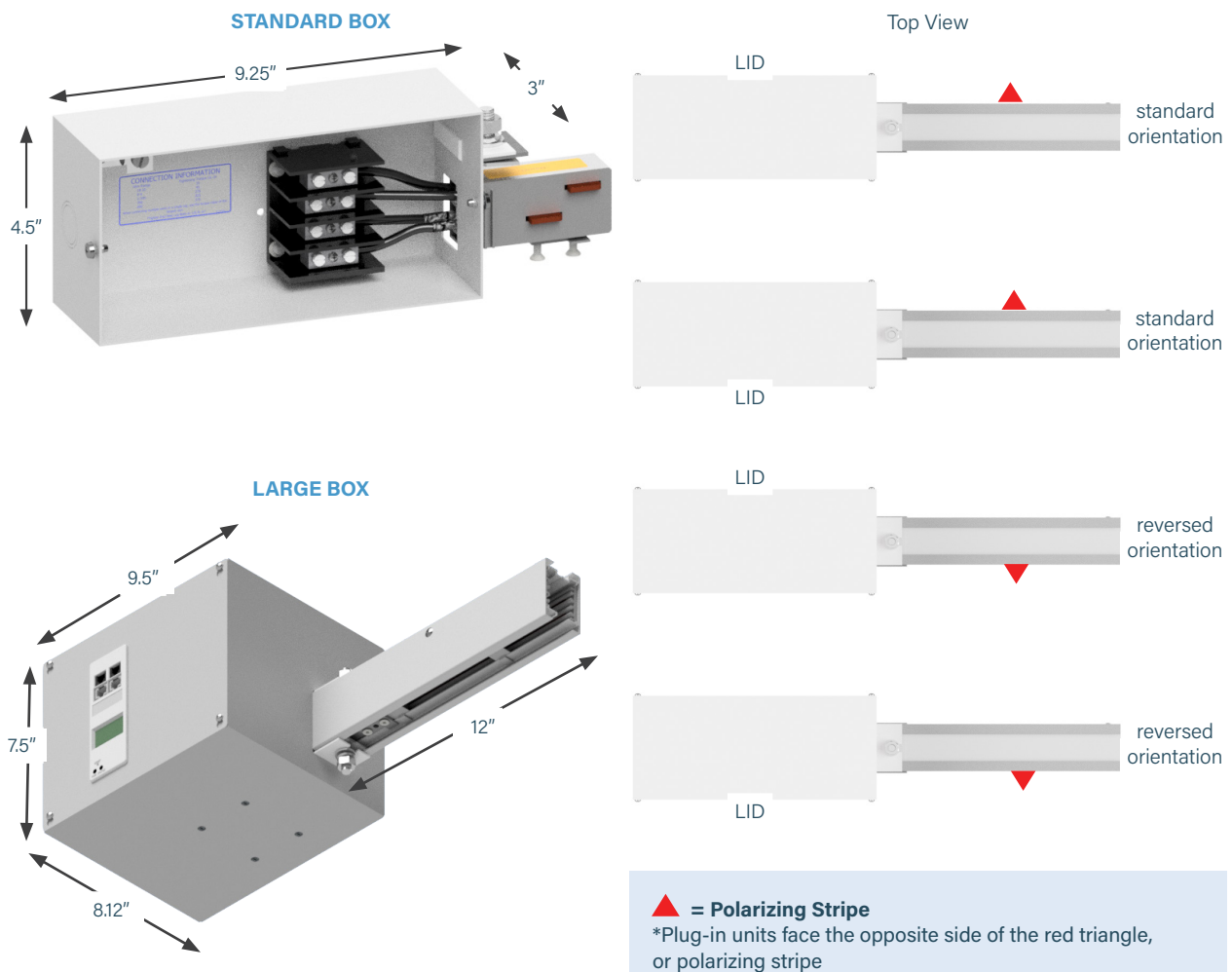
With a built-in connector, the end feed units for 60T2 systems consist of a steel junction box with removable side, a terminal block for field connections and an in-line connector already terminated to one side of the terminal block.

The unit is inserted into the busway and held in position via a bolted connection to the busway.

### Weight

Standard box: 3.5 lbs

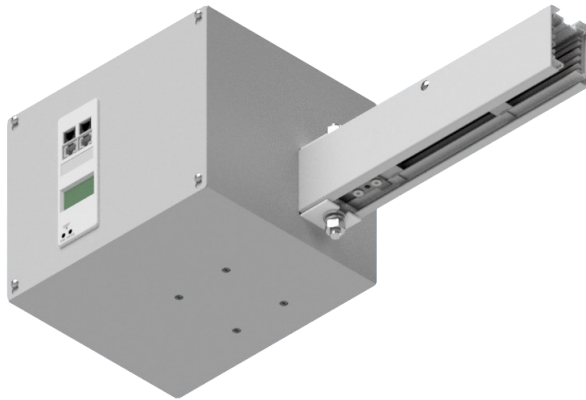
Large box: 12 lbs



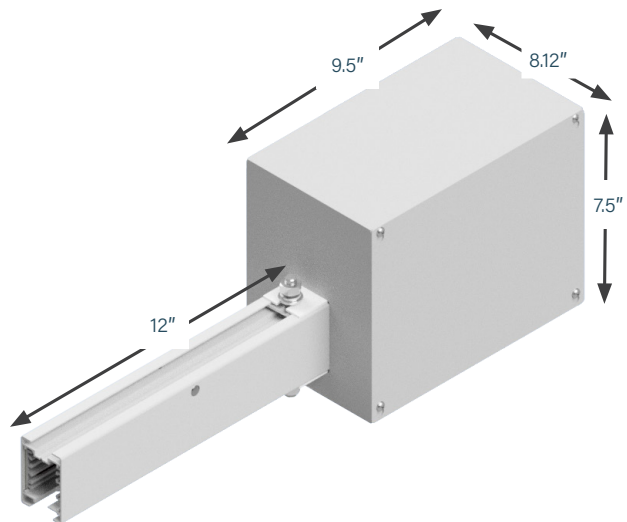
# 100 AMP SYSTEMS

## END FEED UNITS: METERING

M59D3 CPM



LARGE BOX



### AC END FEED METER OPTIONS

- M51** Single Eth./WiFi,  $\leq 480V_Y, \leq 277V_{\Delta}$
- M53** Single Eth./No WiFi,  $\leq 480V_Y, \leq 277V_{\Delta}$
- M58** Dual Eth.,  $\leq 480V_Y, \leq 277V_{\Delta}$
- M59** Dual Eth./Dual Modbus,  $\leq 480V_Y, \leq 277V_{\Delta}$

### DC END FEED METER OPTIONS

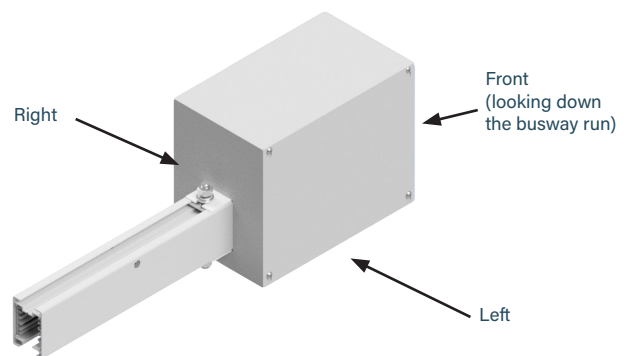
- M61** Single Eth./WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M63** Single Eth./No WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M67** Dual Eth., single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M69** Dual Eth./Dual Modbus, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

### BOX/LUGS OPTION

### 1 Meter or Accessory

- (S) Standard Box, Standard Lugs
- (L) Large Box, Standard Lugs

X



\*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on **page 2.36** End Feed Units: Product Numbers)

\*Large box with one meter or accessory is 8.12" deep. A meter and accessory cannot be on the same lid. Consult factory to determine accessory location for Large box.

Meters and accessories are not available on Standard box.



## END FEED METERING: PRODUCT NUMBERS

U	F	100	T2	C	4	S	-	L	R	S	N
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	8. Lug/Box Options	9. Meter Location	10. Accessories Package	11. Accessories Location	
<div> <div>-</div> <div>0100</div> <div>C</div> <div>-</div> <div>STD0</div> <div>0</div> <div>-</div> <div>M59</div> <div>S</div> <div>1</div> <div>*Optional</div> </div>											
		12. Straight Length	13. Busway Access	14. Paint Color	15. Tape Marking	*16. Meter Release		*17. Meter Options		*18. System Config. and CT Type	

**M51** Single Eth./WiFi,  $\leq 480V_Y, \leq 277V_{\Delta}$   
**M53** Single Eth./No WiFi,  $\leq 480V_Y, \leq 277V_{\Delta}$   
**M58** Dual Eth.,  $\leq 480V_Y, \leq 277V_{\Delta}$   
**M59** Dual Eth./Dual Modbus,  $\leq 480V_Y, \leq 277V_{\Delta}$

**M61** Single Eth./WiFi, single phase, VDC  
**M63** Single Eth./No WiFi, single phase, VDC  
**M67** Dual Eth., single phase, VDC  
**M69** Dual Eth./Dual Modbus, single phase, VDC

**S** Standard  
**D** Display  
**N** (Measured) Neutral  
**P** Professional (D+N)

**S** Standard (High Voltage)      **P** Standard (48 VDC)  
**D** Display (High Voltage)      **Q** Display (48 VDC)

*M60 Meters support: High Voltage: 120 to 300VDC/Split Phase 120VDC (+/-60) to 380VDC (+/-180) OR Low Voltage: 48VDC*

<b>1</b>	LLD - Standard, Milivolt	<b>L</b>	LLY - SC, 5A
<b>3</b>	LNy - Standard, Milivolt	<b>M</b>	LNy - SC, 5A

*line-line or line-neutral and wye or delta systems*

- 1** Circuit 1 Only, Solid Core
- 2** Circuit 2 Only, Solid Core
- 3** Both Circuits, Solid Core



Dual Modbus  
Dual Ethernet  
**M59S**



Dual Modbus  
Dual Ethernet  
**M59D**



Single Ethernet  
w/ Wi-Fi  
**M51S**



Single Ethernet  
w/ Wi-Fi  
**M51D**

**UF100T2C4S-LRSN-0100C-STD0-M59D3** = US System, End Feed, 100 Amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Standard Lugs, Large Box, Right Meter Location, Standard Accessory Package, No Accessory Location - 1 ft. Straight Length, Continuous - Factory Mill Finish, No Tape Marking - M59 Meter, with Display, LLD - Standard Millivolt

# 100 AMP SYSTEMS

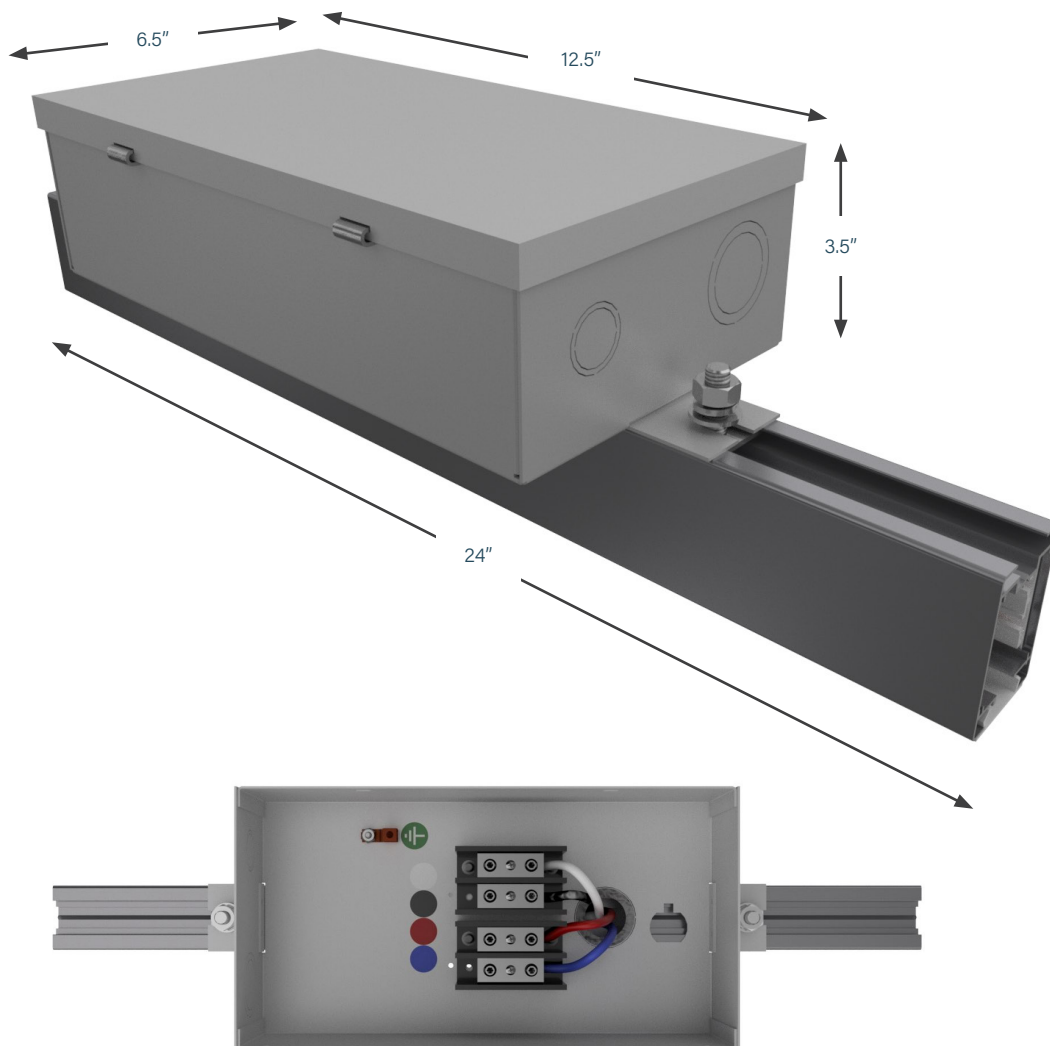
## ABOVE FEED UNITS

### ■ PRODUCT DESCRIPTION

The above feed unit is used for supplying power anywhere along the top of a busway run. It consists of a two-foot section of busway, and a junction box with a 100 amp rated terminal block.

Two in-line connectors and housing couplers (supplied separately) are used to connect two adjacent busway sections.

**Weight** 5 lb



INTERNAL VIEW

## ABOVE FEED UNITS: PRODUCT NUMBERS

U	A	100	T2	C	4	S	–	S	N	S	N
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	8. Lug/Box Options	9. Lid Orientation	10. Accessories Package	11. Accessories Location	
			–	0200	C	012	–	STD0			
			12. Straight Length	13. Busway Access	14. Feed Location	15. Paint Color					

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>10. Accessories Package</b> <i>(optional accessories for feed units)</i> <b>S</b> Standard
<b>2. Product Type</b> <i>(section component)</i> <b>A</b> Above Feed	<b>11. Accessories Location</b> <i>(from the terminal, side with accessory)</i> <b>N</b> None (N/A)
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>100</b> 100 amps	<b>12. Straight Length</b> <i>(length of section)</i> <b>0200</b> 2 feet
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T2</b> T2 System	<b>13. Busway Access</b> <i>(how plugs access the busway)</i> <b>C</b> Continuous
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper	<b>14. Feed Location</b> <i>(location of the center of the top feed)</i> <b>012</b> 12 inches
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral	<b>15. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD0</b> Factory Mill Finish <b>RED0</b> Paint Factory Red <b>BLK0</b> Paint Factory Black <b>BLU0</b> Paint Factory Blue <b>WHT0</b> Paint Factory White <b>**RAL</b> <i>(please see page 2.42)</i>
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard <b>R</b> Reversed	
<b>8. Lug/Box Options</b> <i>(standard/double/bolt lugs and box size)</i> <b>S</b> Standard lugs, Standard box	
<b>9. Lid Orientation</b> <i>(from the terminal, side with removable lid)</i> <b>N</b> None (N/A)	

**UA100T2C4S-SNSN-0200C012-BLKO** = US System, Above Feed, 100 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Standard Lugs, Standard Box, No Lid Orientation, Standard Accessory Package, No Accessory Location, 2 foot Straight Length, Continuous Access, 12 inch Feed Location, Painted Factory Black

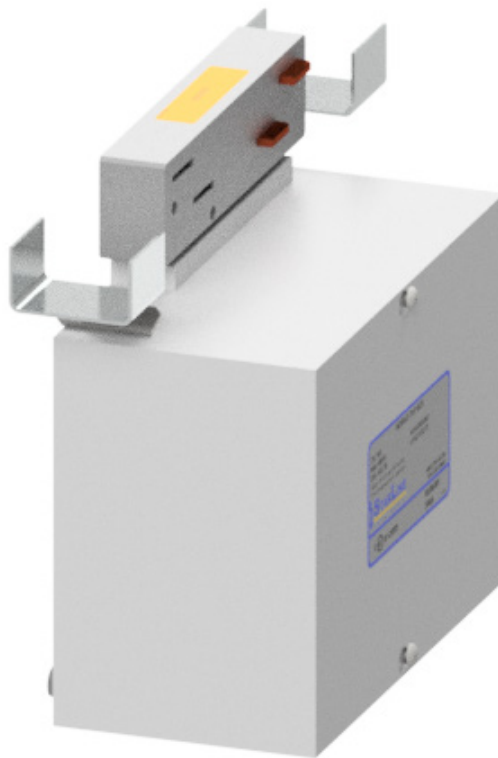
# 100 AMP SYSTEMS

## BELOW FEED UNITS

### ■ PRODUCT DESCRIPTION

A Below Power Feed is designed to be installed anywhere along the full-access opening of a busway run. Insert the Power Feed connector into the busway run where desired and secure with a hanger bolt (supplied). The Below Power Feed unit must be completely installed in the selected busway housing before the adjacent housing section can be installed. A terminal block is provided in the box for field terminations. Power supply cable is fed in from under the unit.

**Weight** 4.8 lbs



## BELOW FEED UNITS: PRODUCT NUMBERS

U	B	100	T2	C	4	S	-	S	R	S	N
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/Ground Busbar	7. Polarization	8. Lug/Box Options	9. Lid Orientation	10. Accessories Package	11. Accessories Location	

12. Paint Color

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>9. Lid Orientation</b> <i>(from the terminal, side with removable lid)</i> <b>R</b> Right
<b>2. Product Type</b> <i>(section component)</i> <b>B</b> Below Feed	<b>10. Accessories Package</b> <i>(optional accessories for feed units)</i> <b>S</b> Standard
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>100</b> 100 amps	<b>11. Accessories Location</b> <i>(from the terminal, side with accessory)</i> <b>N</b> None (N/A)
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T2</b> T2 System	<b>12. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD0</b> Factory Mill Finish <b>RED0</b> Paint Factory Red <b>BLK0</b> Paint Factory Black <b>BLU0</b> Paint Factory Blue <b>WHT0</b> Paint Factory White <b>**RAL</b> <i>(please see page 2.42)</i>
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper	
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral	
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard <b>R</b> Reversed	
<b>8. Lug/Box Options</b> <i>(standard/double/bolt lugs and box size)</i> <b>S</b> Standard lugs, Standard box	

**UB100T2C4R-SRSN-WHT0** = US System, Below Feed, 100 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, Right Lid Orientation, Standard Accessory Package, No Accessory Location, Painted Factory White



# T2 SERIES

## RAL COLORS

1ST CHARACTER	
<b>P</b>	Paint

2ND CHARACTER	
<b>0</b>	100
<b>1</b>	101
<b>2</b>	102
<b>3</b>	103
<b>4</b>	200
<b>5</b>	201
<b>A</b>	300
<b>B</b>	301
<b>C</b>	302
<b>D</b>	303
<b>E</b>	400
<b>F</b>	401
<b>G</b>	500
<b>H</b>	501
<b>J</b>	502
<b>K</b>	600
<b>L</b>	601
<b>M</b>	602
<b>N</b>	603
<b>P</b>	700
<b>Q</b>	701
<b>R</b>	702
<b>S</b>	703
<b>T</b>	704
<b>U</b>	800
<b>V</b>	801
<b>W</b>	802
<b>X</b>	900
<b>Y</b>	901
<b>Z</b>	902

3RD CHARACTER	
<b>0</b>	0
<b>1</b>	1
<b>2</b>	2
<b>3</b>	3
<b>4</b>	4
<b>5</b>	5
<b>6</b>	6
<b>7</b>	7
<b>8</b>	8
<b>9</b>	9

4TH CHARACTER	
<b>0</b>	0

### EXAMPLE:

P B 2 0 = Paint RAL 3012

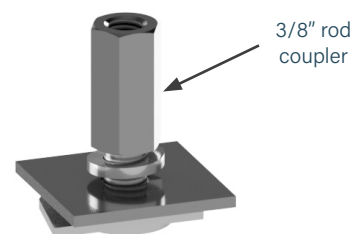
## T2 SERIES

### ACCESSORIES: SUPPORT HARDWARE

#### ■ THREADED ROD

For mounting to 3/8 - 16 threaded rod.  
 Can be inserted anywhere along the top full-access slot of busway. Hanger support is required every 10 feet maximum.

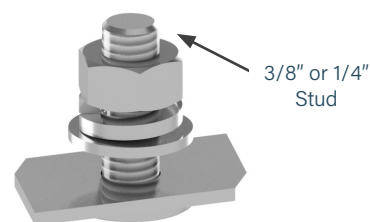
*Part Number*  
 URHB-3  
*Available in plain zinc*  
*or black (-BLK)*  
*Weight*  
 .3 lb



#### ■ STANDARD

For mounting to strut or other flat surfaces. Twist-in design allows inserting anywhere along the top full-access slot on the busway. Hanger support is required every 10 feet maximum.

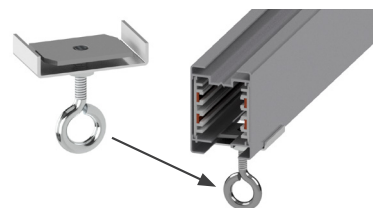
*Part Number*  
 UTHB-3 (3/8")  
 UTHB-1/4 (1/4")  
*Available in plain zinc*  
*or black (-BLK)*  
*Weight*  
 .2 lb



#### ■ WEIGHT HOOK

Can be used as a hanger to suspend the busway from chains or cables.  
 Can also be used to hang loads of up to 50 pounds under the busway, such as light fixtures, tools and balancers.

*Part Number*  
 UWHRT2  
*Available in plain zinc*  
*Weight*  
 .2 lb



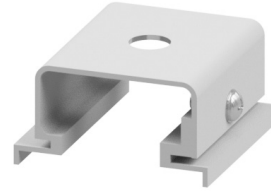
# T2 SERIES

## ACCESSORIES: SUPPORT HARDWARE

### ■ SURFACE MOUNT

For mounting to a surface. Comes with a 3/8 inch hole.

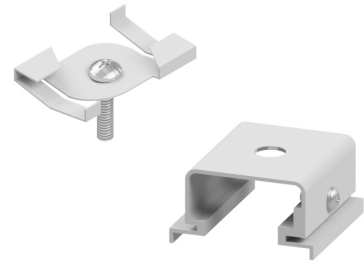
Part Number  
*UMCT2-S (surface)*  
 Available in all standard and  
 RAL colors



### ■ T-BAR SUSPENDED CEILING

For mounting to an inverted T-bar. The clip locks onto T-bar and the busway is connected to the stud on the clip. T-bar is mounted with surface clip.

Part Number  
*UTHB-4*  
 Available in plain zinc  
 Weight  
*.1 lb*



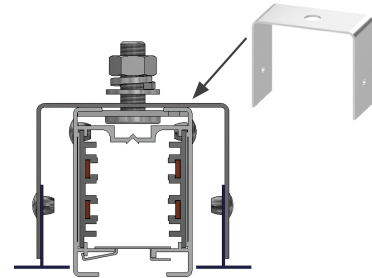
### ■ RECESSED MOUNT

Recessed mount brackets are used when installing busway that is recessed into a suspended ceiling.

*\*Hanger bolt must be ordered separately*

*\*\*Busway must sit slightly below the surface of the ceiling in order to install plug in units.*

Part Number  
*URMT2*  
 Available in plain zinc  
 Weight  
*.1 lb*



### ■ CABLE

For mounting to a 1/16 in or 3/32 in aircraft cable with easy grip clamp assembly. Cable is not included. Hanger support is every 10 feet maximum.

Part Number  
*UACH-1 (1/16" cable)*  
*UACH-2 (3/32" cable)*  
 Available in plain zinc  
 Weight  
*.2 lb*



# T2 SERIES

## ACCESSORIES: CONNECTION HARDWARE

### ■ JOINT KIT

For the connection of adjacent busway sections. Each kit is comprised of an in-line connector and housing coupler.

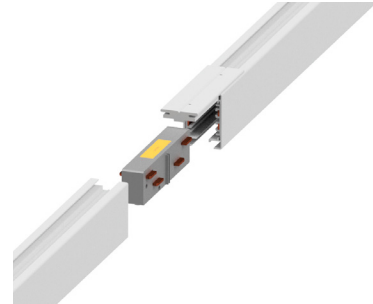
*In-Line Connector:* sections of busway are joined electrically by means of an in-line connector. All in-line bus connectors are polarized to prevent phase mismatch.

*Housing Coupler:* sections of busway are joined mechanically by means of a housing coupler. One is required per connection point.

Part Number

UJKT2-4

Available in all standard and  
RAL colors

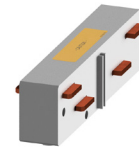


### ■ IN-LINE CONNECTOR

For mounting to an inverted T-bar. The clip locks onto T-bar and the busway is connected to the stud on the clip. T-bar is mounted with surface clip.

Part Number

UBCT2-4



### ■ HOUSING COUPLER

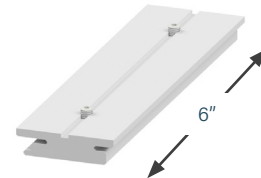
Recessed mount brackets are used when installing busway that is recessed into a suspended ceiling.

*\*Hanger bolt must be ordered separately*

Part Number

UHCT2

Available in all standard and  
RAL colors



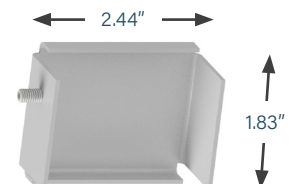
Part Number

UECT2

Available in all standard and  
RAL colors

Weight:

.2 lb



### ■ END CAP

For covering the end of 60T2 or 100T2 busway.

### ■ OPTIONAL CLOSURE STRIP

Made of white, rigid PVC, the closure strip is used to close the continuous access slot of the busway. It may be used for aesthetic purposes, for keeping dust and dirt from entering the busway or as an added safety measure. It is easily cut to length in the field to be installed around plug-in units.

Part Number

UCST2

Available in black & white

Maximum Cut Length: 20 ft



## T2 SERIES

### SERVICES

Regular servicing of busway systems is crucial for ensuring that your system performs at its best. By conducting regular maintenance, you can identify and address any potential issues before they turn into expensive problems, thus saving you time and money in the long run. Regular servicing can help extend the lifespan of your busway system, ensuring that it meets safety standards and complies with regulations. Choose from various offerings and customize a service plan that works best for you.

#### **WE ARE CURRENTLY OFFERING THE FOLLOWING SERVICES:**

##### **COMMISSIONING AND EQUIPMENT RENTALS**

Designing a mission-critical facility involves a significant investment of time and money. Through comprehensive commissioning services, Starline can help guarantee your project delivers the outcomes you expect.

Whether you need rental equipment to test your busway system or certified technicians to perform the testing, Starline has you covered. Choose from our inventory of load bank tap-offs and associated gear, or work with a Starline Engineer to customize and perform a commissioning plan to fit your specific needs.

##### **METER SERVICES**

Starline's certified technicians make optimizing your meters' performance and functionality a breeze. Our comprehensive on-site meter programming service includes inspecting, programming, reporting, and optional retrofitting services for you existing systems.

##### **STARTUP AND SYSTEM CERTIFICATION**

At Starline, we are committed to ensuring the success of your project. Our team understands the risks associated with the energization of systems, which is why we've designed a rigorous certification process to inspect, test and report on your Starline Busway and Critical Power Monitor ("CPM") products. Our certification process proactively identifies and prevents any potential issues before they happen.

To ensure the long-term success of your project, it is crucial to have Starline-certified technicians inspect and validate the installation before full commissioning. Level 2 and 3 commissioning ensures the installation complies with safety requirements and meets factory standards for ongoing reliability.

- Double the length of the standard factory warranty
- Ensure all joint and feed connections are properly installed with continuity testing
- Ensure proper installation of all plug-in units
- Validate that system will perform to your specified requirements
- Full certification report delivered electronically at conclusion of service

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at [downloads.starlinepower.com/services](https://downloads.starlinepower.com/services).

# T2 SERIES

## SERVICES

### TURNKEY INSTALLATION SERVICES

Our trained and factory certified Busbar installers are looking forward to completing your next job. You can order your best-in-class power distribution system and leave the rest to us. Our technicians will complete your installation quickly and safely and will reduce your overall TCO by extending your product warranty.

### PREVENTATIVE MAINTENANCE PLANS AND IR SCANNING

Although Starline busway is expertly designed to require less maintenance, NETA ATS and MTS guidelines recommend conducting annual inspections and health assessments on all critical equipment. Yearly preventative maintenance helps to ensure your system's long-term reliability and safety.

Starline's FLIR-certified technicians will create a custom preventative maintenance plan for your specific needs. Our certified technicians will work to:

- Identify thermal anomalies
- Extend equipment lifecycle
- Ensure optimal system performance
- Improve facility safety and operational sustainability

Upon completing your preventative maintenance plan, you may be eligible to extend your product warranty.

### ON-SITE INSTALLATION SUPPORT

Starline's on-site installation service makes installing your busway as quick and easy as possible.

Our installation support starts with scheduling a preliminary trip to the installation site. During the initial visit, our certified technicians will train your installing contractor and develop a thorough installation and commissioning plan.

After completing the training, your installing contractor will have a direct line of communication with our installation experts. Our experts can help answer questions and provide hands-on guidance when needed.

Opting for Starline's installation support helps mitigate the installation risk and reduces the learning curve typically associated with new installations.

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at [downloads.starlinepower.com/services](https://downloads.starlinepower.com/services).

# T2 SERIES

## SERVICES

### ON-SITE PRODUCT TRAINING

At Starline, we offer comprehensive on-site product training services facilitated by our team of certified technicians. With their extensive expertise and commitment to upholding our high factory standards, you can confidently rely on them to ensure your and your systems' reliability and operational safety.

Our training programs equip your team with the knowledge and skills necessary to operate and maintain your systems effectively. Through hands-on demonstrations and interactive sessions, our certified technicians will guide your staff in understanding the intricate workings of the products and address any questions or concerns your team may have during the training process.

By choosing our on-site product training services, you are investing in your system's and operations' long-term success

### RECERTIFICATION AND EXTENDED WARRANTY PLANS

Starline's recertification and extended warranty options provide best-in-class coverage for all of your Starline products and systems. Our extended warranty plans safeguard your investment beyond the standard warranty timeframe, offering you peace-of-mind while our recertification programs help mitigate risk and downtime. Whether the busway has been installed for years or you are relocating to another building, Starline is here to help.

Choose from one of our flexible one to four-year plans or have your system recertified anytime. Contact your Starline rep for more information.

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at [downloads.starlinepower.com/services](https://downloads.starlinepower.com/services).

# T3 AND S3 SERIES BUSWAY

## SPECS & INTRODUCTION

### INTRODUCTION

Starline is the leader in electrical power distribution in the mission critical, commercial and light industrial industries with Starline Track Busway. This system was designed to meet the rugged specification of the UL857, Busway and Associated Fittings, with the flexible features of track lighting — and is available in systems with 100 or 225 amps with isolated ground.

Track Busway is the simple, versatile, fast and economical solution for supplying power to electrical loads and is unique because the busway can be instantly tapped at any location, with a variety of plug-in units.

The Product Selection Guide was developed to help the design engineer understand and consider all of the options available with Starline Track Busway when designing a system.

The Product Selection Guide also covers the Series-S Busway System, which offers the same performance, functionality, and flexibility of Starline Track Busway at higher ingress protection levels. Please note that most information is applicable across both systems. Any variations between systems will be differentiated throughout the document. In these cases, please note that the "S3" nomenclature refers to the Series-S system and "T3" refers to the standard Track Busway System.

### SERIES-S SYSTEM

The Series-S System is certified to both IP54 and NEMA 3R ratings, which offers a higher level of protection against ingress of dust, water or other foreign objects. The unique sealed-system design provides the same level of protection across the entire power distribution system, from the power feeds to the busway and plug-in units.

Series-S plug-in units are specifically designed with durable, impact and chemical resistant materials commonly used in UL and outdoor applications. These plug-in units are paired with a wide variety of watertight rated IEC and NEMA devices.

This guide is all-inclusive; however, Starline excels at collaborating with design engineers to provide solutions for any application. If you have a need that is not found in this guide, please contact us at 1-800-245-6378. We will be happy to answer your questions over the telephone or schedule a visit with one of our local representatives.

Also, if viewing this guide in print, please keep in mind that this is a working document. Starline reserves the right to change information and descriptions of listed services and products. The latest version of this guide is available for download at [downloads.starlinepower.com/starline/busway/](https://downloads.starlinepower.com/starline/busway/).



# T3 AND S3 SERIES BUSWAY

## SPECS & INTRODUCTION

### SPECS

This specification covers the electrical characteristics and general requirements for a track busway system, hereafter referred to as (Track Busway or busway). The system shall be designed primarily for overhead distribution of electrical power; supporting designated work areas and equipment. Once installed the busway will provide a simple, versatile, fast and economic means of distributing power. Loads fed from a variety of plug-in units can be easily added or removed without shutting power down to the busway.

The Track Busway shall be designed and manufactured to the following standards:

1. Underwriters Laboratories Standard, UL 857 — The common UL, CSA, and ANCE Standard for Busways that is derived from the fifth edition of CSA Standard C22.2 No. 27, the twelfth edition of UL 857, and the second edition of NMX-J-148-1998-ANCE.
2. Low Voltage Switchgear and Controlgear Assemblies, Part 1: Type Tested and partially type tested Assemblies, IEC 61439-1 & IEC 61439-6.

### SERIES-S SPECS

The S3 Busway Series is designed with additional levels of ingress protection, IEC IP54 and NEMA 3R ratings, against liquid and solid contaminants.

This system meets or exceeds the additional standards for ingress protection:

3. International Electrotechnical Commission (IEC) — 60529, Degrees of Protection Provided by Enclosures (IP Code)
4. National Electrical Manufacturers Association (NEMA) — 250, Enclosures for Electrical Equipment (1000 Volts Maximum)
5. Housing shall be protected against corrosion utilizing protective coating (per MIL-DTL-5541), while maintaining case grounding capability, with option for powder-coating.

# T3 AND S3 SERIES BUSWAY

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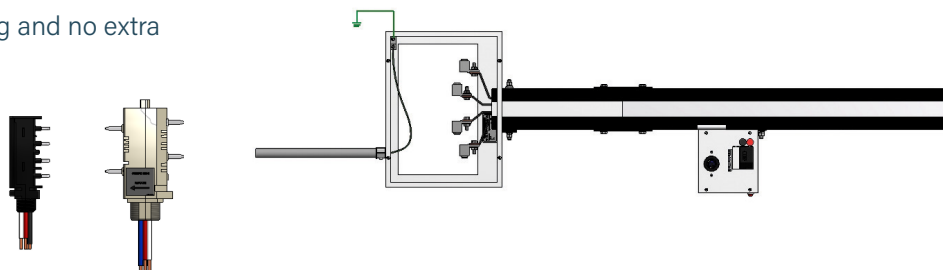
# T3 AND S3 SERIES BUSWAY

## GROUND OPTIONS

### ■ 100 & 225 OPTIONS

#### CASE GROUND/CHASSIS EARTH

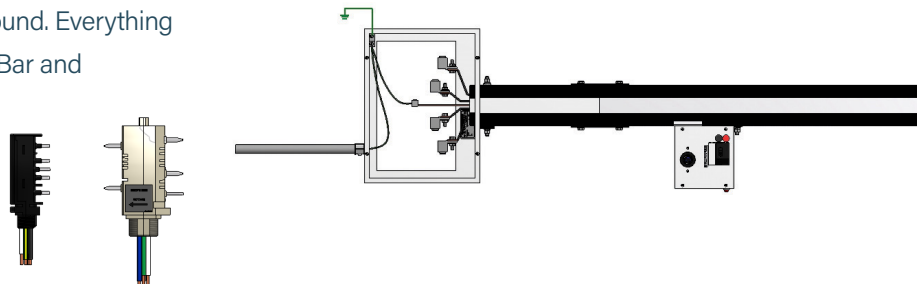
Uses aluminum housing and no extra copper bar.



### ■ 100 OPTION ONLY

#### DEDICATED GROUND/EARTH

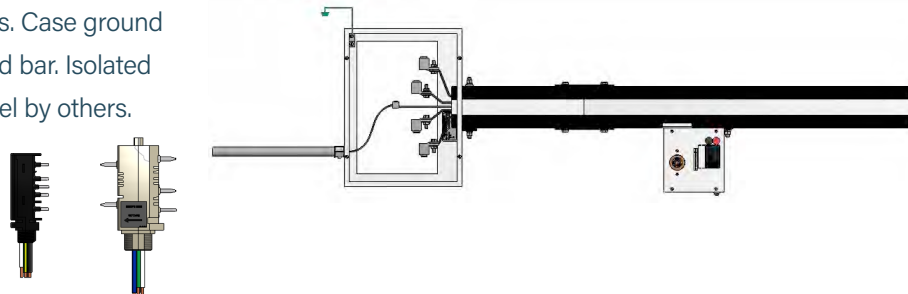
Extra bar in busway for ground. Everything tied together inside plugs. Bar and housing at same potential.



### ■ 100 OPTION ONLY

#### ISOLATED GROUND/EARTH

Orange receptacles in plugs. Case ground isolated from copper ground bar. Isolated ground carried back to panel by others.



\*For further details about Dedicated Ground vs. Isolated Ground, please reference our "Isolated Ground vs. Dedicated Ground" tech brief on [downloads.starlinepower.com/starline/busway](https://downloads.starlinepower.com/starline/busway).

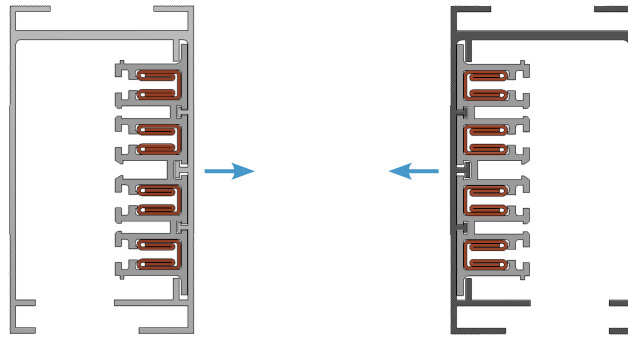
# T3 AND S3 SERIES BUSWAY

## POLARITY TIPS

Starline utilizes a unique polarizing method to prevent mismatched components from being inadvertently connected to each other. The system is designed to prevent cross phasing during installation.

**It is particularly important to understand this design concept prior to ordering and/or installing some components.**

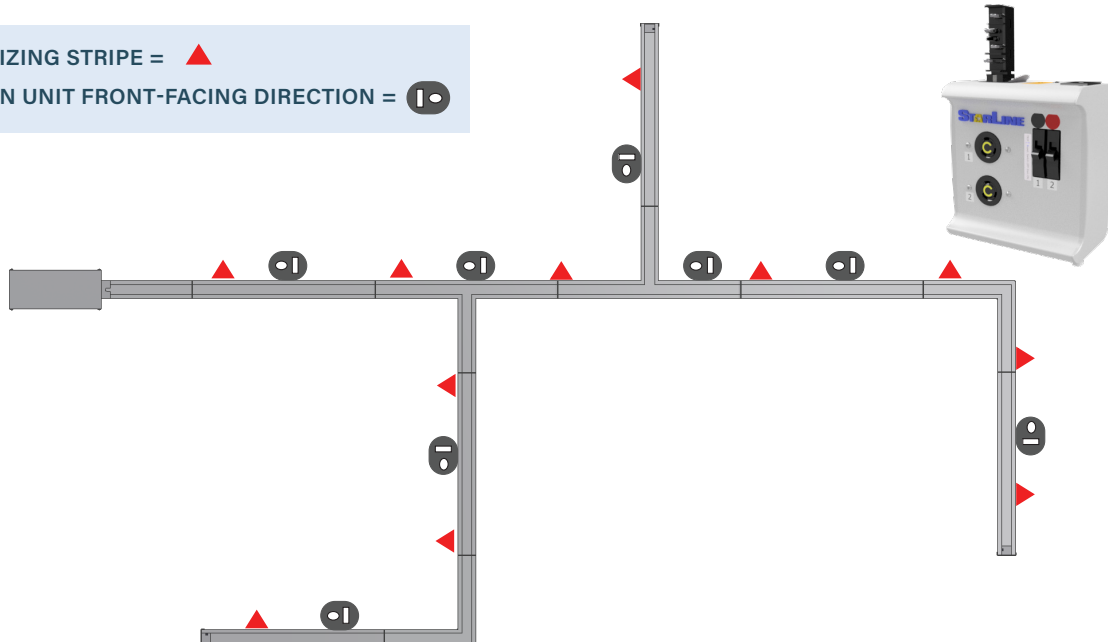
For example, if the face direction of a Starline plug-in unit is important in your installation consider that they will always face the conductor side. Certain plug-in units are 'reversible,' designated by 'R,' to face devices away from the conductor side.



All standard outlet boxes face the conductor side unless reversed plugs are specified

POLARIZING STRIPE = ▲

PLUG-IN UNIT FRONT-FACING DIRECTION = ⓘ



# T3 AND S3 SERIES BUSWAY

## SYSTEM LAYOUT TIPS

### POWER FEEDS

Determine location of power feeds based on relation to power source, existing feeders and voltage drop concerns for longer runs.

### SUPPORT HARDWARE

Support hardware is spaced no more than 10 feet apart. Refer to **page 3.39** for support hardware details. Contact your local Starline applications engineer for any questions.

### INSTALLATION

Printed installation drawings are supplied with each system shipment and they are also available for download online at [downloads.starlinepower.com](https://downloads.starlinepower.com). CAD files of these drawings are also available by contacting your local Starline applications engineer.

### BUSWAY HOUSING SECTIONS

Standard busway lengths are available in 5, 10 and 20 foot increments. Although the factory can cut individual Starline Track Busway sections to any length under 20 feet, it is highly recommended to keep all layout runs in increments of 5 feet to simplify layout and installation. Custom lengths can be made but can increase lead time and make layout and installation a bit more complex.

### BUSWAY TEES AND ELBOWS SECTIONS

Try to keep all runs as straight as possible as tees and elbows are added cost. Pay close attention to polarity on the elbows. The polarity will need to match the adjacent busway section(s) to be compatible.

LENGTH OF BUSWAY FOR A ONE VOLT DROP IN LINE TO LINE VOLTAGE:			
SYSTEM DESIGNATION	DISTRIBUTED LOAD	VOLTAGE DROP @ 0.8 PF SINGLE PHASE	VOLTAGE DROP @ 0.8 PF THREE PHASE
100T3 (standard)	100 amps	42 ft	72 ft
225T3 (standard)	225 amps	28 ft	48 ft

## T3 AND S3 SERIES BUSWAY

### SYSTEM LAYOUT TIPS

#### S3 INFORMATION:

Each piece of S3 housing components (straights and elbows) requires an S3 joint kit (containing two housing couplers, one bus connector, a joint seal, and two joint covers). Determine the total number of housing sections (regardless of length) as this becomes the number of joint kits that will be needed. Add one extra joint kit for each tee section. If this is your first installation for S3 systems, you will need to order an Installation Tool (ST3IT). Closure strip must also be ordered separately, and should match the total length of busway housing ordered.

**PLEASE NOTE:** All S3 Busway components are designed to work together to function as one complete IP54-rated system. When selecting system components, it is important that only S3 Busway components from this catalog are used together. Do not use any T3 components within this catalog. For technical questions related to these systems and/or specific applications, please contact our technical support team.

LENGTH OF BUSWAY FOR A ONE VOLT DROP IN LINE TO LINE VOLTAGE:			
SYSTEM DESIGNATION	DISTRIBUTED LOAD	VOLTAGE DROP @ 0.8 PF SINGLE PHASE	VOLTAGE DROP @ 0.8 PF THREE PHASE
100S3 (standard)	100 amps	42 ft	72 ft
225S3 (standard)	225 amps	28 ft	48 ft

# T3 AND S3 SERIES BUSWAY

## COMPONENT RELATIONSHIP TIPS

When ordering material, it is important to understand the relationship between various components.

### EXAMPLES

- Each piece of housing (straights and elbows) requires a joint kit (containing two housing couplers and one bus connector). Determine the total number of housing sections (regardless of length) as this becomes the number of joint kits that will be needed. Add one extra joint kit for each tee section.
- If this is your first installation for 100T3 or 225T3 systems, you will need to order an Installation Tool (ST3IT).

### GENERAL SUPPORT HARDWARE RULE TO FOLLOW:

10 feet maximum spacing between supports and we recommend 10% more than the required quantity to cover potential layout changes.

- Total Power Feeds and End Caps can be determined by counting the total number of unconnected runs.
- Before specifying or ordering Elbow or Tee connectors, it is important to understand polarity and the relationship to direction of outlets. Please refer to **page 3.5** Polarity Tips for more detail.

### S3 SYSTEM INFORMATION

All S3 components must be purchased and installed together to build a complete S3 System.

For the S3 system, please note the specific catalog numbering systems dedicated for these components. S3 system components will include the "S3" nomenclature in the "compatibility" field of the catalog number. 225S3 (standard)

The standard installation tool (ST3IT) can be used for both the T3 and S3 system.



# T3 AND S3 SERIES BUSWAY

## INGRESS PROTECTION

This table provides descriptions for the various Ingress Protection (IP) ratings as listed in IEC 60529. General T5 Busway is listed as IP2X. IP3X rated busway is available with additional accessories. Series - S Busway is available with an IP54 rating.

As the table indicates, for the IP54 rating the first number (5) pertains to the solid particle protection and the second (4) pertains to the level of protection from water. For purposes of real-world application of the Series-S busway system, please consider these general guidelines.

1. Splashproof and sprinkler proof; 2. Highly dust-resistant; 2. Not waterproof or watertight; 3. Not for outdoor use; 4. Not subject to direct exposure to natural elements, such as wind, rain, sun, ice, etc.

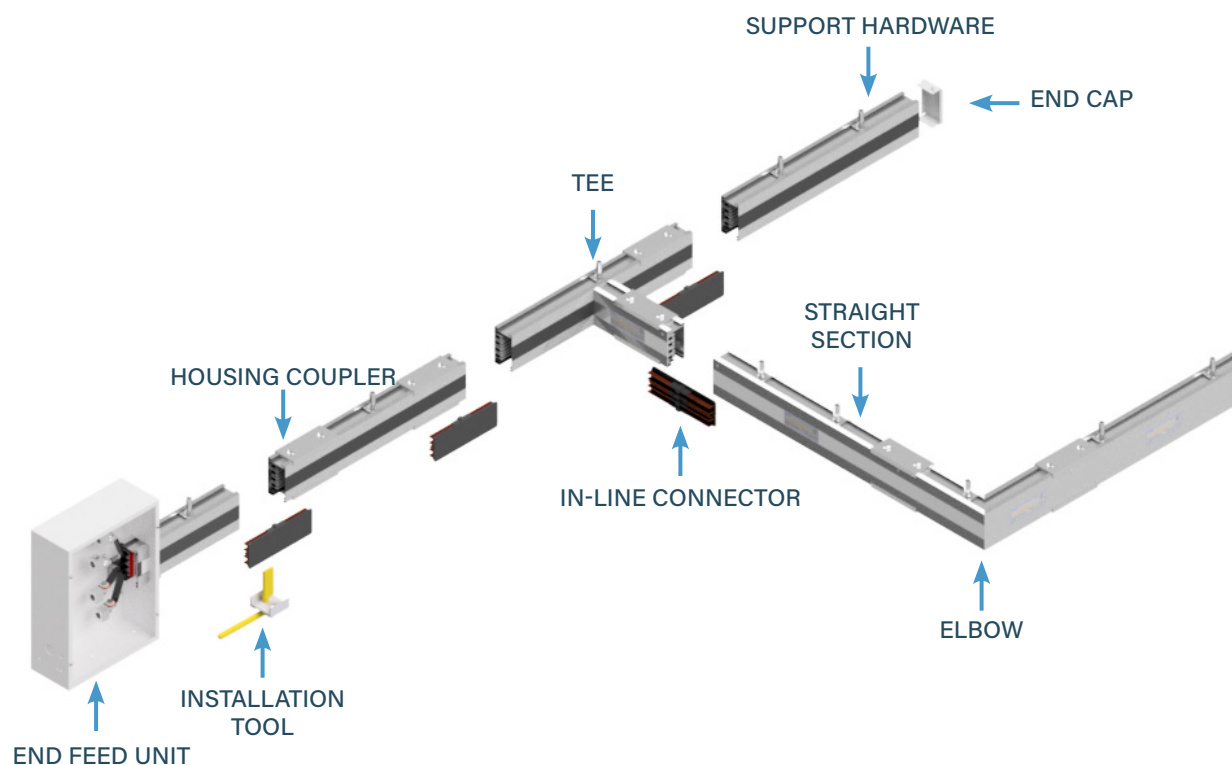
IP Rating Table

Solid Protection		Water Protection	
<b>0</b>	 Not protected.	<b>0</b>	 Not protected.
<b>1</b>	 Protected against solid objects greater than 50mm, such as a hand.	<b>1</b>	 Protected against vertical falling drops of water. Limited ingress permitted.
<b>2</b>	 Protected against solid objects greater than 12.5mm, such as a finger. Commonly called "Finger safe".	<b>2</b>	 Protected against diagonally falling water (up to 15 degrees). 10 minutes at a rate of 1 mm/min.
<b>3</b>	 Protected against solid objects greater than 2.5mm, such as a screwdriver.	<b>3</b>	 Protected against sprays of water up to 60 degrees from the vertical. Limited ingress permitted.
<b>4</b>	 Protected against solid objects greater than 1mm, such as a wire.	<b>4</b>	 Protected against water splashes from all directions. Limited ingress permitted.
<b>5</b>	 Dust protected. Limited ingress of dust permitted. Will not interfere with operation of the equipment.	<b>5</b>	 Protected against jets of water. Limited ingress permitted.
<b>6</b>	 Dust tight. No ingress of dust.	<b>6</b>	 Protected against power jets of water. Limited ingress permitted.
		<b>7</b>	 Watertight. Protected against the effects of immersion in water between 15cm and 1m for 30 minutes.
		<b>8</b>	 Watertight against the effects of immersion in water under pressure for long periods.

Ratings in accordance with the International Electrotechnical Commission (IEC) - 60529,  
Degrees of Protection Provided by Enclosures (IP Code)

# T3 SERIES

## SYSTEM LAYOUT DRAWING

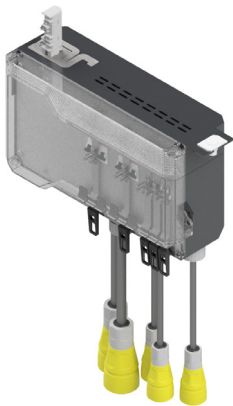
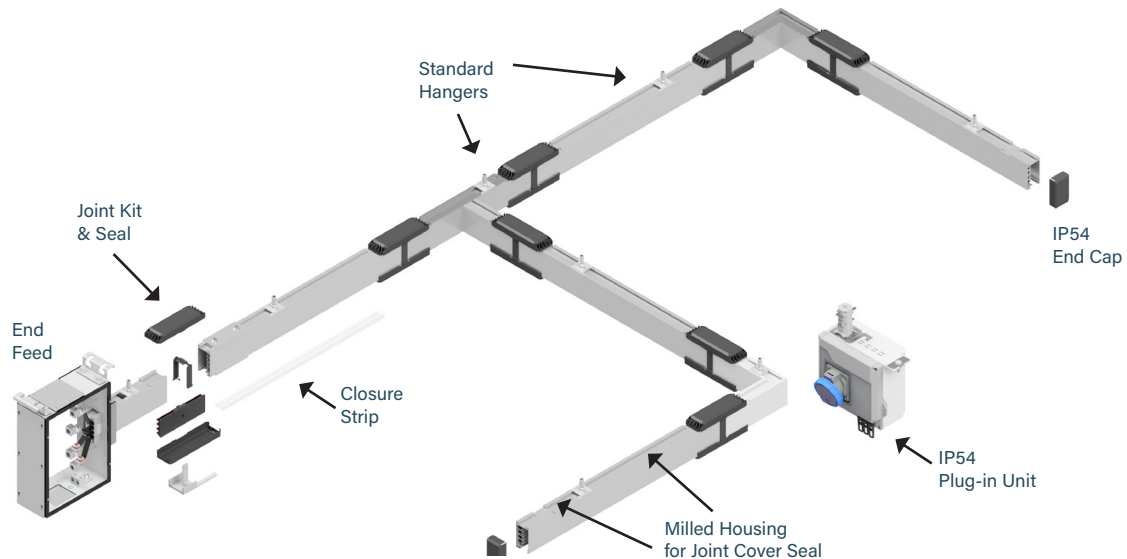


### T3 PLUG-IN UNITS

See page **3.55** for further information on applicable T3 plug-in unit options.

# S3 SERIES

## SYSTEM LAYOUT DRAWING



### S3 PLUG-IN UNITS

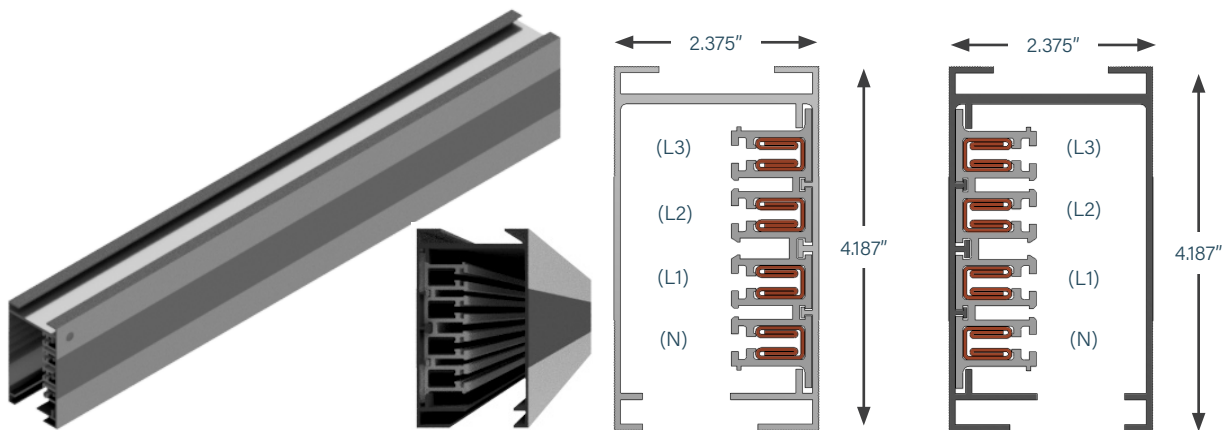
See enclosure style options page 3.76 for more information on applicable plug-in units.

# 100 AMP SYSTEMS

## STRAIGHT SECTIONS

### ■ PRODUCT DESCRIPTION

Track Busway straight section consists of an extruded aluminum shell with channel type solid copper busbars contained in a full length insulator mounted on one side of the interior wall. Each straight has an open access slot over its entire length for the insertion of turn-n-lock plug-in units. Housing configuration is 4 pole, 600 Volt. Busway joint connections are made using a joint kit, which includes a housing coupler and bus connector. An installation tool is used to insert the bus connector in between the busbar channels of the two sections for a solid spring-tempered electrical connection. A housing coupler is then used to make a solid mechanical connection.



#### MATERIAL

Extruded Aluminum

**Note:** S3 housing includes corrosion resistant base coating

#### RATINGS

100% Ground Path

US: 100 Amp, 600 Volt

Metric: 160 Amp, 415 Volt

#### LENGTH

T3: 5 ft, 10 ft, 20 ft; or custom lengths between 2 - 20 ft

S3: 5 ft, 10 ft max. Consult factory for additional lengths

#### VOLTAGE DROP

Distributed load

Single Phase 1V per 54 ft (.8PF)

Three Phase 1V per 62 ft (.8PF)

#### WEIGHT






10 ft 4 pole: 26 lbs

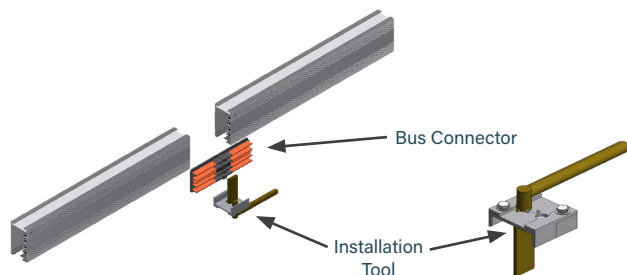
10 ft 4 pole w/ ground: 30 lbs

10 ft 4 pole w/ 200% N: 33 lbs

10 ft 4 pole w/ ground & 200% N: 34 lbs

#### US

L1 or Phase A		Black
L2 or Phase B		Red
L3 or Phase C		Blue
Neutral		White
Ground		Green/Black





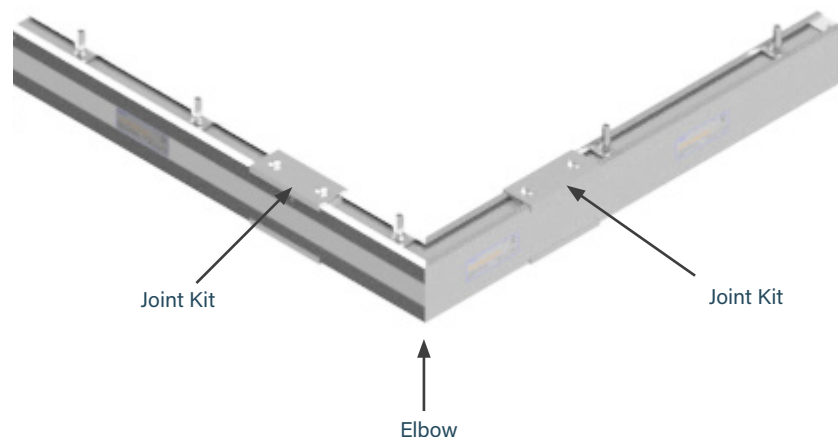
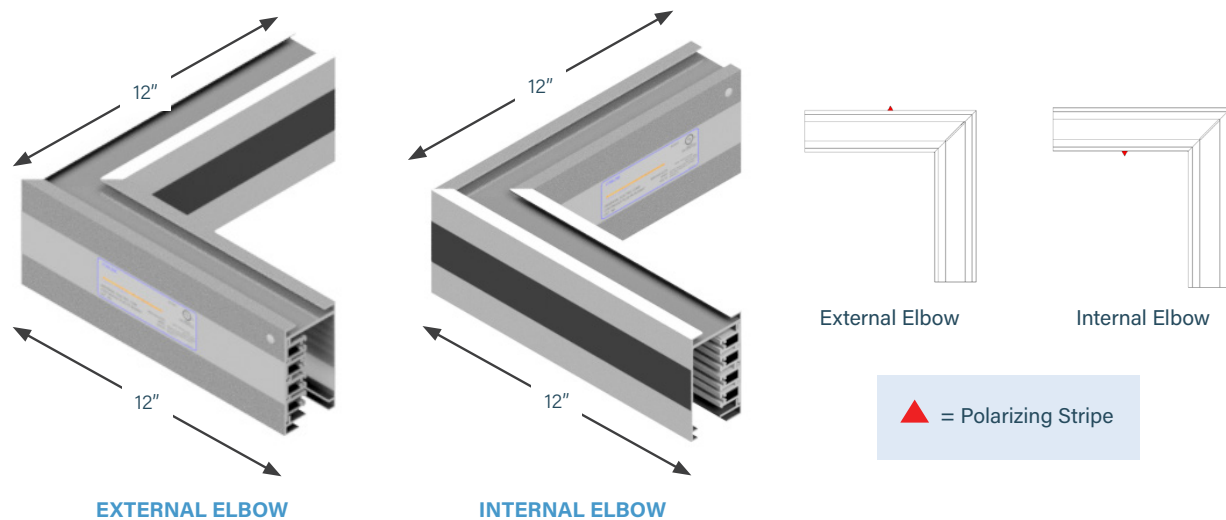
# 100 AMP SYSTEMS

## ELBOW SECTIONS

### ■ PRODUCT DESCRIPTION

Elbows are used for making a 90 degree in a busway run. Horizontal elbows are available. Specify external or internal elbow according to the orientation of the busbars in the busway sections to be connected. Elbow sections are connected to adjacent busway sections using an installation tool and joint kit that includes a housing coupler and bus connector (ordered separately). This handles both the mechanical and electrical connection between a straight section and elbow section of busway.

**Weight** 5.6 lbs



## ELBOW SECTIONS: PRODUCT NUMBERS

U	E	100	T3	C	4	S	-	IN
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction
			-	STD	0			
			9. Paint Color	10. Tape Marking				

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	
<b>2. Product Type</b> <i>(section component)</i> <b>E</b> Elbow Section	
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>100</b> 100 amps	
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T3</b> T3 System <b>S3</b> S3 System	
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper	
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral <b>G</b> 3 Phase plus Neutral plus Internal Ground Conductor <b>N</b> 3 Phase plus 200% Neutral <b>F</b> 3 Phase plus 200% Neutral plus Internal Ground Conductor	
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard	
<b>8. Turning Direction</b> <i>(direction of section polarizing stripe)</i> <b>IN</b> Internal <b>EX</b> External <b>HN</b> Seismic Internal <b>GX</b> Seismic External	
<b>9. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD</b> Factory Mill Finish <b>RED</b> Paint Factory Red <b>BLK</b> Paint Factory Black <b>BLU</b> Paint Factory Blue <b>WHT</b> Paint Factory White <b>**RAL</b> <i>(please see page 3.38)</i> <b>NOTE:</b> All Series-S housings include a clear corrosion resistant base coating, regardless of paint color selection.	
<b>10. Tape Marking</b> <i>(colored tape on both sides of busway housing)</i> <b>0</b> No Tape Marking <b>7</b> Tape Factory Blue <b>3</b> Tape Factory Black <b>8</b> Tape Factory Green <b>4</b> Tape Factory White <b>9</b> Tape Factory Yellow <b>6</b> Tape Factory Red	

UE100T3CNS-EX-STD0 = US System, Elbow Section, 100 amps, T3 System, Copper Conductor, 3 Phase plus 200% Neutral, Standard Polarization, External Turning Direction, Factory Mill Finish, No Tape Marking

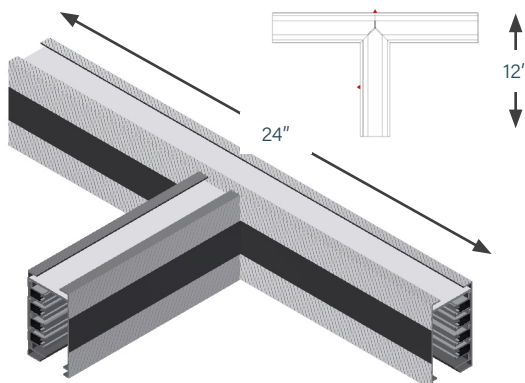
# 100 AMP SYSTEMS

## TEE SECTIONS

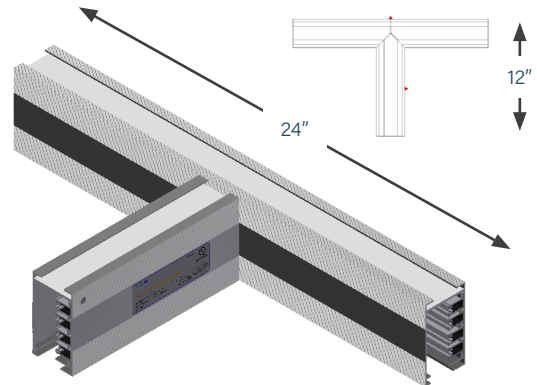
### ■ PRODUCT DESCRIPTION

Tee sections are used for creating a 90 degree branch leg in a busway run. When laying out a system, specify the correct busbar orientation of the tee. Indicate right or left, external or internal busbars. External tees are preferred. Tee sections are connected to adjacent busway sections using an installation tool and joint kit that includes a housing coupler and bus connector (ordered separately). This handles both the mechanical and electrical connection between a straight section and tee section of busway.

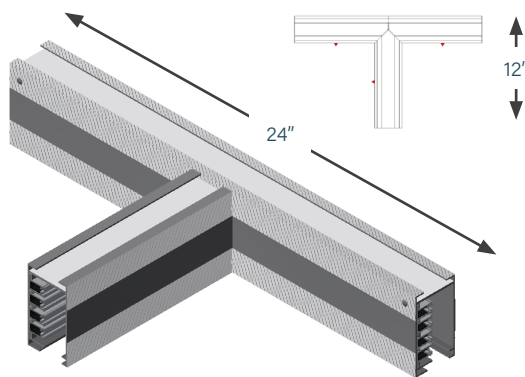
**Weight** 8 lbs



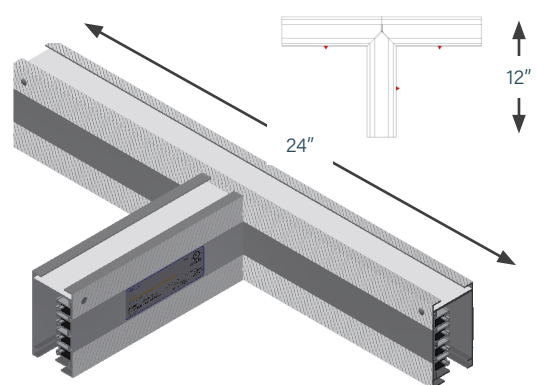
**EXTERNAL-LEFT (EL)**



**EXTERNAL-RIGHT (ER)**



**INTERNAL-LEFT (IL)**



**INTERNAL-RIGHT (IR)**

▲ = Polarizing Stripe



# 100 AMP SYSTEMS

## TEE SECTIONS: PRODUCT NUMBERS

<b>U</b>	<b>T</b>	<b>100</b>	<b>T3</b>	<b>C</b>	<b>4</b>	<b>S</b>	<b>-</b>	<b>IR</b>
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/Ground Busbar	7. Polarization		8. Turning Direction
							<b>-</b>	
							<b>STD</b>	
								<b>0</b>
							9. Paint Color	10. Tape Marking

### 1. System (standard of measure)

**U** US

### 2. Product Type (section component)

**T** Tee Section

### 3. Product Frame (maximum amperage)

**100** 100 amps

### 4. Compatibility (frame compatibility)

**T3** T3 System **S3** S3 System

### 5. Material (busbar material)

**C** Copper

### 6. Neutral/Ground Busbar (size of neutral busbar and/or ground)

**4** 3 Phase plus Neutral **G** 3 Phase plus Neutral plus Internal Ground Conductor

**N** 3 Phase plus 200% Neutral **F** 3 Phase plus 200% Neutral plus Internal Ground Conductor

### 7. Polarization (orientation of section for mating purposes)

**S** Standard

### 8. Turning Direction (direction of section polarizing stripe)

<b>IL</b> Internal-Left	<b>EL</b> External-Left
<b>IR</b> Internal-Right	<b>ER</b> External-Right
<b>HL</b> Seismic Internal-Left	<b>GL</b> Seismic External-Left
<b>HR</b> Seismic Internal-Right	<b>GR</b> Seismic External-Right

### 9. Paint Color (allows painting of the busway housing)

<b>STD</b> Factory Mill Finish	<b>RED</b> Paint Factory Red
<b>BLK</b> Paint Factory Black	<b>BLU</b> Paint Factory Blue
<b>WHT</b> Paint Factory White	<b>**RAL</b> (please see page 3.38)

**NOTE:** All Series-S housings include a clear corrosion resistant base coating, regardless of paint color selection.

### 10. Tape Marking (colored tape on both sides of busway housing)

<b>0</b> No Tape Marking	<b>7</b> Tape Factory Blue
<b>3</b> Tape Factory Black	<b>8</b> Tape Factory Green
<b>4</b> Tape Factory White	<b>9</b> Tape Factory Yellow
<b>6</b> Tape Factory Red	

## EXAMPLES

**UT100T3C4S-IR-RED0** = US System, Tee Section, 100 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning Direction, Painted Factory Red, No Tape Marking

**UT100T3CGS-EL-STD0** = US System, Tee Section, 100 amps, T3 System, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External-Left Turning Direction, Factory Mill Finish, No Tape Marking

# 100 AMP SYSTEMS

## END FEED UNITS

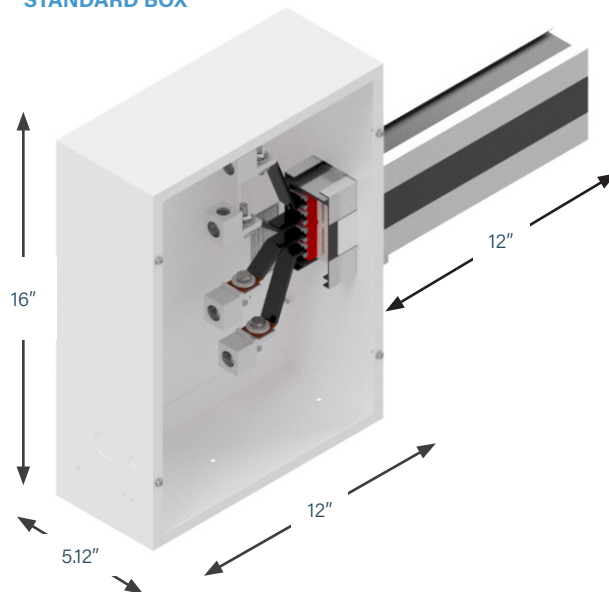
### ■ PRODUCT DESCRIPTION

End power feed units connect to the end of the busway. A large size, factory assembled unit consists of a steel junction box, with removable sides, connected to a 12 inch section of busway. The assembly includes connection lugs, a ground lug and shrink tubing for wires up to 300 MCM.

End power feed units are connected to adjacent busway sections using an installation tool and housing coupler set (ordered separately).

Special need power feed units for confined spaces as found in mission critical data centers can also be designed and fabricated requiring minimum quantities.

#### STANDARD BOX



Top View

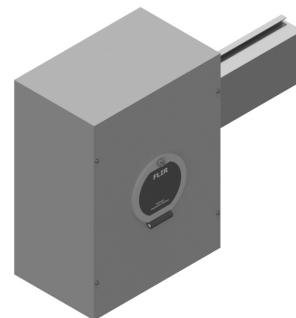
standard orientation



reversed orientation

#### INFRARED (IR) WINDOW OPTIONS:

Refer to option 10. Accessories Package on **page 3.21** End Feed Units: Product Numbers

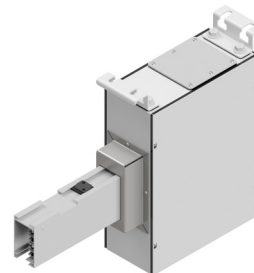


Large box with circular IR window

	BOXES		
LUGS	Standard	Large	Fused
Standard	<b>S</b>	<b>L</b>	
Double	<b>D</b>	<b>A</b>	
Bolt			

Box size and Lug options: Refer to option 8. Lug/Box Options on **page 3.21** End Feed Units: Product Numbers

\*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on [downloads.starlinepower.com/starline/busway](https://downloads.starlinepower.com/starline/busway)



100S3 End Feed

# 100 AMP SYSTEMS

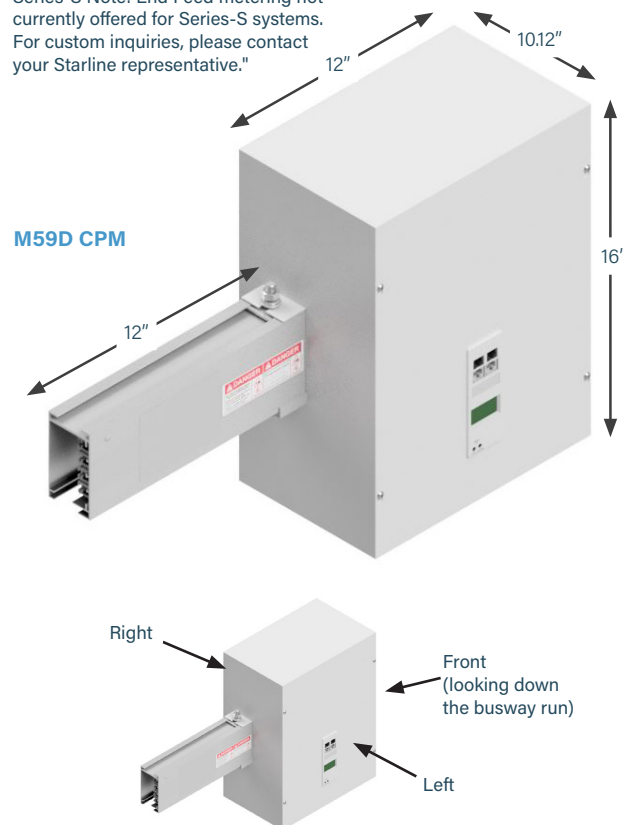
## END FEED UNITS: METERING

### PRODUCT DESCRIPTION

Standard end power feed units connect to the end of the busway. A factory assembled unit consists of a steel junction box, with removable sides, connected to a 12 inch section of busway. The assembly includes connection lugs, a ground lug, and shrink tubing for wires up to 300 MCM.

Integral CPM installed in the end feed provides power monitoring and alarm capabilities. The M50 models are for AC busway, while the M60 models are for DC busway. Nuisance tripping may be avoided using the current information to protect against overloading phases. The monitors also assist in the continuous challenge to balance the three phase loads. An automated email will be sent at 80% of full load as a warning to the user. This level may be changed in the field using the integrated webpage.

Series-S Note: End Feed metering not currently offered for Series-S systems. For custom inquiries, please contact your Starline representative."



\*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on **page 3.21** End Feed Units: Product Numbers)

#### AC END FEED METER OPTIONS

- M51** Single Eth./WiFi,  $\leq 480V$  Y,  $\leq 277V$   $\Delta$
- M53** Single Eth./No WiFi,  $\leq 480V$  Y,  $\leq 277V$   $\Delta$
- M58** Dual Eth.,  $\leq 480V$  Y,  $\leq 277V$   $\Delta$
- M59** Dual Eth./Dual Modbus,  $\leq 480V$  Y,  $\leq 277V$   $\Delta$

#### DC END FEED METER OPTIONS

- M61** Single Eth./WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M63** Single Eth./No WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M67** Dual Eth., single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M69** Dual Eth./Dual Modbus, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

BOX/LUGS OPTION	1 Meter or Accessory	1 Meter & 1 Accessory (opposite lids)
(S) Standard Box, Standard Lugs		
(L) Large Box, Standard Lugs	X	X
(D) Standard Box, Double Lugs		
(A) Large Box, Double Lugs	X	X

\*Large box with one meter or accessory is 7.62" deep, and large box with one meter and accessory (on opposite lids) extends the depth to 10.12"

\*Any metering configuration that includes temperature monitoring will require a box depth of 10.12"

A meter and accessory can not be on the same lid.

# 100 AMP SYSTEMS

## END FEED UNITS: ACCESSORIES

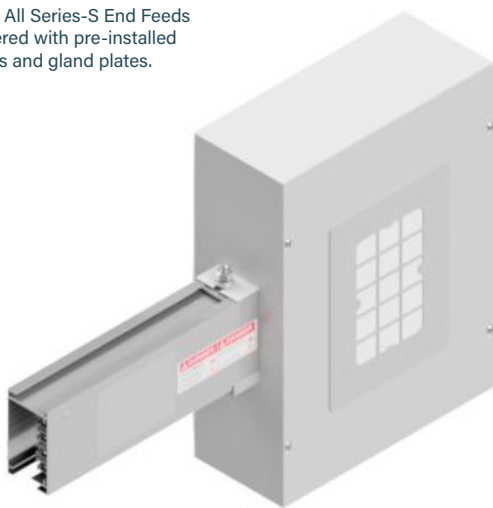
### ■ IR WINDOWS

Starline Track Busway Polymer IR Window systems use a proprietary stack-up of advanced materials to ensure highest levels of safety and optimal infrared thermography of critical connections.

When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

Safely and accurately scan connection points while the system is under load, without exposing the operator to live connections.

Notes: All Series-S End Feeds are offered with pre-installed hangers and gland plates.



Note: Rectangular IR window option not available for Series-S systems. See S3 end feed accessories package for more information.

### FEATURES & BENEFITS

- Allows for safe IR scanning without powering down busway
- Complete system coverage with IR windows for plug-in units and end feeds
- End feed IR windows designed in 2 sizes for optimized viewing angles
- Cost effective design allows for quick end user ROI
- ETL Listed, CE Marked
- Lower TCO
- Enhanced safety
- Effective preventative maintenance

### GENERAL SPECIFICATIONS

Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Aluminum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T3); IP54 (S3)
Max Operating Temperature	125°C

### WINDOW DIMENSIONS

End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 500A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17, M50 Options on **page 3.22** End Feed Units: Product Numbers)

(Refer to option 10, Accessories Package on **page 3.21** End Feed Units: Product Numbers)

## END FEED UNITS: PRODUCT NUMBERS

<b>U</b>	<b>F</b>	<b>100</b>	<b>T3</b>	<b>C</b>	<b>4</b>	<b>S</b>	<b>-</b>	<b>S</b>	<b>N</b>	<b>S</b>	<b>N</b>
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/Ground Busbar	7. Polarization		8. Lug/Box Options	9. Meter Location	10. Accessories Package	11. Accessories Location
<p><b>- 0100 C - STD 0 - M59 S 1</b> <i>*Optional</i></p>											
		12. Straight Length	13. Busway Access	14. Paint Color	15. Tape Marking	*16. Meter Release		*17. Meter Options		*18. System Config. and CT Type	

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	
<b>2. Product Type</b> <i>(section component)</i> <b>F</b> End Feed	
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>100</b> 100 amps	
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T3</b> T3 System <b>S3</b> S3 System	
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper	
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral <b>G</b> 3 Phase plus Neutral plus Internal Ground Conductor <b>N</b> 3 Phase plus 200% Neutral <b>F</b> 3 Phase plus 200% Neutral plus Internal Ground Conductor	
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard <b>R</b> Reversed	
<b>8. Lug/Box Options</b> <i>(standard/double/bolt lugs and box size)</i> <b>S</b> Standard lugs, Standard box <b>D</b> Double lugs, Standard box <b>L</b> Standard lugs, Large box <b>A</b> Double lugs, Large box	
<b>9. Meter Location</b> <i>(from the terminal, side with removable lid; meter must follow lid orientation on large box)</i> <b>R</b> Right <b>L</b> Left <b>N</b> None (N/A)	
<b>10. Accessories Package</b> <i>(optional accessories for feed units)</i> <b>T3 Options:</b> <b>S</b> Standard <b>G</b> Starline Rect. IR Window, 5"x7" <b>C</b> IR Window - Circular <b>O</b> Seismic Mounting Holes <b>D</b> Seismic with IR Window Circular <b>Q</b> Seismic with IR Window Rectangular  <b>S3 Options:</b> <b>F</b> S3 Standard (includes hangars and gland plates) <b>B</b> S3 Standard + IR Window - Circular	
<b>11. Accessories Location</b> <i>(from the terminal, side with accessory)</i> <b>N</b> None (N/A) <b>R</b> Right <b>L</b> Left <b>F</b> Front (consult the factory)	
<b>12. Straight Length</b> <i>(length of section)</i> <b>0100</b> 1 ft. <i>(For other lengths, consult the factory)</i>	
<b>13. Busway Access</b> <b>C</b> Continuous	
<b>14. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD</b> Factory Mill Finish <b>RED</b> Paint Factory Red <b>BLK</b> Paint Factory Black <b>BLU</b> Paint Factory Blue <b>WHT</b> Paint Factory White <b>**RAL</b> <i>(please see page 3.38)</i>	
<b>15. Tape Marking</b> <i>(colored tape on both sides of busway housing)</i> <b>0</b> No Tape Marking <b>7</b> Tape Factory Blue <b>3</b> Tape Factory Black <b>8</b> Tape Factory Green <b>4</b> Tape Factory White <b>9</b> Tape Factory Yellow <b>6</b> Tape Factory Red	



# 100 AMP SYSTEMS

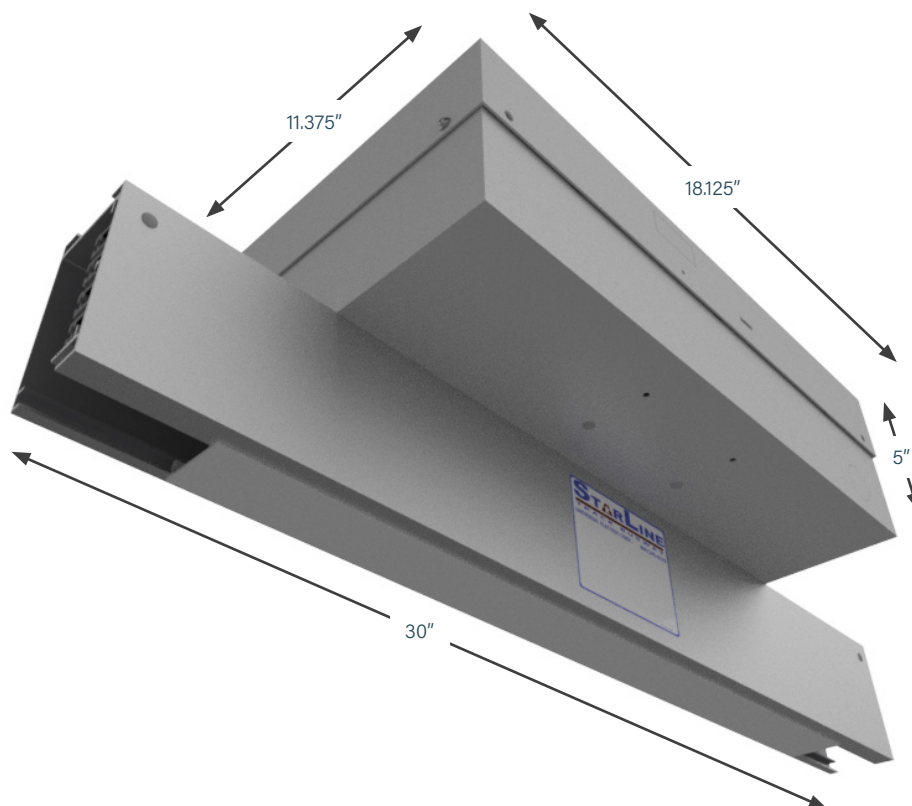
## ABOVE FEED UNITS

### ■ PRODUCT DESCRIPTION

The above feed power unit comes as a completely pre-wired steel box to the top of a 30 inch section of busway. A connection lug is located inside the box for field termination of supply power cable up to 1/0. This unit is then connected to the end of an adjoining busway section using an installation tool and set of housing couplers (ordered separately).

**Weight** 16.5 lbs

\*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on [downloads.starlinepower.com/starline/busway](https://downloads.starlinepower.com/starline/busway)



# 100 AMP SYSTEMS

## ABOVE FEED UNITS: PRODUCT NUMBERS

U	A	100	T3	C	4	S	-	S	N	S	N
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/Ground Busbar	7. Polarization	8. Lug/Box Options	9. Meter Location	10. Accessories Package	11. Accessories Location	
-	0206	C	015	-	STD	0	-	M59	S	1	*Optional
	12. Straight Length	13. Busway Access	14. Feed Location	15. Paint Color	16. Tape Marking	*17. Meter Release	*18. Meter Options	*19. System Config. and CT Type			

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>12. Straight Length</b> <i>(length of section)</i> <b>0206</b> 2 feet, 6 inches
<b>2. Product Type</b> <i>(section component)</i> <b>A</b> Above Feed	<b>13. Busway Access</b> <i>(how plugs access the busway)</i> <b>C</b> Continuous
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>100</b> 100 amps	<b>14. Feed Location</b> <i>(location of the center of the top feed)</i> <b>015</b> 15 inches <i>(For other lengths, consult the factory)</i>
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T3</b> T3 System <b>S3</b> S3 System	<b>15. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD</b> Factory Mill Finish <b>RED</b> Paint Factory Red <b>BLK</b> Paint Factory Black <b>BLU</b> Paint Factory Blue <b>WHT</b> Paint Factory White <b>**RAL</b> <i>(please see page 3.38)</i>
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper	<b>16. Tape Marking</b> <i>(colored tape on both sides of busway housing)</i> <b>0</b> No Tape Marking <b>7</b> Tape Factory Blue <b>3</b> Tape Factory Black <b>8</b> Tape Factory Green <b>4</b> Tape Factory White <b>9</b> Tape Factory Yellow <b>6</b> Tape Factory Red
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral <b>G</b> 3 Phase plus Neutral plus Internal Ground Conductor <b>N</b> 3 Phase plus 200% Neutral <b>F</b> 3 Phase plus 200% Neutral plus Internal Ground Conductor	<b>*17. Meter Release</b> <i>(M50 Series Meters)</i> <b>M51</b> Single Eth./WiFi, ≤480V Y, ≤277V Δ <b>M53</b> Single Eth./No WiFi, ≤480V Y, ≤277V Δ <b>M58</b> Dual Eth., ≤480V Y, ≤277V Δ <b>M59</b> Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard <b>R</b> Reversed	<b>*18. Meter Options</b> <i>(choose from a 4.1" display, measured neutral, audible alarm and/or a temperature monitor)</i> <b>S</b> Standard (M60s also) <b>N</b> (Measured) Neutral <b>D</b> Display (M60s also) <b>P</b> Professional (D+N))
<b>8. Lug/Box Options</b> <i>(standard/double/bolt lugs and box size)</i> <b>S</b> Standard lugs, Standard box <b>L</b> Standard lugs, Large box	<b>*19. System Configuration and CT Type</b> <i>(line-line or line-neutral and wye or delta systems)</i> <b>1</b> LLD - Standard, Milivolt <b>K</b> LLD - SC, 5A <b>3</b> LNY - Standard, Milivolt <b>M</b> LNY - SC, 5A
<b>9. Meter Location</b> <i>(from the terminal, side with removable lid; meter must follow lid orientation on large box)</i> <b>R</b> Right <b>L</b> Left <b>N</b> None (N/A)	
<b>10. Accessories Package</b> <i>(optional accessories for feed units)</i> <b>S</b> Standard	
<b>11. Accessories Location</b> <i>(from the terminal, side with removable lid)</i> <b>N</b> None (N/A)	

### EXAMPLE

**UA100T3CFS-LNSN-0206C015-STD0** = US System, Above Feed, 100 amps, T3 System, Copper Conductor, 3 Phase plus 200% Neutral plus Internal Ground Conductor, Standard Polarization, Standard Lugs, Large Box, No Lid Orientation, Standard Accessory Package, No Accessory Location- 2 foot 6 inch Straight Length, Continuous Busway Access, 15 inch Feed Location, Factory Mill Finish, No Tape Marking

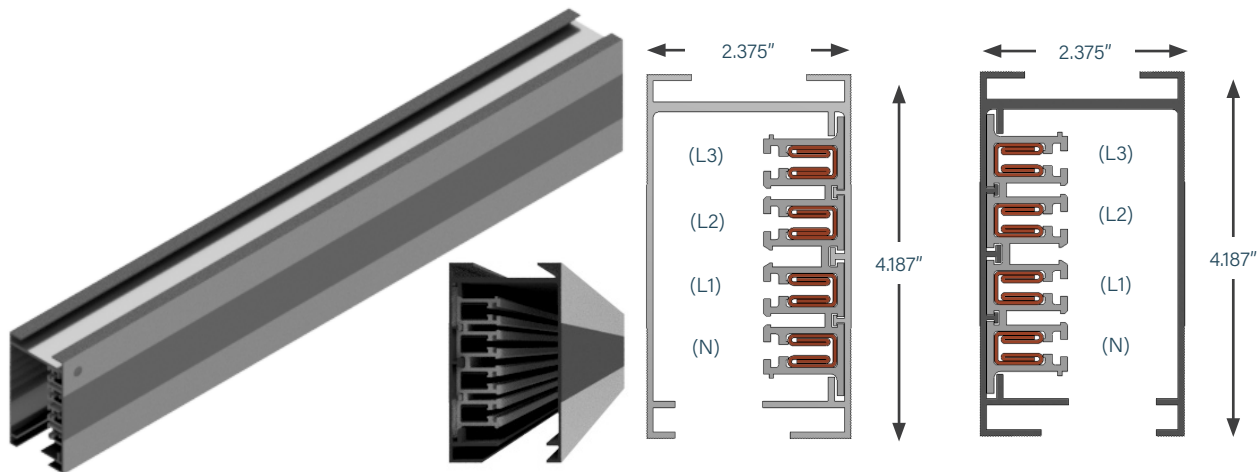


# 225 AMP SYSTEMS






## STRAIGHT SECTIONS

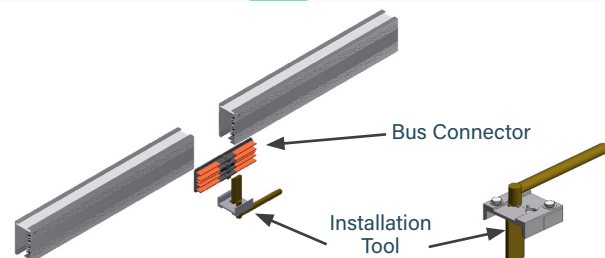
### PRODUCT DESCRIPTION

Track Busway straight section consists of an extruded aluminum shell with channel type solid copper busbars contained in a full length insulator mounted on one side of the interior wall. Each straight has an open access slot over its entire length for the insertion of turn-n-lock plug-in units. Housing configuration is 4 pole, 600 Volt. Busway joint connections are made using a joint kit, which includes a housing coupler and bus connector. An installation tool is used to insert the bus connector in between the busbar channels of the two sections for a solid spring-tempered electrical connection. A housing coupler is then used to make a solid mechanical connection.



MATERIAL
Extruded Aluminum <b>Note:</b> S3 housing includes corrosion resistant finish
RATINGS
100% Ground Path 225 Amp, 600 Volt
LENGTH
5 ft, 10 ft, 20 ft; or custom lengths between 2 - 20 ft S3: 5ft, 10 ft max. Consult factory for additional lengths
VOLTAGE DROP
Distributed load Single Phase 1V per 28 ft (.8PF) Three Phase 1V per 48 ft (.8PF)
WEIGHT
10 ft 4 pole: 33 lbs

US		
L1 or Phase A		Black
L2 or Phase B		Red
L3 or Phase C		Blue
Neutral		White
Ground		Green/Black



## STRAIGHT SECTIONS: PRODUCT NUMBERS

1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	8. Straight	9. Busway
				10. Paint Color	11. Tape Marking			

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>9. Busway Access</b> <i>(how plugs access the busway)</i> <b>C</b> Continuous
<b>2. Product Type</b> <i>(section component)</i> <b>S</b> Straight Section	<b>10. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD</b> Factory Mill Finish <b>RED</b> Paint Factory Red <b>BLK</b> Paint Factory Black <b>BLU</b> Paint Factory Blue <b>WHT</b> Paint Factory White <b>**RAL</b> <i>(please see page 3.38)</i>
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>225</b> 225 amps	<b>NOTE:</b> All Series-S housings include a clear corrosion resistant base coating, regardless of paint color selection.
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T3</b> T3 System	<b>11. Tape Marking</b> <i>(colored tape on both sides of busway housing)</i> <b>0</b> No Tape Marking <b>7</b> Tape Factory Blue <b>3</b> Tape Factory Black <b>8</b> Tape Factory Green <b>4</b> Tape Factory White <b>9</b> Tape Factory Yellow <b>6</b> Tape Factory Red
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper	
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral	
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard	
<b>8. Straight Length</b> <i>(length of section)</i> <b>XXYY</b> XX=feet, YY=inches	

**US225T3C4S-1000C-P013** = US System, Straight Section, 225 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 10 foot Straight Length, Continuous Busway Access, Painted RAL 1001, Factory Black Tape

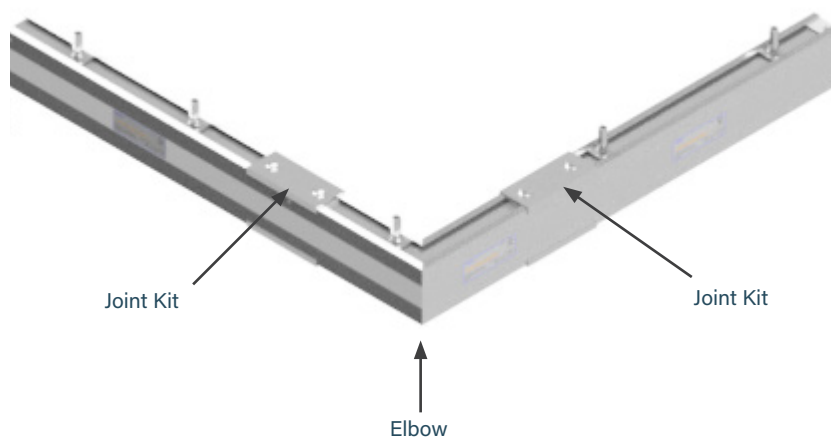
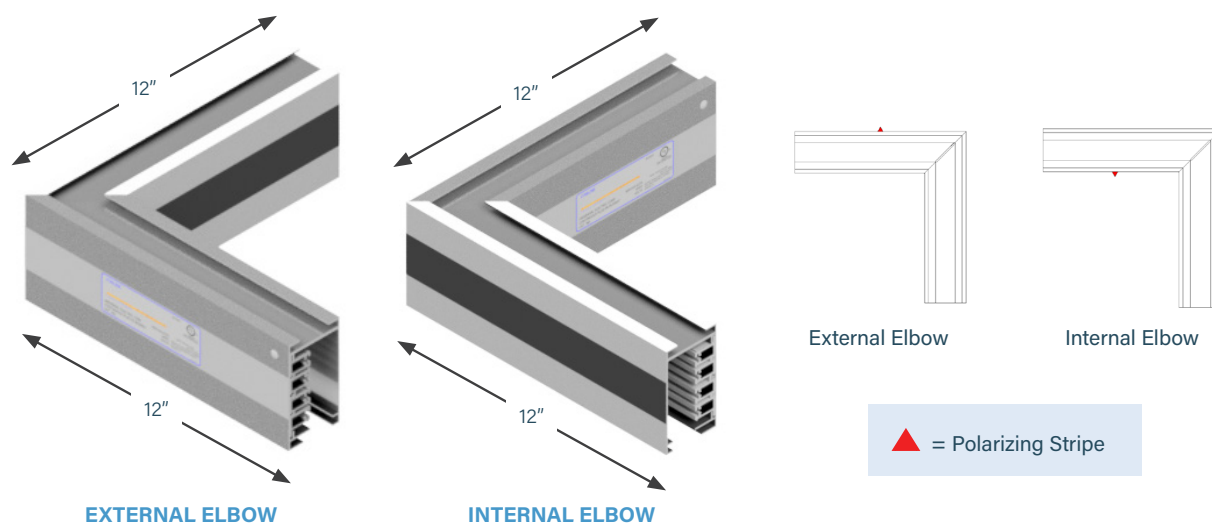
# 225 AMP SYSTEMS

## ELBOW SECTIONS

### ■ PRODUCT DESCRIPTION

Elbows are used for making a 90 degree in a busway run. Horizontal elbows are available. Specify external or internal elbow according to the orientation of the busbars in the busway sections to be connected. Elbow sections are connected to adjacent busway sections using an installation tool and joint kit that includes a housing coupler and bus connector (ordered separately). This handles both the mechanical and electrical connection between a straight section and elbow section of busway.

**Weight** 5.5 lbs



## ELBOW SECTIONS: PRODUCT NUMBERS

U	E	225	T3	C	4	S	-	IN
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction
			-	STD	0			
			9. Paint Color	10. Tape Marking				

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US		<b>8. Turning Direction</b> <i>(direction of section polarizing stripe)</i> <b>IN</b> Internal <b>EX</b> External <b>HN</b> Seismic Internal <b>GX</b> Seismic External	
<b>2. Product Type</b> <i>(section component)</i> <b>E</b> Elbow Section		<b>9. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD</b> Factory Mill Finish <b>RED</b> Paint Factory Red <b>BLK</b> Paint Factory Black <b>BLU</b> Paint Factory Blue <b>WHT</b> Paint Factory White <b>**RAL</b> <i>(please see page 3.38)</i>	
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>225</b> 225 amps		<b>NOTE:</b> <i>All Series-S housings include a clear corrosion resistant base coating, regardless of paint color selection.</i>	
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T3</b> T3 System <b>S3</b> S3 System		<b>10. Tape Marking</b> <i>(colored tape on both sides of busway housing)</i> <b>0</b> No Tape Marking <b>7</b> Tape Factory Blue <b>3</b> Tape Factory Black <b>8</b> Tape Factory Green <b>4</b> Tape Factory White <b>9</b> Tape Factory Yellow <b>6</b> Tape Factory Red	
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper			
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral			
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard			

**UE225T3C4S-IN-PH40** = US System, Elbow Section, 225 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning  
Direction: Painted RAL 5014, No Tape Marking

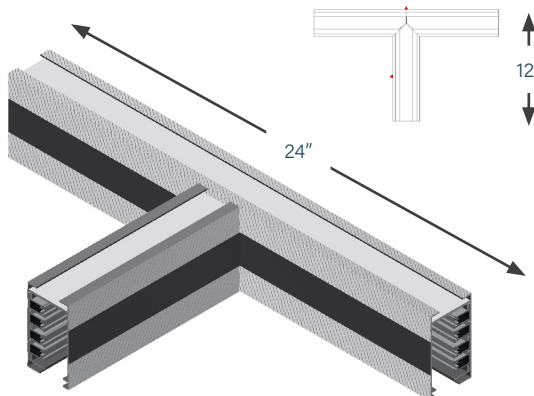
# 225 AMP SYSTEMS

## TEE SECTIONS

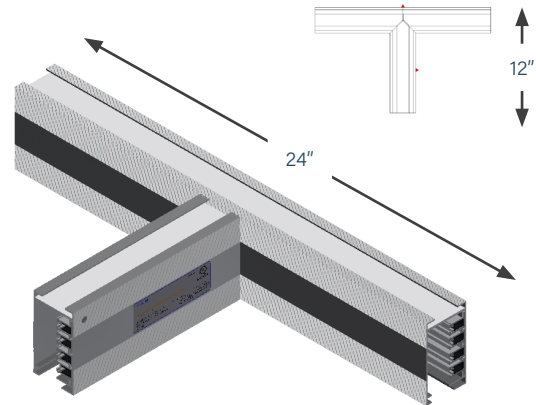
### ■ PRODUCT DESCRIPTION

Tee sections are used for creating a 90 degree branch leg in a busway run. When laying out a system, specify the correct busbar orientation of the tee. Indicate right or left, external or internal busbars. External tees are preferred. Tee sections are connected to adjacent busway sections using an installation tool and joint kit that includes a housing coupler and bus connector (ordered separately). This handles both the mechanical and electrical connection between a housing section and tee section of busway.

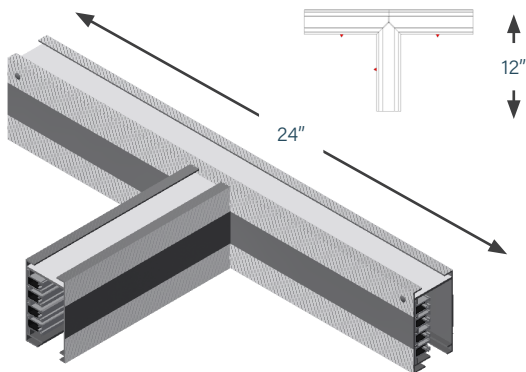
**Weight** 9.2 lbs



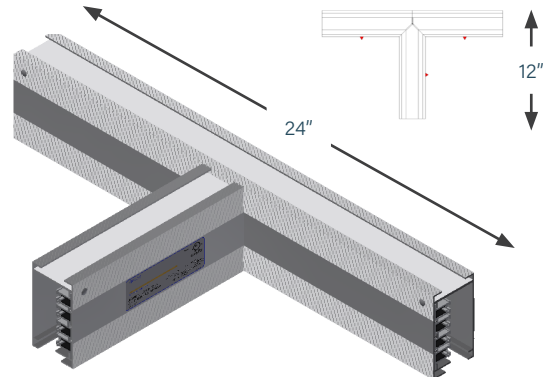
EXTERNAL-LEFT (EL)



EXTERNAL-RIGHT (ER)



INTERNAL-LEFT (IL)



INTERNAL-RIGHT (IR)

▲ = Polarizing Stripe



# 225 AMP SYSTEMS

## END FEED UNITS

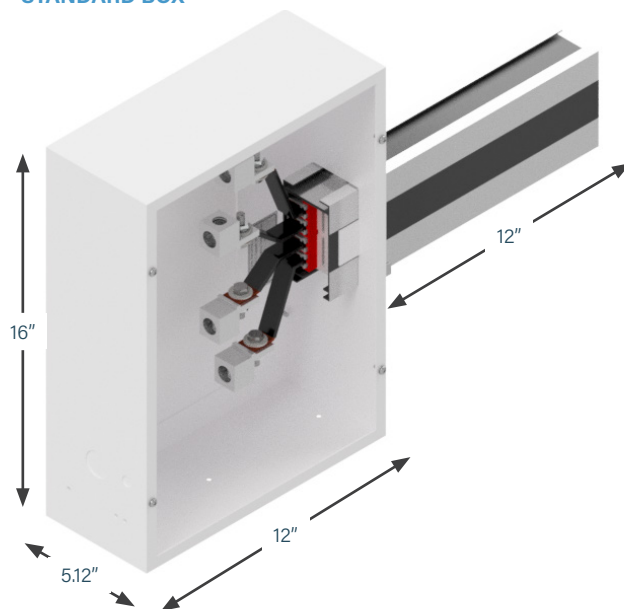
### ■ PRODUCT DESCRIPTION

Standard end power feed units connect to the end of the busway. Factory assembled unit consists of a steel junction box, with removable side, connected to a 12 inch section of busway. The assembly includes connection lugs, a ground lug and shrink tubing for wires up to 300 MCM.

End power feed units are connected to adjacent busway sections using an installation tool and joint kit (ordered separately).

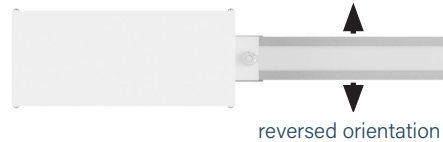
Special need power feed units for confined spaces as found in mission critical data centers can also be designed and fabricated requiring minimum quantities.

#### STANDARD BOX



Top View

standard orientation



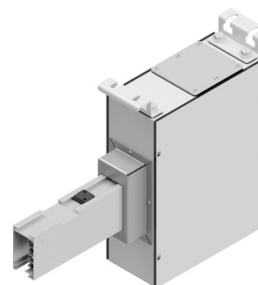
reversed orientation

#### INFRARED (IR) WINDOW OPTIONS:

Refer to option 10. Accessories Package on **page 3.34** End Feed Units: Product Numbers



Large box with  
circular IR window



225S3 End Feed

	BOXES		
LUGS	Standard	Large	Fused
Standard	<b>S</b>	<b>L</b>	
Double	<b>D</b>	<b>A</b>	
Bolt			

Box size and Lug options: Refer to option 8. Lug/Box Options on **page 3.34**  
End Feed Units: Product Numbers

# 225 AMP SYSTEMS

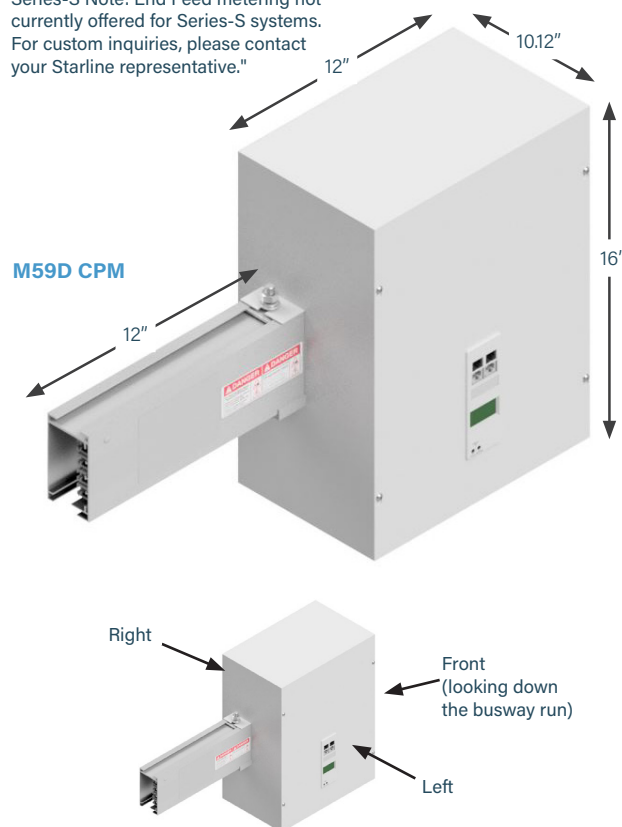
## END FEED UNITS: METERING

### PRODUCT DESCRIPTION

Standard end power feed units connect to the end of the busway. A factory assembled unit consists of a steel junction box, with removable sides, connected to a 12 inch section of busway. The assembly includes connection lugs, a ground lug, and shrink tubing for wires up to 300 MCM.

Integral CPM installed in the end feed provides power monitoring and alarm capabilities. The M50 models are for AC busway, while the M60 models are for DC busway. Nuisance tripping may be avoided using the current information to protect against overloading phases. The monitors also assist in the continuous challenge to balance the three phase loads. An automated email will be sent at 80% of full load as a warning to the user. This level may be changed in the field using the integrated webpage.

Series-S Note: End Feed metering not currently offered for Series-S systems. For custom inquiries, please contact your Starline representative."



\*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on **page 3.34** End Feed Units: Product Numbers)

#### AC END FEED METER OPTIONS

- M51** Single Eth./WiFi,  $\leq 480V$  Y,  $\leq 277V$   $\Delta$
- M53** Single Eth./No WiFi,  $\leq 480V$  Y,  $\leq 277V$   $\Delta$
- M58** Dual Eth.,  $\leq 480V$  Y,  $\leq 277V$   $\Delta$
- M59** Dual Eth./Dual Modbus,  $\leq 480V$  Y,  $\leq 277V$   $\Delta$

#### DC END FEED METER OPTIONS

- M61** Single Eth./WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M63** Single Eth./No WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M67** Dual Eth., single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M69** Dual Eth./Dual Modbus, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

BOX/LUGS OPTION	1 Meter or Accessory	1 Meter & 1 Accessory (opposite lids)
(S) Standard Box, Standard Lugs		
(L) Large Box, Standard Lugs	X	X
(D) Standard Box, Double Lugs		
(A) Large Box, Double Lugs	X	X

\*Large box with one meter or accessory is 7.62" deep, and large box with one meter and accessory (on opposite lids) extends the depth to 10.12"

\*Any metering configuration that includes temperature monitoring will require a box depth of 10.12"

A meter and accessory can not be on the same lid.



# 225 AMP SYSTEMS

## END FEED UNITS: ACCESSORIES

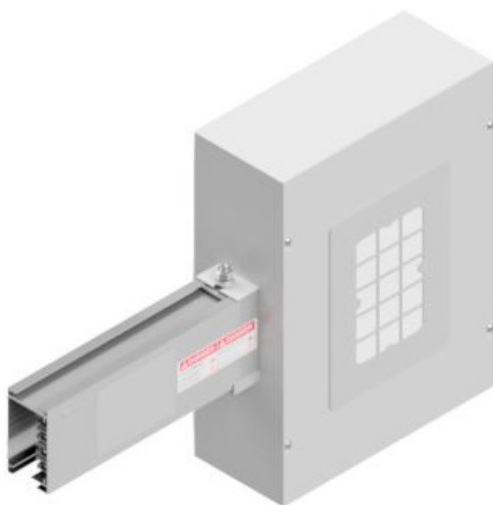
### ■ IR WINDOWS

Starline Track Busway Polymer IR Window systems use a proprietary stack-up of advanced materials to ensure highest levels of safety and optimal infrared thermography of critical connections.

When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

Safely and accurately scan connection points while the system is under load, without exposing the operator to live connections.

Notes: All Series-S End Feeds are offered with pre-installed hangers and gland plates.



Note: Rectangular IR window option not available for Series-S systems. See S3 end feed accessories package for more information.

### FEATURES & BENEFITS

- Allows for safe IR scanning without powering down busway
- Complete system coverage with IR windows for plug-in units and end feeds
- End feed IR windows designed in 2 sizes for optimized viewing angles
- Cost effective design allows for quick end user ROI
- ETL Listed, CE Marked
- Lower TCO
- Enhanced safety
- Effective preventative maintenance

### GENERAL SPECIFICATIONS

Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Aluminum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T3); IP54 (S3)
Max Operating Temperature	125°C

### WINDOW DIMENSIONS

End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 500A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17, M50 Options on **page 3.35** End Feed Units: Product Numbers)

(Refer to option 10, Accessories Package on **page 3.34** End Feed Units: Product Numbers)



## END FEED METERING: PRODUCT NUMBERS

Note: Series - S end feeds not currently equipped with power monitoring.  
Consult factory for details.

**UF225T3C4R-DRSN-0100C-BLK0-M59D1** = US System, End Feed, 225 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Double Lugs, Standard Box, Right Meter Location, Standard Accessory Package, No Accessory Location, 1 foot Straight Length, Continuous Access, Painted Factory Black, No Tape Marking, M59 Meter with Display, LLD - Standard, Milivolt

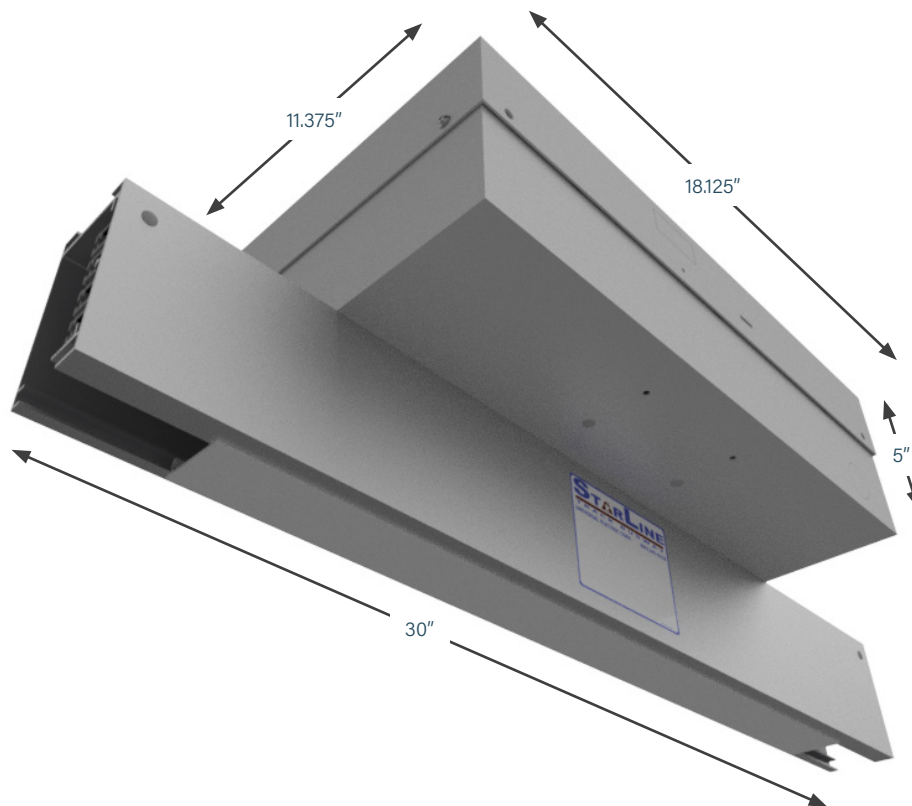
## 225 AMP SYSTEMS

### ABOVE FEED UNITS

#### ■ PRODUCT DESCRIPTION

The above feed power unit comes as a completely pre-wired steel box to the top of a 30 inch section of busway. A connection lug is located inside the box for field termination of supply power cable up to 1/0. This unit is then connected to the end of an adjoining busway section using an installation tool and a joint kit (ordered separately).

**Weight** 16.5 - 23 lbs





# T3 SERIES

## RAL COLORS

1ST CHARACTER	
<b>P</b>	Paint

2ND CHARACTER	
<b>0</b>	100
<b>1</b>	101
<b>2</b>	102
<b>3</b>	103
<b>4</b>	200
<b>5</b>	201
<b>A</b>	300
<b>B</b>	301
<b>C</b>	302
<b>D</b>	303
<b>E</b>	400
<b>F</b>	401
<b>G</b>	500
<b>H</b>	501
<b>J</b>	502
<b>K</b>	600
<b>L</b>	601
<b>M</b>	602
<b>N</b>	603
<b>P</b>	700
<b>Q</b>	701
<b>R</b>	702
<b>S</b>	703
<b>T</b>	704
<b>U</b>	800
<b>V</b>	801
<b>W</b>	802
<b>X</b>	900
<b>Y</b>	901
<b>Z</b>	902

3RD CHARACTER	
<b>0</b>	0
<b>1</b>	1
<b>2</b>	2
<b>3</b>	3
<b>4</b>	4
<b>5</b>	5
<b>6</b>	6
<b>7</b>	7
<b>8</b>	8
<b>9</b>	9

4TH CHARACTER	
<b>0</b>	0

### EXAMPLE:

P B 2 0 = Paint RAL 3012

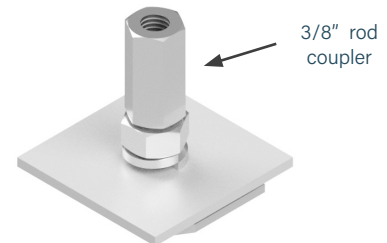
# T3 SERIES

## ACCESSORIES: SUPPORT HARDWARE

### ■ THREADED ROD

For mounting to 3/8" - 16 threaded rod.  
Can be inserted anywhere along the top full-access slot of busway. Hanger support is required every 10 feet maximum.

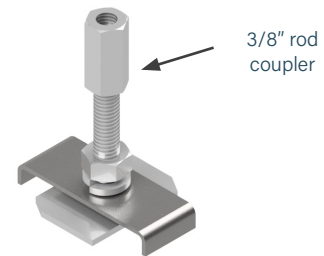
Part Number  
*UBRH-1*  
Available in plain zinc  
or black (-BLK)  
Weight  
.3 lb



### ■ SEISMIC THREADED ROD

For mounting to 3/8" - 16 threaded rod.  
Can be inserted anywhere along the top full-access slot of busway, and includes a seismic brace. Hangers are required every 5 feet maximum for seismic support.

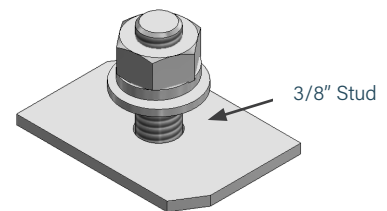
Part Number  
*UBRH-3*  
Available in plain zinc  
or black (-BLK)  
Weight  
.3 lb



### ■ STANDARD

For mounting to strut or other flat surfaces. Twist-in design allows inserting anywhere along the top full-access slot on the busway. Hanger support is required every 10 feet maximum.

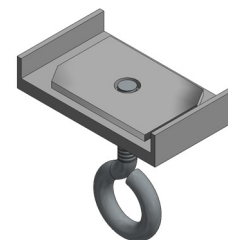
Part Number  
*UBH-1*  
Available in plain zinc  
or black (-BLK)  
Weight  
.2 lb



### ■ WEIGHT HOOK

Can be used as a hanger to suspend the busway from chains or cables. Can also be used to hang loads up to 100 pounds under the busway, such as light fixtures, tools and balancers.

Part Number  
*SWHRT3*  
Available in plain zinc  
Weight  
.2 lb



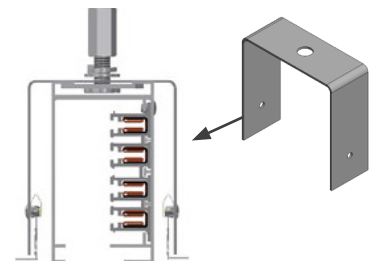
### ■ RECESSED SUSPENDED CEILINGS

For hanging busway into a recessed ceiling.

*\*Hanger bolt must be ordered separately*

*\*\*Busway must sit slightly below the surface of the ceiling in order to install plug in units.*

Part Number  
*SRMT3-1*  
Available in plain zinc



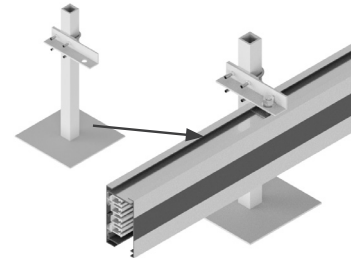
# T3 SERIES

## ACCESSORIES: SUPPORT HARDWARE

### ■ RAISED ACCESS FLOOR

For mounting the busway vertically (with access slot facing down) for under floor applications. Pedestal not included.

Part Number  
URFBT3-1  
\*UBH-1 comes included  
Available in plain zinc  
or black (-BLK)



### ■ WALL MOUNT BRACKET

For mounting to walls, using standard hangers. Hanger support is required everything 3 meters maximum.

**Note:** All S3 Systems must be mounted in the standard vertical orientation.

Part Number  
WMBT5-9

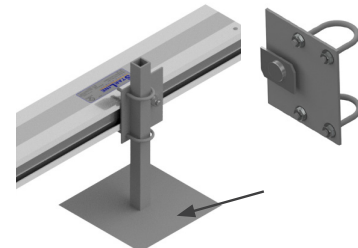


### ■ RAISED MOUNTING BRACKET

For mounting the busway horizontally (with access slot facing to the side) for under floor applications. Pedestal not included.

**Note:** Not available for S3 systems

Part Number  
URFBT3-2  
Available in plain zinc  
or black (-BLK)  
Weight  
.2 lb

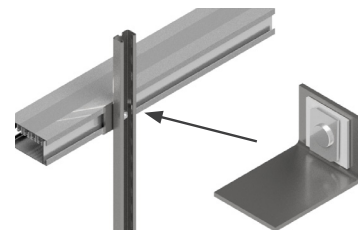


### ■ SIDE MOUNT BRACKETS

Mounted to vertical supports. Vertical supports not included, only bracket.

**Note:** Not available for S3 systems

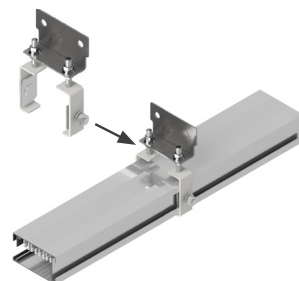
Part Number  
UBSS-1  
Available in plain zinc  
or black (-BLK)  
Weight  
.2 lb



Mounted to overhead supports

**Note:** Not available for S3 systems

Part Number  
UBH-T3-SIDE  
Available in plain zinc  
or black (-BLK)  
Weight  
1.31 lb





# T3 AND S3 SERIES BUSWAY

## ACCESSORIES: SUPPORT HARDWARE

### ■ PRODUCT DESCRIPTION

#### UNIVERSAL SERVER CABINET MOUNTING BRACKETS

The Universal Server Cabinet Mounting Brackets are designed with generous 3/8 inch wide through slots to mount directly onto virtually any server cabinet.

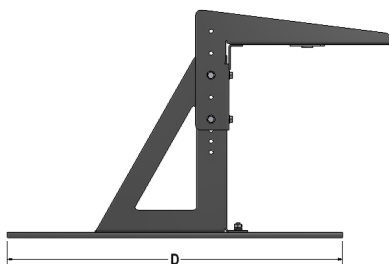
These accessories quickly and easily provide a flexible busway mounting solution on top of server cabinets, eliminating the need for threaded rod and strut support from the ceiling.

The brackets are adjustable in height, can be ordered in virtually any color, and can be positioned at any depth on the server cabinet. Moreover, they can accommodate up to (2) runs of busway.

Hanger Bolt Included – UBH-1



.397 [10.08] MOUNTING  
SLOT WIDTH



#### MATERIAL

Galvanneal Steel

#### HEIGHT

17.68 in Min

23.75 in Max

Maximum Spacing: Every 10 ft per run

#### C: Color (1, 3, 4, 6, 7)

**1** Anodized Silver

**3** Black

**4** White

**6** Red

**7** Blue

*\*consult factory for custom colors*

#### Part Number

**U.S: UUSCMB-(X)-(D)-(C)**

**X** = System (T3)

**D** = Depth (30", 36", 42", 48" or custom length)

**C** = Color (1, 3, 4, 6, 7)

#### ■ EXAMPLES

**UUSCMB-T3-36-4** = US, Universal Server Cabinet Mounting Bracket, T3 System, 36 inch Depth, White

**UUSCMB-T3-42-3** = US, Universal Server Cabinet Mounting Bracket, T3 System, 42 inch Depth, Black

# T3 AND S3 SERIES BUSWAY

## ACCESSORIES: CONNECTION HARDWARE

### T3 & S3 JOINT KITS

SYSTEM AMPERAGE	NEUTRAL/GROUNDBAR OPTION	T3 SERIES CATALOG #	S3 SERIES CATALOG #
100	3 Phase plus Neutral	SJK100T3	SJK100S3
100	3 Phase plus Neutral plus Internal Ground Conductor	SJK100T3G	SJK100S3G
100	3 Phase plus 200% Neutral	SJK100T3N	SJK100S3N
100	3 Phase plus 200% Neutral plus Internal Ground Conductor	SJK100T3F	SJK100S3F
225	3 Phase plus Neutral	SJK225T3	SJK225S3

#### T3 JOINT KIT

For the connection of adjacent busway sections. One kit is required at each joint. Each kit is comprised of a housing coupler pair and bus connector set.

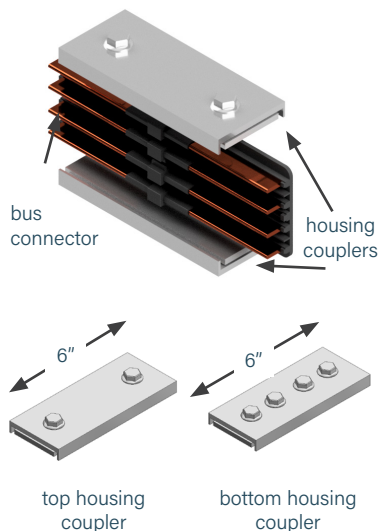
**Bus Connector:** copper blades secured to an insulating mounting plate. This makes the electrical connection between sections.

**Housing Couplers:** consists of two 12-screw couplers - one for the top and one for the bottom of busway. These make the mechanical connection between busway sections.

*\*Installation tool is required (see below)*

*\*\*Available in all standard and RAL colors*

#### T3 Joint Kit components



#### S3 JOINT KIT

For the connection of adjacent busway sections. One kit is required at each joint. Each kit is comprised of a housing coupler pair and bus connector set, joint seal and two joint covers.

**Bus Connector:** copper blades secured to an insulating mounting plate. This makes the electrical connection between sections.

**Housing Couplers:** consists of two 12-screw couplers - one for the top and one for the bottom of busway. These make the mechanical connection between busway sections.

**Joint Seal:** Plastic sealing component installed between two housings at joint prior to bus connector and coupler installation.

**Joint Covers:** Plastic sealing cover fitted over top of housing coupler after coupler installation.

*\*Installation tool is required (see below)*

#### S3 Joint Kit components



Includes: Couple Covers, Top and Bottom Housing Couplers, Joint Seal and Bus Connector

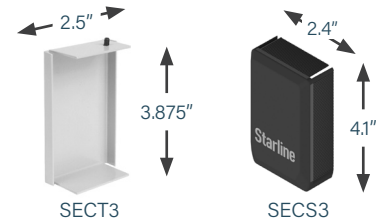
# T3 AND S3 SERIES BUSWAY

## ACCESSORIES: CONNECTION HARDWARE

### ■ END CAP

For covering the end of 100T3, 100S3, 225T3, or 225S3 busway.

SYSTEM	DESCRIPTION	T3 SERIES CATALOG #	S3 SERIES CATALOG #
100	100 Amp End Cap	SECT3	SECS3
250	100 Amp End Cap	SECT3	SECS3

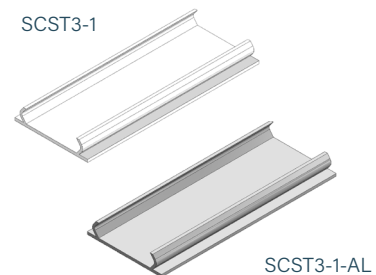


### ■ CLOSURE STRIP

Snaps into bottom access slot of busway housing. The optional closure strip is normally shipped in 10 feet lengths and can be field cut to fit exact desired length. The Closure Strip is offered in both non-conductive plastic material and aluminum.

**IMPORTANT NOTE:** Closure strip is optional for T3 systems, but is required for S3 systems in order to ensure the system meets IP54 ingress protection requirements. Closure strip must be ordered separately.

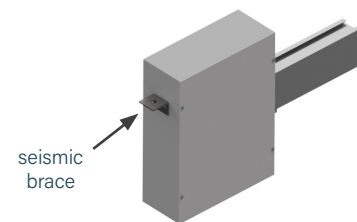
SYSTEM	AMPERAGE	PART NUMBER	MATERIAL TYPE	REQUIRED
T3	100-225	SCST3-1	Plastic	Optional
T3	100-225	SCST3-1-AL	Aluminum	Optional
S3	100-225	SCSS3-1	Aluminum	Yes



### ■ END FEED SEISMIC BRACE

For seismic applications, the End Feed Seismic Brace bolts on to the end feed, to be used with threaded rod for gravity hanger.

Part Number  
SEFB-SIL



### ■ TAP-OFF SEAL ASSEMBLY

For use with Series-S Busway only. The seal assembly (2 pieces) wraps around the enclosure, protecting it from dust and liquid ingress.

\*Tap-off Seal Assemblies are already included with each Series-S Plug-in Unit, but may be ordered separately.

PLUG-IN (TAP-OFF) ENCLOSURE	SEAL ASSEMBLY CATALOG #
S1 Enclosure	S3TOU-SEAL-S1-STD
S2 Enclosure	S3TOU-SEAL-S2-STD
S3 Enclosure	S3TOU-SEAL-S3-STD



# T3 AND S3 SERIES BUSWAY

## ACCESSORIES: INSTALLATION TOOL

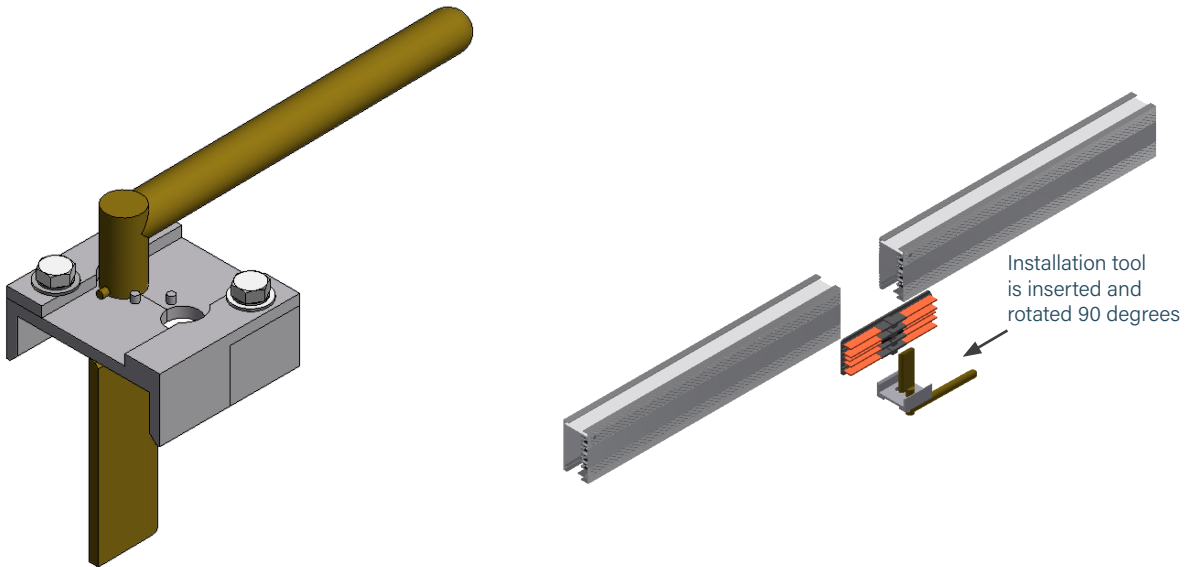
### ■ PRODUCT DESCRIPTION

#### INSTALLATION TOOL

An installation tool is used to install the bus connector between two adjacent sections of busway. A joint kit, which is comprised of two housing couplers and a bus connector set, is required at every joint.

Busway sections are butted together and the top housing coupler is installed. The bus connector is inserted, centered and seated in the slot of the busway. The installation tool is inserted into the jointed intersection and rotated 90 degrees to form a spring-loaded, secure electrical connection. The housing coupler is then positioned over the bottom joint and tightened. Series-S and Track Busway use the same installation tool.

**Weight** 2.5 lb



**Part Number**  
**ST3IT**

*No available colors*

# T3 AND S3 SERIES BUSWAY

## SERVICES

Regular servicing of busway systems is crucial for ensuring that your system performs at its best. By conducting regular maintenance, you can identify and address any potential issues before they turn into expensive problems, thus saving you time and money in the long run. Regular servicing can help extend the lifespan of your busway system, ensuring that it meets safety standards and complies with regulations. Choose from various offerings and customize a service plan that works best for you.

### **WE ARE CURRENTLY OFFERING THE FOLLOWING SERVICES:**

#### **COMMISSIONING AND EQUIPMENT RENTALS**

Designing a mission-critical facility involves a significant investment of time and money. Through comprehensive commissioning services, Starline can help guarantee your project delivers the outcomes you expect.

Whether you need rental equipment to test your busway system or certified technicians to perform the testing, Starline has you covered. Choose from our inventory of load bank tap-offs and associated gear, or work with a Starline Engineer to customize and perform a commissioning plan to fit your specific needs.

#### **METER SERVICES**

Starline's certified technicians make optimizing your meters' performance and functionality a breeze. Our comprehensive on-site meter programming service includes inspecting, programming, reporting, and optional retrofitting services for you existing systems.

#### **STARTUP AND SYSTEM CERTIFICATION**

At Starline, we are committed to ensuring the success of your project. Our team understands the risks associated with the energization of systems, which is why we've designed a rigorous certification process to inspect, test and report on your Starline Busway and Critical Power Monitor ("CPM") products. Our certification process proactively identifies and prevents any potential issues before they happen.

To ensure the long-term success of your project, it is crucial to have Starline-certified technicians inspect and validate the installation before full commissioning. Level 2 and 3 commissioning ensures the installation complies with safety requirements and meets factory standards for ongoing reliability.

- Double the length of the standard factory warranty
- Ensure all joint and feed connections are properly installed with continuity testing
- Ensure proper installation of all plug-in units
- Validate that system will perform to your specified requirements
- Full certification report delivered electronically at conclusion of service

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at [downloads.starlinepower.com/services](https://downloads.starlinepower.com/services).

# T3 AND S3 SERIES BUSWAY

## SERVICES

### TURNKEY INSTALLATION SERVICES

Our trained and factory certified Busbar installers are looking forward to completing your next job. You can order your best-in-class power distribution system and leave the rest to us. Our technicians will complete your installation quickly and safely and will reduce your overall TCO by extending your product warranty.

### PREVENTATIVE MAINTENANCE PLANS AND IR SCANNING

Although Starline busway is expertly designed to require less maintenance, NETA ATS and MTS guidelines recommend conducting annual inspections and health assessments on all critical equipment. Yearly preventative maintenance helps to ensure your system's long-term reliability and safety.

Starline's FLIR-certified technicians will create a custom preventative maintenance plan for your specific needs. Our certified technicians will work to:

- Identify thermal anomalies
- Extend equipment lifecycle
- Ensure optimal system performance
- Improve facility safety and operational sustainability

Upon completing your preventative maintenance plan, you may be eligible to extend your product warranty.

### ON-SITE INSTALLATION SUPPORT

Starline's on-site installation service makes installing your busway as quick and easy as possible.

Our installation support starts with scheduling a preliminary trip to the installation site. During the initial visit, our certified technicians will train your installing contractor and develop a thorough installation and commissioning plan.

After completing the training, your installing contractor will have a direct line of communication with our installation experts. Our experts can help answer questions and provide hands-on guidance when needed.

Opting for Starline's installation support helps mitigate the installation risk and reduces the learning curve typically associated with new installations.

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at [downloads.starlinepower.com/services](https://downloads.starlinepower.com/services).

# T3 AND S3 SERIES BUSWAY

## SERVICES

### ON-SITE PRODUCT TRAINING

At Starline, we offer comprehensive on-site product training services facilitated by our team of certified technicians. With their extensive expertise and commitment to upholding our high factory standards, you can confidently rely on them to ensure your and your systems' reliability and operational safety.

Our training programs equip your team with the knowledge and skills necessary to operate and maintain your systems effectively. Through hands-on demonstrations and interactive sessions, our certified technicians will guide your staff in understanding the intricate workings of the products and address any questions or concerns your team may have during the training process.

By choosing our on-site product training services, you are investing in your system's and operations' long-term success

### RECERTIFICATION AND EXTENDED WARRANTY PLANS

Starline's recertification and extended warranty options provide best-in-class coverage for all of your Starline products and systems. Our extended warranty plans safeguard your investment beyond the standard warranty timeframe, offering you peace-of-mind while our recertification programs help mitigate risk and downtime. Whether the busway has been installed for years or you are relocating to another building, Starline is here to help.

Choose from one of our flexible one to four-year plans or have your system recertified anytime. Contact your Starline rep for more information.

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at [downloads.starlinepower.com/services](https://downloads.starlinepower.com/services).

# T3 PLUG-IN UNITS

## T3 PLUG-IN UNITS

### METER PLUG/METER BOX UNITS

Any T3 compatible Starline Plug-In Unit that contains only a meter, or any lone box (without paddle head) that includes a meter.



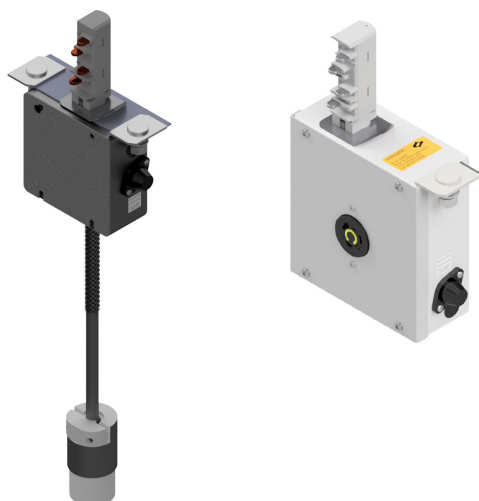
### TERMINAL BLOCK UNITS

Any T3 compatible Starline Plug-In Unit that's fully rated to the listed electrical ratings that can accept incoming connections from the end user.



### RECEPTACLE BOX/DROP CORD UNITS WITH CLASS CC FUSE

Any T3 compatible Starline Plug-In Unit that contains a receptacle box or drop cord that contains a class CC fuse.



### CIRCUIT BREAKER/FUSED DISCONNECT UNITS

Any T3 compatible Starline Plug-In Unit that contains a receptacle and/or drop cord along with circuit breaker(s) or fused disconnect.





# T3 PLUG-IN UNITS

## SYSTEM & BUILD GUIDE

The below is a suggested list of questions to determine answers to in order to properly build or assemble both Track Busway systems and plugs.

### WHEN BUILDING SYSTEMS

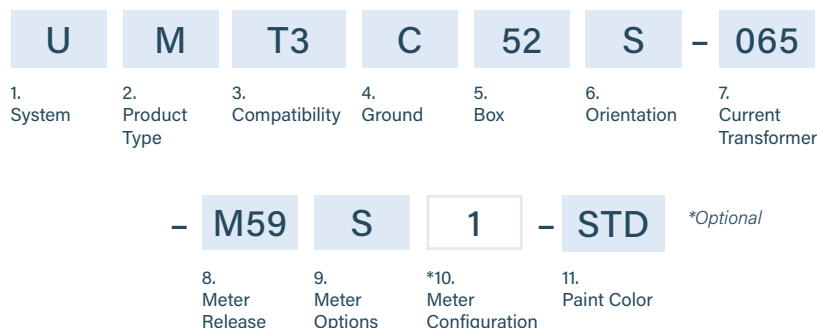
1. What is the amperage needed for the system? (100, 225, etc..)
2. Does the system need an internal ground?
3. Are there any limitations on the length of a run? (5ft max, 10ft max, 20ft max, etc...)

### WHEN DETERMINING DESIRED PLUG CONFIGURATIONS

1. What type of system is this being used on? (T3)
2. Does the system have an internal ground? If so, does the plug need to be wired Isolated or Dedicated ground/earth?
3. What is the fault current needed for the breaker? (10Kaic, 22Kaic, etc...)
4. Does the plug need to have drop cords or receptacles?
5. What is the device configuration of the connector bodies or receptacles?
6. What is your desired MCB configuration? (phase, amperage, poles?)
7. Do you require metering?
8. How many outlets are needed?
9. What is the trip curve needed?
10. What MCB brand is preferred?
11. What is the voltage required?

# T3 PLUG-IN UNITS

## METER PLUGS: PRODUCT NUMBERS



### 1. System (standard of measure)

**U** US

### 2. Product Type (section component)

**M** Meter Plug

### 3. Compatibility (frame compatibility)

**T3** T3 System

### 4. Ground (ground type installed)

**C** Case (Housing) Ground

### 5. Box (what size enclosure)

**01, 02, ... 99** (refer to enclosure reference **page 3.55**)

*\*12 and 28 boxes are currently not available*

### 6. Orientation (what direction the paddle faces)

**S** Standard **R** Reversed

### 7. Current Transformer (current rating)

**065** 65 amps **225** 225 amps  
**250** 250 amps **400** 400 amps  
**800** 800 amps **1K0** 1000 amps  
**1K2** 1200 amps

*\*\*M60 (DC) meters are only available with 800 amp current transducers*

### 8. Meter Release (M50 AC)

**M51** Single Eth./WiFi, ≤480V Y, ≤277V Δ  
**M53** Single Eth./No WiFi, ≤480V Y, ≤277V Δ  
**M58** Dual Eth., ≤480V Y, ≤277V Δ  
**M59** Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ

### 8. Meter Release (M60 DC)

**M61** Single Eth./WiFi, single phase, VDC  
**M63** Single Eth./No WiFi, single phase, VDC  
**M67** Dual Eth., single phase, VDC  
**M69** Dual Eth./Dual Modbus, single phase, VDC

### 9. Meter Options (M50 AC)

**S** Standard **N** (Measured) Neutral  
**D** Display **P** Professional (D+N)

### 9. Meter Options (M60 DC)

**S** Standard (High Voltage) **P** Standard (48 VDC)  
**D** Display (High Voltage) **Q** Display (48 VDC)

*M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC (+/-60) to 380 VDC (+/-180) OR Low Voltage: 48 VDC*

### \*10. Meter Configuration (M50 AC)

**1** LL power, Delta Solid Core, mV CT  
**3** LN power, Wye Solid Core, mV CT  
**4** LL power, Delta Solid Core, 5A-secondary CT  
**6** LN power, Wye Solid Core, 5A-secondary CT  
**7** LL power, Delta Split Core, mV CT  
**9** LN power, Wye Split Core, mV CT  
**K** LL power, Delta Split Core, 5A-secondary CT  
**M** LN power, Wye Split Core, 5A-secondary CT

### \*10. Meter Configuration (M60 DC)

**1** Circuit 1 Only, Solid Core  
**2** Circuit 2 Only, Solid Core  
**3** Both Circuits, Solid Core

### 11. Paint Color

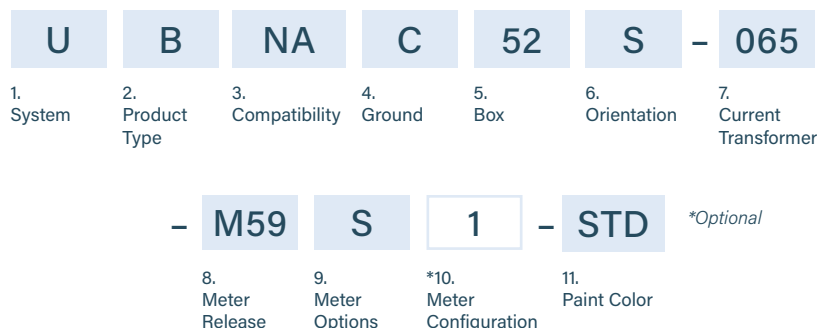
**STD** Paint Factory Silver **RED** Paint Factory Red  
**BLK** Paint Factory Black **BLU** Paint Factory Blue  
**WHT** Paint Factory White **\*\*RAL** (please see page 3.38)

### EXAMPLE

**UMT3C52S-065-M59S1-STD** = US System, Meter Plug, T3 System, Case Ground, 52 Box, Standard Orientation, 65 Current Rating, M59 Meter, Standard, LL Power, Delta Solid Core, mV CT, Painted Factory Silver

# T3 PLUG-IN UNITS

## METER BOXES: PRODUCT NUMBERS



### 1. System (standard of measure)

**U** US

### 2. Product Type (section component)

**B** Meter Box

### 3. Compatibility (frame compatibility)

**NA** Not Applicable

### 4. Ground (ground type installed)

**C** Case (Housing) Ground

### 5. Box (what size enclosure)

**01, 02, ... 99** (refer to enclosure reference **page 3.55**)

*\*12 and 28 boxes are currently not available*

### 6. Orientation (what direction the paddle faces)

**S** Standard

### 7. Current Transformer (current rating)

<b>065</b> 65 amps	<b>225</b> 225 amps
<b>250</b> 250 amps	<b>400</b> 400 amps
<b>800</b> 800 amps	<b>1K0</b> 1000 ampss
<b>1K2</b> 1200 amps	

*\*\*M60 (DC) meters are only available with 800 amp current transducers*

### 8. Meter Release (M50 AC)

**M51** Single Eth./WiFi, ≤480V Y, ≤277V Δ  
**M53** Single Eth./No WiFi, ≤480V Y, ≤277V Δ  
**M58** Dual Eth., ≤480V Y, ≤277V Δ  
**M59** Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ

### 8. Meter Release (M60 DC)

**M61** Single Eth./WiFi, single phase, VDC  
**M63** Single Eth./No WiFi, single phase, VDC  
**M67** Dual Eth., single phase, VDC  
**M69** Dual Eth./Dual Modbus, single phase, VDC

### 9. Meter Options (M50 AC)

<b>S</b> Standard	<b>N</b> (Measured) Neutral
<b>D</b> Display	<b>P</b> Professional (D+N)

### 9. Meter Options (M60 DC)

<b>S</b> Standard (High Voltage)	<b>P</b> Standard (48 VDC)
<b>D</b> Display (High Voltage)	<b>Q</b> Display (48 VDC)

*M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC (+/-60) to 380 VDC (+/-180) OR Low Voltage: 48 VDC*

### \*10. Meter Configuration (M50 AC)

**1** LL power, Delta Solid Core, mV CT  
**3** LN power, Wye Solid Core, mV CT  
**4** LL power, Delta Solid Core, 5A-secondary CT  
**6** LN power, Wye Solid Core, 5A-secondary CT  
**7** LL power, Delta Split Core, mV CT  
**9** LN power, Wye Split Core, mV CT  
**K** LL power, Delta Split Core, 5A-secondary CT  
**M** LN power, Wye Split Core, 5A-secondary CT

### \*10. Meter Configuration (M60 DC)

**1** Circuit 1 Only, Solid Core  
**2** Circuit 2 Only, Solid Core  
**3** Both Circuits, Solid Core

### 11. Paint Color

<b>STD</b> Paint Factory Silver	<b>RED</b> Paint Factory Red
<b>BLK</b> Paint Factory Black	<b>BLU</b> Paint Factory Blue
<b>WHT</b> Paint Factory White	<b>**RAL</b> (please see page 3.38)

### EXAMPLE

**UBNAC52S-065-M59S1-STD** = US System, Meter Box, Not Applicable, Case Ground, 52 Box, Standard Orientation, 65 Current Rating, M59 Meter, Standard, LL Power, Delta Solid Core, mV CT, Painted Factory Silver



# T3 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT: PRODUCT NUMBERS

<b>U</b>	<b>C</b>	<b>T3</b>	<b>C</b>	<b>52</b>	<b>S</b>	<b>-</b>	<b>14</b>	<b>-</b>	<b>1</b>	
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity			
<b>AA</b>	<b>F</b>	<b>010</b>	<b>N</b>	<b>-</b>	<b>V59</b>	<b>D</b>	<b>-</b>	<b>STD</b>	<b>0</b>	<i>*Optional</i>
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options	15. Paint Color	*16. Drop Cord Tape Marking			

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>12. Accessories</b> <i>(optional accessories for plugs)</i> <b>N</b> N/A <b>C</b> Circuit Breaker Interlock <b>S</b> Seismic Hanger <b>F</b> Finger Shroud <b>P</b> Padlock Adapter for Circuit Breaker <b>R</b> IR Window
<b>2. Product Type</b> <i>(section component)</i> <b>C</b> Circuit Breaker Unit <b>F</b> Fused Disconnect Unit	<b>*13. Meter Release</b> <i>(M50 AC)</i> <b>V51</b> Single Eth./WiFi, ≤480V Y, ≤277V Δ <b>V53</b> Single Eth./No WiFi, ≤480V Y, ≤277V Δ <b>V58</b> Dual Eth., ≤480V Y, ≤277V Δ <b>V59</b> Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ <b>V56</b> Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ, Breaker Monitoring <b>V57</b> Dual Eth, Breaker Monitoring ≤480V Y, ≤277V Δ
<b>3. Compatibility</b> <i>(frame compatibility)</i> <b>T3</b> T3 System	<b>*13. Meter Release</b> <i>(M60 DC)</i> <b>M61</b> Single Eth./WiFi, single phase, VDC <b>M63</b> Single Eth./No WiFi, single phase, VDC <b>M67</b> Dual Eth., single phase, VDC <b>M69</b> Dual Eth./Dual Modbus, single phase, VDC
<b>4. Ground</b> <i>(ground type installed)</i> <b>C</b> Case (Housing) Ground <b>D</b> Dedicated Ground <b>G</b> Isolated (Separate) Ground	<b>*14. Meter Options</b> <i>(M50 AC)</i> <b>S</b> Standard <b>N</b> (Measured) Neutral <b>D</b> Display <b>P</b> Professional (D+N)
<b>5. Box</b> <i>(what size enclosure)</i> <b>01, 02, ... 99</b> (refer to enclosure reference <b>page 3.66</b> )	<b>*14. Meter Options</b> <i>(M60 DC)</i> <b>S</b> Standard (High Voltage) <b>P</b> Standard (48 VDC) <b>D</b> Display (High Voltage) <b>Q</b> Display (48 VDC) <i>M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC (+/-60) to 380 VDC (+/-180) OR Low Voltage: 48 VDC</i>
<b>6. Orientation</b> <i>(what direction the paddle faces)</i> <b>S</b> Standard <b>R</b> Reversed	<b>15. Paint Color</b> <b>STD</b> Paint Factory Silver <b>RED</b> Paint Factory Red <b>BLK</b> Paint Factory Black <b>BLU</b> Paint Factory Blue <b>WHT</b> Paint Factory White <b>**RAL</b> (please see <b>page 3.38</b> )
<b>7. Interrupt Rating</b> <i>(interrupt rating of the breakers in K)</i> <b>10, 14, 22, 25, 30, 35, 50, 65, CC (CC = 200,000)</b> (for U.S.)	<b>16. Drop Cord Tape Marking</b> <b>3</b> Tape Factory Black <b>7</b> Tape Factory Blue <b>4</b> Tape Factory White <b>8</b> Tape Factory Green <b>6</b> Tape Factory Red <b>9</b> Tape Factory Yellow
<b>8. Device Quantity</b> <i>(quantity of device 1)</i> <b>1, 2, 3, 4, 5, 6, 7, 8, 9</b> (for more than 1 device type, reference <b>page 3.71</b> )	
<b>9. Device</b> <i>(quantity of device 1)</i> <b>AA, AB, ...ZZ</b> (refer to device codes <b>page 3.57</b> )	
<b>*10. Mount Location</b> <i>(with respect to busway polarizing stripe)</i> <b>F</b> Front <b>A</b> Back <b>T</b> Top <b>B</b> Bottom <b>L</b> Left <b>R</b> Right	
<b>*11. Drop Cord Length</b> <i>(location of optional meter)</i> <b>XXY</b> : XX = feet, Y = Inches (010 = 1 foot, 0 inches) <i>(only can be chosen in 6" increments)</i> <b>***For any device configuration chosen over 70 amps, the max. drop cord length is 10 feet (100)</b>	

### EXAMPLE

**UCT3D28S-50-2BCB010N-V59D-STD** = US System, Circuit Breaker Unit, T3 System, Dedicated Ground, 28 Box, Standard Orientation, 50 kA Interrupt Rating-2 Devices, 6-20C, Bottom Located, 12 inch Long Drop Cord, No Accessories- V59 Meter, with Display, Painted Factory Silver

# T3 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT: GROUND

U	C	T3	C	52	S	-	14	-	1
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity		
AA	F	010	N	-	V59	D	-	STD	0 <i>*Optional</i>
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options	15. Paint Color	*16. Drop Cord Tape Marking		

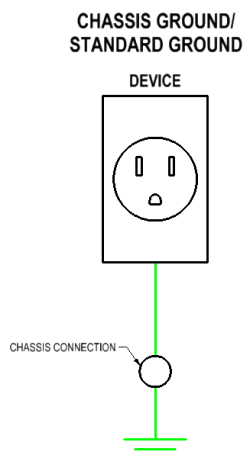
### 4. Ground (ground type installed)

<b>C</b> Case (Housing) Ground	<b>D</b> Dedicated Ground
<b>G</b> Isolated (Separate) Ground	

**IN OPTION 4.** you are asked to specify what type of ground you would like: case, dedicated or isolated. Parts affected by grounding are the plug paddle (ground paddles have a fifth stab).

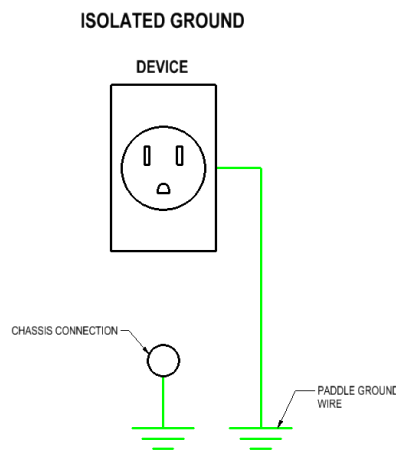
### ■ CASE GROUND/CHASSIS EARTH

Uses aluminum housing and no extra copper bar.



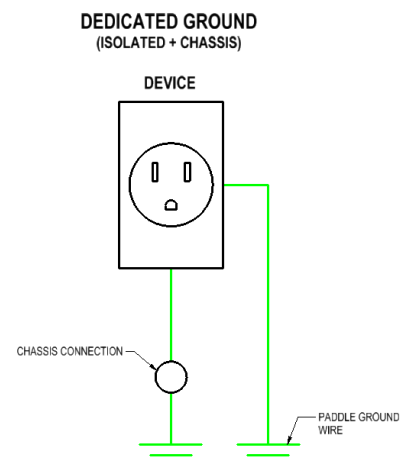
### ■ ISOLATED GROUND/EARTH

Orange receptacles in plugs. Case ground isolated from copper ground bar. Isolated ground carried back to panel by others.



### ■ DEDICATED GROUND/EARTH

Extra bar in busway for ground. Everything tied together inside plugs. Bar and housing at same potential.



\*For further details about Dedicated Ground vs. Isolated Ground, please reference our "Isolated Ground vs. Dedicated Ground" tech brief on [downloads.starlinepower.com/starline/busway](https://downloads.starlinepower.com/starline/busway)

# T3 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT: BOX

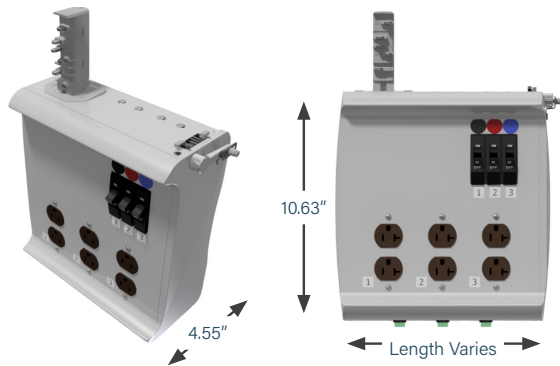
U	C	T3	C	52	S	-	14	-	1
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity		
AA	F	010	N	-	V59	D	-	STD	0
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options	15. Paint Color	*16. Drop Cord Tape Marking		<i>*Optional</i>

### 5. Box (what size enclosure)

**01, 02, ... 99** (refer to enclosure reference **page 3.66**)

**IN OPTION 5.** you are asked to specify what size and style enclosure that you would like. A few common enclosure sizes for T3 busway systems are shown below:

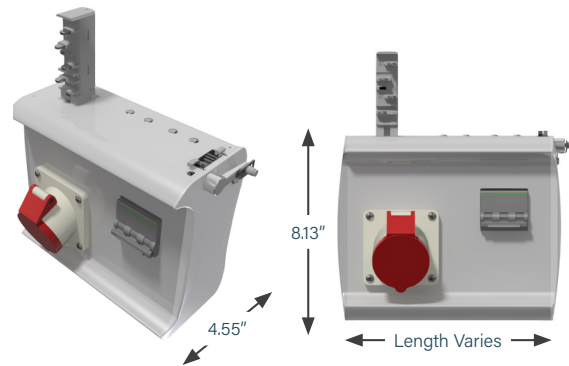
### 50 SERIES



#### BOX LENGTHS

<b>51:</b>	6.00"
<b>52:</b>	8.00"
<b>53:</b>	10.00"
<b>54:</b>	12.00"
<b>55:</b>	13.00"
<b>56:</b>	15.00"
<b>57:</b>	18.00"

### 90 SERIES



#### BOX LENGTHS

<b>91:</b>	6.00"
<b>92:</b>	8.00"
<b>93:</b>	10.00"
<b>94:</b>	12.00"
<b>95:</b>	13.00"
<b>96:</b>	15.00"
<b>97:</b>	18.00"

\*For all box sizes and styles, please refer to page **3.66**

# T3 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT: INTERRUPT RATING

U	C	T3	C	52	S	- 14 -	1	
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity	
AA	F	010	N	- V59	D	- STD	0	*Optional
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options	15. Paint Color	*16. Drop Cord Tape Marking	

**7. Interrupt Rating** (interrupt rating of the breakers in K)

**10, 14, 22, 25, 30, 35, 50, 65, CC (CC = 200,000)** (for U.S.)

**IN OPTION 7.** you are asked to specify what the interrupt rating of your protection will be. The breaker used is dependent on voltage, amperage and short-circuit ratings. Different or particular brands may be available upon request. Images of example breakers can be found below.





# T3 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT: DEVICE

U	C	T3	C	52	S	-	14	-	1	
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity			
AA	F	010	N	-	V59	D	-	STD	0	<i>*Optional</i>
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options	15. Paint Color	*16. Drop Cord Tape Marking			

### 9. Device (quantity of device 1)

**AA, AB, ...ZZ** (refer to device codes [page 3.71](#))



**IN OPTION 9.** you are asked to specify what device(s) you would like in your plug. All devices will need to be coded. The catalog number can accommodate up to 3 different types of devices- anything more than that will be handled in the G0 code. If you require more than one type of device, see the example catalog number below:

UCT3C57S-22-**2AD-3AB-1AC**FN-V59D-STD

If you require a drop cord(s), only one device type can be accommodated in the main catalog number. In addition, drop cord length is only specified if it's the same for all devices. Any additional device types or varying lengths will be handled in the G0 code.

# T3 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT: DEVICE: INDUSTRIAL SPECIFIC

### ■ PRODUCT DESCRIPTION

For your convenience, the below display includes a variety of plug-in units that are popularly used in industrial-specific applications. However, these plug configurations are not limited to use in industrial environments.



#### UCT3C12S-14-1FGB060N-STD

5-20 Receptacle Quad Box  
6' Drop Cord



#### UCT3C53S-14-3ABFN-STD

(3) 5-20 Duplex Receptacles



#### UCT3C92S-14-1MAB060N-STD-G001

MA = Custom Device  
Gxxx = Specific Meltric Brand  
Industrial Connector

\*For the full list of all device codes, please refer to **page 3.71**

# T3 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT: MOUNT LOCATION

U	C	T3	C	52	S	-	14	-	1
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity		
AA	F	010	N	-	V59	D	-	STD	0
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options	15. Paint Color	*16. Drop Cord Tape Marking		<i>*Optional</i>

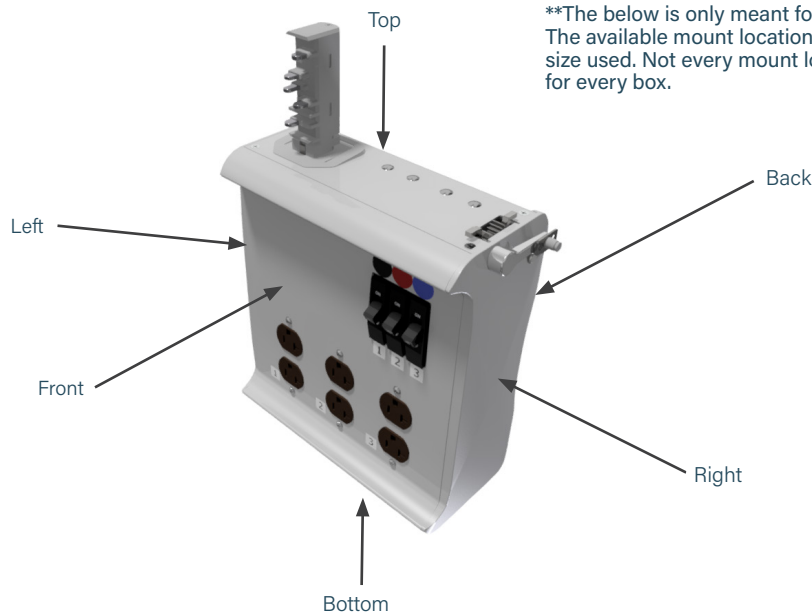
### \*10. Mount Location (with respect to busway polarizing stripe)

<b>F</b> Front	<b>A</b> Back
<b>T</b> Top	<b>B</b> Bottom
<b>L</b> Left	<b>R</b> Right

**IN OPTION 10.** if you are required to specify the devices desired location on the plug.

Please see the image below to guide you in selecting your specified mounting location.

\*Mount location is only specified if it's the same for all chosen devices. If it is not the same, then it is omitted.



\*\*The below is only meant for visual representation. The available mount locations depend on the box size used. Not every mount location will be available for every box.

# T3 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT: ACCESSORIES

U	C	T3	C	52	S	-	14	-	1
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity		
AA	F	010	N	-	M51	D	-	STD	0 <i>*Optional</i>
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options	15. Paint Color	*16. Drop Cord Tape Marking		

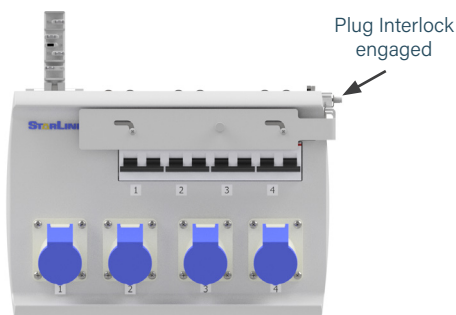
### 12. Accessories (optional accessories for plugs)

<b>N</b>	N/A	<b>F</b>	Finger Shroud
<b>C</b>	Circuit Breaker Interlock	<b>P</b>	Padlock Adapter for Circuit Breaker
<b>S</b>	Seismic Hanger	<b>R</b>	IR Window
<b>T</b>	NETA Injection Tested Breakers	<b>L</b>	Pilot Light

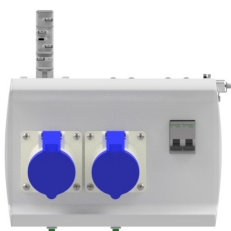
### IN OPTION 12, you have the option to choose an accessory:

The Circuit Breaker prevents disengaging the plug from the busway while the breaker is in the "on" position. The Finger Shroud prevents accidental on or off contact with the breaker toggle. The Padlock Adapter provides optional protection for locking out breakers. NETA injection testing certifies the breakers will operate as specified in their trip logic. The Pilot Light signals breakers on with a green light. Green light is off in the off/tripped position.

#### ■ CIRCUIT BREAKER INTERLOCK



#### ■ PILOT LIGHT



#### ■ FINGER SHROUD



#### ■ PADLOCK ADAPTER FOR CIRCUIT BREAKER LOCK-OUT



#### ■ SEISMIC HANGER



#### ■ IR WINDOW



# T3 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT: (AC ONLY) METER RELEASE

U	C	T3	C	52	S	-	14	-	1	
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity			
AA	F	010	N	-	V59	D	-	STD	0	*Optional
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories		*13. Meter Release	*14. Meter Options	15. Paint Color	*16. Drop Cord Tape Marking		

### \*13. Meter Release (M50 AC Series Meters)

**M51** Single Eth./WiFi, ≤480V Y, ≤277V Δ  
**M53** Single Eth./No WiFi, ≤480V Y, ≤277V Δ  
**M58** Dual Eth., ≤480V Y, ≤277V Δ  
**M59** Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ  
**V51** Single Eth./WiFi, ≤480V Y, ≤277V Δ  
**V53** Single Eth./No WiFi, ≤480V Y, ≤277V Δ  
**V58** Dual Eth., ≤480V Y, ≤277V Δ  
**V59** Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ  
**M56** Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ, Breaker Monitoring  
**V56** Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ, Breaker Monitoring  
**M57** Dual Eth, Breaker Monitoring ≤480V Y, ≤277V Δ  
**V57** Dual Eth, Breaker Monitoring ≤480V Y, ≤277V Δ  
 When selecting an "M" meter (ex. M59) the character for type of CT (M59D\*) configuration is required in the catalog number.

### \*14. Meter Options (M50 AC)

**S** Standard                      **D** Display

**IN OPTION 13.** you are able to select metering for your plug-in unit. M50 and V50 series meters are the best options for plug-in units.

The communication options include:

- Single Ethernet + WiFi
- Single Ethernet
- Dual Ethernet
- Dual Modbus + Dual Ethernet

The difference between 'M' and 'V' is that M50 series meters are capable of monitoring the current of the entire unit, and V50 series meters are capable of monitoring up to 6 individual devices limited to 6 solid core Current Transformers (CTs).

Each unit is calibrated for accuracy and is within 0.5% to meet ANSI Revenue Grade Standards.

M/V56 and M/V57 meters also have the capability to sense circuit breaker position (on/off) for up to two outlets.

### CRITICAL POWER MONITOR (NO DISPLAY)



### CRITICAL POWER MONITOR WITH OPTIONAL DISPLAY



Single Ethernet  
w/ Wi-Fi  
**M/V51**

Single  
Ethernet  
**M/V53**

Dual  
Ethernet  
**M/V58**

Dual Modbus  
Dual Ethernet  
**M/V59**

# T3 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT: (DC ONLY) METER RELEASE

U	C	T3	C	52	S	-	14	-	1	
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity			
AA	F	010	N	-	M61	D	1	-	STD	0
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories		*13. Meter Release	*14. Meter Options	*15. System Config	16. Paint Color	*16. Drop Cord Tape Marking	*Optional

### \*13. Meter Release (M60 DC Series Meters)

**M61/V61** Single Eth./WiFi, single phase, VDC  
**M63/V63** Single Eth./No WiFi, single phase, VDC  
**M67/V67** Dual Eth., single phase, VDC  
**M69/V69** Dual Eth./Dual Modbus, single phase, VDC

### \*14. Meter Options (M60 DC)

**S** Standard (High Voltage)      **D** Display (High Voltage)  
**P** Standard (48 VDC)          **Q** Display (48 VDC)

### \*15. System Configuration (voltage)

**1** Circuit 1 only                      **2** Circuit 2 only  
**3** Both circuits (1 & 2)

If you've chosen to use direct current (DC) for your Track Busway system, then the DC M60 series meters are a perfect fit. For M60 meters there is a special addition to the catalog number (reference 15. System Configuration). It is important to select your circuit(s) when ordering.

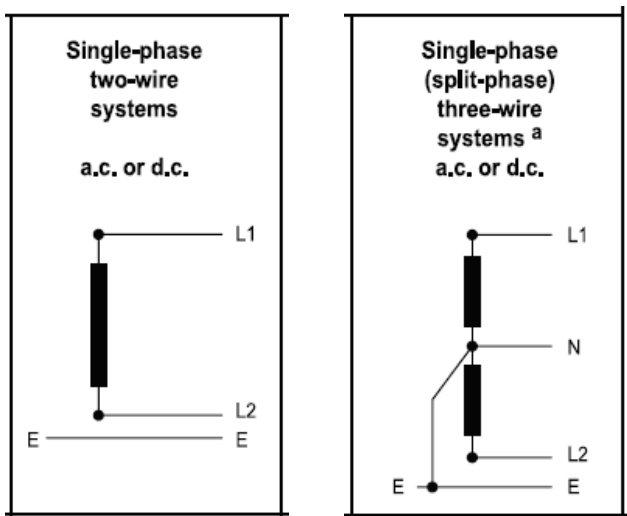
The M60 device utilizes the M50 bezel (shown on previous page) and is capable of measuring up to 4 outlets (circuit 1 or circuit 2). The difference between 'M' and 'V' is that M60 series meters are capable of monitoring the current of the entire unit, and V60 series meters are capable of monitoring up to 4 individual devices.

M60 devices support the following voltages:

**High Voltage:** 120-300VDC or split phase 120VDC (+/- 60VDC) to 380VDC (+/- 190VDC)

**Low Voltage:** 48 VDC

Each unit is calibrated for accuracy within 1% of energy.



M60 meters are capable of supporting single phase, 120VDC - 300VDC or split phase 120VDC (+/- 60VDC) to 380VDC(+/-190VDC).

*\*12VDC & 24VDC applications are not supported at this time.*

*\*\*Meter is capable of reporting A to B voltages (as shown above). A to N + B to N voltages will not be reported.*

## CIRCUIT BREAKER UNITS, NO DEVICES: PRODUCT NUMBERS

[illegible]

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US		<b>14. Accessories</b> <i>(optional accessories for plugs)</i> <b>N</b> N/A <b>C</b> Circuit Breaker Interlock <b>S</b> Seismic Hanger <b>F</b> Finger Shroud <b>P</b> Padlock Adapter for Circuit Breaker <b>R</b> IR Window	
<b>2. Product Type</b> <i>(section component)</i> <b>C</b> Circuit Breaker Unit <b>F</b> Fused Disconnect Unit		<b>15. Meter</b> <b>M51</b> Single Eth./WiFi, ≤480V Y, ≤277V Δ <b>M53</b> Single Eth./No WiFi, ≤480V Y, ≤277V Δ <b>M58</b> Dual Eth, ≤480V Y, ≤277V Δ <b>M59</b> Dual Eth/Dual Modbus, ≤480V Y, ≤277V Δ <b>M56</b> Dual Eth/Dual Modbus, ≤480V Y, ≤277V Δ, Breaker Monitoring	
<b>3. Compatibility</b> <i>(frame compatibility)</i> <b>T3</b> T3 System <b>R5</b> T3 System (Rotating Paddle) <b>K5</b> T3 System (Limiting Strip) <b>Z5</b> K5 + R5		<b>16. Meter Options</b> <i>(M50 AC)</i> <b>S</b> Standard <b>D</b> Display <b>N</b> (Measured) Neutral <b>P</b> Professional (D+N) <b>*16. Meter Options</b> <i>(M60 DC)</i> <b>S</b> Standard (High Voltage) <b>D</b> Display (High Voltage) <b>P</b> Standard (48 VDC) <b>Q</b> Display (48 VDC) <i>M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC (+/-60) to 380 VDC (+/-180) OR Low Voltage: 48 VDC</i>	
<b>4. Ground</b> <i>(ground type installed)</i> <b>C</b> Case (Housing) Ground <b>G</b> Isolated (Separate) Ground <b>D</b> Dedicated Ground		<b>17. Meter Configuration</b> <b>1</b> LL power, Delta Solid Core, mV CT <b>3</b> LN power, Wye Solid Core, mV CT <b>4</b> LL power, Delta Solid Core, 5A-secondary CT <b>6</b> LN power, Wye Solid Core, 5A-secondary CT <b>7</b> LL power, Delta Split Core, mV CT <b>9</b> LN power, Wye Split Core, mV CT <b>K</b> LL power, Delta Split Core, 5A-secondary CT <b>M</b> LN power, Wye Split Core, 5A-secondary CT <b>*14. Meter Configuration</b> <i>(M60 DC)</i> <b>1</b> Circuit 1 Only, Solid Core <b>2</b> Circuit 2 Only, Solid Core <b>3</b> Both Circuits, Solid Core	
<b>5. Box</b> <i>(what size enclosure)</i> <b>01, 02, ... 99</b> (refer to enclosure reference <b>page 3.55</b> )		<b>18. Drop Cord Tape Marking</b> <b>3</b> Black <b>4</b> White <b>6</b> Red <b>7</b> Blue <b>8</b> Green	
<b>6. Orientation</b> <i>(what direction the paddle faces)</i> <b>S</b> Standard <b>R</b> Reversed		<b>STD</b> Paint Factory Silver <b>BLK</b> Paint Factory Black <b>WHT</b> Paint Factory White <b>RED</b> Paint Factory Red <b>BLU</b> Paint Factory Blue <b>**RAL</b> <i>(please see page 3.38)</i>	
<b>7. Interrupt Rating</b> <i>(interrupt rating of the breakers in K)</i> <b>10, 14, 22, 25, 30, 35, 50, 65, CC (CC = 200,000)</b> (for US)			
<b>8. Circuit Protection Quantity</b> <b>1, 2, 3, 4, 5, 6</b>			
<b>9. Amperage</b> <b>015, 020, 030, 600</b>			
<b>10. Poles</b> <i>(number of poles in a circuit)</i> <b>1, 2, 3, 4, 5</b>			
<b>11. Voltage</b> <b>120, 240, 277, 300, 415, 480, 600</b>			
<b>*12. Drop Cord Length</b> <i>(length of drop cord)</i> <b>010</b> 1 foot <b>XXY</b> XX=feet, Y=inches <i>(only can be chosen in 6" increments) For any device configuration chosen over 70 amps, the max. drop cord length is 10 feet (100)</i>			
<b>*13. Number of Wires</b> <i>(M50 AC)</i> <b>2, 3, 4, 5</b>			
<b>EXAMPLE</b>			

Track Busway Product Selection Guide | T1-T5 US Systems

## CORDED METERS

<b>U</b>	<b>CCPM</b>	<b>M</b>	<b>51</b>	<b>S</b>	<b>1</b>	<b>-</b>	<b>L515</b>	<b>C</b>
1. System	2. Product Type	3. Monitoring Capabilities	4. Meter Features	5. Meter Variations	6. System Voltage		7. Wiring Device or Cord Set	8. Device Style
			<b>- XXXX</b>	<b>- C</b>	<b>- BLK</b>			
		9. Length (end to end)		10. Meter Location on the Cord	11. Paint Color			

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US			
<b>2. Product Type</b> <i>(section component)</i> <b>CCPM</b> Corded CPM			
<b>3. Monitoring Compatibilities</b> <b>M</b> Paddle/Feed Monitoring			
<b>4. Meter Features</b> <b>51</b> Single Ethernet WiFi <b>53</b> Single Ethernet <b>58</b> Dual Ethernet <b>59</b> Dual Ethernet, Modbus			
<b>5. Meter Variations</b> <b>S</b> Standard Unit <b>D</b> Display			
<b>6. System Voltage</b> <b>1</b> Line-Line <b>3</b> Line-Neutral			
<b>7. Wiring Device or Cord Set</b> Options listed on <b>page 3.65</b>			
<b>8. Device Style</b> <b>C</b> Connector Body <b>R</b> Receptacle <b>D</b> Duplex <b>Q</b> Quad Receptacle			
<b>9. Length</b> <i>(end to end)</i> <b>XXXX</b> Length will be selected when ordering. There will always be four X's for these characters. (lengths range from 4 to 25 feet in increments of 1 foot)			
<b>10. Meter Location on the Cord</b> <b>C</b> Center <b>T</b> Top <b>B</b> Bottom			
<b>11. Paint Color</b> <b>STD</b> Paint Factory Silver <b>RED</b> Paint Factory Red <b>BLK</b> Paint Factory Black <b>BLU</b> Paint Factory Blue <b>WHT</b> Paint Factory White <b>**RAL</b> <i>(please see page 3.38)</i>			





# T3 PLUG-IN UNITS

## WIRING DEVICE/CORD SET OPTIONS

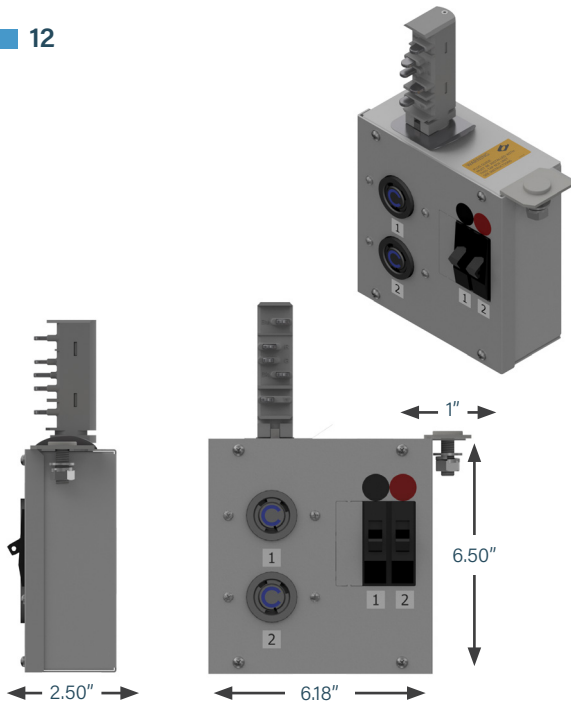
AC NEMA/IEC NAME	VOLTAGE	CURRENT
CS6360C	125V	50
CS6364C	125/250V	50
CS8264C	250V	50
CS8364C	250V	50
CS8164C	480V	50
CS8464C	480V	50
515D	125V	15
515	125V	15
520D	125V	20
520	125V	20
530	125V	30
615D	250V	15
615	250V	15
620D	250V	20
620	250V	20
630	250V	30
L1420	125/250V	20
L1430	125/250V	30
L1520	250V	20
L1530	250V	30
L1620	480V	20
L1630	480V	30
L2120	120/208V	20
L2130	120/208V	30
L2220	277/480V	20
L2230	277/480V	30
L2320	347/600V	20
L2330	347/600V	30
L515	125V	15
L520	125V	20
L530	125V	30
L615	250V	15
L620	250V	20
L630	250V	30
L715	277V	15
L720	277V	20
L730	277V	30
L820	480V	20
L830	480V	30
316C4S	110V	16
332C4S	110V	32
363C4S	110V	63
320C4S	125V	20
330C4S	125V	30
360C4S	125V	60
520C9W	120/208V	20
530C9W	120/208V	30
560C9W	120/208V	60
316C6S	230V	16
332C6S	230V	32
363C6S	230V	63

AC NEMA/IEC NAME	VOLTAGE	CURRENT
420C12W	125/250V	20
430C12W	125/250V	30
460C12W	125/250V	60
320C6W	250V	20
330C6W	250V	30
360C6W	250V	60
320C5W	277V	20
330C5W	277V	30
360C5W	277V	60
416C4S	110V	16
432C4S	110V	32
463C4S	110V	63
416C9S	230V	16
432C9S	230V	32
463C9S	230V	63
420C9S	250V	20
430C9S	250V	30
460C9S	250V	60
416C6S	415V	16
432C6S	415V	32
463C6S	415V	63
420C7S	480V	20
430C7S	480V	30
460C7S	480V	60
516C6S	230/400V	16
532C6S	230/400V	32
563C6S	230/400V	63
316C9S	415V	16
332C9S	415V	32
363C9S	415V	63
520C7S	277/480V	20
530C7S	277/480V	30
560C7S	277/480V	60
320C7W	480V	20
330C7W	480V	30
360C7W	480V	60
15A-300V	300V	15
16A-300V	300V	16
20A-300V	300V	20
30A-300V	300V	30
32A-300V	300V	32
50A-300V	300V	50
60A-300V	300V	60
63A-300V	300V	63
15A-480V	480V	15
16A-480V	480V	16
20A-480V	480V	20
30A-480V	480V	30
32A-480V	480V	32
50A-480V	480V	50
60A-480V	480V	60
63A-480V	480V	63

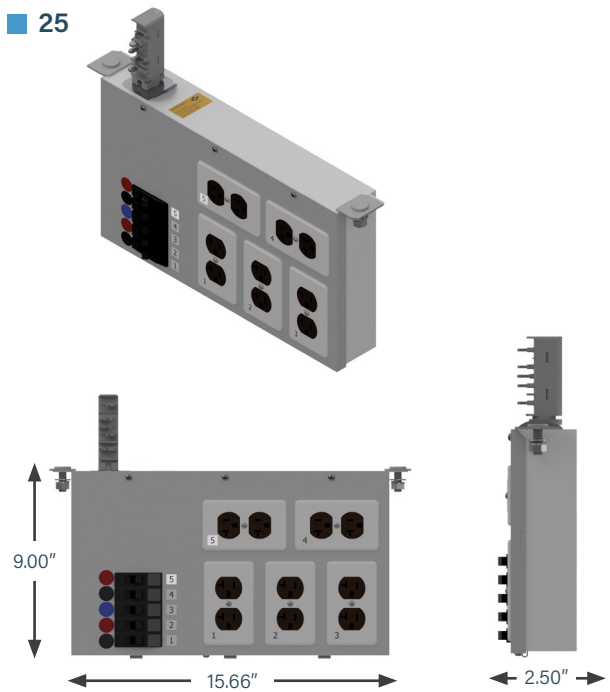
# T3 PLUG-IN UNITS

## BOX SIZES & STYLES

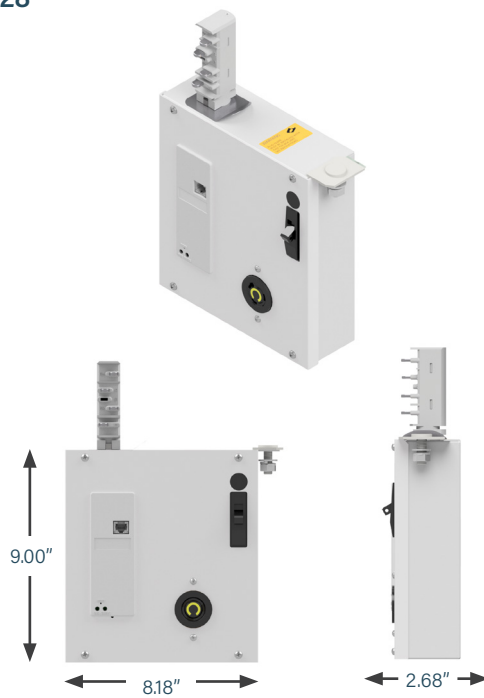
■ 12



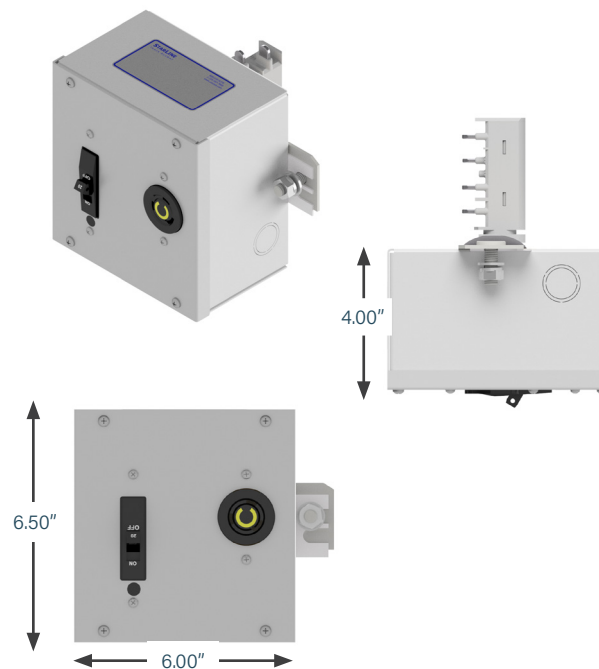
■ 25



■ 28



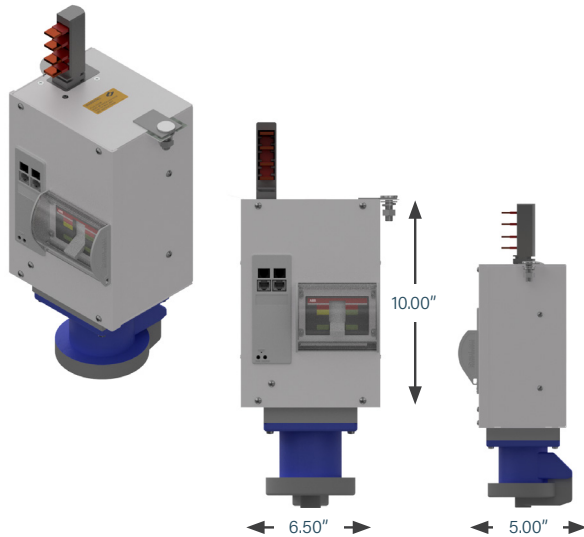
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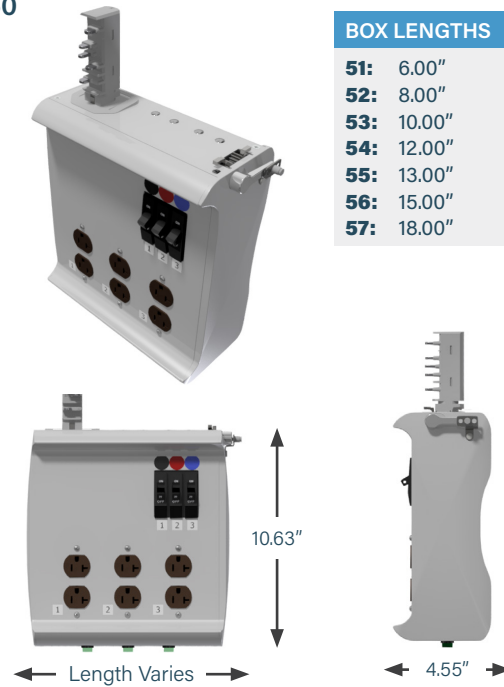
# T3 PLUG-IN UNITS

## BOX SIZES & STYLES

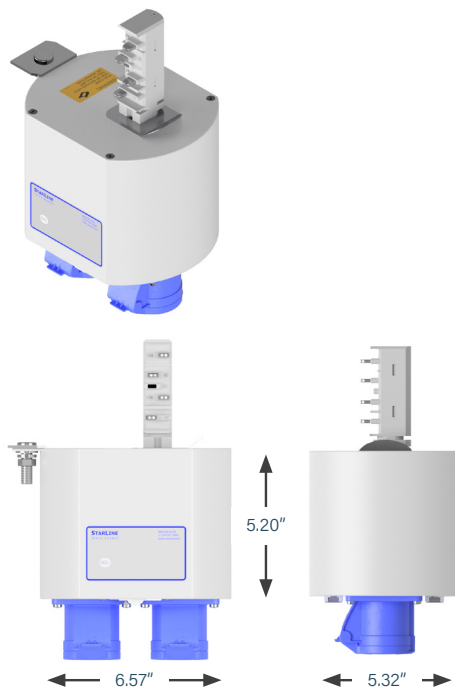
■ 37



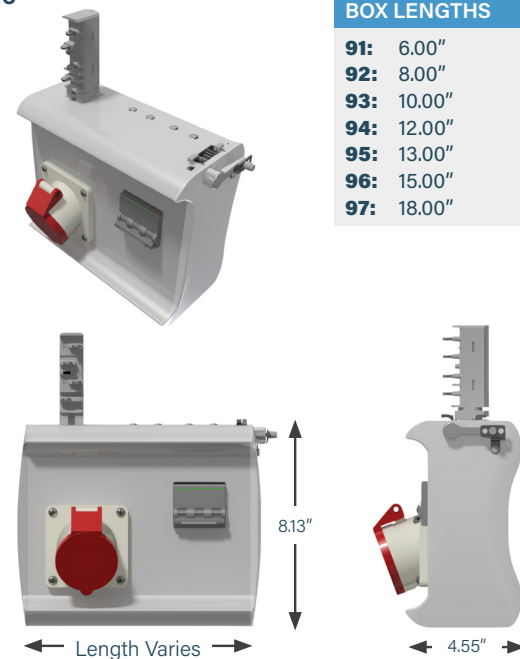
■ 50



■ 70



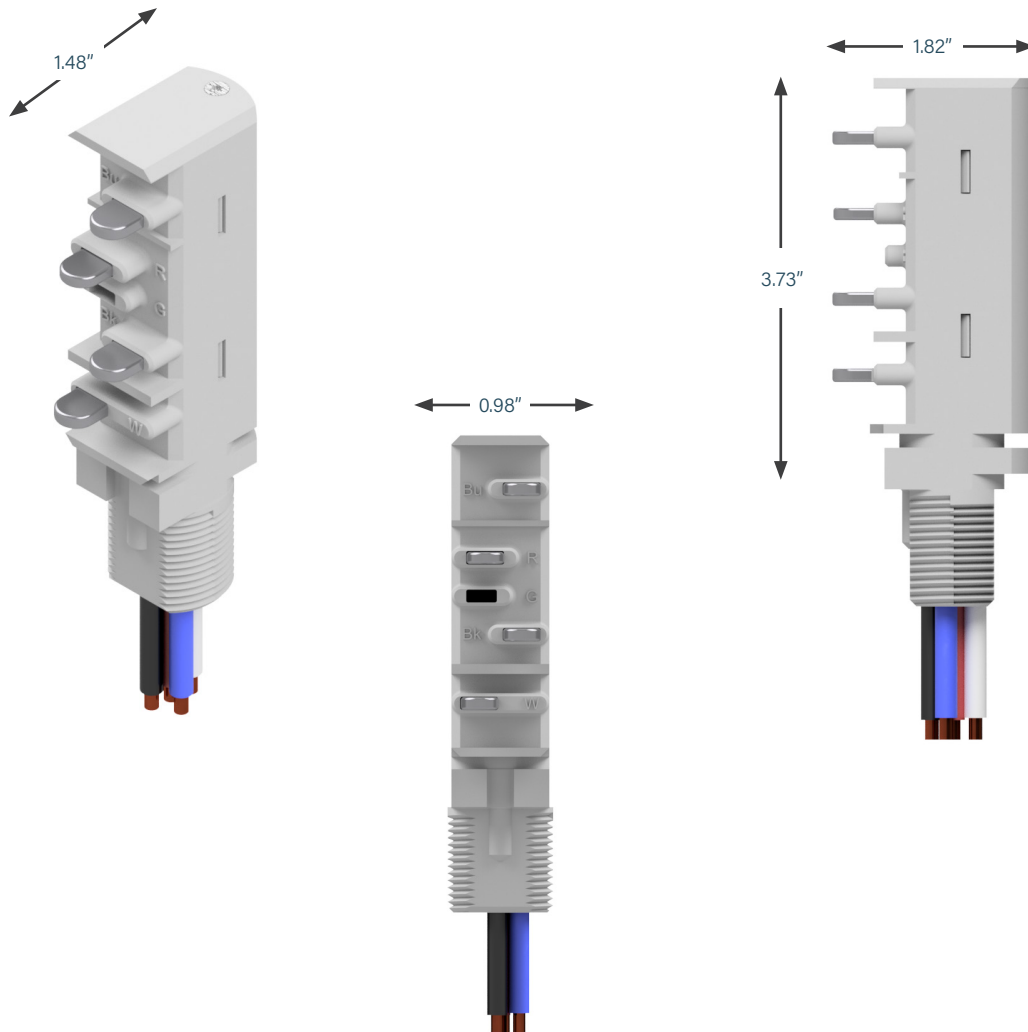
■ 90



# T3 PLUG-IN UNITS

## BOX SIZES & STYLES

### ■ T3 PADDLE



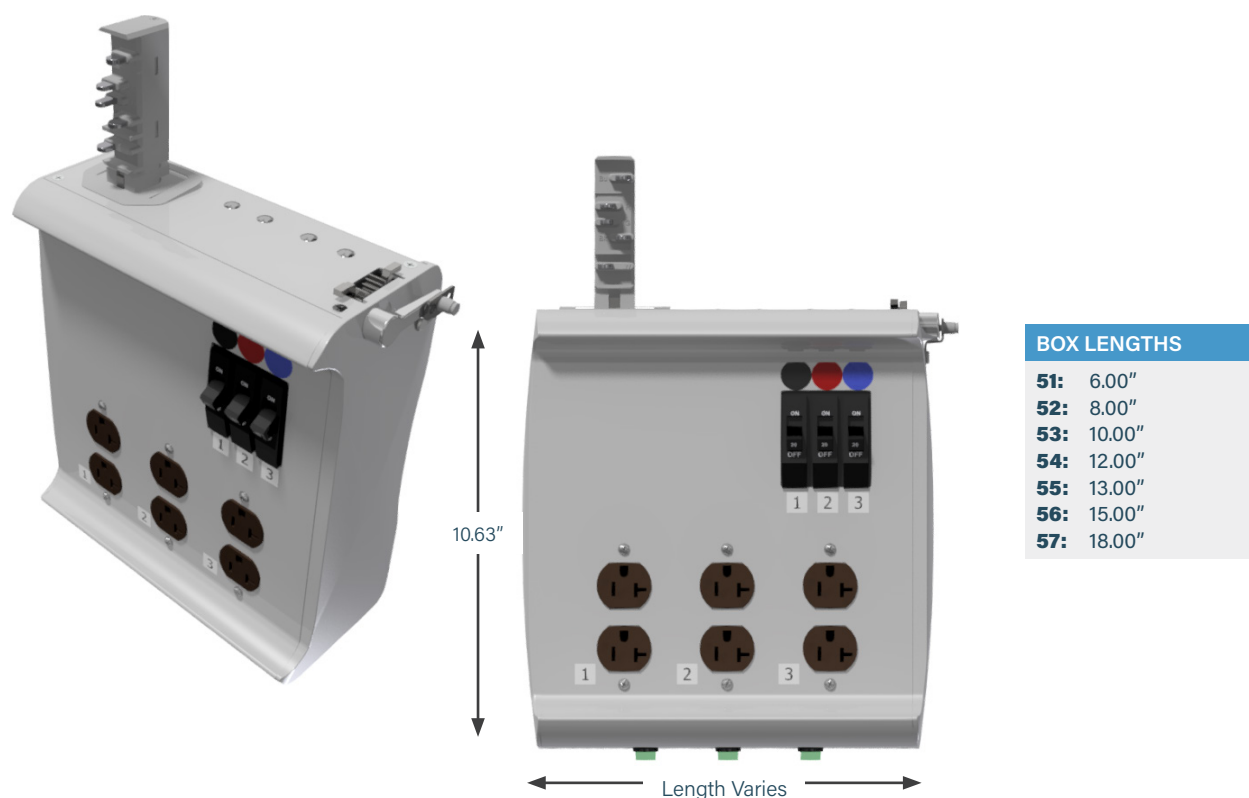
# T3 PLUG-IN UNITS

## 50 SERIES ENCLOSURE CUT SHEET

### PRODUCT DESCRIPTION

Next-generation, custom engineered enclosure that features a stylish exterior combined with a spacious interior and customizable body length to accommodate a wide variety of applications. The 50 Series enclosure is designed to tap off power from the busway. The option is available to have a reverse paddle such that the enclosure faces in the opposite direction when in the busway.

- Configurable unit length for multiple circuit breaker pole positions.
- Consult factory for possible combinations\*



### EXAMPLES

**UCT3C54S-22-2ACFN-STD** = US System, Circuit Breaker Plug, T3 System, Case (Housing) Ground, 54 Box, Standard Orientation, 22 Interrupt Rating, 2 Devices, L21-30, Front Located, No Accessories, PPG Anodized Silver

**UCT3G53S-10-2EMFN-STD** = US System, Circuit Breaker Plug, T3 System, Isolated (Separate) Ground, 53 Box, Standard Orientation, 10 Interrupt Rating, 2 Devices, IGL15-30, Front Located, No Accessories, PPG Anodized Silver

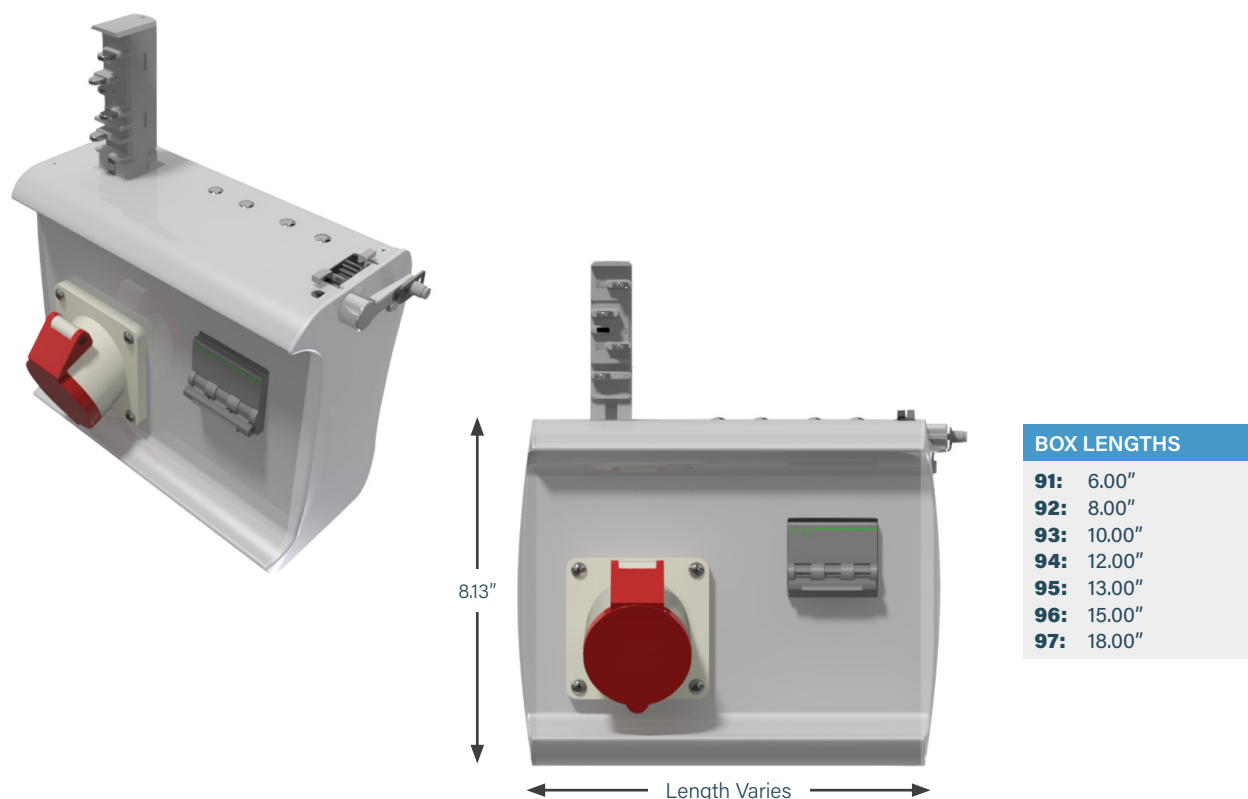
# T3 PLUG-IN UNITS

## 90 SERIES ENCLOSURE CUT SHEET

### ■ PRODUCT DESCRIPTION

Next-generation, custom engineered enclosure that features a stylish exterior combined with a spacious interior and customizable body length to accommodate a wide variety of applications. The 90 Series enclosure is designed to tap off power from the busway. The option is available to have a reverse paddle such that the enclosure faces in the opposite direction when in the busway.

- Configurable unit length for multiple circuit breaker pole positions.
- Consult factory for possible combinations\*



### ■ EXAMPLES

**UCT3C93S-50-1AKFN-STD** = US System, Circuit Breaker Plug, T3 System, Case (Housing) Ground, 93 Box, Standard Orientation, 50 Interrupt Rating, 1 Device, CS8369, Front Located, No Accessories, PPG Anodized Silver

**UCT3C94S-10-2BGB050F-STD** = US System, Circuit Breaker Plug, T3 System, Case (Housing) Ground, 94 Box, Standard Orientation, 10 Interrupt Rating, 2 Devices, I6-30, Bottom Located, 5 foot Drop Cord, Finger Shroud, PPG Anodized Silver IGL15-30, Front Located, No Accessories, PPG Anodized Silver

# T3 PLUG-IN UNITS

## US DEVICE CODE TABLE

NEMA Connectors				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
BS	5-15C	Connector	120	1PNG
FF	5-15Q-X	Connector	120	1PNG
BD	5-20C	Connector	120	1PNG
FG	5-20-Q-X	Connector	120	1PNG
BB	6-15C	Connector	240	2PG
FH	6-15Q-X	Connector	240	2PG
BC	6-20C	Connector	240	2PG
FI	6-20Q-X	Connector	240	2PG
CO	L14-20C	Connector	120/208	2PNG
CN	L14-30C	Connector	120/208	2PNG
CM	L15-20C	Connector	240	3PG
CL	L15-30C	Connector	240	3PG
CE	L16-20C	Connector	480	3PG
CD	L16-30C	Connector	480	3PG
CS	L21-20C	Connector	120/208	3PNG
CT	L21-30C	Connector	120/208	3PNG
FA	L22-20C	Connector	277/480	3PNG
EZ	L22-30C	Connector	277/480	3PNG
BR	L5-15C	Connector	120	1PNG
BE	L5-20C	Connector	120	1PNG
BF	L5-30C	Connector	120	1PNG
BA	L6-15C	Connector	240	2PG
BH	L6-20C	Connector	240	2PG
BG	L6-30C	Connector	240	2PG
CK	L7-15C	Connector	277	1PNG
CJ	L7-20C	Connector	277	1PNG
CF	L7-30C	Connector	277	1PNG

### WIRING CONFIGURATION REFERENCE TABLE

1 = Number of poles

P = Poles

N = Neutral

G = Ground

Pin & Sleeve Connectors				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
BJ	360C6W	Connector	240	2PG
BQ	420C6W	Connector	240	2PNG
BW	430C7W	Connector	480	3PG
BP	430C9W	Connector	240	3PG
BX	460C7W	Connector	480	3PG
EJ	460C9S	Connector	240	3PG
EI	460C9W	Connector	240	3PG
BZ	520C6S	Connector	240/415	3PNG
CC	530C6S	Connector	240/415	3PNG
EX	530C6W	Connector	240/415	3PNG

# T3 PLUG-IN UNITS

## US DEVICE CODE TABLE

Pin & Sleeve Connectors (Continued)				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
<b>CH</b>	530C7S	Connector	480	3PNG
<b>BI</b>	530C9W	Connector	240/415	3PNG
<b>CB</b>	560C6S	Connector	240/415	3PNG
<b>CI</b>	560C7S	Connector	480	3PNG
<b>EH</b>	560C9W	Connector	120/208	3PNG
<b>BV</b>	320C6S	Connector	240	2PG
<b>BU</b>	330C6S	Connector	240	2PG
<b>BT</b>	360C6S	Connector	240	2PG
<b>BO</b>	560C9S	Connector	120/208	3PNG

### WIRING CONFIGURATION REFERENCE TABLE

1 = Number of poles

P = Poles

N = Neutral

G = Ground

NEMA Receptacles				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
<b>DD</b>	14-20R	Receptacle	120/208	2PNG
<b>DC</b>	14-30R	Receptacle	120/208	2PNG
<b>CW</b>	14-50R	Receptacle	120/208	2PNG
<b>CV</b>	14-60R	Receptacle	120/208	2PNG
<b>CU</b>	15-20R	Receptacle	240	3PG
<b>CY</b>	15-30R	Receptacle	240	3PG
<b>DI</b>	15-50R	Receptacle	240	3PG
<b>DH</b>	15-60R	Receptacle	240	3PG
<b>AW</b>	5-15D	Receptacle	120	1PNG
<b>FB</b>	5-15Q	Receptacle	120	1PNG
<b>DN</b>	5-15R	Receptacle	120	1PNG
<b>AB</b>	5-20D	Receptacle	120	1PNG
<b>DL</b>	5-20D-GFI	Receptacle	120	1PNG
<b>FC</b>	5-20Q	Receptacle	120	1PNG
<b>DM</b>	5-20R	Receptacle	120	1PNG
<b>DV</b>	5-30R	Receptacle	120	1PNG
<b>GB</b>	6-15D	Receptacle	240	2PG
<b>FD</b>	6-15Q	Receptacle	240	2PG
<b>DU</b>	6-15R	Receptacle	240	2PG
<b>GC</b>	6-20D	Receptacle	240	2PG
<b>FE</b>	6-20Q	Receptacle	240	2PG
<b>DO</b>	6-20R	Receptacle	240	2PG
<b>DR</b>	6-30R	Receptacle	240	2PG
<b>DA</b>	6-50R	Receptacle	240	2PG
<b>CZ</b>	L14-20R	Receptacle	120/208	2PNG
<b>DB</b>	L14-30R	Receptacle	120/208	2PNG
<b>CX</b>	L15-20R	Receptacle	240	3PG
<b>AH</b>	L15-30R	Receptacle	240	3PG
<b>EO</b>	L16-20R	Receptacle	480	3PG



# T3 PLUG-IN UNITS

## US DEVICE CODE TABLE

NEMA Receptacles (Continued)				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
<b>EQ</b>	L16-30R	Receptacle	480	3PG
<b>AT</b>	L21-20R	Receptacle	120/208	3PNG
<b>AC</b>	L21-30R	Receptacle	120/208	3PNG
<b>AA</b>	L22-20R	Receptacle	277/480	3PNG
<b>AF</b>	L22-30R	Receptacle	277/480	3PNG
<b>AS</b>	L5-15D	Receptacle	120	1PNG
<b>AP</b>	L5-15R	Receptacle	120	1PNG
<b>AG</b>	L5-20R	Receptacle	120	1PNG
<b>AO</b>	L5-30R	Receptacle	120	1PNG
<b>DP</b>	L6-15D	Receptacle	240	2PG
<b>DQ</b>	L6-15R	Receptacle	240	2PG
<b>AI</b>	L6-20R	Receptacle	240	2PG
<b>AD</b>	L6-30R	Receptacle	240	2PG
<b>ES</b>	L7-15D	Receptacle	277	1PNG
<b>ER</b>	L7-15R	Receptacle	277	1PNG
<b>AQ</b>	L7-20R	Receptacle	277	1PNG
<b>EP</b>	L7-30R	Receptacle	277	1PNG

### WIRING CONFIGURATION REFERENCE TABLE

1 = Number of poles

P = Poles

N = Neutral

G = Ground

Pin & Sleeve Receptacles				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
<b>FJ</b>	316A6S	Receptacle	240/415	2PG
<b>FK</b>	316A6W	Receptacle	240/415	2PG
<b>FL</b>	316R6S	Receptacle	240/415	2PG
<b>FM</b>	320A6S	Receptacle	240/415	2PG
<b>FN</b>	320A6W	Receptacle	240/415	2PG
<b>FO</b>	332A6S	Receptacle	240/415	2PG
<b>FP</b>	332A6W	Receptacle	240/415	2PG
<b>FQ</b>	332A9S	Receptacle	240/415	2PG
<b>FR</b>	332R6S	Receptacle	240/415	2PG
<b>DG</b>	360R6W	Receptacle	240	2PG
<b>FS</b>	363R6S	Receptacle	240/415	2PG
<b>DF</b>	430R9W	Receptacle	240	3PG
<b>AU</b>	460R9S	Receptacle	240	3PG
<b>AN</b>	460R9W	Receptacle	240	3PG
<b>FT</b>	5125R6S	Receptacle	240/415	3PNG
<b>FU</b>	516A6S	Receptacle	240/415	3PNG
<b>FV</b>	516A6W	Receptacle	240/415	3PNG
<b>FW</b>	516R6S	Receptacle	240/415	3PNG
<b>FX</b>	520A6W	Receptacle	240/415	3PNG
<b>FY</b>	520R6S	Receptacle	240/415	3PNG
<b>AR</b>	530R6S	Receptacle	240/415	3PNG
<b>FZ</b>	532A6S	Receptacle	240/415	3PNG
<b>GA</b>	532A6W	Receptacle	240/415	3PNG

# T3 PLUG-IN UNITS

## US DEVICE CODE TABLE

Pin & Sleeve Receptacles (Continued)				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
<b>BY</b>	560R6S	Receptacle	240/415	3PNG
<b>DS</b>	360C4W	Receptacle	120	1PNG

Isolated Ground Receptacles				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
<b>EN</b>	IG14-30R	Receptacle	120/208	2PNG
<b>AX</b>	IG5-20D	Receptacle	120	1PNG
<b>EA</b>	IG5-20R	Receptacle	120	1PNG
<b>DY</b>	IG6-20D	Receptacle	240	2PG
<b>DZ</b>	IG6-20R	Receptacle	240	2PG
<b>EK</b>	IGL14-20R	Receptacle	120/208	2PNG
<b>ET</b>	IGL15-20R	Receptacle	240	3PG
<b>EM</b>	IGL15-30R	Receptacle	240	3PG
<b>EL</b>	IGL21-20R	Receptacle	120/208	3PNG
<b>EG</b>	IGL21-30R	Receptacle	120/208	3PNG
<b>EU</b>	IGL22-20R	Receptacle	277/480	3PNG
<b>EV</b>	IGL22-30R	Receptacle	277/480	3PNG
<b>EB</b>	IGL5-15R	Receptacle	120	1PNG
<b>AY</b>	IGL5-20R	Receptacle	120	1PNG
<b>ED</b>	IGL5-30R	Receptacle	120	1PNG
<b>DW</b>	IGL6-15D	Receptacle	240/415	2PG
<b>DX</b>	IGL6-15R	Receptacle	240/415	2PG
<b>AM</b>	IGL6-20R	Receptacle	240/415	2PG
<b>AZ</b>	IGL6-30R	Receptacle	240/415	2PG

California Connectors				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
<b>CP</b>	CS6360C	Connector	120	1PNG
<b>CG</b>	CS8164C	Connector	480	3PG
<b>CR</b>	CS8264C	Connector	240	2PG
<b>CQ</b>	CS8364C	Connector	240	3PG

California Receptacles				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
<b>DK</b>	CS6369	Receptacle	120/208	2PNG
<b>DE</b>	CS8269	Receptacle	240	2PG
<b>AK</b>	CS8369	Receptacle	240	3PG

Other				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
<b>XX</b>	Custom Device (ex: colored receptacle, etc.)			

### WIRING CONFIGURATION REFERENCE TABLE

1 = Number of poles

P = Poles

N = Neutral

G = Ground

# S3 PLUG-IN UNITS

## S3 PLUG-IN UNITS

### ■ PRODUCT DESCRIPTION

S3 Plug-in Units are designed to provide the same "plug and play" flexibility as T3 Plug-in Units, but with added ingress protection. These Plug-In units have been tested and certified to meet the additional IP54 ingress protection levels of the overall system.

### OPTIONS:

1. Receptacle Box/Drop Cord Units
2. Circuit Breaker Units Only
3. Meter Plugs

### GENERAL SPECS:

- Three (3) Standard size enclosures
  - ES1 – Up to 3 poles available
  - ES2 – Up to 6 poles available
  - ES3 – Up to 9 poles available
- Clear cover protects breakers and meter while maintaining status visibility
- UV, Corrosion, and impact-resistant materials
- NEMA & IEC water tight devices available
- Bottom or Front-Mounted receptacles available
- Breaker actuators for floor operability
- Lock-out lids and breaker
- Up to 125A and 600V per box
- Compatible with Starline Critical Power Monitors
- Wide range of configuration options

**Note:** All Series-S Plug-in Units come standard with Tap-off seal assembly.  
To order separately, please see page 3.43



# S3 PLUG-IN UNITS

## S3 ENCLOSURE STYLE OPTIONS

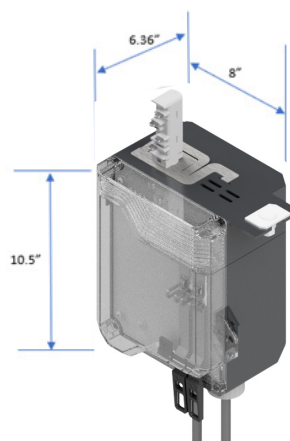
### ■ ES1 ENCLOSURE

#### Dimensions(in):

H: 10.5"  
W: 8"  
D: 6.36"

#### Configuration Options:

- Up to 3 Poles
- Up to 3 drop cords
- Meter available
- 1 Bottom-Mounted receptacle



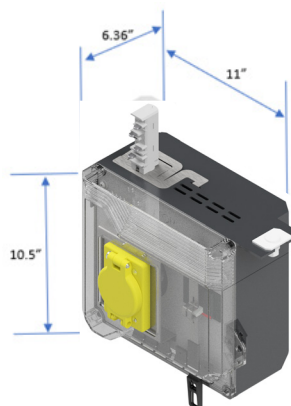
### ■ ES2 ENCLOSURE

#### Dimensions(in):

H: 10.5"  
W: 11"  
D: 6.36"

#### Configuration Options:

- Up to 6 Poles
- Up to 6 drop cords
- Meter available
- 1 Front-Mounted or Bottom-Mounted receptacle



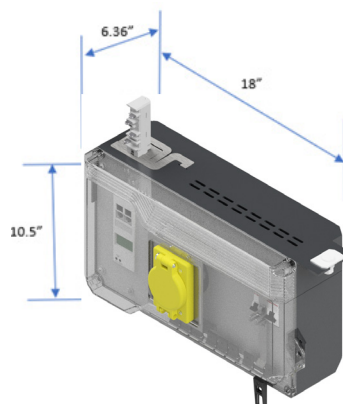
### ■ ES3 ENCLOSURE

#### Dimensions(in):

H: 10.5"  
W: 18"  
D: 6.36"

#### Configuration Options:

- Up to 9 Poles
- Up to 8 drop cords
- Meter available
- Up to 2 Front-Mounted receptacles



# S3 PLUG-IN UNITS

## SYSTEM & BUILD GUIDE

The below is a suggested list of questions to determine answers to in order to properly build or assemble both Track Busway systems and plugs.

### WHEN BUILDING SYSTEMS

1. What is the amperage needed for the system? (100, 225, etc..)
2. Does the system need an internal ground?
3. Are there any limitations on the length of a run? (5ft max, 10ft max)

### WHEN DETERMINING DESIRED PLUG CONFIGURATIONS

1. What type of system is this being used on? (S3)
2. Does the system have an internal ground? If so, does the plug need to be wired Isolated or Dedicated ground/earth?
3. What is the fault current needed for the breaker? (10kAIC, 22kAIC, etc...)
4. Does the plug need to have drop cords or receptacles?
5. What is the device configuration of the connector bodies or receptacles?
6. What is your desired MCB configuration? (phase, amperage, poles?)
7. Do you require metering?
8. How many outlets are needed?
9. What is the trip curve needed?
10. What MCB brand is preferred?
11. What is the voltage required?

# S3 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT UNITS W/ DEVICES: PRODUCT NUMBERS

<b>U</b>	<b>C</b>	<b>S3</b>	<b>C</b>	<b>S3</b>	<b>S</b>	<b>-</b>	<b>14</b>	<b>-</b>	<b>1</b>	
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity			
<b>RU</b>	<b>F</b>	<b>010</b>	<b>N</b>	<b>-</b>	<b>M51</b>	<b>D</b>	<b>-</b>	<b>STD</b>	<b>0</b>	<i>*Optional</i>
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options	15. Paint Color	*16. Drop Cord Tape Marking			

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>12. Accessories</b> <i>(optional accessories for plugs)</i> <b>N</b> N/A
<b>2. Product Type</b> <i>(section component)</i> <b>C</b> Circuit Breaker Unit <b>F</b> Fused Disconnect Unit	<b>*13. Meter Release (M50 AC)</b> <b>V51</b> Single Eth./WiFi, ≤480V Y, ≤277V Δ <b>V53</b> Single Eth./No WiFi, ≤480V Y, ≤277V Δ <b>V58</b> Dual Eth., ≤480V Y, ≤277V Δ <b>V59</b> Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ <b>V56</b> Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ, Breaker Monitoring <b>V57</b> Dual Eth, Breaker Monitoring ≤480V Y, ≤277V Δ
<b>3. Compatibility</b> <i>(frame compatibility)</i> <b>S3</b> S3 System	<b>*13. Meter Release (M60 DC)</b> <b>M61</b> Single Eth./WiFi, single phase, VDC <b>M63</b> Single Eth./No WiFi, single phase, VDC <b>M67</b> Dual Eth., single phase, VDC <b>M69</b> Dual Eth./Dual Modbus, single phase, VDC
<b>4. Ground</b> <i>(ground type installed)</i> <b>C</b> Case (Housing) Ground <b>D</b> Dedicated Ground <b>G</b> Isolated (Separate) Ground	<b>*14. Meter Options (M50 AC)</b> <b>S</b> Standard <b>N</b> (Measured) Neutral <b>D</b> Display <b>P</b> Professional (D+N)
<b>5. Box</b> <i>(what size enclosure)</i> <b>S1, S2, or S3</b> (refer to S3 Enclosure Style Options, page 3.76)	<b>*14. Meter Options (M60 DC)</b> <b>S</b> Standard (High Voltage) <b>P</b> Standard (48 VDC) <b>D</b> Display (High Voltage) <b>Q</b> Display (48 VDC) <i>M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC (+/-60) to 380 VDC (+/-180) OR Low Voltage: 48 VDC</i>
<b>6. Orientation</b> <i>(what direction the paddle faces)</i> <b>S</b> Standard <b>R</b> Reversed	<b>15. Paint Color</b> <b>STD</b> Standard Dark Gray <b>NOTE:</b> Consult Factory for other options
<b>7. Interrupt Rating</b> <i>(interrupt rating of the breakers in K)</i> <b>10, 14, 22, 25, 30, 35, 50, 65, CC (CC = 200,000)</b> (for U.S.)	<b>16. Drop Cord Tape Marking</b> <b>3</b> Tape Factory Black <b>7</b> Tape Factory Blue <b>4</b> Tape Factory White <b>8</b> Tape Factory Green <b>6</b> Tape Factory Red <b>9</b> Tape Factory Yellow
<b>8. Device Quantity</b> <i>(quantity of device 1)</i> <b>1, 2, 3, 4, 5, 6, 7, 8</b> (for more than 1 device type, refer to S3 Device Code Table, page 3.79)	
<b>9. Device</b> <i>(quantity of device 1)</i> <b>AA, AB, ...ZZ</b> (refer to S3 Device Code Table, page 3.79)	
<b>*10. Mount Location</b> <i>(with respect to busway polarizing stripe)</i> <b>F</b> Front <b>B</b> Bottom	
<b>*11. Drop Cord Length</b> <i>(location of optional meter)</i> <b>XXY:</b> XX = feet, Y = Inches (010 = 1 foot, 0 inches) <i>(only can be chosen in 6" increments)</i> <b>***For any device configuration chosen over 70 amps, the max. drop cord length is 10 feet (100)</b>	

### EXAMPLE

**UCS3CS3S-22-2QSFN-STD0** = US System, Circuit Breaker Only Unit, S3 System, Case Ground, ES3 Box, Standard Orientation, 22 kA Interrupt Rating, 2 Devices, NEMA L5-15R-IP receptacles, front mount location, no accessories, no meter, standard dark gray color.

# S3 PLUG-IN UNITS

## US DEVICE CODE TABLE

NEMA Connectors							
Code	Type	Designation	Device Type	Voltage	Amperage	Wiring Configuration	IP Rating
RU	NEMA	5-15C-IP	CONNECTOR	120	15	1PNG	IP67
PV	NEMA	L5-15C-IP	CONNECTOR	120	15	1PNG	IP67
RV	NEMA	6-15C-IP	CONNECTOR	240	15	2PG	IP67
PW	NEMA	L6-15C-IP	CONNECTOR	240	15	2PG	IP67
PX	NEMA	L7-15C-IP	CONNECTOR	277	15	1PNG	IP67
RW	NEMA	5-20C-IP	CONNECTOR	120	20	1PNG	IP67
PY	NEMA	L5-20C-IP	CONNECTOR	120	20	1PNG	IP67
RX	NEMA	6-20C-IP	CONNECTOR	240	20	2PG	IP67
PZ	NEMA	L6-20C-IP	CONNECTOR	240	20	2PG	IP67
QC	NEMA	L15-20C-IP	CONNECTOR	240	20	3PG	IP67
QA	NEMA	L7-20C-IP	CONNECTOR	277	20	1PNG	IP67
QD	NEMA	L16-20C-IP	CONNECTOR	480	20	3PG	IP67
QG	NEMA	L23-20C-IP	CONNECTOR	600	20	3PNG	IP67
QB	NEMA	L14-20C-IP	CONNECTOR	120/208	20	2PNG	IP67
QE	NEMA	L21-20C-IP	CONNECTOR	120/208	20	3PNG	IP67
QF	NEMA	L22-20C-IP	CONNECTOR	277/480	20	3PNG	IP67
QH	NEMA	L5-30C-IP	CONNECTOR	120	30	1PNG	IP67
QI	NEMA	L6-30C-IP	CONNECTOR	240	30	2PG	IP67
QL	NEMA	L15-30C-IP	CONNECTOR	240	30	3PG	IP67
QJ	NEMA	L7-30C-IP	CONNECTOR	277	30	1PNG	IP67
QM	NEMA	L16-30C-IP	CONNECTOR	480	30	3PG	IP67
QN	NEMA	L17-30C-IP	CONNECTOR	600	30	3PG	IP67
QR	NEMA	L23-30C-IP	CONNECTOR	600	30	3PNG	IP67
QK	NEMA	L14-30C-IP	CONNECTOR	120/208	30	2PNG	IP67
QO	NEMA	L18-30C-IP	CONNECTOR	120/208	30	3PG	IP67
QP	NEMA	L21-30C-IP	CONNECTOR	120/208	30	3PNG	IP67
QQ	NEMA	L22-30C-IP	CONNECTOR	277/480	30	3PNG	IP67

### WIRING CONFIGURATION REFERENCE TABLE

1 = Number of poles

P = Poles

N = Neutral

G = Ground

# S3 PLUG-IN UNITS

## US DEVICE CODE TABLE

Pin & Sleeve Connectors							
Code	Type	Designation	Device Type	Voltage	Amperage	Wiring Configuration	IP Rating
SU	IEC	320C7W	CONNECTOR	480	20	2PG	IP67
SY	IEC	420C7W	CONNECTOR	480	20	3PG	IP67
TA	IEC	320C9W	CONNECTOR	120/208	20	2PG	IP67
SZ	IEC	520C7W	CONNECTOR	277/480	20	3PNG	IP67
SV	IEC	330C7W	CONNECTOR	480	30	2PG	IP67
TB	IEC	330C9W	CONNECTOR	120/208	30	2PG	IP67
SW	IEC	360C7W	CONNECTOR	240	60	2PG	IP67
TC	IEC	360C9W	CONNECTOR	120/208	60	2PG	IP67
SX	IEC	3100C7W	CONNECTOR	480	100	2PG	IP67
TD	IEC	3100C9W	CONNECTOR	120/208	100	2PG	IP67
BI	IEC	530C9W	CONNECTOR	120/208	30	3PNG	IP67
BP	IEC	430C9W	CONNECTOR	250	30	3PG	IP67
BW	IEC	430C7W	CONNECTOR	480	30	3PG	IP67
BX	IEC	460C7W	CONNECTOR	480	60	3PG	IP67
EH	IEC	560C9W	CONNECTOR	120/208	60	3PNG	IP67
EI	IEC	460C9W	CONNECTOR	250	60	3PG	IP67
GI	IEC	4100C9W	CONNECTOR	250	100	3PG	IP67
GJ	IEC	560C7W	CONNECTOR	277/480	60	3PNG	IP67
GK	IEC	530C7W	CONNECTOR	277/480	30	3PNG	IP67
GR	IEC	5100C7W	CONNECTOR	277/480	100	3PNG	IP67
GS	IEC	5100C9W	CONNECTOR	120/208	100	3PNG	IP67
MK	IEC	4100C7W	CONNECTOR	480	100	3PG	IP67
NL	IEC	420C9W	CONNECTOR	250	20	3PG	IP67

### WIRING CONFIGURATION REFERENCE TABLE

1 = Number of poles

P = Poles

N = Neutral

G = Ground



# S3 PLUG-IN UNITS

## US DEVICE CODE TABLE

NEMA Receptacles							
Code	Type	Designation	Device Type	Voltage	Amperage	Wiring Configuration	IP Rating
RQ	NEMA	5-15R-IP	RECEPTACLE	120	15	1PNG	IP67
QS	NEMA	L5-15R-IP	RECEPTACLE	120	15	1PNG	IP67
RR	NEMA	6-15R-IP	RECEPTACLE	240	15	2PG	IP67
QT	NEMA	L6-15R-IP	RECEPTACLE	240	15	2PG	IP67
QU	NEMA	L7-15R-IP	RECEPTACLE	277	15	1PNG	IP67
RS	NEMA	5-20R-IP	RECEPTACLE	120	20	1PNG	IP67
QV	NEMA	L5-20R-IP	RECEPTACLE	120	20	1PNG	IP67
RT	NEMA	6-20R-IP	RECEPTACLE	240	20	2PG	IP67
QW	NEMA	L6-20R-IP	RECEPTACLE	240	20	2PG	IP67
QZ	NEMA	L15-20R-IP	RECEPTACLE	240	20	3PG	IP67
QX	NEMA	L7-20R-IP	RECEPTACLE	277	20	1PNG	IP67
RA	NEMA	L16-20R-IP	RECEPTACLE	480	20	3PG	IP67
RD	NEMA	L23-20R-IP	RECEPTACLE	600	20	3PNG	IP67
QY	NEMA	L14-20R-IP	RECEPTACLE	120/208	20	2PNG	IP67
RB	NEMA	L21-20R-IP	RECEPTACLE	120/208	20	3PNG	IP67
RC	NEMA	L22-20R-IP	RECEPTACLE	277/480	20	3PNG	IP67
RE	NEMA	L5-30R-IP	RECEPTACLE	120	30	1PNG	IP67
RF	NEMA	L6-30R-IP	RECEPTACLE	240	30	2PG	IP67
RI	NEMA	L15-30R-IP	RECEPTACLE	240	30	3PG	IP67
RG	NEMA	L7-30R-IP	RECEPTACLE	277	30	1PNG	IP67
RJ	NEMA	L16-30R-IP	RECEPTACLE	480	30	3PG	IP67
RK	NEMA	L17-30R-IP	RECEPTACLE	600	30	3PG	IP67
RN	NEMA	L23-30R-IP	RECEPTACLE	600	30	3PNG	IP67
RH	NEMA	L14-30R-IP	RECEPTACLE	120/208	30	2PNG	IP67
RL	NEMA	L21-30R-IP	RECEPTACLE	120/208	30	3PNG	IP67
RM	NEMA	L22-30R-IP	RECEPTACLE	277/480	30	3PNG	IP67

### WIRING CONFIGURATION REFERENCE TABLE

1 = Number of poles  
 P = Poles  
 N = Neutral  
 G = Ground

# S3 PLUG-IN UNITS

## US DEVICE CODE TABLE

Pin & Sleeve Receptacles							
Code	Type	Designation	Device Type	Voltage	Amperage	Wiring Configuration	IP Rating
SN	IEC	420R9W	RECEPTACLE	240	20	3PG	IP67
RY	IEC	320R7W	RECEPTACLE	480	20	2PG	IP67
SC	IEC	420R7W	RECEPTACLE	480	20	3PG	IP67
SQ	IEC	520R9W	RECEPTACLE	120/208	20	3PNG	IP67
SG	IEC	520R7W	RECEPTACLE	277/480	20	3PNG	IP67
RZ	IEC	330R7W	RECEPTACLE	480	30	2PG	IP67
SD	IEC	430R7W	RECEPTACLE	480	30	3PG	IP67
SR	IEC	530R9W	RECEPTACLE	120/208	30	3PNG	IP67
SA	IEC	360R7W	RECEPTACLE	480	60	2PG	IP67
SH	IEC	560R7W	RECEPTACLE	277/480	60	3PNG	IP67
SE	IEC	460R7W	RECEPTACLE	480	60	3PG	IP67
SO	IEC	460R9W	RECEPTACLE	120/208	60	3PG	IP67
SS	IEC	560R9W	RECEPTACLE	120/208	60	3PNG	IP67
SB	IEC	3100R7W	RECEPTACLE	480	100	2PG	IP67
SF	IEC	4100R7W	RECEPTACLE	480	100	3PG	IP67
SP	IEC	4100R9W	RECEPTACLE	120/208	100	3PG	IP67
ST	IEC	5100R9W	RECEPTACLE	120/208	100	3PNG	IP67
SI	IEC	5100R7W	RECEPTACLE	277/480	100	3PNG	IP67

### WIRING CONFIGURATION REFERENCE TABLE

1 = Number of poles

P = Poles

N = Neutral

G = Ground

## CIRCUIT BREAKER/FUSED DISCONNECT UNITS, NO DEVICES: PRODUCT NUMBERS

**EXAMPLE**

**UCS3D57S-25-203032400503N-STD0** = US System, Circuit Breaker Only Unit, S3 system, Case Ground, ES2 Box, Standard Orientation, 14kA interrupt rating, 2 circuits, 30 amps, 3 poles, 240v, 5 ft drop cord, 3 wires, no accessories, no meter, standard dark gray color

# S3 PLUG-IN UNITS

## METER PLUGS: PRODUCT NUMBERS



### 1. System (standard of measure)

**U** US

### 2. Product Type (section component)

**M** Meter Plug

### 3. Compatibility (frame compatibility)

**S3** S3 System

### 4. Ground (ground type installed)

**C** Case (Housing) Ground

### 5. Box (what size enclosure)

**S1, S2, S3** (refer to S3 Enclosure Style Options, page 3.76)

### 6. Orientation (what direction the paddle faces)

**S** Standard **R** Reversed

### 7. Current Transformer (current rating)

**065** 65 amps **225** 225 amps  
**250** 250 amps **400** 400 amps  
**800** 800 amps **1K0** 1000 amps  
**1K2** 1200 amps

*\*\*M60 (DC) meters are only available with 800 amp current transducers*

### 8. Meter Release (M50 AC)

**M51** Single Eth./WiFi, ≤480V Y, ≤277V Δ  
**M53** Single Eth./No WiFi, ≤480V Y, ≤277V Δ  
**M58** Dual Eth., ≤480V Y, ≤277V Δ  
**M59** Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ

### 8. Meter Release (M60 DC)

**M61** Single Eth./WiFi, single phase, VDC  
**M63** Single Eth./No WiFi, single phase, VDC  
**M67** Dual Eth., single phase, VDC  
**M69** Dual Eth./Dual Modbus, single phase, VDC

### 9. Meter Options (M50 AC)

**S** Standard **N** (Measured) Neutral  
**D** Display **P** Professional (D+N)

### 9. Meter Options (M60 DC)

**S** Standard (High Voltage) **P** Standard (48 VDC)  
**D** Display (High Voltage) **Q** Display (48 VDC)

*M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC (+/-60) to 380 VDC (+/-180) OR Low Voltage: 48 VDC*

### \*10. Meter Configuration (M50 AC)

**1** LL power, Delta Solid Core, mV CT  
**3** LN power, Wye Solid Core, mV CT  
**4** LL power, Delta Solid Core, 5A-secondary CT  
**6** LN power, Wye Solid Core, 5A-secondary CT  
**7** LL power, Delta Split Core, mV CT  
**9** LN power, Wye Split Core, mV CT  
**K** LL power, Delta Split Core, 5A-secondary CT  
**M** LN power, Wye Split Core, 5A-secondary CT

### \*10. Meter Configuration (M60 DC)

**1** Circuit 1 Only, Solid Core  
**2** Circuit 2 Only, Solid Core  
**3** Both Circuits, Solid Core

### 11. Paint Color

**STD** Standard Dark Gray

*Note: Consult Factory for other options*

## EXAMPLE

**UMS3CS2S-065-M59S1-STD** = US System, Meter Plug, S3 System, Case Ground, ES2 Box, Standard Orientation, 65 Current Rating, M59 Meter, Standard, LL Power, Delta Solid Core, mV CT, Standard Dark Gray

# T5 AND S5 SERIES BUSWAY

## SPECS & INTRODUCTION

### INTRODUCTION

Starline is the leader in electrical power distribution in the mission critical, commercial and light industrial applications with Starline Track Busway. This system was designed to meet the rugged specification of the UL857, Busway and Associated Fittings, with the flexible features of track lighting - and is available in systems with 250, 400, 500, 600, 800, 1000 & 1200 amps with case, dedicated or isolated ground.

Track Busway is the simple, versatile, fast and economical solution for supplying power to electrical loads and is unique because the busway can be instantly tapped at any location, with a variety of plug-in units.

The Product Selection Guide was developed to help the design engineer understand and consider all of the options available with Starline Track Busway when designing a system.

This guide is all-inclusive; however, Starline excels at collaborating with design engineers to provide solutions for any application. If you have a need that is not found in this guide, please contact us at **1-800-245-6378** or email us at **info@starlinepower.com**. We will be happy to answer your questions over the telephone or schedule a visit with one of our local representatives.

Also, if viewing this guide in print, please keep in mind that this is a working document. Starline reserves the right to change information and descriptions of listed services and products. The latest version of this guide is available for download at [downloads.starlinepower.com/starline/busway/](https://downloads.starlinepower.com/starline/busway/).

### SERIES-S SYSTEM

The Series-S System is certified to both IP54 and NEMA 3R ratings, which offers a higher level of protection against ingress of dust, water or other foreign objects. The unique sealed-system design provides the same level of protection across the entire power distribution system, from the power feeds to the busway and plug-in units.

Series-S plug-in units are specifically designed with durable, impact and chemical resistant materials commonly used in UL and outdoor applications. These plug-in units are paired with a wide variety of watertight rated IEC and NEMA devices.

This guide is all-inclusive; however, Starline excels at collaborating with design engineers to provide solutions for any application. If you have a need that is not found in this guide, please contact us at 1-800-245-6378. We will be happy to answer your questions over the telephone or schedule a visit with one of our local representatives.

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# T5 AND S5 SERIES BUSWAY

## SPECS & INTRODUCTION

### SPECS

This specification covers the electrical characteristics and general requirements for a track busway system, hereafter referred to as (Track Busway or busway). The system shall be designed primarily for overhead distribution of electrical power; supporting designated work areas and equipment. Once installed the busway will provide a simple, versatile, fast and economic means of distributing power. Loads fed from a variety of plug-in units can be easily added or removed without shutting power down to the busway.

The Track Busway shall be designed and manufactured to the following standards:

1. Underwriters Laboratories Standard, UL 857 — The common UL, CSA, and ANCE Standard for Busways that is derived from the fifth edition of CSA Standard C22.2 No. 27, the twelfth edition of UL 857, and the second edition of NMX-J-148-1998-ANCE.
2. Low Voltage Switchgear and Controlgear Assemblies, Part 1: Type Tested and partially type tested Assemblies, IEC 61439-1 & IEC 61439-6.

### SERIES-S SPECS

The S5 Busway Series is designed with additional levels of ingress protection, IEC IP54 and NEMA 3R ratings, against liquid and solid contaminants.

This system meets or exceeds the additional standards for ingress protection:

3. International Electrotechnical Commission (IEC) - 60529, Degrees of Protection Provided by Enclosures (IP Code)
4. National Electrical Manufacturers Association (NEMA) - 250, Enclosures for Electrical Equipment (1000 Volts Maximum)
5. Housing shall be protected against corrosion utilizing protective coating (per MIL-DTL-5541), while maintaining case grounding capability, with option for powder-coating.

# T5 AND S5 SERIES BUSWAY

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### S5 PLUG-IN UNITS

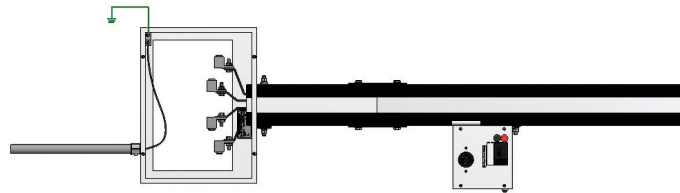
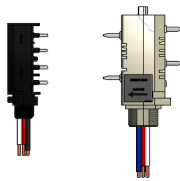
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# T5 AND S5 SERIES BUSWAY

## GROUND OPTIONS

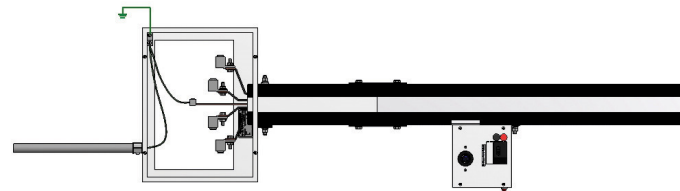
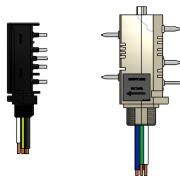
### ■ CASE GROUND/CHASSIS EARTH

Uses aluminum housing and no extra copper bar.



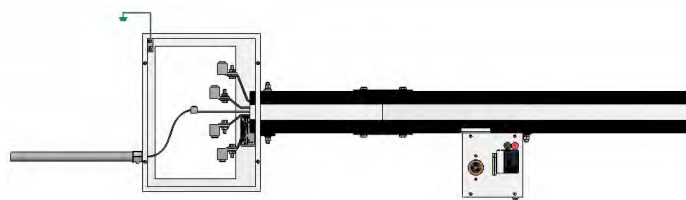
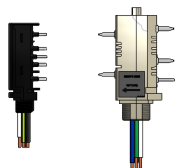
### ■ DEDICATED GROUND/EARTH

Extra bar in busway for ground.  
Everything tied together inside plugs.  
Bar and housing at same potential.



### ■ ISOLATED GROUND/EARTH

Orange receptacles in plugs. Case ground  
isolated from copper ground bar. Isolated  
ground carried back to panel by others.



\*For further details about Dedicated Ground vs. Isolated Ground, please reference our "Isolated Ground vs. Dedicated Ground" tech brief on [downloads.starlinepower.com/starline/busway](https://downloads.starlinepower.com/starline/busway).

# T5 AND S5 SERIES BUSWAY

## POLARITY TIPS

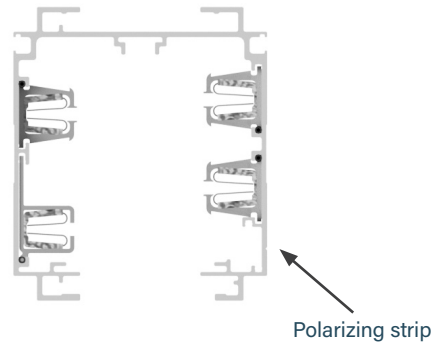
Starline utilizes a unique polarizing method to prevent mismatched components from being inadvertently connected to each other. The system is designed to prevent cross phasing during installation.

**It is particularly important to understand this design concept prior to ordering and/or installing some components.**

For example, if the face direction of a Starline plug-in unit is important in your installation consider that they will always face the polarizing strip. Certain plug-in units are 'reversible', designated by 'R', to face devices away from the conductor side.

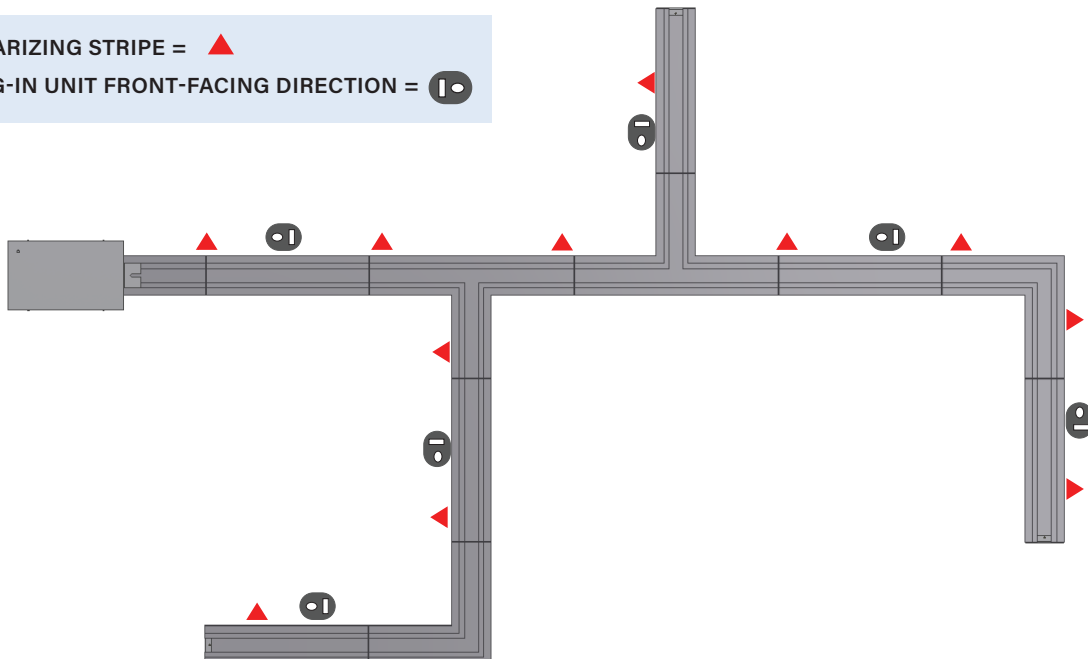


A standard plug-in unit will always face the polarizing strip



POLARIZING STRIPE = ▲

PLUG-IN UNIT FRONT-FACING DIRECTION = ⓘ



# T5 AND S5 SERIES BUSWAY

## SYSTEM LAYOUT TIPS

### POWER FEEDS

Determine location of power feeds based on relation to power source, existing feeders and voltage drop concerns for longer runs.

### SUPPORT HARDWARE

Support hardware is spaced no more than 10 feet apart. Refer to **page 4.104** for support hardware details. Contact your local Starline applications engineer for any questions.

### INSTALLATION

Printed installation drawings are supplied with each system shipment and they are also available for download online at [downloads.starlinepower.com/starline/busway/](https://downloads.starlinepower.com/starline/busway/). CAD and BIM files of these drawings are also available by contacting your local Starline applications engineer.

### BUSWAY HOUSING SECTIONS

Standard Busway lengths are available in 5 foot, 10 foot and 20 foot increments (except for 800 amp and above where the max length is 10 feet. Although the factory can cut individual Starline Track Busway sections to any length under 20 feet, it is highly recommended to keep all layout runs in increments of 5 feet to simplify layout and installation.

### BUSWAY TEES AND ELBOWS SECTIONS

Try to keep all runs as straight as possible as tees and elbows are added cost. Pay close attention to polarity on the elbows. The polarity will need to match the adjacent busway section(s) to be compatible.

### S5 INFORMATION:

Each piece of S5 housing components (straights and elbows) requires an S5 joint kit (containing two housing couplers, one bus connector, a joint seal, and two joint covers). Determine the total number of housing sections (regardless of length) as this becomes the number of joint kits that will be needed. Add one extra joint kit for each tee section. If this is your first installation for S5 systems, you will need to order an Installation Tool (ST5IT). Closure strip must also be ordered to match the total length of busway housing ordered.

**PLEASE NOTE:** All S5 Busway components are designed to work together to function as one complete IP54-rated system. When selecting system components, it is important that only S5 Busway components from this catalog are used together. Do not use any T5 components within this catalog. For technical questions related to these systems and/or specific applications, please contact our technical support team.

# T5 AND S5 SERIES BUSWAY

## COMPONENT RELATIONSHIP TIPS

When ordering material, it is important to understand the relationship between various components.

### EXAMPLES

- The T5 series of plug-in units are compatible with all T5 Busway systems.
- Each piece of housing (straights and elbows) requires a joint kit (containing two housing couplers and one bus connector). Determine the total number of housing sections (regardless of length) as this becomes the number of joint kits that will be needed.
  - Add one extra joint kit for each tee section.
- If this is your first installation for T5 systems, you will need to order an Installation Tool (ST5IT).
- General support hardware rule to follow:

10 foot maximum spacing between supports and we recommend 10% more than the required quantity to cover potential layout changes. Seismic mounts and supports will differ from the standard. Please consult the factory for details.

- Total Power Feeds and End Caps can be determined by counting the total number of unconnected runs.
- Before specifying or ordering elbow or tee connectors, it is important to understand polarity and the relationship to direction of outlets. Please refer to **page 4.6** Polarity Tips for more detail.

### S5 SYSTEM INFORMATION

All S5 components must be purchased and installed together to build a complete S5 System.

For the S5 system, please note the specific catalog numbering systems dedicated for these components. S5 system components will include the "S5" nomenclature in the "compatibility" field of the catalog number. Closure strip is required and must be ordered separately.

The S5 Joint Kit (SJK250S5) includes an additional joint seal and joint cover component required for the IP54 rating.

The standard installation tool (ST5IT) can be used for both the T5 and S5 system.

# T5 AND S5 SERIES BUSWAY

## INGRESS PROTECTION

This table provides descriptions for the various Ingress Protection (IP) ratings as listed in IEC 60529. General T5 Busway is listed as IP2X. IP3X rated busway is available with additional accessories. Series - S Busway is available with an IP54 rating.

As the table indicates, for the IP54 rating the first number (5) pertains to the solid particle protection and the second (4) pertains to the level of protection from water. For purposes of real-world application of the Series-S busway system, please consider these general guidelines.

1. Splashproof and sprinkler proof; 2. Highly dust-resistant; 2. Not waterproof or watertight; 3. Not for outdoor use; 4. Not subject to direct exposure to natural elements, such as wind, rain, sun, ice, etc.

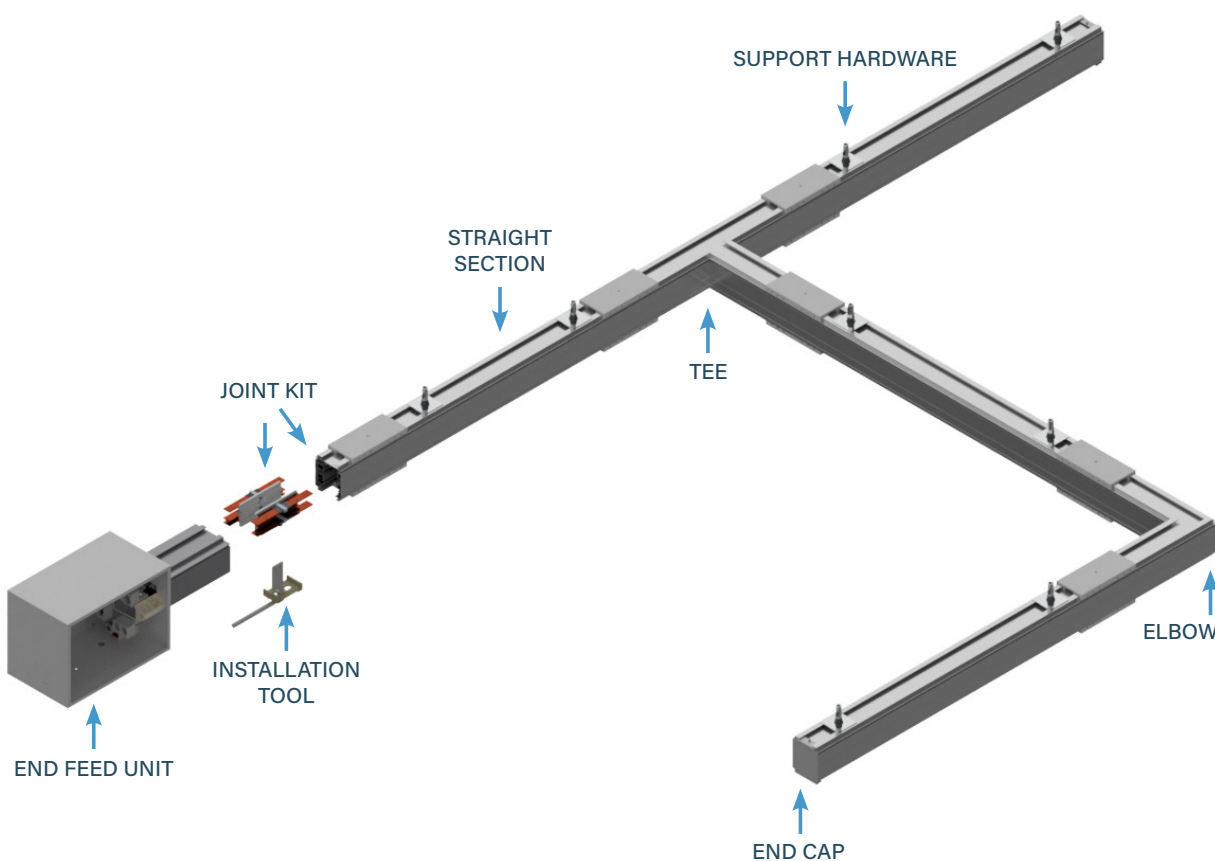
IP Rating Table

Solid Protection		Water Protection	
<b>0</b>	 Not protected.	<b>0</b>	 Not protected.
<b>1</b>	 Protected against solid objects greater than 50mm, such as a hand.	<b>1</b>	 Protected against vertical falling drops of water. Limited ingress permitted.
<b>2</b>	 Protected against solid objects greater than 12.5mm, such as a finger. Commonly called "Finger safe".	<b>2</b>	 Protected against diagonally falling water (up to 15 degrees). 10 minutes at a rate of 1 mm/min.
<b>3</b>	 Protected against solid objects greater than 2.5mm, such as a screwdriver.	<b>3</b>	 Protected against sprays of water up to 60 degrees from the vertical. Limited ingress permitted.
<b>4</b>	 Protected against solid objects greater than 1mm, such as a wire.	<b>4</b>	 Protected against water splashes from all directions. Limited ingress permitted.
<b>5</b>	 Dust protected. Limited ingress of dust permitted. Will not interfere with operation of the equipment.	<b>5</b>	 Protected against jets of water. Limited ingress permitted.
<b>6</b>	 Dust tight. No ingress of dust.	<b>6</b>	 Protected against power jets of water. Limited ingress permitted.
		<b>7</b>	 Watertight. Protected against the effects of immersion in water between 15cm and 1m for 30 minutes.
		<b>8</b>	 Watertight against the effects of immersion in water under pressure for long periods.

Ratings in accordance with the International Electrotechnical Commission (IEC) - 60529.  
Degrees of Protection Provided by Enclosures (IP Code)

# 250 AMP SYSTEMS

## T5 SYSTEM LAYOUT DRAWING

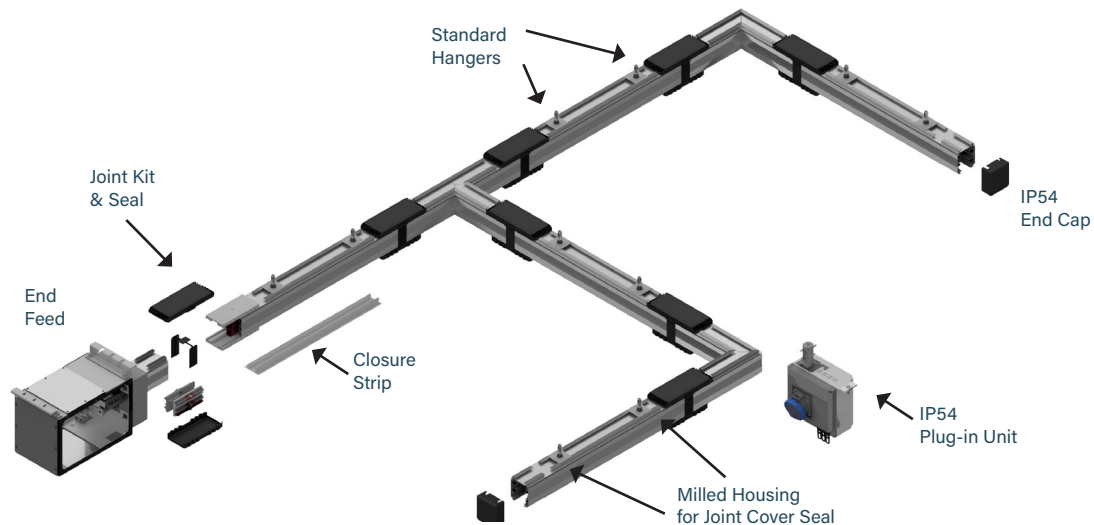


### PLUG-IN UNITS

For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.

# 250 AMP SYSTEMS

## S5 SYSTEM LAYOUT DRAWING



### PLUG-IN UNITS

For further information on applicable S5 plug-in unit options, please visit the **Plug-In Units** section.

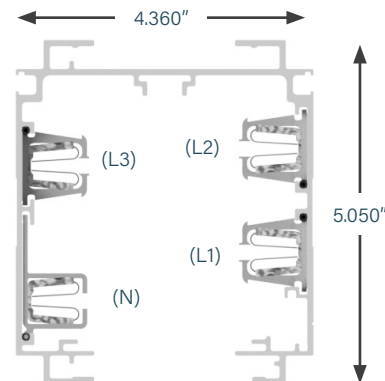


# 250 AMP SYSTEMS

## STRAIGHT SECTIONS

### PRODUCT DESCRIPTION

Track Busway straight section consists of an extruded aluminum shell with “spring-pressure” type copper channel busbars contained in a full length insulator mounted on the interior walls. The aluminum extrusion acts as a 100% ground path. Each housing has a continuous access slot over its entire length for the insertion of turn-n-lock plug-in units. Housing configurations include 4-pole varieties, optional isolated or dedicated ground, optional oversize (200%) neutral. The housing sections join together using Bus Connectors which fit into the channels of the adjoining section. An Installation tool is used to force the blades into the busbar channels for a solid “spring-pressure” electrical connection.



#### MATERIAL

Extruded Aluminum

**Note:** S5 housing includes corrosion resistant base coating.

#### RATINGS

100% Ground Path

250 Amps

250T5C4/250T5CG: 600 Volt

250T5CN/250T5CF: 600 Volt

#### LENGTH

T5: 10 ft, 20 ft; or custom lengths between 2 - 20 ft

S5: 5 ft, 10 ft max. Consult factory for additional lengths

#### VOLTAGE DROP

Distributed load

Single Phase 1V per 28ft (.8PF)

Three Phase 1V per 48ft (.8PF)

#### WEIGHT






10 ft 4 pole: 41 lbs

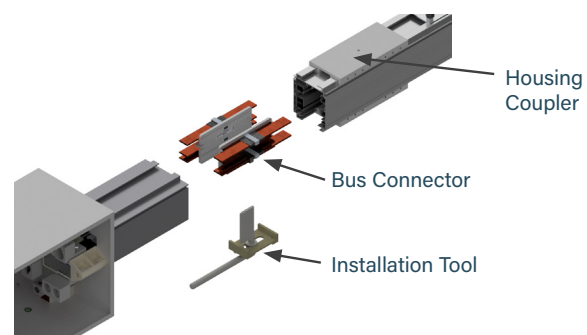
10 ft 4 pole w/ ground: 46 lbs

10 ft 4 pole w/ 200% N: 47 lbs

10 ft 4 pole w/ ground & 200% N: 51 lbs

#### US

L1 or Phase A		Black
L2 or Phase B		Red
L3 or Phase C		Blue
Neutral		White
Ground		Green/Black



# 250 AMP SYSTEMS

## STRAIGHT SECTIONS: PRODUCT NUMBERS

U	S	250	T5	C	4	S	-	0200	C
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	8. Straight	9. Busway	

# 250 AMP SYSTEMS

## ELBOW SECTIONS

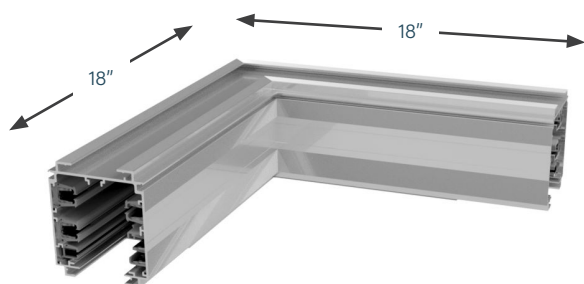
### ■ PRODUCT DESCRIPTION

An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify right or left elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

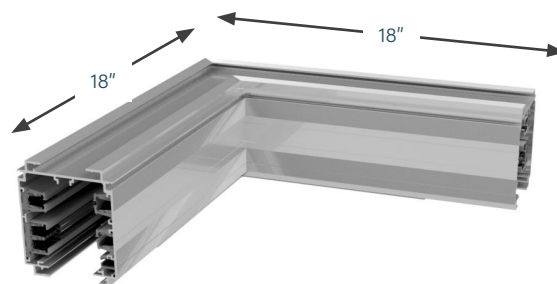
#### **Connection Accessories** (Ordered Separately)

A Joint Kit (**page 4.108**) is used to make mechanical and electrical connections to adjacent busway sections.

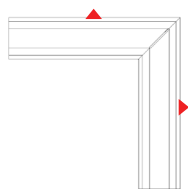
**Weight** 14.5 lbs



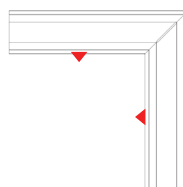
EXTERNAL ELBOW



INTERNAL ELBOW



External Elbow



Internal Elbow

▲ = Polarizing Stripe

# 250 AMP SYSTEMS

## ELBOW SECTIONS: PRODUCT NUMBERS

U	E	250	T5	C	4	S	-	IN
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction

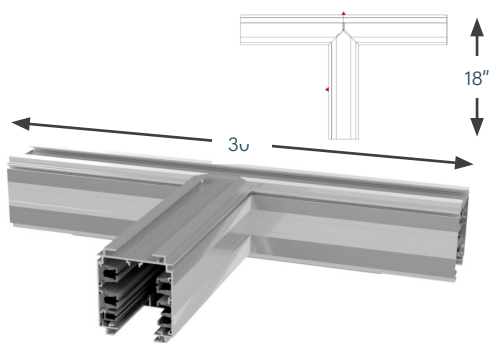
# 250 AMP SYSTEMS

## TEE SECTIONS

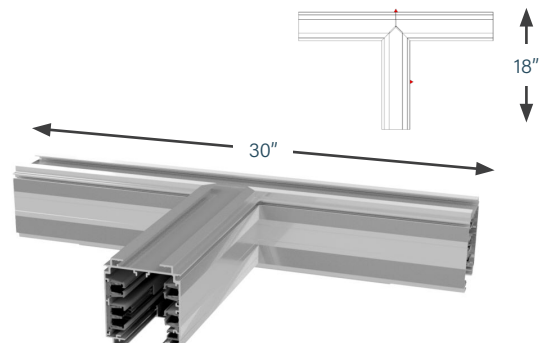
### ■ PRODUCT DESCRIPTION

Tee sections are used for creating a 90 degree branch leg in a busway run. When laying out a system, specify the correct busbar orientation of the tee. Indicate right or left, external or internal busbars. External tees are preferred. Tee sections are connected to adjacent busway sections using an installation tool and joint kit that includes a housing coupler and bus connector (ordered separately). This handles both the mechanical and electrical connection between a housing section and tee section of busway.

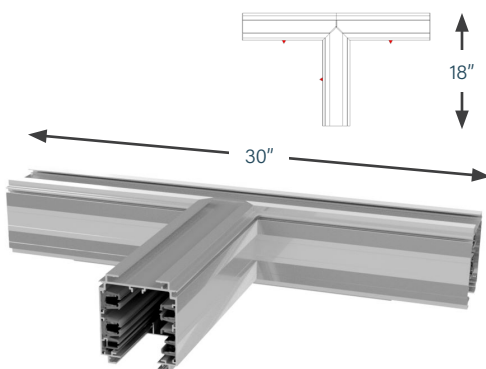
**Weight** 19.5 lbs



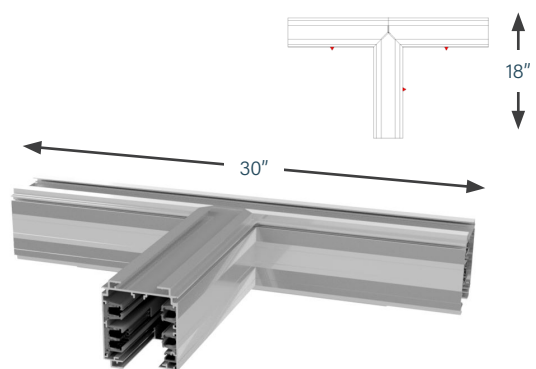
EXTERNAL-LEFT (EL)



EXTERNAL-RIGHT (ER)



INTERNAL-LEFT (IL)



INTERNAL-RIGHT (IR)

▲ = Polarizing Stripe

# 250 AMP SYSTEMS

## TEE SECTIONS: PRODUCT NUMBERS

U	T	250	T5	C	4	S	-	IR
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction

# 250 AMP SYSTEMS

## END FEED UNITS

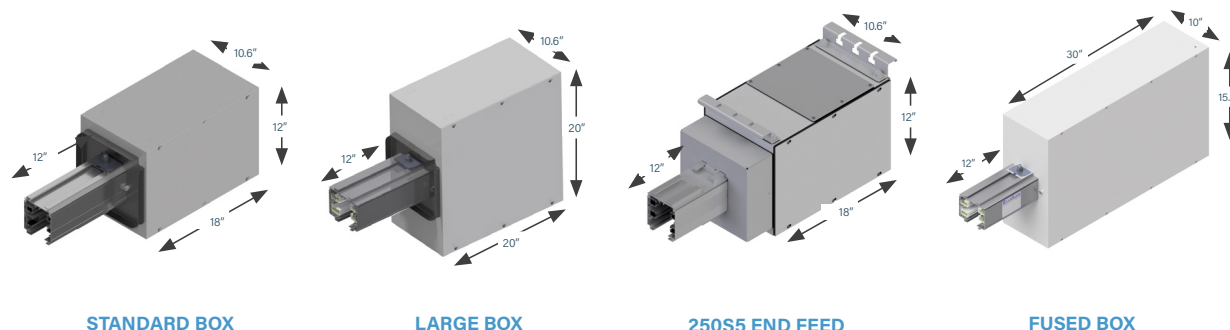
### PRODUCT DESCRIPTION

End power feed units connect to the end of the busway. A standard size, factory assembled unit consists of a steel junction box, with removable sides, connected to a 12 inch section of busway. Certain assemblies include connection lugs and a ground lug for wires up to 300MCM for standard size boxes and large size boxes.

End power feed units are connected to adjacent busway sections using a housing coupler and bus connector (ordered separately). Special need power feed units for confined spaces, as found in mission critical data centers, can also be designed and fabricated but may require minimum quantities.

**Weight** (for standard size end feed) 33 lbs

\*Standard busway stub size is 1 ft

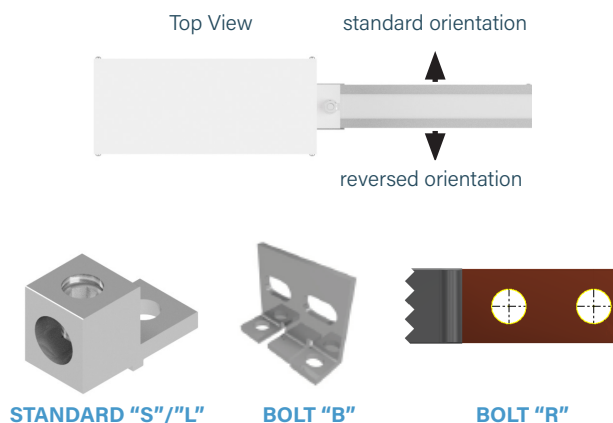


	BOXES		
LUGS	Standard	Large	Fused
Standard	<b>S</b>	<b>L</b>	<b>F</b>
Double			
Bolt	<b>B</b>	<b>R</b>	

Box size and Lug options: Refer to option 8. Lug/Box Options on **page 4.21**  
 End Feed Units: Product Numbers

\*Bolt options include bolt, washer, nut.  
 Lug not included.

\*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on [downloads.starlinepower.com/starline/busway](https://downloads.starlinepower.com/starline/busway)



# 250 AMP SYSTEMS

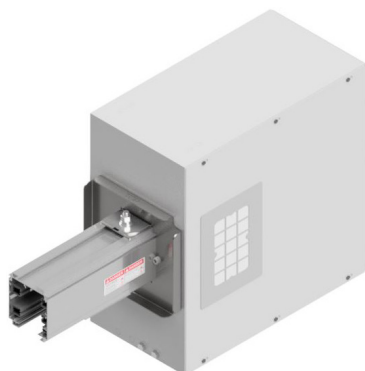
## END FEED UNITS: METERING

### PRODUCT DESCRIPTION

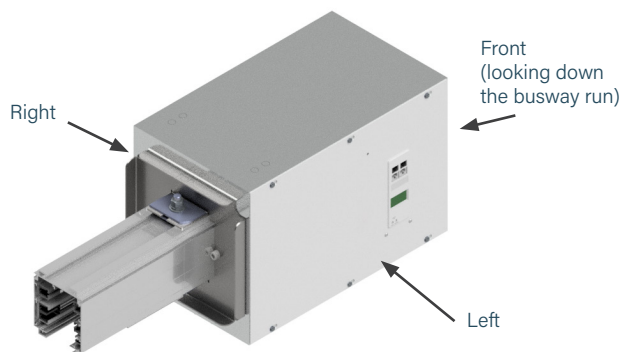
End power feed units connect to the end of the busway. A large size, factory assembled unit consists of a steel junction box, with removable sides, connected to a 12 inch section of busway. Certain assemblies include connection lugs, a ground lug, and shrink tubing for wires up to 300MCM for standard size boxes and large size boxes.

Integral CPM installed in the end feed provides power monitoring and alarm capabilities. The M50 models are for AC busway, while the M60 models are for DC busway. Nuisance tripping may be avoided using the current information to protect against overloading phases. The monitors also assist in the continuous challenge to balance the three phase loads. Once the meter is integrated, an automated email will be sent at 80% of full load as a warning to the user. This level may be changed in the field using the integrated webpage.

#### LARGE BOX



#### STANDARD BOX



\*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on **page 4.21** End Feed Units: Product Numbers)

#### AC END FEED METER OPTIONS

- M51** Single Eth./WiFi,  $\leq 480V Y$ ,  $\leq 277V \Delta$
- M53** Single Eth./No WiFi,  $\leq 480V Y$ ,  $\leq 277V \Delta$
- M58** Dual Eth.,  $\leq 480V Y$ ,  $\leq 277V \Delta$
- M59** Dual Eth./Dual Modbus,  $\leq 480V Y$ ,  $\leq 277V \Delta$

#### DC END FEED METER OPTIONS

- M61** Single Eth./WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M63** Single Eth./No WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M67** Dual Eth., single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M69** Dual Eth./Dual Modbus, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

BOX/LUGS OPTION	1 Meter or Accessory	1 Meter & 1 Accessory (opposite lids)	1 Meter & 1 Accessory (same lid)
(S) Standard Box, Standard Lugs	X	X	X
(L) Large Box, Standard Lugs	X	X	X
(R) Large Box, Bolt Lugs	X	X	X
(B) Standard Box, Box Lugs	X	X	X

Series-S Note: End Feed metering not currently offered for Series-S systems. For custom inquiries, please contact your Starline representative."



# 250 AMP SYSTEMS

## END FEED UNITS: ACCESSORIES

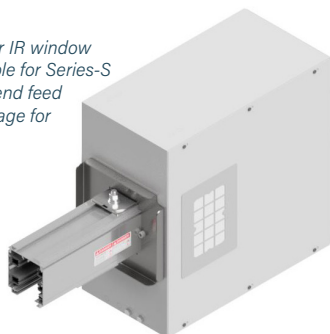
### ■ IR WINDOWS

Starline Track Busway Polymer IR Window systems use a proprietary stack-up of advanced materials to ensure highest levels of safety and optimal infrared thermography of critical connections.

When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

Safely and accurately scan connection points while the system is under load, without exposing the operator to live connections.

*Note: Rectangular IR window option not available for Series-S systems. See S5 end feed accessories package for more information.*

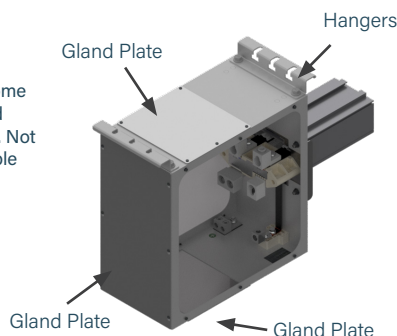


### ■ END FEED HANGERS & GLAND PLATES

End feed hangers & aluminum cable gland plates, located on the top, bottom and back of the end feed, can now be added as an optional accessory to Starline end feeds. These features make installation fast and easy and can be paired with other Starline end feed accessories.

#### SERIES-S END FEED INFORMATION

All Series-S End Feeds come standard with preinstalled hangers and gland plates. Not all accessories are available for Series-S End Feeds.



### FEATURES & BENEFITS

- Allows for safe IR scanning without powering down busway
- Complete system coverage with IR windows for plug-in units and end feeds
- End feed IR windows designed in 2 sizes for optimized viewing angles
- Cost effective design allows for quick end user ROI
- ETL Listed, CE Marked
- Lower TCO
- Enhanced safety
- Effective preventative maintenance

### GENERAL SPECIFICATIONS

Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Aluminum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T5); IP54 (S5)
Max Operating Temperature	125°C

### WINDOW DIMENSIONS

End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 500A and Above	8" (203mm) x 12" (305mm)

*(Refer to option 17, M50 Options on [page 4.22](#) End Feed Units: Product Numbers)*

*(Refer to option 10, Accessories Package on [page 4.21](#) End Feed Units: Product Numbers)*

# 250 AMP SYSTEMS

## END FEED UNITS: PRODUCT NUMBERS

<b>U</b>	<b>F</b>	<b>250</b>	<b>T5</b>	<b>C</b>	<b>4</b>	<b>S</b>	<b>-</b>	<b>S</b>	<b>N</b>	<b>S</b>	<b>N</b>
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/Ground Busbar	7. Polarization	8. Lug/Box Options	9. Meter Location	10. Accessories Package	11. Accessories Location	
- <b>0100</b> <b>C</b> - <b>STD</b> <b>0</b> - <b>M59</b> <b>S</b> <b>1</b> <i>*Optional</i>											
		12. Straight Length	13. Busway Access	14. Paint Color	15. Tape Marking	*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type			

### 1. System (standard of measure)

**U** US

### 2. Product Type (section component)

**F** End Feed

### 3. Product Frame (maximum amperage)

**250** 250 amps

### 4. Compatibility (frame compatibility)

**T5** T5 System **K5** T5 System (Limiting Strip)  
**S5** S5 System **L5** S5 System (Limiting Strip)

### 5. Material (busbar material)

**C** Copper

### 6. Neutral/Ground Busbar (size of neutral busbar and/or ground)

**4** 3 Phase plus Neutral **G** 3 Phase plus Neutral plus Internal Ground Conductor  
**N** 3 Phase plus 200% Neutral **F** 3 Phase plus 200% Neutral plus Internal Ground Conductor

### 7. Polarization (orientation of section for mating purposes)

**S** Standard **R** Reversed

### 8. Lug/Box Options (standard/double/bolt lugs and box size)

**S** Standard lugs, Standard box **R** Bolt lugs, Large box  
**L** Standard lugs, Large box **F** Standard lugs, Fused box  
**B** Bolt Lugs, Standard Box

### 9. Meter Location (from the terminal, side with removable lid)

**R** Right **L** Left  
**N** None (N/A)

### 10. Accessories Package (optional accessories for feed units)

T5 Options:

**S** Standard **B** (C+F)  
**C** IR Window - Circular **I** (G+F)  
**F** End Feed Hanger & Gland Plates  
**G** Starline Rect. IR window, 5"x7"

S5 Options:

**F** S5 Standard (includes hangars, and gland plates)  
**B** S5 Standard + IR Window - Circular

### 11. Accessories Location (from the terminal, side with accessory)

**N** None (N/A) **R** Right  
**L** Left **F** Front (consult the factory)

### 12. Straight Length (length of section)

**0100** 1 ft. (For other lengths, consult the factory)

### 13. Busway Access

**C** Continuous

### 14. Paint Color (allows painting of the busway housing)

**STD** Factory Mill Finish **RED** Paint Factory Red  
**BLK** Paint Factory Black **BLU** Paint Factory Blue  
**WHT** Paint Factory White **\*\*RAL** (please see page 4.103)

**NOTE:** All End Feed enclosures are painted. "STD Factory Mill Finish" represents painted standard silver.

### 15. Tape Marking (colored tape on both sides of busway housing)

**0** No Tape Marking **7** Tape Factory Blue  
**3** Tape Factory Black **8** Tape Factory Green  
**4** Tape Factory White **9** Tape Factory Yellow  
**6** Tape Factory Red

### EXAMPLE

**UF250T5C4R-LRLL-0100C-BLK0** = US System, End Feed, 250 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Large Box, Right Meter Location, Circular IR Window + Angled Meter Lid, Left Accessory Location, 1 foot Straight Length, Continuous Busway Access, Painted Factory Black, No Tape Marking



# 250 AMP SYSTEMS

## ABOVE FEED UNITS

### ■ PRODUCT DESCRIPTION

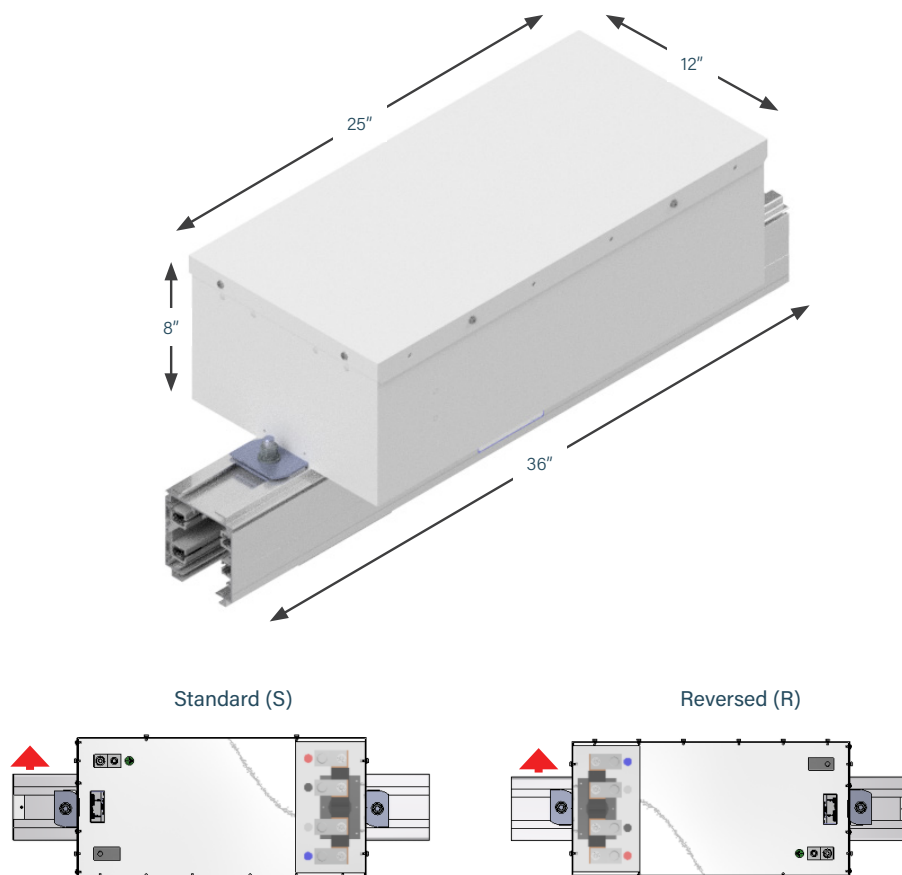
The above feed power unit supplies power from the topside of the Busway. Factory assembled unit consists of a 25 x 12 x 8 inch steel junction box that is mounted on top of a 36 inch section of busway.

\*36 inches is the minimum and standard length of busway that an above feed is provided with.

Above feed units can be placed at the end or anywhere along a busway run. Connections to adjoining busway sections are made by the standard means, requiring couplers and bus connectors which are sold separately.

**Weight** 45.5 lbs

\*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on [downloads.starlinepower.com/starline/busway](https://downloads.starlinepower.com/starline/busway)



# 250 AMP SYSTEMS

## ABOVE FEED UNITS: PRODUCT NUMBERS

U	A	250	T5	C	4	S	-	D	N	S	N
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/Ground Busbar	7. Polarization	8. Lug/Box Options	9. Meter Location	10. Accessories Package	11. Accessories Location	
-	0300	C	018	-	STD	0	-	M59	S	1	*Optional
	12. Straight Length	13. Busway Access	14. Feed Location	15. Paint Color	16. Tape Marking	*17. Meter Release	*18. Meter Options	*19. System Config. and CT Type			

### 1. System (standard of measure)

**U** US

### 2. Product Type (section component)

**A** Above Feed

### 3. Product Frame (maximum amperage)

**250** 250 amps

### 4. Compatibility (frame compatibility)

**T5** T5 System **K5** T5 System (Limiting Strip)  
**S5** S5 System **L5** S5 System (Limiting Strip)

### 5. Material (busbar material)

**C** Copper

### 6. Neutral/Ground Busbar (size of neutral busbar and/or ground)

**4** 3 Phase plus Neutral **G** 3 Phase plus Neutral plus Internal Ground Conductor  
**N** 3 Phase plus 200% Neutral **F** 3 Phase plus 200% Neutral plus Internal Ground Conductor

### 7. Polarization (orientation of section for mating purposes)

**S** Standard **R** Reversed

### 8. Lug/Box Options (standard/double/bolt lugs and box size)

**D** Double lugs, Standard box **B** Bolt lugs, Standard box

### 9. Meter Location (from the terminal, side with removable lid)

**R** Right **L** Left **N** None (N/A)

### 10. Accessories Package (optional accessories for feed units)

**S** Standard

### 11. Accessories Location (from the terminal, side with removable lid)

**N** None (N/A) **R** Right **A** Rear  
**L** Left **T** Top **F** Front

### 12. Straight Length (length of section)

**0300** 3 feet

### 13. Busway Access (how plugs access the busway)

**C** Continuous

### 14. Feed Location (location of the center of the top feed)

**018** 18 inches (For other lengths, consult the factory)

### 15. Paint Color (allows painting of the busway housing)

**STD** Factory Mill Finish **RED** Paint Factory Red  
**BLK** Paint Factory Black **BLU** Paint Factory Blue  
**WHT** Paint Factory White **\*\*RAL** (please see page 4.103)

**NOTE:** All End Feed enclosures are painted. "STD Factory Mill Finish" represents painted standard silver.

### 16. Tape Marking (colored tape on both sides of busway housing)

**0** No Tape Marking **7** Tape Factory Blue  
**3** Tape Factory Black **8** Tape Factory Green  
**4** Tape Factory White **9** Tape Factory Yellow  
**6** Tape Factory Red

### \*17. Meter Release (M50 Series Meters)

**M51** Single Eth./WiFi, ≤480V Y, ≤277V Δ  
**M53** Single Eth./No WiFi, ≤480V Y, ≤277V Δ  
**M58** Dual Eth., ≤480V Y, ≤277V Δ  
**M59** Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ

### \*18. Meter Options (choose from a 4.1" display, measured neutral, audible alarm and/or a temperature monitor)

**S** Standard **N** (Measured) Neutral  
**D** Display **P** Professional (D+N)

### \*19. System Configuration and CT Type (line-line or line-neutral and wye or delta systems)

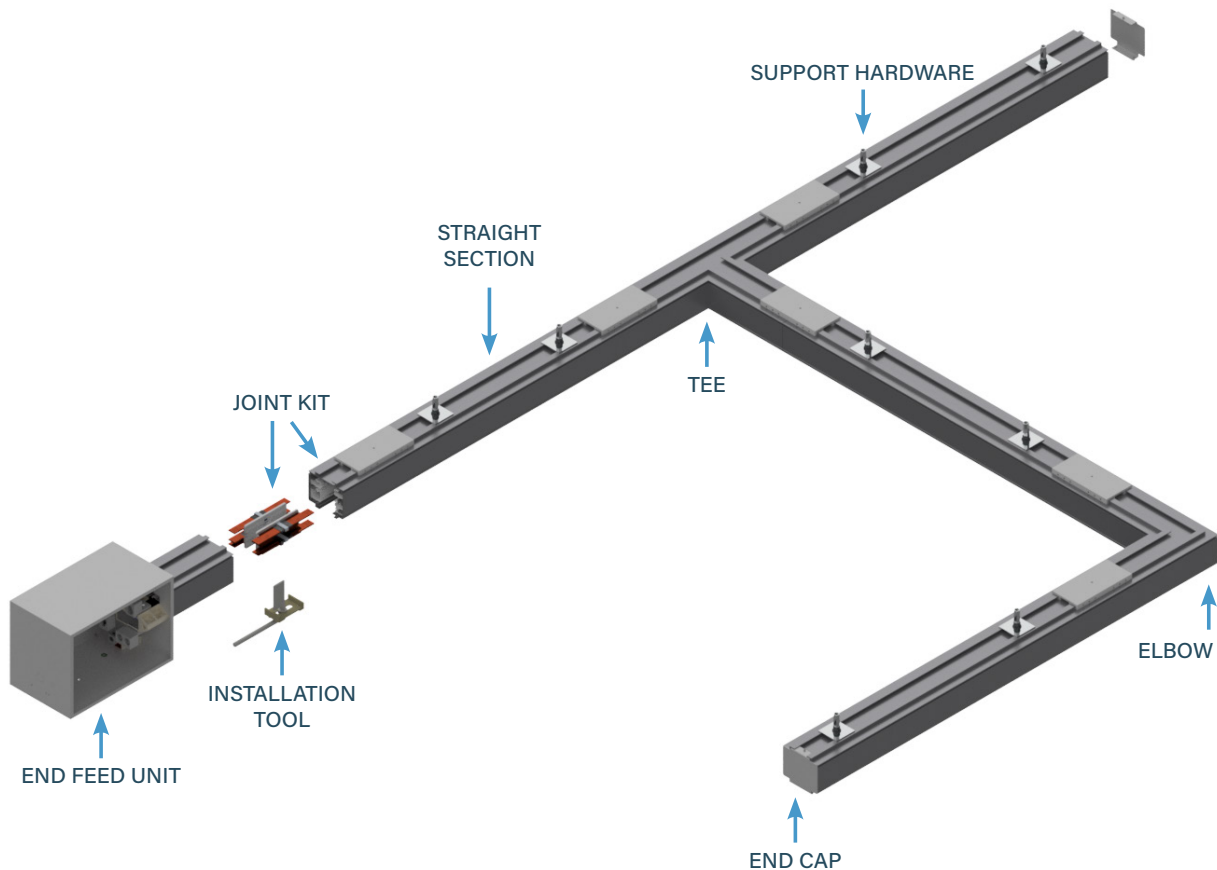
**1** LLD - Standard, Milivolt **K** LLD - SC, 5A  
**3** LNY - Standard, Milivolt **M** LNY - SC, 5A

### EXAMPLE

**UA250T5CFS-DLSN-0300C018-STD0-M59D3** = US System, Above Feed, 250 amps, T5 System, Copper Conductor, 3 Phase plus 200% Neutral plus Internal Ground Conductor, Standard Polarization, Double Lugs, Standard Box, Left Meter Location, Standard Accessory Package, No Accessory Location-3 foot Straight Length, Continuous Busway Access, 18 inch Feed Location, Factory Mill Finish, No Tape Marking, M59 Meter, Display, LNY - Standard, Milivolt

# 400 AMP SYSTEMS

## T5 SYSTEM LAYOUT DRAWING

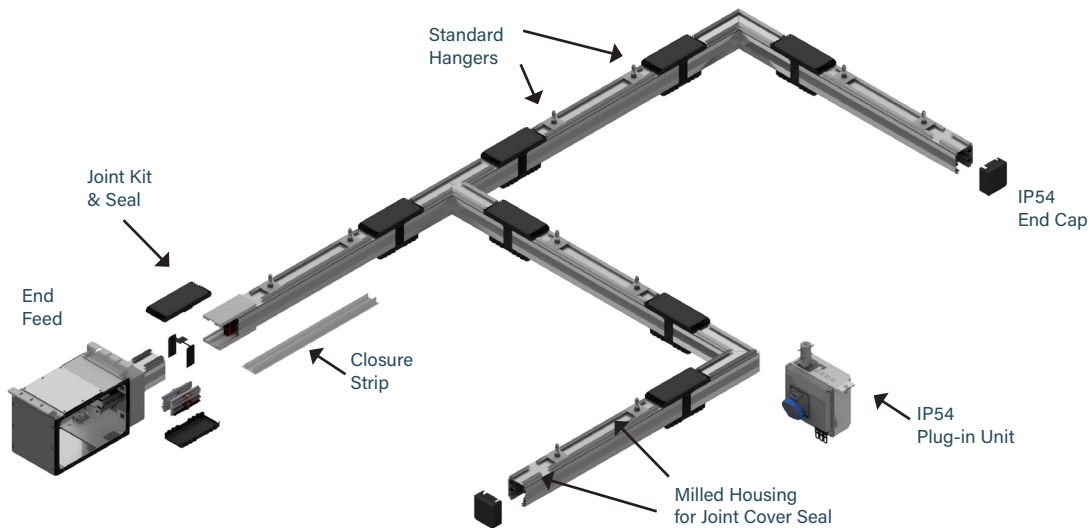


### PLUG-IN UNITS

For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.

# 400 AMP SYSTEMS

## S5 SYSTEM LAYOUT DRAWING



### PLUG-IN UNITS

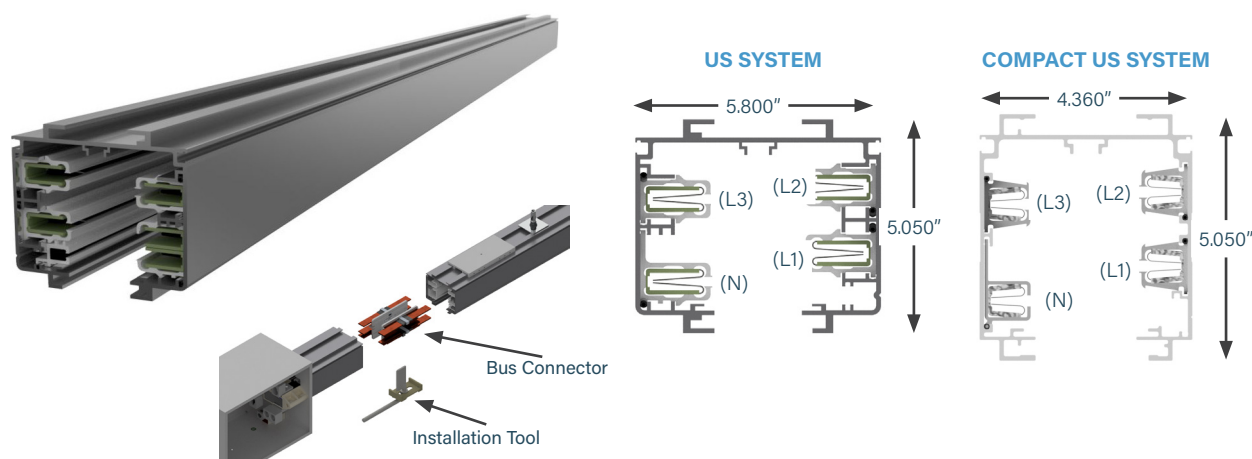
For further information on applicable S5 plug-in unit options, please visit the **Plug-In Units** section.

# 400 AMP SYSTEMS

## STRAIGHT SECTIONS

### PRODUCT DESCRIPTION

Track Busway straight section consists of an extruded aluminum shell with "spring-pressure" type copper channel busbars contained in a full length insulator mounted on the interior walls. The aluminum extrusion acts as a 100% ground path. Each housing has a continuous access slot over its entire length for the insertion of turn-n-lock plug-in units. Housing configurations include 4-pole varieties, optional isolated ground, optional oversize (200%) neutral. The straight sections join together using Bus Connectors which fit into the channels of the adjoining section. An Installation Tool is used to force the blades into the busbar channels for a solid "spring-pressure" electrical connection.



#### MATERIAL

Extruded Aluminum

*Note: S5 housing includes corrosion resistant base coating*

#### RATINGS

100% Ground Path

400 Amps

400T5C4/400T5CG: 600 Volt

400T5CN/400T5CF: 600 Volt

#### LENGTH

T5: 10 ft, 20 ft; or custom lengths between 2 - 20 ft

S5: 5 ft, 10 ft max. Consult factory for additional lengths

#### VOLTAGE DROP

Distributed load

##### US System

Single Phase 1V per 37ft (.8PF)

Three Phase 1V per 65ft (.8PF)

##### Compact US System

Single Phase 1V per 28ft (.8PF)

Three Phase 1V per 48ft (.8PF)

#### WEIGHT

##### US System

10 ft 4 pole: 95 lbs

10 ft 4 pole w/ ground: 96 lbs

10 ft 4 pole w/ 200% N: 97 lbs

10 ft 4 pole w/ ground & 200% N: 107 lbs

##### Compact US System






10 ft 4 pole: 52 lbs

10 ft 4 pole w/ ground: 57 lbs

10 ft 4 pole w/ 200% N: 60 lbs

10 ft 4 pole w/ ground & 200% N: 64 lbs

#### US

L1 or Phase A		Black
L2 or Phase B		Red
L3 or Phase C		Blue
Neutral		White
Ground		Green/Black



# 400 AMP SYSTEMS

## STRAIGHT SECTIONS: PRODUCT NUMBERS

U	S	400	T5	C	4	S	-	0200	C
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	8. Straight	9. Busway	

# 400 AMP SYSTEMS

## ELBOW SECTIONS

### ■ PRODUCT DESCRIPTION

An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

### Connection Accessories

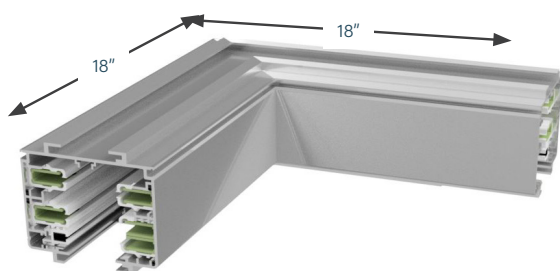
(Ordered Separately)

Joint Kits (**page 4.108**) are used to make mechanical and electrical connections to adjacent busway sections.

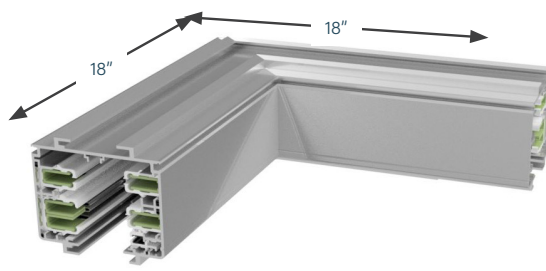
### Weight

28 lbs US System

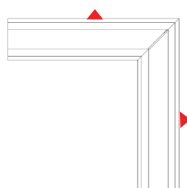
18 lbs Compact US System



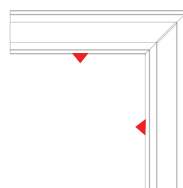
EXTERNAL ELBOW



INTERNAL ELBOW



External Elbow



Internal Elbow

▲ = Polarizing Stripe

## ELBOW SECTIONS: PRODUCT NUMBERS

U	E	400	T5	C	4	S	-	IN
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction
			-	STD	0			
			9. Paint Color	10. Tape Marking				

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US <b>C</b> Compact US	
<b>2. Product Type</b> <i>(section component)</i> <b>E</b> Elbow Section	
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>400</b> 400 amps	
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T5</b> T5 System <b>K5</b> T5 System (Limiting Strip) <b>S5</b> S5 System <b>L5</b> S5 System (Limiting Strip)	
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper	
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral <b>G</b> 3 Phase plus Neutral plus Internal Ground Conductor <b>N</b> 3 Phase plus 200% Neutral <b>F</b> 3 Phase plus 200% Neutral plus Internal Ground Conductor	
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard	
<b>8. Turning Direction</b> <i>(direction of section polarizing stripe)</i> <b>IN</b> Internal <b>EX</b> External <b>HN</b> Seismic Internal <b>GX</b> Seismic External	
<b>9. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD</b> Factory Mill Finish <b>RED</b> Paint Factory Red <b>BLK</b> Paint Factory Black <b>BLU</b> Paint Factory Blue <b>WHT</b> Paint Factory White <b>**RAL</b> <i>(please see page 4.103)</i> <i>NOTE: All Series-S housings include a clear corrosion resistant base coating, regardless of paint color selection.</i>	
<b>10. Tape Marking</b> <i>(colored tape on both sides of busway housing)</i> <b>0</b> No Tape Marking <b>7</b> Tape Factory Blue <b>3</b> Tape Factory Black <b>8</b> Tape Factory Green <b>4</b> Tape Factory White <b>9</b> Tape Factory Yellow <b>6</b> Tape Factory Red	

**CE400T5CGS-EX-STD3** = Compact US System, Elbow Section, 400 amps, T5 System, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External Turning Direction, Factory Mill Finish, Factory Black Tape Marking

# 400 AMP SYSTEMS

## TEE SECTIONS

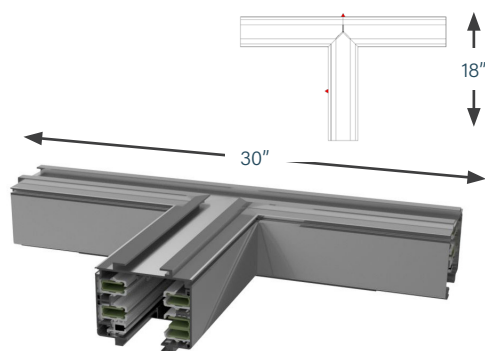
### ■ PRODUCT DESCRIPTION

Tee sections are used for creating a 90 degree branch leg in a Busway run. When laying out a system, specify the correct busbar orientation of the tee. Indicate right or left, external or internal busbars. External tees are preferred. Tee sections are connected to adjacent Busway sections using an installation tool and joint kit that includes a housing coupler and bus connector (ordered separately). This handles both the mechanical and electrical connection between a straight section and tee section of busway.

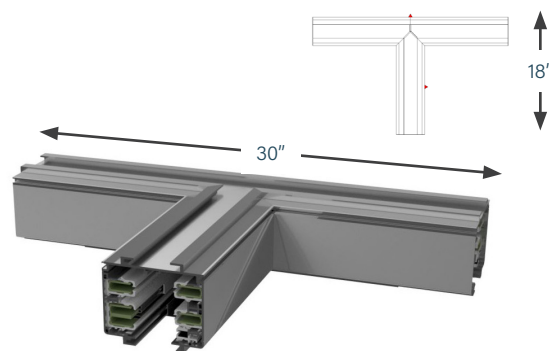
### Weight

42 lbs US System

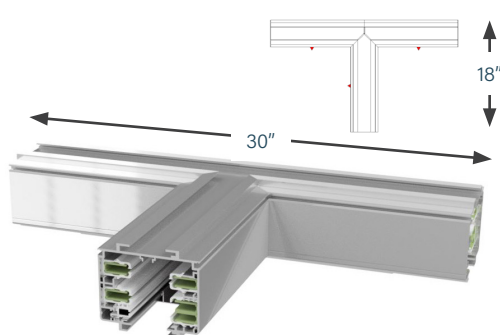
24 lbs Compact US System



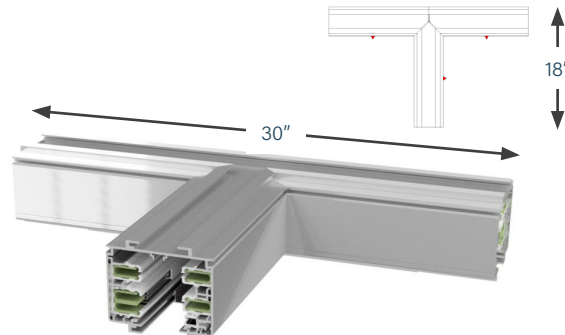
EXTERNAL-LEFT (EL)



EXTERNAL-RIGHT (ER)



INTERNAL-LEFT (IL)



INTERNAL-RIGHT (IR)

▲ = Polarizing Stripe

# 400 AMP SYSTEMS

## TEE SECTIONS: PRODUCT NUMBERS

U	T	400	T5	C	4	S	-	IR
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction

# 400 AMP SYSTEMS

## END FEED UNITS

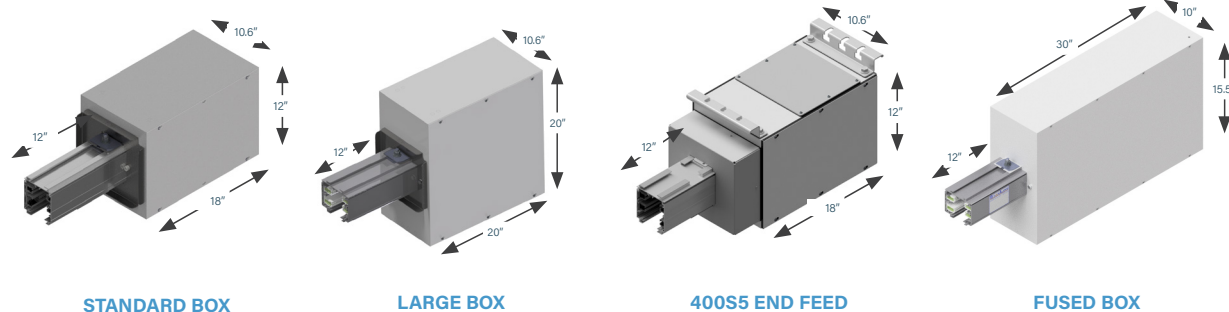
### PRODUCT DESCRIPTION

End power feed units connect to the end of the busway. A standard size, factory assembled unit consists of a steel junction box, with removable sides, connected to a 1 foot section of busway. Certain assemblies include connection lugs and a ground lug for wires (2) 250MCM or up to 600MCM for standard size boxes and large size boxes.

End power feed units are connected to adjacent busway sections using a housing coupler and bus connector (ordered separately).

Special need power feed units for confined spaces, as found in mission critical data centers, can also be designed and fabricated but may require minimum quantities.

**Weight** (for standard size end feed) 36 lbs

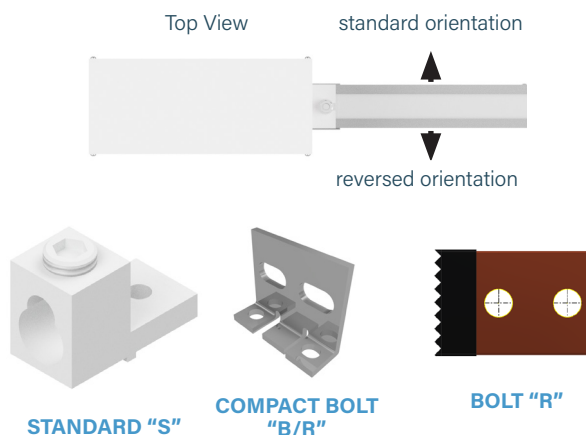


	BOXES		
LUGS	Standard	Large	Fused
Standard	<b>S</b>	<b>L</b>	<b>F</b>
Double			
Bolt	<b>B</b>	<b>R</b>	

Box size and Lug options: Refer to option 8. Lug/Box Options on **page 4.36**  
End Feed Units: Product Numbers

\*Bolt options include bolt, washer, nut.  
Lug not included.

\*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on [downloads.starlinepower.com/starline/busway](https://downloads.starlinepower.com/starline/busway)



# 400 AMP SYSTEMS

## END FEED UNITS: METERING

### ■ PRODUCT DESCRIPTION

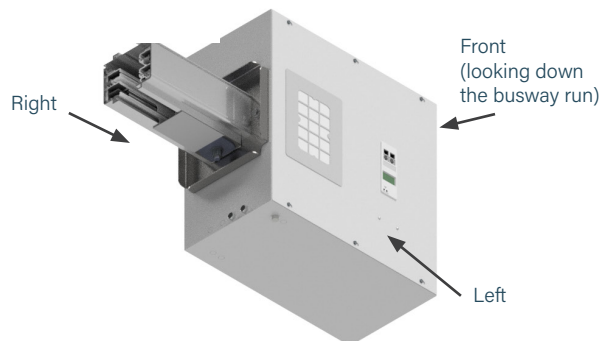
End power feed units connect to the end of the busway. A large size, factory assembled unit consists of a steel junction box, with removable side, connected to a 1 foot section of busway. Certain assemblies include connection lugs and a ground lug for wires (2) 250MCM or up to 600MCM for standard size boxes and large size boxes.

Integral CPM installed in the end feed provides power monitoring and alarm capabilities. The M50 models are for AC busway, while the M60 models are for DC busway. Nuisance tripping may be avoided using the current information to protect against overloading phases. The monitors also assist in the continuous challenge to balance the three phase loads. Once the meter is integrated, an automated email will be sent at 80% of full load as a warning to the user. This level may be changed in the field using the integrated webpage.

#### LARGE BOX



#### STANDARD BOX



\*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on **page 4.36** End Feed Units: Product Numbers)

Series-S Note: End Feed metering not currently offered for Series-S systems. For custom inquiries, please contact your Starline representative.

#### AC END FEED METER OPTIONS

- M51** Single Eth./WiFi,  $\leq 480V Y, \leq 277V \Delta$
- M53** Single Eth./No WiFi,  $\leq 480V Y, \leq 277V \Delta$
- M58** Dual Eth.,  $\leq 480V Y, \leq 277V \Delta$
- M59** Dual Eth./Dual Modbus,  $\leq 480V Y, \leq 277V \Delta$

#### DC END FEED METER OPTIONS

- M61** Single Eth./WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M63** Single Eth./No WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M67** Dual Eth., single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M69** Dual Eth./Dual Modbus, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

BOX/LUGS OPTION	1 Meter or Accessory	1 Meter & 1 Accessory (opposite lids)	1 Meter & 1 Accessory (same lid)
(S) Standard Box, Standard Lugs	X	X	X
(L) Large Box, Standard Lugs	X	X	X
(R) Large Box, Bolt Lugs	X	X	X
(B) Standard Box, Bolt Lugs	X	X	X

# 400 AMP SYSTEMS

## END FEED UNITS: ACCESSORIES

### IR WINDOWS

Starline Track Busway Polymer IR Window systems use a proprietary stack-up of advanced materials to ensure highest levels of safety and optimal infrared thermography of critical connections.

When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

Safely and accurately scan connection points while the system is under load, without exposing the operator to live connections.

Note: Rectangular IR window option not available for Series-S systems. See S5 end feed accessories package for more information.

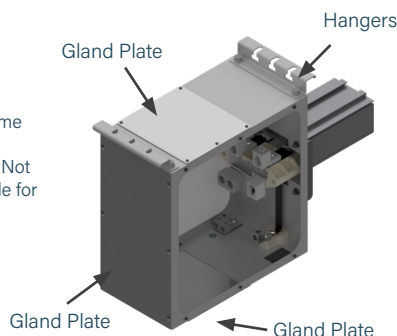


### END FEED HANGERS & GLAND PLATES

End feed hangers & aluminum cable gland plates, located on the top, bottom and back of the end feed, can now be added as an optional accessory to Starline end feeds. These features make installation fast and easy and can be paired with other Starline end feed accessories.

#### SERIES-S END FEED INFORMATION

All Series-S End Feeds come standard with preinstalled hangers and gland plates. Not all accessories are available for Series-S End Feeds.



### FEATURES & BENEFITS

- Allows for safe IR scanning without powering down busway
- Complete system coverage with IR windows for plug-in units and end feeds
- Plug-in units have both Line & Load side IR windows for OCPD connections
- Cost effective design allows for quick end user ROI
- ETL Listed, CE Marked
- Lower TCO
- Enhanced safety
- Effective preventative maintenance

### GENERAL SPECIFICATIONS

Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Aluminum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T5); IP54 (S5)
Max Operating Temperature	125°C

### WINDOW DIMENSIONS

End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 500A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17, M50 Options on [page 4.37](#) End Feed Units: Product Numbers)

(Refer to option 10, Accessories Package on [page 4.36](#) End Feed Units: Product Numbers)



# 400 AMP SYSTEMS

## END FEED UNITS: PRODUCT NUMBERS

<b>U</b>	<b>F</b>	<b>400</b>	<b>T5</b>	<b>C</b>	<b>4</b>	<b>S</b>	<b>-</b>	<b>S</b>	<b>N</b>	<b>S</b>	<b>N</b>
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/Ground Busbar	7. Polarization	8. Lug/Box Options	9. Meter Location	10. Accessories Package	11. Accessories Location	
<b>- 0100 C - STD 0 - M59 S 1</b> <i>*Optional</i>											
		12. Straight Length	13. Busway Access	14. Paint Color	15. Tape Marking	*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type			

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US <b>C</b> Compact US						<b>10. Accessories Package</b> <i>(optional accessories for feed units)</i> T5 Options: <b>S</b> Standard <b>B</b> (C+F) <b>C</b> IR Window - Circular <b>I</b> (G+F) <b>F</b> End Feed Hanger & Gland Plates <b>G</b> Starline Rect. IR window, 5"x7" S5 Options: <b>F</b> S5 Standard (includes hangars and gland plates) <b>B</b> S5 Standard + IR Window - Circular					
<b>2. Product Type</b> <i>(section component)</i> <b>F</b> End Feed						<b>11. Accessories Location</b> <i>(from the terminal, side with accessory)</i> <b>N</b> None (N/A) <b>R</b> Right <b>L</b> Left <b>F</b> Front (consult the factory)					
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>400</b> 400 amps						<b>12. Straight Length</b> <i>(length of section)</i> <b>0100</b> 1 ft. <i>(For other lengths, consult the factory)</i>					
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T5</b> T5 System <b>K5</b> T5 System (Limiting Strip) <b>S5</b> S5 System <b>L5</b> S5 System (Limiting Strip)						<b>13. Busway Access</b> <b>C</b> Continuous					
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper						<b>14. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD</b> Factory Mill Finish <b>RED</b> Paint Factory Red <b>BLK</b> Paint Factory Black <b>BLU</b> Paint Factory Blue <b>WHT</b> Paint Factory White <b>**RAL</b> <i>(please see page 4.103)</i> <b>NOTE:</b> All End Feed enclosures are painted. "STD Factory Mill Finish" represents painted standard silver.					
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral <b>G</b> 3 Phase plus Neutral plus Internal Ground Conductor <b>N</b> 3 Phase plus 200% Neutral <b>F</b> 3 Phase plus 200% Neutral plus Internal Ground Conductor						<b>15. Tape Marking</b> <i>(colored tape on both sides of busway housing)</i> <b>0</b> No Tape Marking <b>7</b> Tape Factory Blue <b>3</b> Tape Factory Black <b>8</b> Tape Factory Green <b>4</b> Tape Factory White <b>9</b> Tape Factory Yellow <b>6</b> Tape Factory Red					
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard <b>R</b> Reversed											
<b>8. Lug/Box Options</b> <i>(standard/double/bolt lugs and box size)</i> <b>S</b> Standard lugs, Standard box <b>F</b> Standard lugs, Fused box <b>L</b> Standard lugs, Large box <b>R</b> Bolt lugs, Large box <b>B</b> Bolt Lugs, Standard Box											
<b>9. Meter Location</b> <i>(from the terminal, side with removable lid)</i> <b>R</b> Right <b>L</b> Left <b>N</b> None (N/A)											

### EXAMPLE

**UF400T5C4R-LRLL-0100C-BLK0** = US System, End Feed, 400 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Large Box, Right Meter Location, Circular IR Window + Angled Meter Lid, Left Accessory Location, 1 foot Straight Length, Continuous Busway Access, Painted Factory Black, No Tape Marking

## END FEED METERING: PRODUCT NUMBERS

Note: Series - S end feeds not currently equipped with power monitoring.  
Consult factory for details.

UF400T5C4R-LRLL-0100C-BLK0-M59S1 = US System, End Feed, 400 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Large Box, Right Meter Location, Circular IR Window + Angled Meter Lid, Left Accessory Location, 1 foot Straight Length, Continuous Busway Access, Painted Factory Black, No Tape Marking, M59 Meter, Standard Meter Options, LLD - Standard, Milivolt

# 400 AMP SYSTEMS

## ABOVE FEED UNITS

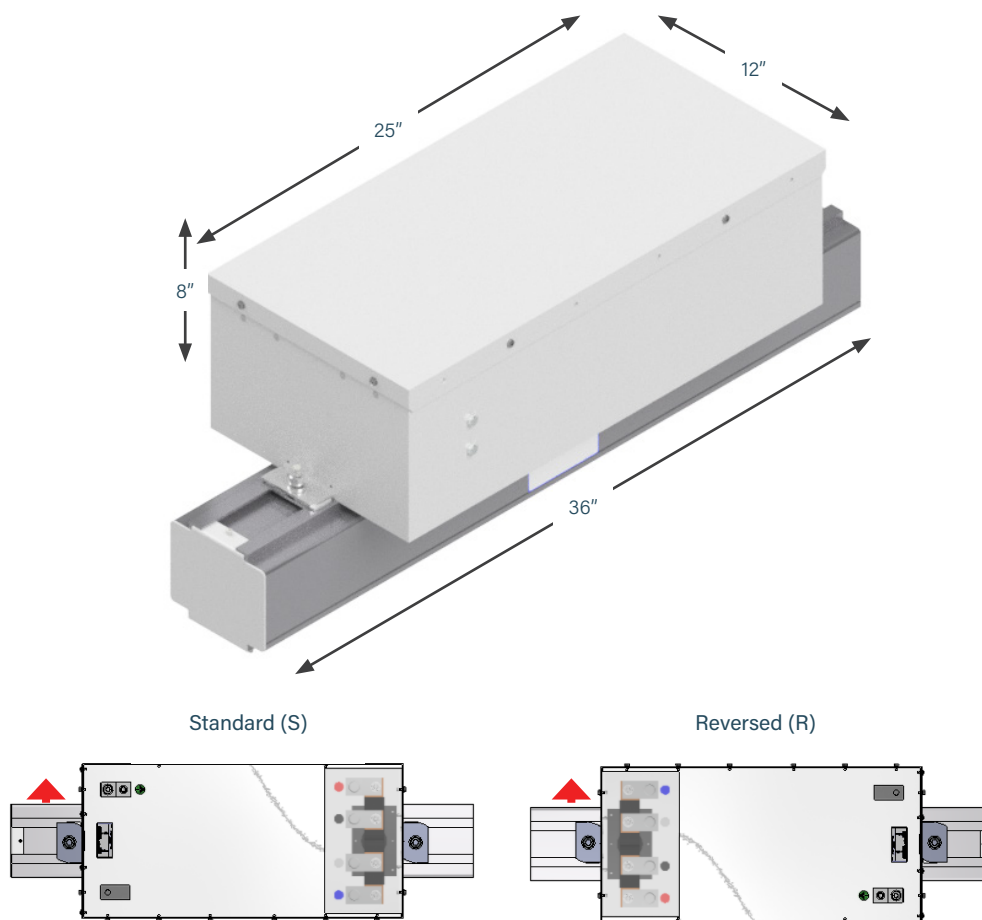
### ■ PRODUCT DESCRIPTION

The above feed power unit supplies power from the topside of the busway. Factory assembled unit consists of a 25 x 12 x 8 inch steel junction box mounted on top of a 36 inch section of busway.

\*36 inches is the minimum and standard length of busway that an above feed is provided with.

Above feed units can be placed at the end or anywhere along a busway run. Connections to adjoining busway sections are made by the standard means, requiring couplers and bus connectors which are sold separately.

\*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on [downloads.starlinepower.com/starline/busway](https://downloads.starlinepower.com/starline/busway)



# 400 AMP SYSTEMS

## ABOVE FEED UNITS: PRODUCT NUMBERS

<b>U</b>	<b>A</b>	<b>400</b>	<b>T5</b>	<b>C</b>	<b>4</b>	<b>S</b>	<b>-</b>	<b>S</b>	<b>N</b>	<b>S</b>	<b>N</b>
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/Ground Busbar	7. Polarization	8. Lug/Box Options	9. Meter Location	10. Accessories Package	11. Accessories Location	
- <b>0300</b> <b>C</b> <b>018</b> - <b>STD</b> <b>0</b> - <b>M59</b> <b>S</b> <b>1</b> <i>*Optional</i>											
	12. Straight Length	13. Busway Access	14. Feed Location	15. Paint Color	16. Tape Marking	*17. Meter Release	*18. Meter Options	*19. System Config. and CT Type			

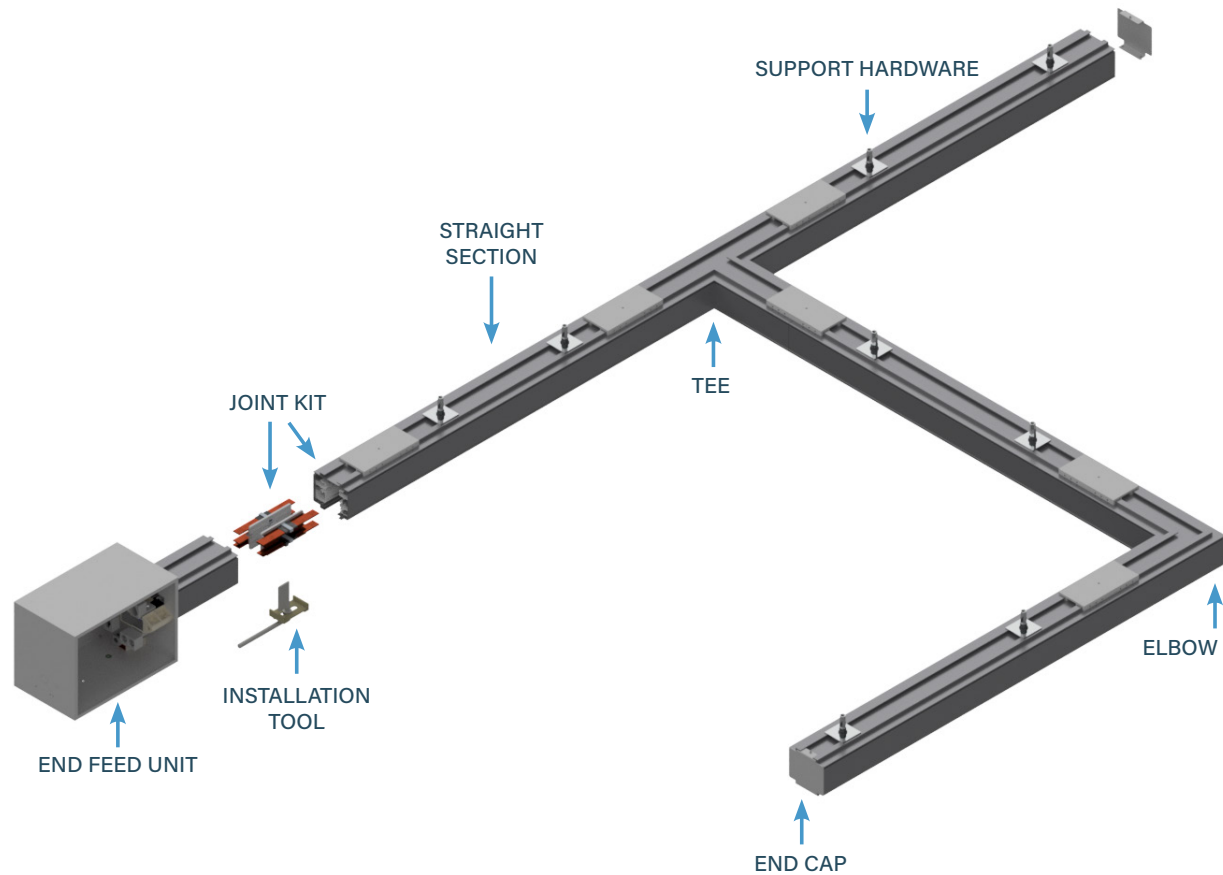
<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US <b>C</b> Compact US						<b>12. Straight Length</b> <i>(length of section)</i> <b>0300</b> 3 feet					
<b>2. Product Type</b> <i>(section component)</i> <b>A</b> Above Feed						<b>13. Busway Access</b> <i>(how plugs access the busway)</i> <b>C</b> Continuous					
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>400</b> 400 amps						<b>14. Feed Location</b> <i>(location of the center of the top feed)</i> <b>018</b> 18 inches <i>(For other lengths, consult the factory)</i>					
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T5</b> T5 System <b>K5</b> T5 System (Limiting Strip) <b>S5</b> S5 System <b>L5</b> S5 System (Limiting Strip)						<b>15. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD</b> Factory Mill Finish <b>RED</b> Paint Factory Red <b>BLK</b> Paint Factory Black <b>BLU</b> Paint Factory Blue <b>WHT</b> Paint Factory White <b>**RAL</b> <i>(please see page 4.103)</i> <b>NOTE:</b> All Above Feed enclosures are painted. "STD Factory Mill Finish" represents painted standard silver.					
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper						<b>16. Tape Marking</b> <i>(colored tape on both sides of busway housing)</i> <b>0</b> No Tape Marking <b>7</b> Tape Factory Blue <b>3</b> Tape Factory Black <b>8</b> Tape Factory Green <b>4</b> Tape Factory White <b>9</b> Tape Factory Yellow <b>6</b> Tape Factory Red					
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral <b>G</b> 3 Phase plus Neutral plus Internal Ground Conductor <b>N</b> 3 Phase plus 200% Neutral <b>F</b> 3 Phase plus 200% Neutral plus Internal Ground Conductor						<b>*17. Meter Release</b> <i>(M50 Series Meters)</i> <b>M51</b> Single Eth./WiFi, ≤480V Y, ≤277V Δ <b>M53</b> Single Eth./No WiFi, ≤480V Y, ≤277V Δ <b>M58</b> Dual Eth., ≤480V Y, ≤277V Δ <b>M59</b> Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ					
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard <b>R</b> Reversed						<b>*18. Meter Options</b> <i>(choose from a 4.1" display, measured neutral, audible alarm and/or a temperature monitor)</i> <b>S</b> Standard <b>N</b> (Measured) Neutral <b>D</b> Display <b>P</b> Professional (D+N)					
<b>8. Lug/Box Options</b> <i>(standard/double/bolt lugs and box size)</i> <b>S</b> Standard lugs, Standard box						<b>*19. System Configuration and CT Type</b> <i>(line-line or line-neutral and wye or delta systems)</i> <b>1</b> LLD - Standard, Milivolt <b>K</b> LLD - SC, 5A <b>3</b> LNY - Standard, Milivolt <b>M</b> LNY - SC, 5A					
<b>9. Meter Location</b> <i>(from the terminal, side with removable lid)</i> <b>R</b> Right <b>L</b> Left <b>N</b> None (N/A)											
<b>10. Accessories Package</b> <i>(optional accessories for feed units)</i> <b>S</b> Standard											
<b>11. Accessories Location</b> <i>(from the terminal, side with removable lid)</i> <b>N</b> None (N/A) <b>R</b> Right <b>A</b> Rear <b>L</b> Left <b>T</b> Top <b>F</b> Front											

### EXAMPLE

**UA400K5CFS-SRSN-0300C018-STD0-M59D3** = US System, Above Feed, 400 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus 200% Neutral plus Internal Ground Conductor, Standard Polarization, Standard Lugs, Standard Box, Right Meter Location, Standard Accessory Package, No Accessory Location, 3 foot Straight Length, Continuous Busway Access, 18 inch Feed Location, Factory Mill Finish, No Tape Marking, M59 Meter, Display, LNY - Standard, Milivolt

# 500 AMP SYSTEMS

## T5 SYSTEM LAYOUT DRAWING

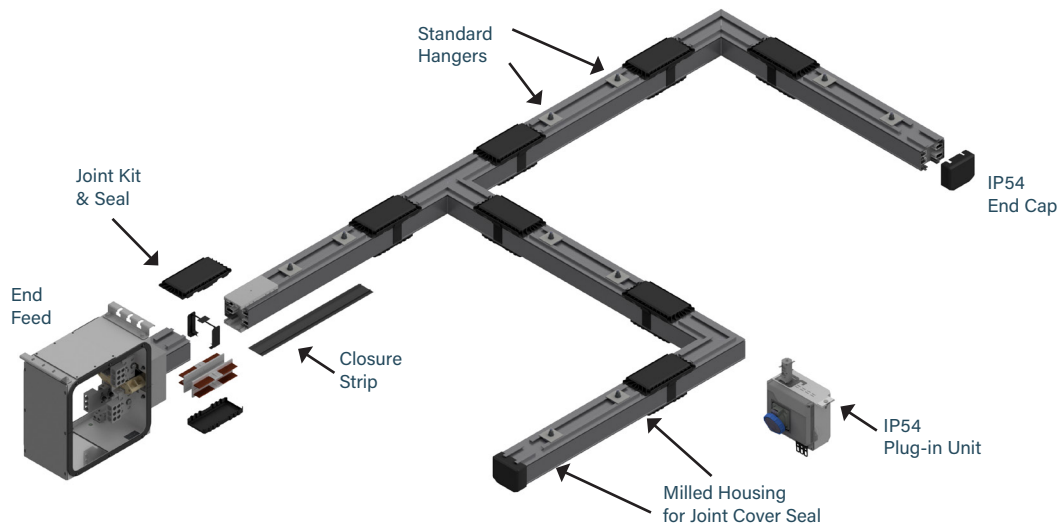


### PLUG-IN UNITS

For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.

# 500 AMP SYSTEMS

## S5 SYSTEM LAYOUT DRAWING



### PLUG-IN UNITS

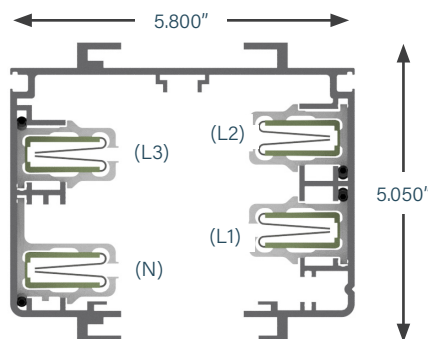
For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.

# 500 AMP SYSTEMS

## STRAIGHT SECTIONS

### PRODUCT DESCRIPTION

Track Busway straight section consists of an extruded aluminum shell with "spring-pressure" type copper channel busbars contained in a full length insulator mounted on the interior walls. The aluminum extrusion acts as a 100% ground path. Each housing has a continuous access slot over its entire length for the insertion of turn-n-lock plug-in units. Housing configurations include 4-pole varieties and optional isolated ground. The straight sections join together using bus connectors which fit into the channels of the adjoining section. An Installation tool is used to force the blades into the busbar channels for a solid "spring-pressure" electrical connection.



#### MATERIAL

Extruded Aluminum

*Note: S5 housing includes corrosion resistant base coating*

#### RATINGS

100% Ground Path

500 Amps

500T5C4/500T5CG: 600 Volt

#### LENGTH

T5: 10 ft, 20 ft; or custom lengths between 2 - 20 ft

S5: 5 ft, 10 ft max. Consult factory for additional lengths

#### VOLTAGE DROP

Distributed load

Single Phase 1V per 37 ft (.8PF)






Three Phase 1V per 65 ft (.8PF)

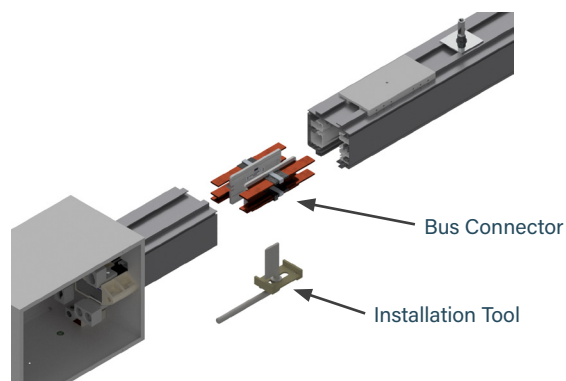
#### WEIGHT

10 ft 4 pole: 104 lbs

10 ft 4 pole w/ ground: 109 lbs

#### US

L1 or Phase A		Black
L2 or Phase B		Red
L3 or Phase C		Blue
Neutral		White
Ground		Green/Black



## STRAIGHT SECTIONS: PRODUCT NUMBERS

The diagram shows a 12-digit part number: **U S 500 T5 C 4 S - 0200 C**. Below the digits, labels 1 through 11 are aligned with their respective positions:

- 1. System
- 2. Product Type
- 3. Product Frame
- 4. Compatibility
- 5. Material
- 6. Neutral/Ground Busbar
- 7. Polarization
- 8. Straight
- 9. Busway
- 10. Paint Color
- 11. Tape Marking

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>9. Busway Access</b> <i>(how plugs access the busway)</i> <b>C</b> Continuous
<b>2. Product Type</b> <i>(section component)</i> <b>S</b> Straight Section	<b>10. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD</b> Factory Mill Finish <b>RED</b> Paint Factory Red <b>BLK</b> Paint Factory Black <b>BLU</b> Paint Factory Blue <b>WHT</b> Paint Factory White <b>**RAL</b> <i>(please see page 4.103)</i>
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>500</b> 500 amps	<b>NOTE:</b> All Series-S housings include a clear corrosion resistant base coating, regardless of paint color selection.
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T5</b> T5 System <b>K5</b> T5 System (Limiting Strip) <b>S5</b> S5 System <b>L5</b> S5 System (Limiting Strip)	<b>11. Tape Marking</b> <i>(colored tape on both sides of busway housing)</i> <b>0</b> No Tape Marking <b>7</b> Tape Factory Blue <b>3</b> Tape Factory Black <b>8</b> Tape Factory Green <b>4</b> Tape Factory White <b>9</b> Tape Factory Yellow <b>6</b> Tape Factory Red
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper	
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral <b>G</b> 3 Phase plus Neutral plus Internal Ground Conductor	
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard	
<b>8. Straight Length</b> <i>(length of section)</i> <b>XXYY</b> XX=feet, YY=inches	

**US500K5CGS-0206C-P013** = US System, Straight Section, 500 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Connector, Standard Polarization, 2 foot 6 inch Straight Length, Continuous Busway Access, Painted RAL 1001, Factory Black Tape Marking



# 500 AMP SYSTEMS

## ELBOW SECTIONS

### ■ PRODUCT DESCRIPTION

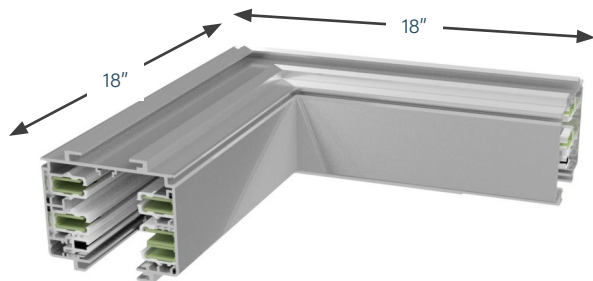
An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

#### Connection Accessories

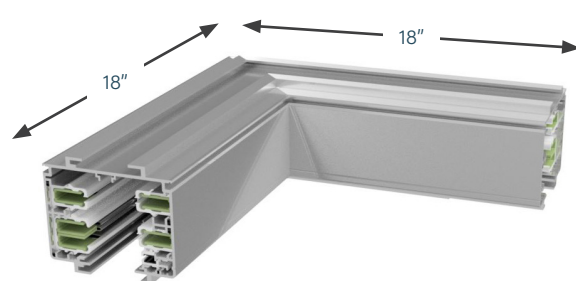
(Ordered Separately)

A Joint Kit (**page 4.108**) is used to make mechanical and electrical connections to adjacent busway sections.

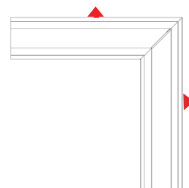
**Weight** 17.5 lbs



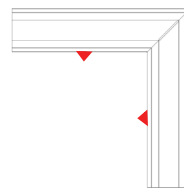
EXTERNAL ELBOW



INTERNAL ELBOW



External Elbow



Internal Elbow

▲ = Polarizing Stripe

## ELBOW SECTIONS: PRODUCT NUMBERS

U	E	500	T5	C	4	S	-	IN
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction
			-	STD	0			
			9. Paint Color	10. Tape Marking				

<b>1. System</b> ( <i>standard of measure</i> ) <b>U</b> US	<b>8. Turning Direction</b> ( <i>direction of section polarizing stripe</i> ) <b>IN</b> Internal <b>EX</b> External
<b>2. Product Type</b> ( <i>section component</i> ) <b>E</b> Elbow Section	<b>9. Paint Color</b> ( <i>allows painting of the busway housing</i> ) <b>STD</b> Factory Mill Finish <b>RED</b> Paint Factory Red <b>BLK</b> Paint Factory Black <b>BLU</b> Paint Factory Blue <b>WHT</b> Paint Factory White <b>**RAL</b> (please see page 4.103)
<b>3. Product Frame</b> ( <i>maximum amperage</i> ) <b>500</b> 500 amps	<b>NOTE:</b> All Series-S housings include a clear corrosion resistant base coating, regardless of paint color selection.
<b>4. Compatibility</b> ( <i>frame compatibility</i> ) <b>T5</b> T5 System <b>K5</b> T5 System (Limiting Strip) <b>S5</b> S5 System <b>L5</b> S5 System (Limiting Strip)	<b>10. Tape Marking</b> ( <i>colored tape on both sides of busway housing</i> ) <b>0</b> No Tape Marking <b>7</b> Tape Factory Blue <b>3</b> Tape Factory Black <b>8</b> Tape Factory Green <b>4</b> Tape Factory White <b>9</b> Tape Factory Yellow <b>6</b> Tape Factory Red
<b>5. Material</b> ( <i>busbar material</i> ) <b>C</b> Copper	
<b>6. Neutral/Ground Busbar</b> ( <i>size of neutral busbar and/or ground</i> ) <b>4</b> 3 Phase plus Neutral <b>G</b> 3 Phase plus Neutral plus Internal Ground Conductor	
<b>7. Polarization</b> ( <i>orientation of section for mating purposes</i> ) <b>S</b> Standard	

UE500T5CGS-EX-BLK0 = US System, Elbow Section, 500 amps, T5 System, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External Turning Direction, Painted Factory Black, No Tape Marking

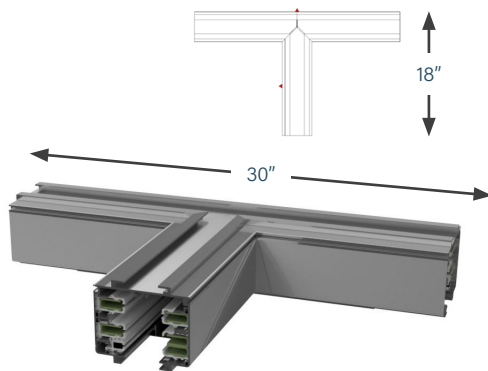
# 500 AMP SYSTEMS

## TEE SECTIONS

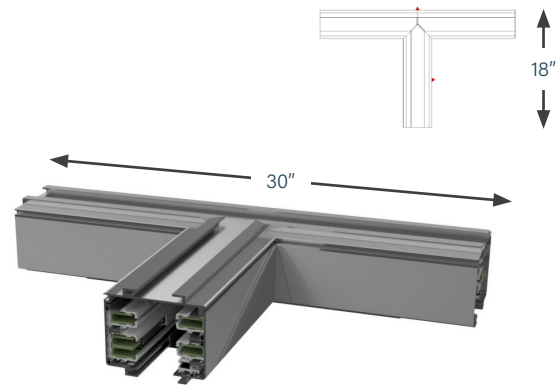
### ■ PRODUCT DESCRIPTION

Tee sections are used for creating a 90 degree branch leg in a busway run. When laying out a system, specify the correct busbar orientation of the tee. Indicate right or left, external or internal busbars. External tees are preferred. Tee sections are connected to adjacent busway sections using an installation tool and joint kit that includes a housing coupler and bus connector (ordered separately). This handles both the mechanical and electrical connection between a straight section and tee section of busway.

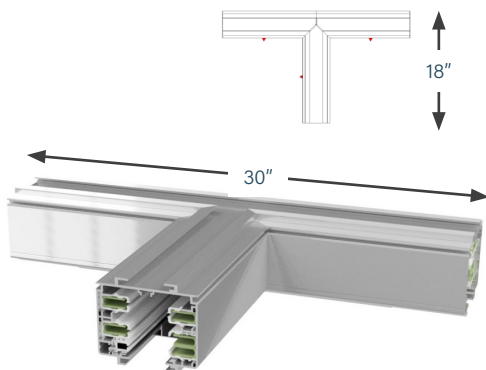
**Weight** 45.5 lbs



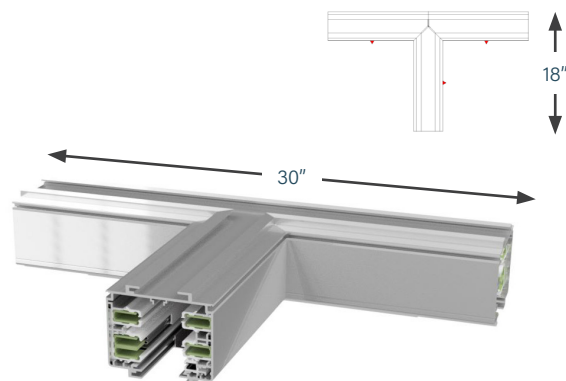
EXTERNAL-LEFT (EL)



EXTERNAL-RIGHT (ER)



INTERNAL-LEFT (IL)



INTERNAL-RIGHT (IR)

▲ = Polarizing Stripe

## TEE SECTIONS: PRODUCT NUMBERS

U	T	500	T5	C	4	S	-	IR
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction
			-	STD	0			
			9. Paint Color	10. Tape Marking				

<b>1. System</b> <i>(standard of measure)</i>		<b>8. Turning Direction</b> <i>(direction of section polarizing stripe)</i>	
<b>U</b>	US	<b>IL</b>	Internal-Left
<b>2. Product Type</b> <i>(section component)</i>		<b>IR</b>	Internal-Right
<b>T</b>	Tee Section	<b>EL</b>	External-Left
<b>3. Product Frame</b> <i>(maximum amperage)</i>		<b>ER</b>	External-Right
<b>500</b>	500 amps	<b>9. Paint Color</b> <i>(allows painting of the busway housing)</i>	
<b>4. Compatibility</b> <i>(frame compatibility)</i>		<b>STD</b>	Factory Mill Finish
<b>T5</b>	T5 System	<b>RED</b>	Paint Factory Red
<b>S5</b>	S5 System	<b>BLK</b>	Paint Factory Black
<b>K5</b>	T5 System (Limiting Strip)	<b>BLU</b>	Paint Factory Blue
<b>L5</b>	S5 System (Limiting Strip)	<b>WHT</b>	Paint Factory White
<b>5. Material</b> <i>(busbar material)</i>		<b>**RAL</b>	<i>(please see page 4.103)</i>
<b>C</b>	Copper	<b>NOTE:</b> All Series-S housings include a clear corrosion resistant base coating, regardless of paint color selection.	
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i>		<b>10. Tape Marking</b> <i>(colored tape on both sides of busway housing)</i>	
<b>4</b>	3 Phase plus Neutral	<b>0</b>	No Tape Marking
<b>G</b>	3 Phase plus Neutral plus Internal Ground Conductor	<b>3</b>	Tape Factory Black
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i>		<b>4</b>	Tape Factory White
<b>S</b>	Standard	<b>6</b>	Tape Factory Red
		<b>7</b>	Tape Factory Blue
		<b>8</b>	Tape Factory Green
		<b>9</b>	Tape Factory Yellow

UT500K5CGS-EL-STD0 = US System, Tee Section, 500 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External-Left Turning Direction, Factory Mill Finish, No Tape Marking

# 500 AMP SYSTEMS

## END FEED UNITS

### PRODUCT DESCRIPTION

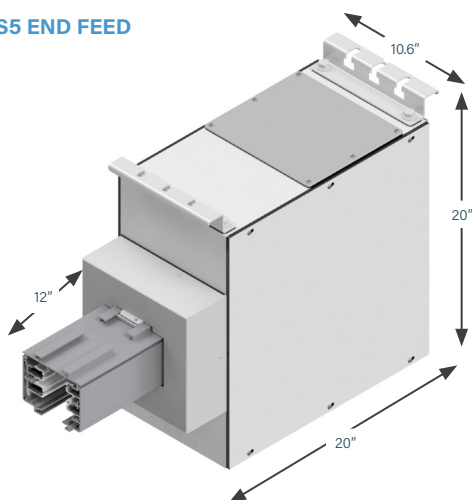
End power feed units connect to the end of the busway. A standard size, factory assembled unit consists of a steel junction box, with removable sides, connected to a 1 foot section of busway. The assembly includes connection lugs and a ground lug for wires (2) 250MCM or up to 600MCM for standard size boxes and large size boxes.

End power feed units are connected to adjacent busway sections using a housing coupler and bus connector (ordered separately).

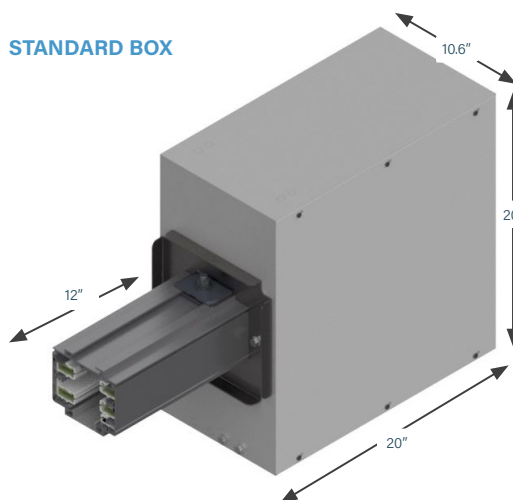
Special need power feed units for confined spaces, as found in mission critical data centers, can also be designed and fabricated but may require minimum quantities.

**Weight** (for standard size end feed) 35 lbs

#### 500S5 END FEED



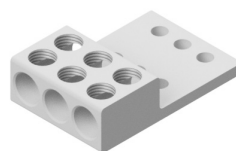
#### STANDARD BOX



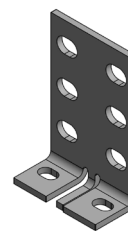
	BOXES		
LUGS	Standard	Large	Fused
Standard	<b>S</b>		
Double			
Bolt*	<b>B</b>		

\*Bolt options include bolt, washer, nut.  
Lug not included.

\*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on [downloads.starlinepower.com/starline/busway](https://downloads.starlinepower.com/starline/busway)



**STANDARD "S"**



**BOLT "B"**

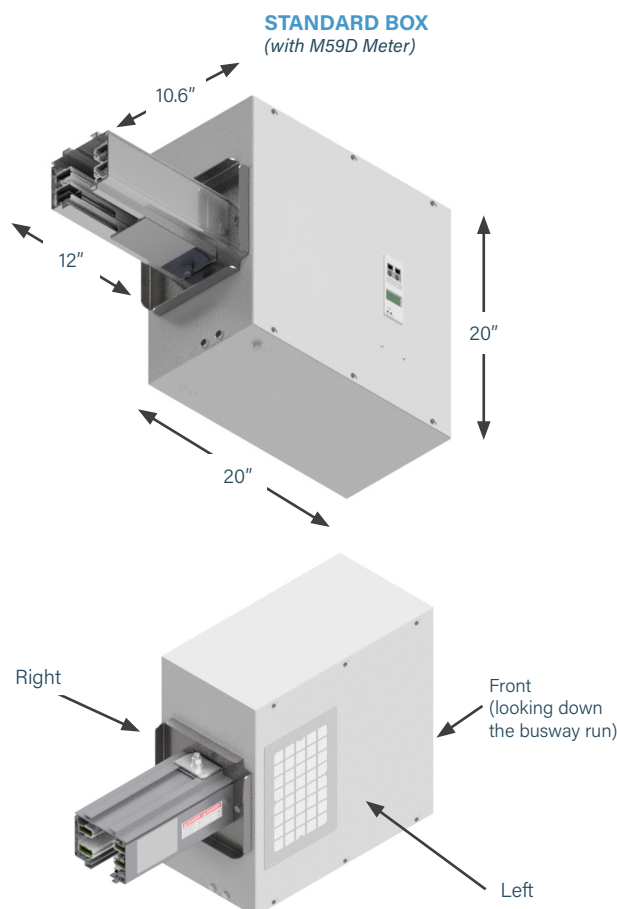
# 500 AMP SYSTEMS

## END FEED UNITS: METERING

### ■ PRODUCT DESCRIPTION

End power feed units connect to the end of the busway. A large size, factory assembled unit consists of a steel junction box, with removable side, connected to a 1 foot section of busway. The assembly includes connection lugs and a ground lug for wires (2) 250MCM or up to 600MCM for standard size boxes and large size boxes.

Integral CPM installed in the end feed provides power monitoring and alarm capabilities. The M50 models are for AC busway, while the M60 models are for DC busway. Nuisance tripping may be avoided using the current information to protect against overloading phases. The monitors also assist in the continuous challenge to balance the three phase loads. Once the meter is integrated, an automated email will be sent at 80% of full load as a warning to the user. This level may be changed in the field using the integrated webpage.



\*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on **page 4.51** End Feed Units: Product Numbers)

### AC END FEED METER OPTIONS

- M51** Single Eth./WiFi,  $\leq 480V$  Y,  $\leq 277V$   $\Delta$
- M53** Single Eth./No WiFi,  $\leq 480V$  Y,  $\leq 277V$   $\Delta$
- M58** Dual Eth.,  $\leq 480V$  Y,  $\leq 277V$   $\Delta$
- M59** Dual Eth./Dual Modbus,  $\leq 480V$  Y,  $\leq 277V$   $\Delta$

### DC END FEED METER OPTIONS

- M61** Single Eth./WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M63** Single Eth./No WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M67** Dual Eth., single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M69** Dual Eth./Dual Modbus, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

Series-S Note: End Feed metering not currently offered for Series-S systems. For custom inquiries, please contact your Starline representative."

# 500 AMP SYSTEMS

## END FEED UNITS: ACCESSORIES

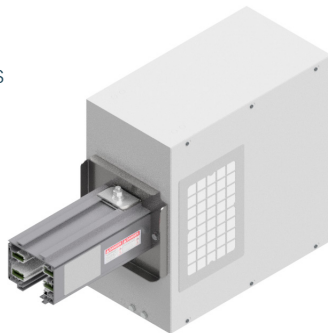
### ■ IR WINDOWS

Starline Track Busway Polymer IR Window systems use a proprietary stack-up of advanced materials to ensure highest levels of safety and optimal infrared thermography of critical connections.

When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

Safely and accurately scan connection points while the system is under load, without exposing the operator to live connections.

Note: Rectangular IR window option not available for Series-S systems. See S5 end feed accessories package for more information.

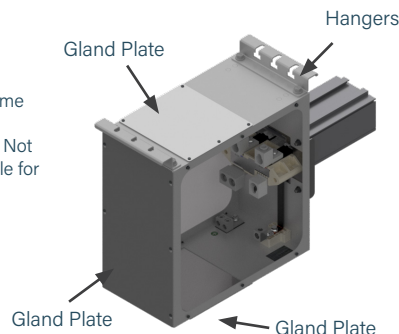


### ■ END FEED HANGERS & GLAND PLATES

End feed hangers & aluminum cable gland plates, located on the top, bottom and back of the end feed, can now be added as an optional accessory to Starline end feeds. These features make installation fast and easy and can be paired with other Starline end feed accessories.

#### SERIES-S END FEED INFORMATION

All Series-S End Feeds come standard with preinstalled hangers and gland plates. Not all accessories are available for Series-S End Feeds.



### FEATURES & BENEFITS

- Allows for safe IR scanning without powering down busway
- Complete system coverage with IR windows for plug-in units and end feeds
- End feed IR windows designed in 2 sizes for optimized viewing angles
- Cost effective design allows for quick end user ROI
- ETL Listed, CE Marked
- Lower TCO
- Enhanced safety
- Effective preventative maintenance

### GENERAL SPECIFICATIONS

Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Aluminum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T5); IP54 (S5)
Max Operating Temperature	125°C

### WINDOW DIMENSIONS

End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 500A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17, M50 Options on **page 4.52** End Feed Units: Product Numbers)

(Refer to option 10, Accessories Package on **page 4.51** End Feed Units: Product Numbers)





## END FEED METERING: PRODUCT NUMBERS

Note: Series - S end feeds not currently equipped with power monitoring.  
Consult factory for details.

UF500T5C4R-SLSN-0102P-BLK0-M59S1 = US System, End Feed, 500 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard box, Left Meter Location, Standard Accessory Package, No Accessories Location, 1 foot 2 inch Straight Length, Continuous Busway Access, Painted Factory Black, No Tape Marking, M59 Meter, Standard Meter Options, LLD - Standard, Milivolt

# 500 AMP SYSTEMS

## ABOVE FEED UNITS

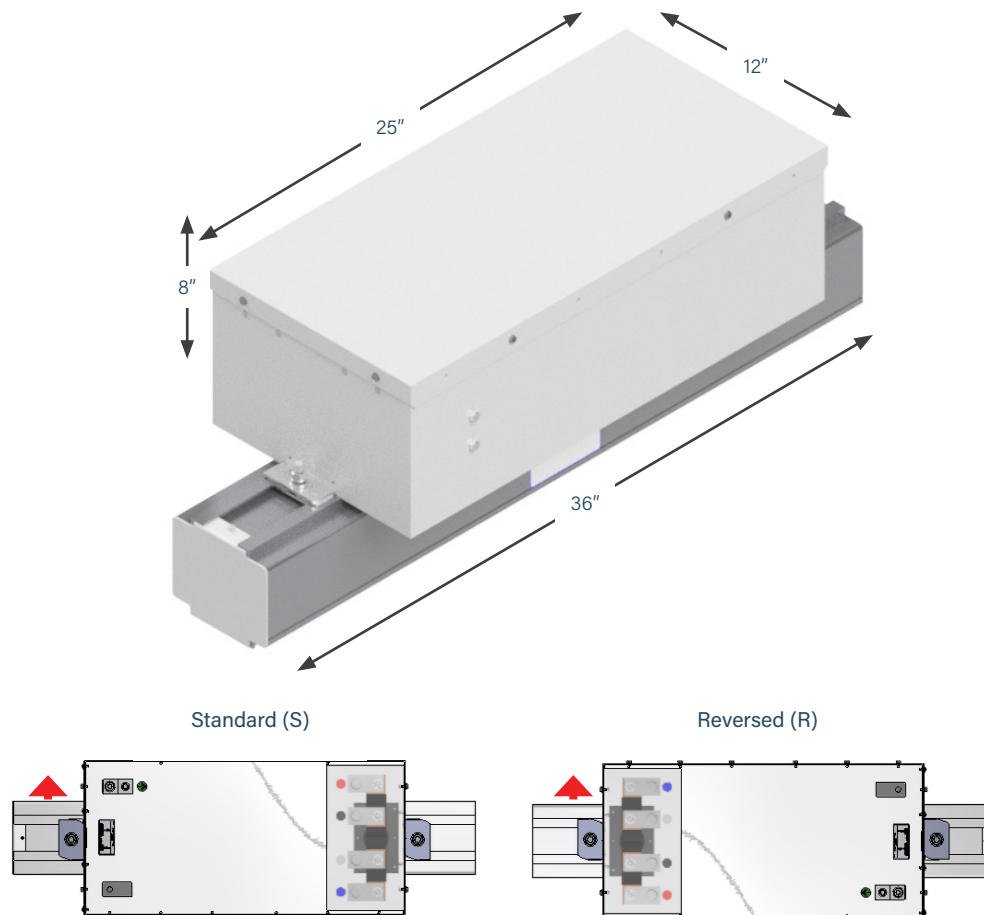
### ■ PRODUCT DESCRIPTION

The above feed power unit supplies power from the topside of the busway. Factory assembled unit consists of a 25 x 12 x 8 inch steel junction box mounted on top of a 36 inch section of busway.

\*36 inches is the minimum and standard length of busway that an above feed is provided with.

Above feed units can be placed at the end or anywhere along a busway run. Connections to adjoining busway sections are made by the standard means, requiring couplers and bus connectors which are sold separately.

\*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on [downloads.starlinepower.com/starline/busway](https://downloads.starlinepower.com/starline/busway)



## ABOVE FEED UNITS: PRODUCT NUMBERS

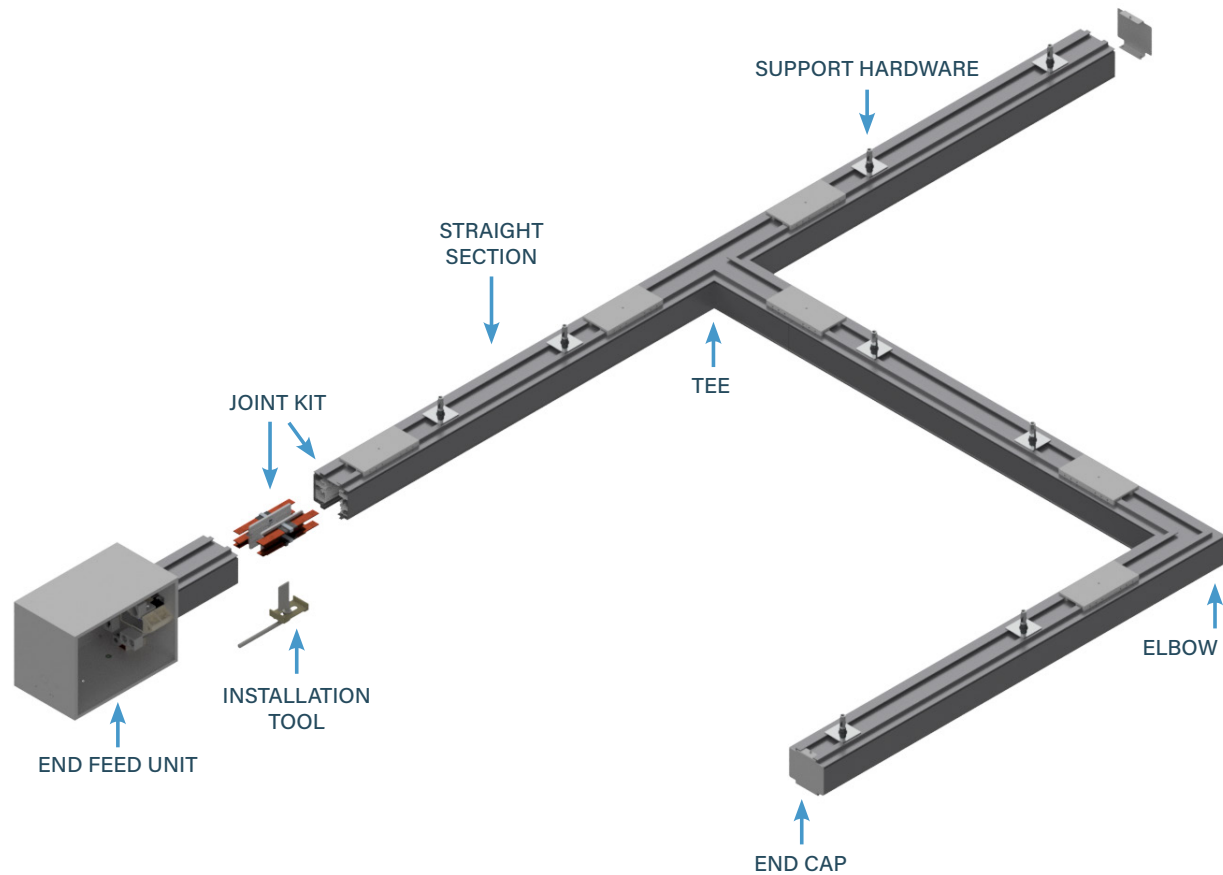
U	A	500	T5	C	4	S	-	S	N	S	N
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	8. Lug/Box Options	9. Meter Location	10. Accessories Package	11. Accessories Location	
<div> <div>-</div> <div>0300</div> <div>C</div> <div>018</div> <div>-</div> <div>STD</div> <div>0</div> <div>-</div> <div>M59</div> <div>S</div> <div>1</div> <div>*Optional</div> </div>											
12. Straight Length	13. Busway Access	14. Feed Location	15. Paint Color	16. Tape Marking		*17. Meter Release	*18. Meter Options	*19. System Config. and CT Type			

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>12. Straight Length</b> <i>(length of section)</i> <b>0300</b> 3 feet
<b>2. Product Type</b> <i>(section component)</i> <b>A</b> Above Feed	<b>13. Busway Access</b> <i>(how plugs access the busway)</i> <b>C</b> Continuous
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>500</b> 500 amps	<b>14. Feed Location</b> <i>(location of the center of the top feed)</i> <b>018</b> 18 inches <i>(For other lengths, consult the factory)</i>
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T5</b> T5 System <b>K5</b> T5 System (Limiting Strip) <b>S5</b> S5 System <b>L5</b> S5 System (Limiting Strip)	<b>15. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD</b> Factory Mill Finish <b>RED</b> Paint Factory Red <b>BLK</b> Paint Factory Black <b>BLU</b> Paint Factory Blue <b>WHT</b> Paint Factory White <b>**RAL</b> <i>(please see page 4.103)</i>
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper	<b>NOTE:</b> All Above Feed enclosures are painted. "STD Factory Mill Finish" represents painted standard silver.
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral <b>G</b> 3 Phase plus Neutral plus Internal Ground Conductor	<b>16. Tape Marking</b> <i>(colored tape on both sides of busway housing)</i> <b>0</b> No Tape Marking <b>7</b> Tape Factory Blue <b>3</b> Tape Factory Black <b>8</b> Tape Factory Green <b>4</b> Tape Factory White <b>9</b> Tape Factory Yellow <b>6</b> Tape Factory Red
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard <b>R</b> Reversed	<b>*17. Meter Release</b> <i>(M50 Series Meters)</i> <b>M51</b> Single Eth./WiFi, ≤480V Y, ≤277V Δ <b>M53</b> Single Eth./No WiFi, ≤480V Y, ≤277V Δ <b>M58</b> Dual Eth., ≤480V Y, ≤277V Δ <b>M59</b> Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ
<b>8. Lug/Box Options</b> <i>(standard/double/bolt lugs and box size)</i> <b>S</b> Standard lugs, Standard box	<b>*18. Meter Options</b> <i>(choose from a 4.1" display, measured neutral, audible alarm and/or a temperature monitor)</i> <b>S</b> Standard <b>N</b> (Measured) Neutral <b>D</b> Display <b>P</b> Professional (D+N)
<b>9. Meter Location</b> <i>(from the terminal, side with removable lid)</i> <b>R</b> Right <b>L</b> Left <b>N</b> None (N/A)	<b>*19. System Configuration and CT Type</b> <i>(line-line or line-neutral and wye or delta systems)</i> <b>1</b> LLD - Standard, Milivolt <b>K</b> LLD - SC, 5A <b>3</b> LNY - Standard, Milivolt <b>M</b> LNY - SC, 5A
<b>10. Accessories Package</b> <i>(optional accessories for feed units)</i> <b>S</b> Standard	
<b>11. Accessories Location</b> <i>(from the terminal, side with removable lid)</i> <b>N</b> None (N/A) <b>R</b> Right <b>A</b> Rear <b>L</b> Left <b>T</b> Top <b>F</b> Front	

## 4.54

# 600 AMP SYSTEMS

## T5 SYSTEM LAYOUT DRAWING

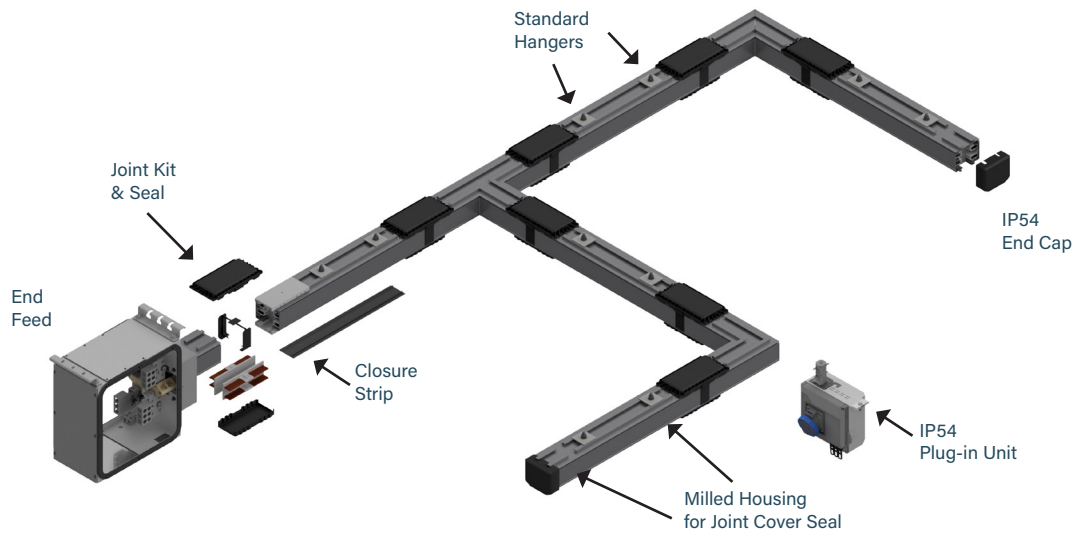


### PLUG-IN UNITS

For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.

# 600 AMP SYSTEMS

## S5 SYSTEM LAYOUT DRAWING



### PLUG-IN UNITS

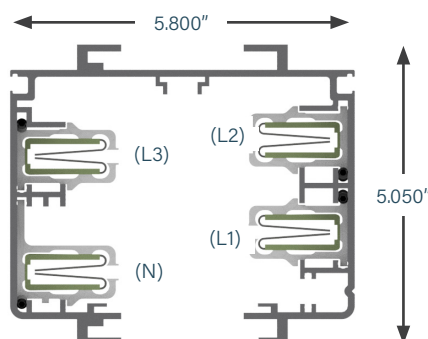
For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.

# 600 AMP SYSTEMS

## STRAIGHT SECTIONS

### PRODUCT DESCRIPTION

Track Busway straight section consists of an extruded aluminum shell with "spring-pressure" type copper channel busbars contained in a full length insulator mounted on the interior walls. The aluminum extrusion acts as a 100% ground path. Each housing has a continuous access slot over its entire length for the insertion of turn-n-lock plug-in units. Housing configurations include 4-pole varieties and optional isolated ground. The straight sections join together using bus connectors which fit into the channels of the adjoining section. An Installation tool is used to force the blades into the busbar channels for a solid "spring-pressure" electrical connection.



#### MATERIAL

Extruded Aluminum

*Note: S5 housing includes corrosion resistant base coating*

#### RATINGS

100% Ground Path

600 Amps

600T5C4/600T5CG: 600 Volt

#### LENGTH

T5: 10 ft, 20 ft; or custom lengths between 2 - 20 ft

S5: 5 ft, 10 ft max. Consult factory for additional lengths

#### VOLTAGE DROP

Distributed load

Single Phase 1V per 37 ft (.8PF)






Three Phase 1V per 65 ft (.8PF)

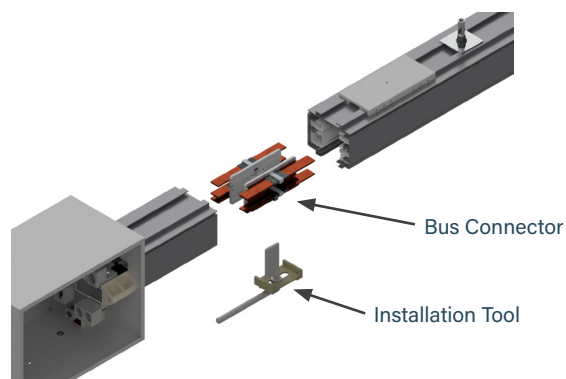
#### WEIGHT

10 ft 4 pole: 115 lbs

10 ft 4 pole w/ ground: 120 lbs

#### US

L1 or Phase A		Black
L2 or Phase B		Red
L3 or Phase C		Blue
Neutral		White
Ground		Green/Black



## STRAIGHT SECTIONS: PRODUCT NUMBERS

1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	8. Straight	9. Busway
U	S	600	T5	C	4	S	- 0200	C
				- STD	0			
				10. Paint Color	11. Tape Marking			

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>9. Busway Access</b> <i>(how plugs access the busway)</i> <b>C</b> Continuous
<b>2. Product Type</b> <i>(section component)</i> <b>S</b> Straight Section	<b>10. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD</b> Factory Mill Finish <b>RED</b> Paint Factory Red <b>BLK</b> Paint Factory Black <b>BLU</b> Paint Factory Blue <b>WHT</b> Paint Factory White <b>**RAL</b> <i>(please see page 4.103)</i>
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>600</b> 600 amps	<b>NOTE:</b> All Series-S housings include a clear corrosion resistant base coating, regardless of paint color selection.
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T5</b> T5 System <b>K5</b> T5 System (Limiting Strip) <b>S5</b> S5 System <b>L5</b> S5 System (Limiting Strip)	<b>11. Tape Marking</b> <i>(colored tape on both sides of busway housing)</i> <b>0</b> No Tape Marking <b>7</b> Tape Factory Blue <b>3</b> Tape Factory Black <b>8</b> Tape Factory Green <b>4</b> Tape Factory White <b>9</b> Tape Factory Yellow <b>6</b> Tape Factory Red
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper	
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral <b>G</b> 3 Phase plus Neutral plus Internal Ground Conductor	
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard	
<b>8. Straight Length</b> <i>(length of section)</i> <b>XXYY</b> XX=feet, YY=inches	

**US600K5CGS-0206C-P013** = US System, Straight Section, 600 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Connector, Standard Polarization, 2 foot 6 inch Straight Length, Continuous Busway Access, Painted RAL 1001, Factory Black Tape Marking

# 600 AMP SYSTEMS

## ELBOW SECTIONS

### ■ PRODUCT DESCRIPTION

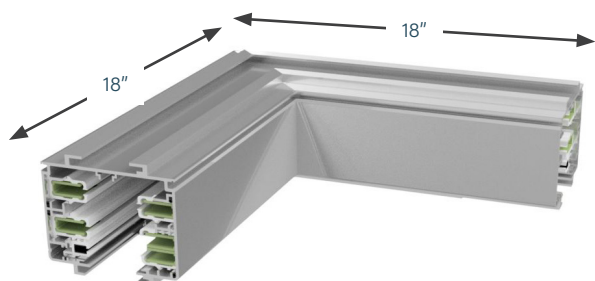
An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

#### Connection Accessories

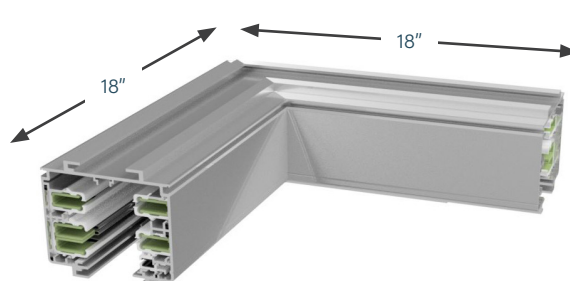
(Ordered Separately)

A Joint Kit (**page 4.108**) is used to make mechanical and electrical connections to adjacent busway sections.

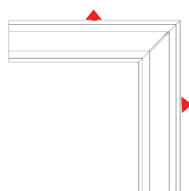
**Weight** 32 lbs



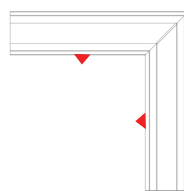
EXTERNAL ELBOW



INTERNAL ELBOW



External Elbow



Internal Elbow

▲ = Polarizing Stripe



## ELBOW SECTIONS: PRODUCT NUMBERS

U	E	600	T5	C	4	S	-	IN
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	8. Turning Direction	
			-	STD	0			
			9. Paint Color	10. Tape Marking				

<b>1. System</b> <i>(standard of measure)</i>		<b>8. Turning Direction</b> <i>(direction of section polarizing stripe)</i>	
<b>U</b>	US	<b>IN</b>	Internal
<b>2. Product Type</b> <i>(section component)</i>		<b>EX</b>	External
<b>E</b>	Elbow Section	<b>9. Paint Color</b> <i>(allows painting of the busway housing)</i>	
<b>3. Product Frame</b> <i>(maximum amperage)</i>		<b>STD</b>	Factory Mill Finish
<b>600</b>	600 amps	<b>BLK</b>	Paint Factory Black
<b>4. Compatibility</b> <i>(frame compatibility)</i>		<b>WHT</b>	Paint Factory White
<b>T5</b>	T5 System	<b>RED</b>	Paint Factory Red
<b>S5</b>	S5 System	<b>BLU</b>	Paint Factory Blue
<b>5. Material</b> <i>(busbar material)</i>		<b>**RAL</b>	<i>(please see page 4.103)</i>
<b>C</b>	Copper	<b>NOTE:</b> All Series-S housings include a clear corrosion resistant base coating, regardless of paint color selection.	
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i>		<b>10. Tape Marking</b> <i>(colored tape on both sides of busway housing)</i>	
<b>4</b>	3 Phase plus Neutral	<b>0</b>	No Tape Marking
<b>G</b>	3 Phase plus Neutral plus Internal Ground Conductor	<b>3</b>	Tape Factory Black
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i>		<b>4</b>	Tape Factory White
<b>S</b>	Standard	<b>6</b>	Tape Factory Red
		<b>7</b>	Tape Factory Blue
		<b>8</b>	Tape Factory Green
		<b>9</b>	Tape Factory Yellow

UE600T5CGS-EX-BLK0 = US System, Elbow Section, 600 amps, T5 System, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External Turning Direction, Painted Factory Black, No Tape Marking

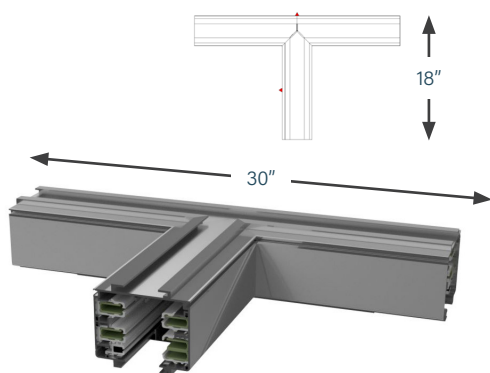
# 600 AMP SYSTEMS

## TEE SECTIONS

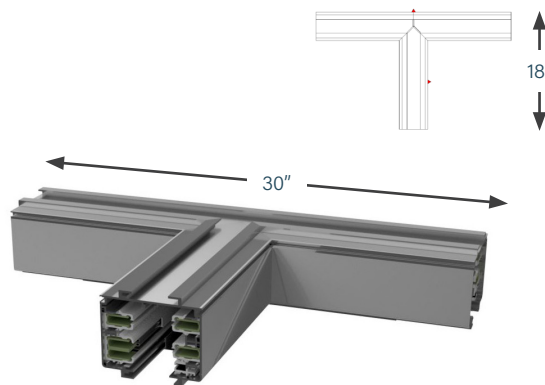
### ■ PRODUCT DESCRIPTION

Tee sections are used for creating a 90 degree branch leg in a busway run. When laying out a system, specify the correct busbar orientation of the tee. Indicate right or left, external or internal busbars. External tees are preferred. Tee sections are connected to adjacent busway sections using an installation tool and joint kit that includes a housing coupler and bus connector (ordered separately). This handles both the mechanical and electrical connection between a straight section and tee section of busway.

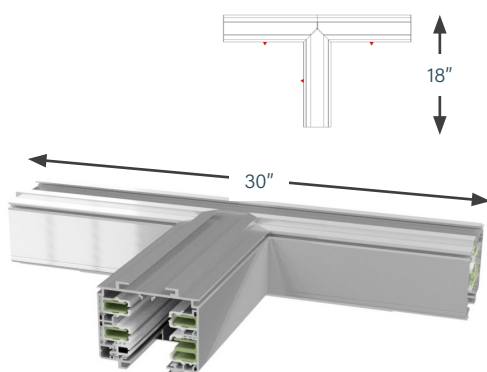
**Weight** 47.5 lbs



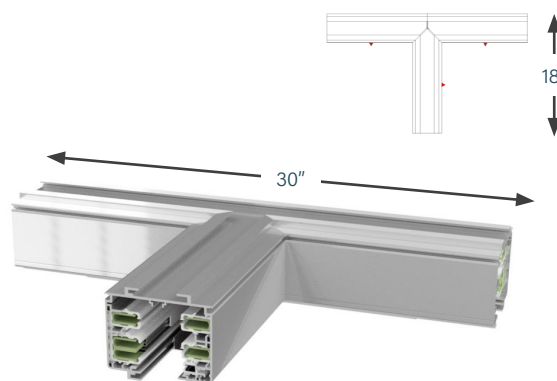
EXTERNAL-LEFT (EL)



EXTERNAL-RIGHT (ER)



INTERNAL-LEFT (IL)



INTERNAL-RIGHT (IR)

▲ = Polarizing Stripe

# 600 AMP SYSTEMS

## TEE SECTIONS: PRODUCT NUMBERS

<b>U</b>	<b>T</b>	<b>600</b>	<b>T5</b>	<b>C</b>	<b>4</b>	<b>S</b>	<b>-</b>	<b>IR</b>
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/Ground Busbar	7. Polarization		8. Turning Direction
							<b>-</b>	
							<b>STD</b>	
								<b>0</b>
							9. Paint Color	10. Tape Marking

### 1. System (standard of measure)

**U** US

### 2. Product Type (section component)

**T** Tee Section

### 3. Product Frame (maximum amperage)

**600** 600 amps

### 4. Compatibility (frame compatibility)

**T5** T5 System      **K5** T5 System (Limiting Strip)  
**S5** S5 System      **L5** S5 System (Limiting Strip)

### 5. Material (busbar material)

**C** Copper

### 6. Neutral/Ground Busbar (size of neutral busbar and/or ground)

**4** 3 Phase plus Neutral      **G** 3 Phase plus Neutral plus Internal Ground Conductor

### 7. Polarization (orientation of section for mating purposes)

**S** Standard

### 8. Turning Direction (direction of section polarizing stripe)

**IL** Internal-Left      **EL** External-Left  
**IR** Internal-Right      **ER** External-Right

### 9. Paint Color (allows painting of the busway housing)

**STD** Factory Mill Finish      **RED** Paint Factory Red  
**BLK** Paint Factory Black      **BLU** Paint Factory Blue  
**WHT** Paint Factory White      **\*\*RAL** (please see page 4.103)

**NOTE:** All Series-S housings include a clear corrosion resistant base coating, regardless of paint color selection.

### 10. Tape Marking (colored tape on both sides of busway housing)

**0** No Tape Marking      **7** Tape Factory Blue  
**3** Tape Factory Black      **8** Tape Factory Green  
**4** Tape Factory White      **9** Tape Factory Yellow  
**6** Tape Factory Red

## EXAMPLES

**UT600T5C4S-IR-RED0** = US System, Tee Section, 600 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning Direction, Painted Factory Red, No Tape Marking

**UT600K5CGS-EL-STD0** = US System, Tee Section, 600 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External-Left Turning Direction, Factory Mill Finish, No Tape Marking

# 600 AMP SYSTEMS

## END FEED UNITS

### PRODUCT DESCRIPTION

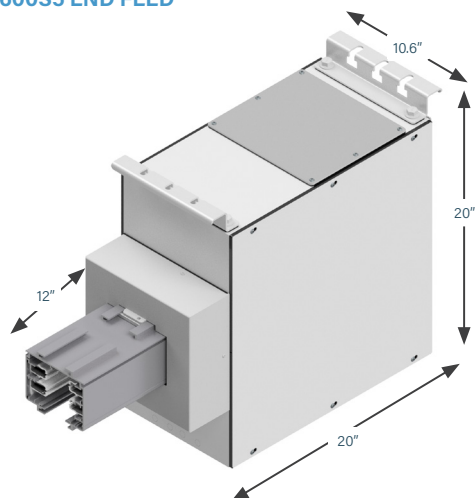
End power feed units connect to the end of the busway. A standard size, factory assembled unit consists of a steel junction box, with removable sides, connected to a 1 foot section of busway. The assembly includes connection lugs and a ground lug for wires (2) 250MCM or up to 600MCM for standard size boxes and large size boxes.

End power feed units are connected to adjacent busway sections using a housing coupler and bus connector (ordered separately).

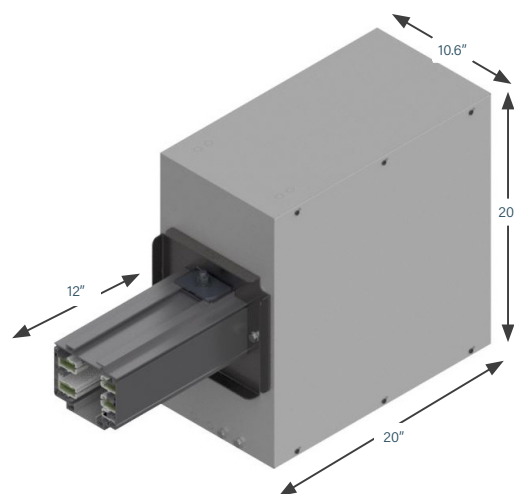
Special need power feed units for confined spaces, as found in mission critical data centers, can also be designed and fabricated but may require minimum quantities.

**Weight** (for standard size end feed) 52 lbs

#### 600S5 END FEED



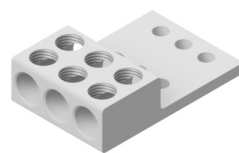
#### STANDARD BOX



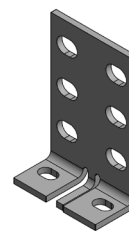
	BOXES		
LUGS	Standard	Large	Fused
Standard	<b>S</b>		
Double			
Bolt*	<b>B</b>		

\*Bolt options include bolt, washer, nut.  
Lug not included.

\*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on [downloads.starlinepower.com/starline/busway](https://downloads.starlinepower.com/starline/busway)



**STANDARD "S"**



**BOLT "B"**

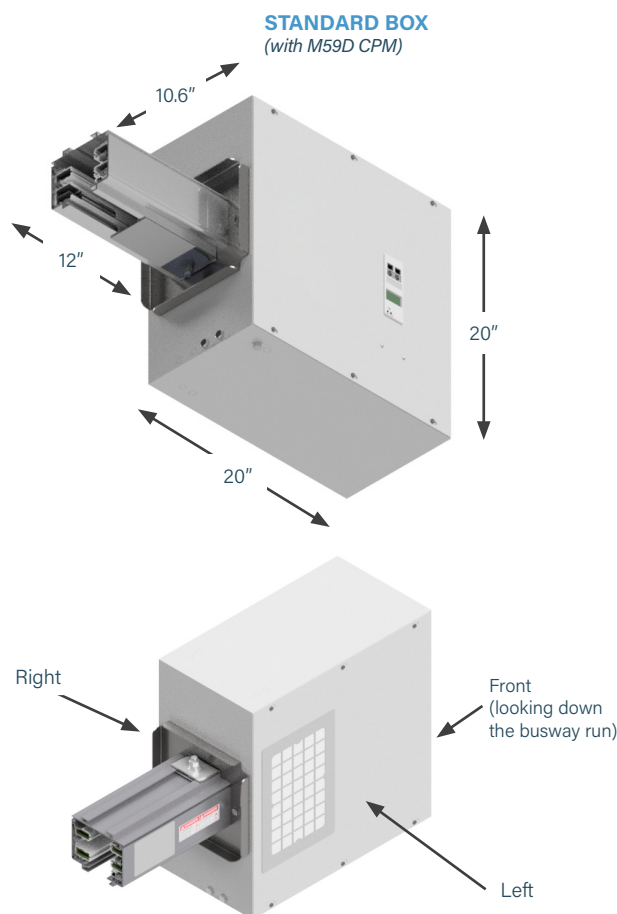
# 600 AMP SYSTEMS

## END FEED UNITS: METERING

### ■ PRODUCT DESCRIPTION

End power feed units connect to the end of the busway. A large size, factory assembled unit consists of a steel junction box, with removable side, connected to a 1 foot section of busway. The assembly includes connection lugs and a ground lug for wires (2) 250MCM or up to 600MCM for standard size boxes and large size boxes.

Integral CPM installed in the end feed provides power monitoring and alarm capabilities. The M50 models are for AC busway, while the M60 models are for DC busway. Nuisance tripping may be avoided using the current information to protect against overloading phases. The monitors also assist in the continuous challenge to balance the three phase loads. Once the meter is integrated, an automated email will be sent at 80% of full load as a warning to the user. This level may be changed in the field using the integrated webpage.



\*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on **page 4.66** End Feed Units: Product Numbers)

#### AC END FEED METER OPTIONS

- M51** Single Eth./WiFi,  $\leq 480V$  Y,  $\leq 277V$   $\Delta$
- M53** Single Eth./No WiFi,  $\leq 480V$  Y,  $\leq 277V$   $\Delta$
- M58** Dual Eth.,  $\leq 480V$  Y,  $\leq 277V$   $\Delta$
- M59** Dual Eth./Dual Modbus,  $\leq 480V$  Y,  $\leq 277V$   $\Delta$

#### DC END FEED METER OPTIONS

- M61** Single Eth./WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M63** Single Eth./No WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M67** Dual Eth., single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M69** Dual Eth./Dual Modbus, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

Series-S Note: End Feed metering not currently offered for Series-S systems. For custom inquiries, please contact your Starline representative.

# 600 AMP SYSTEMS

## END FEED UNITS: ACCESSORIES

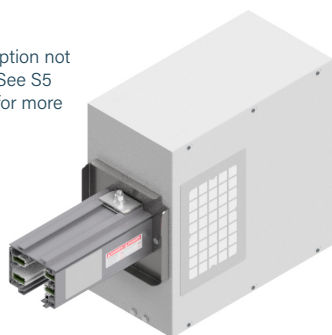
### ■ IR WINDOWS

Starline Track Busway Polymer IR Window systems use a proprietary stack-up of advanced materials to ensure highest levels of safety and optimal infrared thermography of critical connections.

When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

Safely and accurately scan connection points while the system is under load, without exposing the operator to live connections.

Note: Rectangular IR window option not available for Series-S systems. See S5 end feed accessories package for more information.

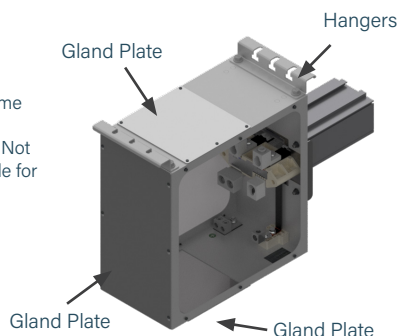


### ■ END FEED HANGERS & GLAND PLATES

End feed hangers & aluminum cable gland plates, located on the top, bottom and back of the end feed, can now be added as an optional accessory to Starline end feeds. These features make installation fast and easy and can be paired with other Starline end feed accessories.

#### SERIES-S END FEED INFORMATION

All Series-S End Feeds come standard with preinstalled hangers and gland plates. Not all accessories are available for Series-S End Feeds.



### FEATURES & BENEFITS

- Allows for safe IR scanning without powering down busway
- Complete system coverage with IR windows for plug-in units and end feeds
- End feed IR windows designed in 2 sizes for optimized viewing angles
- Cost effective design allows for quick end user ROI
- ETL Listed, CE Marked
- Lower TCO
- Enhanced safety
- Effective preventative maintenance

### GENERAL SPECIFICATIONS

Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Aluminum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T5); IP54 (S5)
Max Operating Temperature	125°C

### WINDOW DIMENSIONS

End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 500A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17, M50 Options on **page 4.67** End Feed Units: Product Numbers)

(Refer to option 10, Accessories Package on **page 4.66** End Feed Units: Product Numbers)



## END FEED METERING: PRODUCT NUMBERS

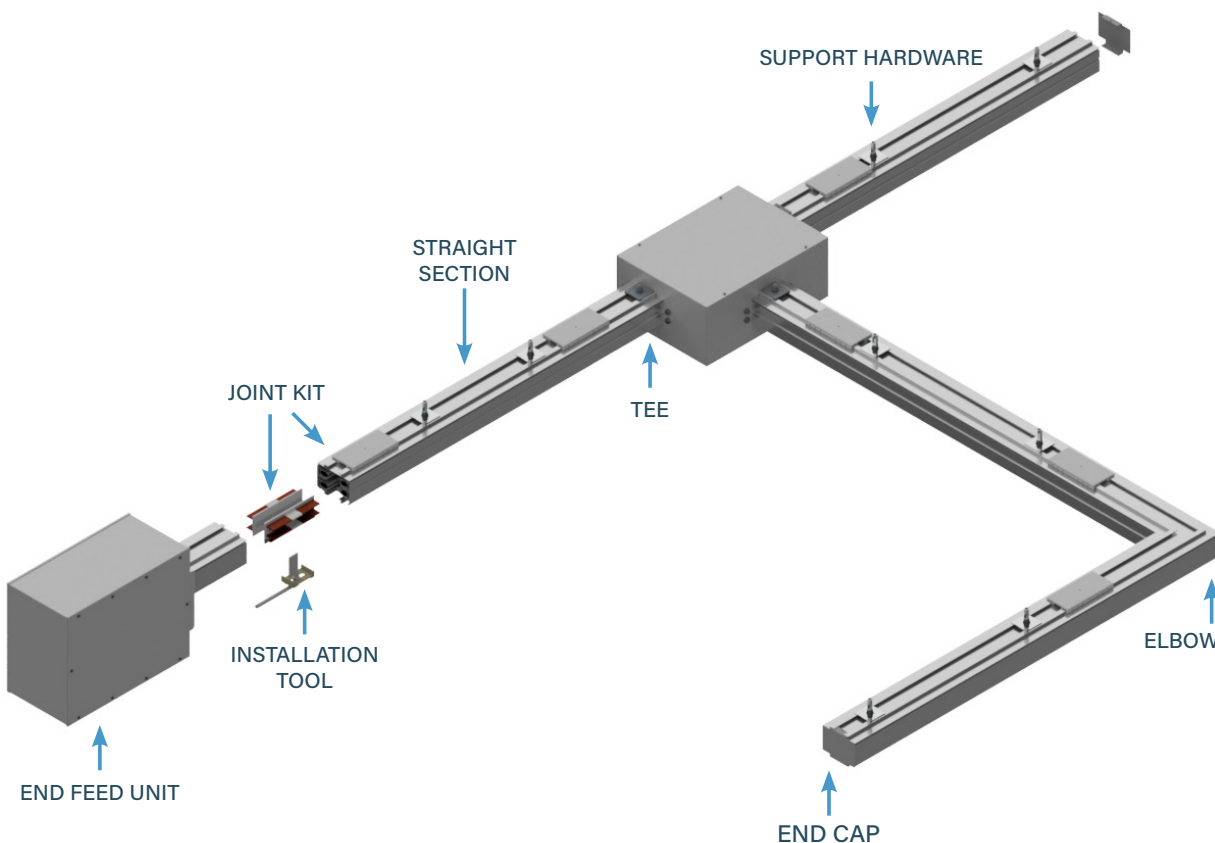
**M51D**  
Single Ethernet  
w/ Wi-Fi

4.67



# 800 AMP SYSTEMS

## T5 SYSTEM LAYOUT DRAWING

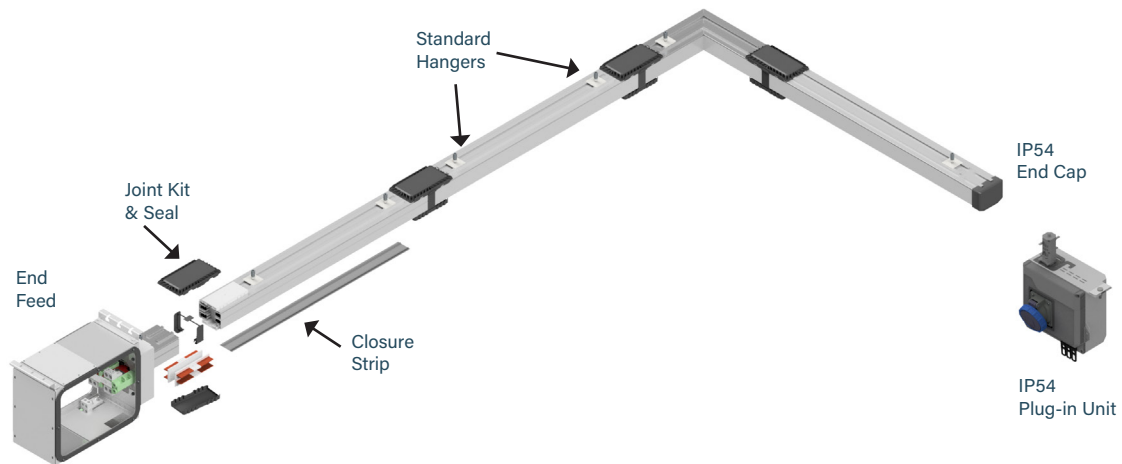


### PLUG-IN UNITS

For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.

# 800 AMP SYSTEMS

## S5 SYSTEM LAYOUT DRAWING



### PLUG-IN UNITS

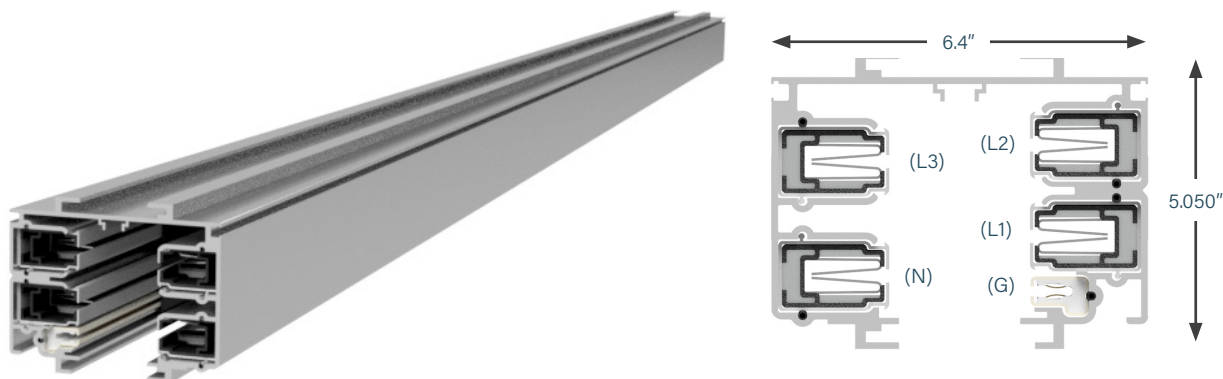
For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.

# 800 AMP SYSTEMS






## STRAIGHT SECTIONS

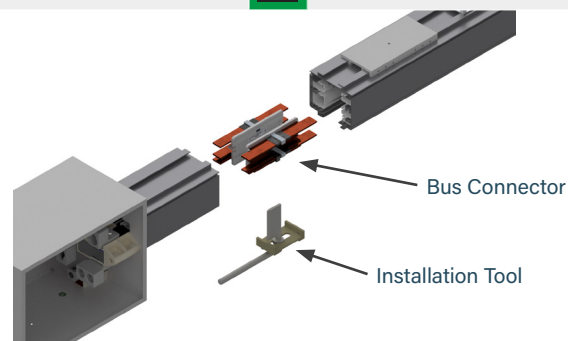
### PRODUCT DESCRIPTION

Track Busway straight section consists of an extruded aluminum shell with your choice of copper or copper-aluminum channel busbars contained in a full length insulator mounted on the interior walls. The aluminum extrusion acts as a 100% ground path. Each housing has a continuous access slot over its entire length for the insertion of plug-in units. Housing configurations include 4-pole varieties, with optional isolated ground. The housing sections join together using Bus Connectors which fit into the channels of the adjoining section. An Installation Tool is used to force the blades into the busbar channels for a solid "spring-pressure" electrical connection.



MATERIAL
Extruded Aluminum <i>Note: S5 housing includes corrosion resistant base coating</i>
RATINGS
100% Ground Path 800 Amps, 600 Volt
LENGTH
T5: 5 ft, Max 10 ft or custom lengths between 2 - 10 ft S5: 5 ft or 10 ft max. Consult factory for additional lengths
VOLTAGE DROP
Distributed load Single Phase 1V per 15 ft (.8PF) Three Phase 1V per 25 ft (.8PF)
WEIGHT
10 ft 4 pole w/ standard ground: 204 lbs - Copper 10 ft 4 pole w/ standard ground: 142 lbs - Hybrid 10 ft 4 pole w/ copper ground: 215 lbs - Copper 10 ft 4 pole w/ copper ground: 152 lbs - Hybrid

US		
L1 or Phase A		Black
L2 or Phase B		Red
L3 or Phase C		Blue
Neutral		White
Ground		Green/Black



## STRAIGHT SECTIONS: PRODUCT NUMBERS

1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/Ground Busbar	7. Polarization	8. Straight	9. Busway
U	S	800	T5	C	4	S	- 0200	C
				- STD	0			
				10. Paint Color	11. Tape Marking			

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>9. Busway Access</b> <i>(how plugs access the busway)</i> <b>C</b> Continuous
<b>2. Product Type</b> <i>(section component)</i> <b>S</b> Straight Section	<b>10. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD</b> Factory Mill Finish <b>RED</b> Paint Factory Red <b>BLK</b> Paint Factory Black <b>BLU</b> Paint Factory Blue <b>WHT</b> Paint Factory White <b>**RAL</b> <i>(please see page 4.103)</i>
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>800</b> 800 amps	<b>NOTE:</b> All Series-S housings include a clear corrosion resistant base coating, regardless of paint color selection.
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T5</b> T5 System <b>K5</b> T5 System (Limiting Strip) <b>S5</b> S5 System <b>L5</b> S5 System (Limiting Strip)	<b>11. Tape Marking</b> <i>(colored tape on both sides of busway housing)</i> <b>0</b> No Tape Marking <b>7</b> Tape Factory Blue <b>3</b> Tape Factory Black <b>8</b> Tape Factory Green <b>4</b> Tape Factory White <b>9</b> Tape Factory Yellow <b>6</b> Tape Factory Red
<b>5. Material</b> <i>(busbar material)</i> <b>C</b> Copper <b>H</b> Hybrid (Cu/Al)	
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral <b>G</b> 3 Phase plus Neutral plus Internal Ground Conductor	
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard	
<b>8. Straight Length</b> <i>(length of section)</i> <b>XXYY</b> XX=feet, YY=inches	

**US800K5CGS-0206C-P013** = US System, Straight Section, 800 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus Netural plus Internal Ground Connector, Standard Polarization, 2 foot 6 inch Straight Length, Painted RAL 1001, Factory Black Tape Marking

# 800 AMP SYSTEMS

## ELBOW SECTIONS

### ■ PRODUCT DESCRIPTION

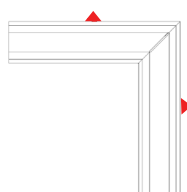
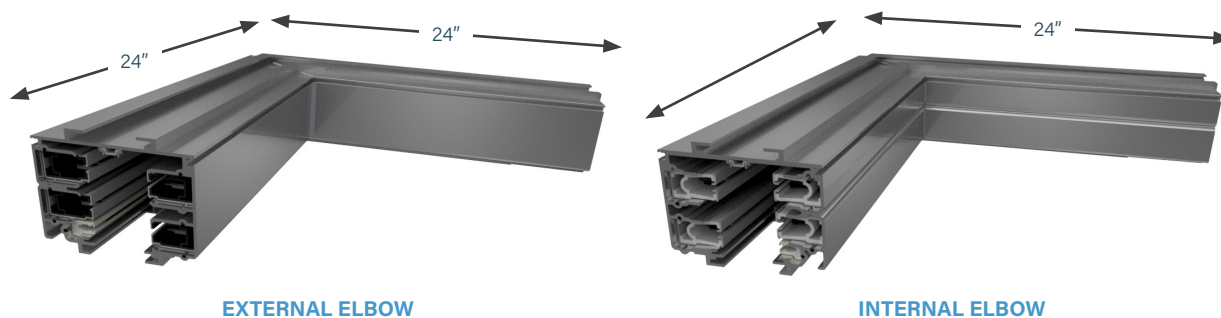
An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

#### Connection Accessories

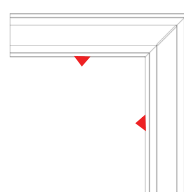
(Ordered Separately)

A Joint Kit (**page 4.108**) is used to make mechanical and electrical connections to adjacent busway sections.

**Weight** 51 lbs - Hybrid



External Elbow



Internal Elbow

▲ = Polarizing Stripe



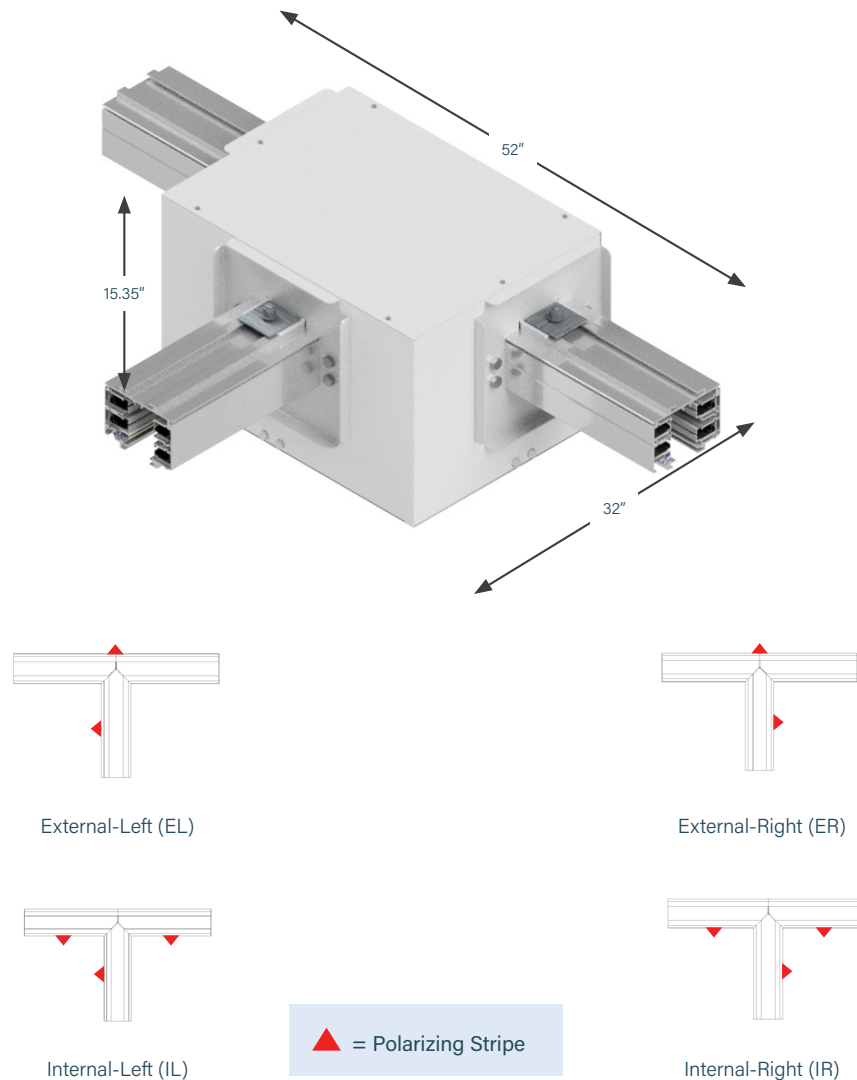
# 800 AMP SYSTEMS

## TEE SECTIONS

### ■ PRODUCT DESCRIPTION

Tee sections are used for creating a 90 degree branch leg in a busway run. When laying out a system, specify the correct busbar orientation of the tee. Indicate right or left, external or internal busbars. External tees are preferred. Tee sections are connected to adjacent busway sections using an installation tool and joint kit that includes a housing coupler and bus connector (ordered separately). This handles both the mechanical and electrical connection between a straight section and tee section of busway.

**Weight** 180 lbs







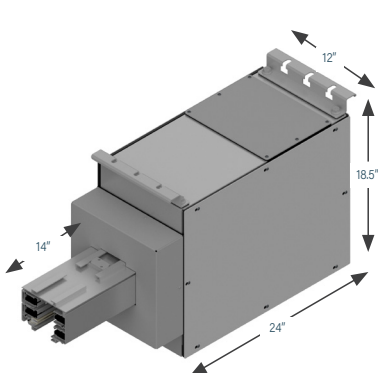
# 800 AMP SYSTEMS

## END FEED UNITS

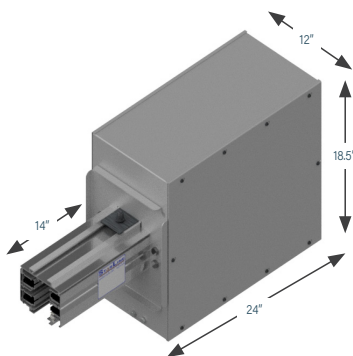
### PRODUCT DESCRIPTION

End power feed units connect to the end of the busway. A standard size, factory assembled unit consists of a steel junction Standard end power feed units connect to the end of the busway. Factory assembled unit consists of a 18.5 x 24 x 12 inch steel junction box, with removable side, connected to an 14 inch section of busway. Certain assemblies include ground lugs for wires up to 350MCM and connection lugs that can handle up to (2) 600MCM wires (CU) or (2) 600MCM wires (AL). Reverse end feed units are for connection to the opposite end of the busway section (polarizing strip faces to right as viewed from end of unit). Junction box is sized such that one or two 4 inch conduits can be installed in the end of the box. End power feed units are connected to adjacent busway sections using a housing coupler and bus connector (ordered separately). Special need power feed units for confined spaces, as found in mission critical data centers, can also be designed and fabricated but may require minimum quantities.

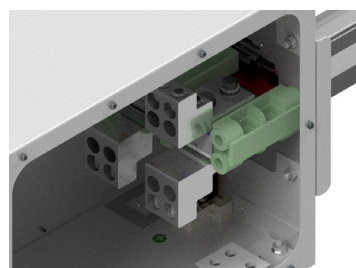
**Weight** 84.5 lbs



**800S5 END FEED**



**STANDARD BOX**



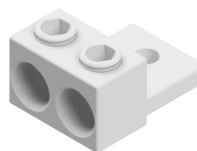
**DOUBLE LUGS**

	BOXES		
LUGS	Standard	Large	Fused
Standard	<b>S</b>		
Double	<b>D</b>		
Bolt*	<b>B</b>		
Quad*	<b>Q</b>		

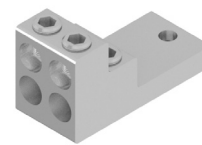
Box size and Lug options: Refer to option 8. Lug/Box Options on **page 4.79**  
 End Feed Units: Product Numbers

\*Bolt options include bolt, washer, nut. Lug not included.

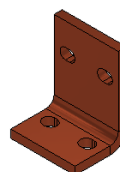
\*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on [downloads.starlinepower.com/starline/busway](https://downloads.starlinepower.com/starline/busway)



**STANDARD "S"**



**DOUBLE "D"**



**BOLT "B"**



**QUAD "Q"**

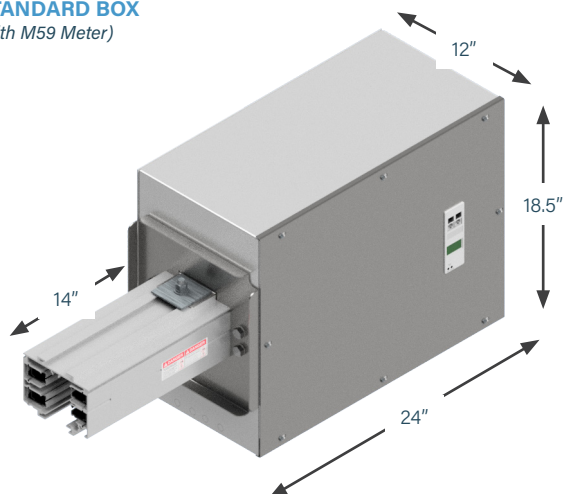
# 800 AMP SYSTEMS

## END FEED UNITS: METERING

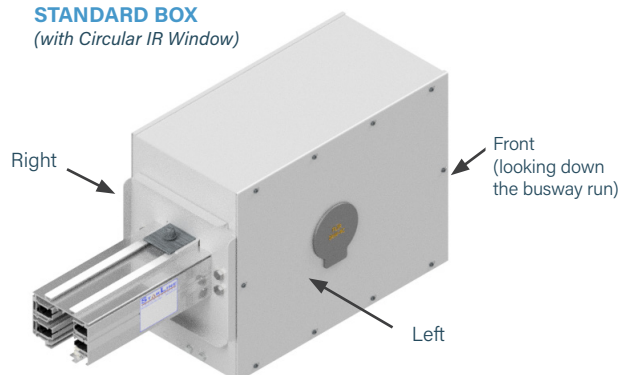
### PRODUCT DESCRIPTION

Standard end power feed units connect to the end of the busway. Factory assembled unit consists of a 18.5 x 24 x 12 inch steel junction box, with removable sides, connected to a 14 inch section of busway. Certain assemblies include ground lugs for wires up to 350MCM and connection lugs that can handle up to (2) 600MCM wires (CU) or (2) 600MCM wires (AL). Reverse end feed units are for connection to the opposite end of the busway section (polarizing strip faces to right as viewed from end of unit). Integral CPM installed in the end feed provides power monitoring and alarm capabilities. The M50 models are for AC busway, while the M60 models are for DC busway. Nuisance tripping may be avoided using the current information to protect against overloading phases. The monitors also assist in the continuous challenge to balance the three phase loads. Once the meter is integrated, an automated email will be sent at 80% of full load as a warning to the user. This level may be changed in the field using the integrated webpage.

**STANDARD BOX**  
(with M59 Meter)



**STANDARD BOX**  
(with Circular IR Window)



\*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on **page 4.79** End Feed Units: Product Numbers)

### AC END FEED METER OPTIONS

- M51** Single Eth./WiFi,  $\leq 480V Y, \leq 277V \Delta$
- M53** Single Eth./No WiFi,  $\leq 480V Y, \leq 277V \Delta$
- M58** Dual Eth.,  $\leq 480V Y, \leq 277V \Delta$
- M59** Dual Eth./Dual Modbus,  $\leq 480V Y, \leq 277V \Delta$

### DC END FEED METER OPTIONS

- M61** Single Eth./WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M63** Single Eth./No WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M67** Dual Eth., single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M69** Dual Eth./Dual Modbus, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

BOX/LUGS OPTION	1 Meter or Accessory	1 Meter & 1 Accessory (opposite lids)	1 Meter & 1 Accessory (same lid)
(S) Standard Box, Standard Lugs	X	X	X
(D) Standard Box, Double Lugs	X	X	X
(Q) Large Box, Quad Lugs	X	X	X
(B) Standard Box, 2 Bolt Lugs	X	X	X

Series-S Note: End Feed metering not currently offered for Series-S systems. For custom inquiries, please contact your Starline representative.

# 800 AMP SYSTEMS

## END FEED UNITS: ACCESSORIES

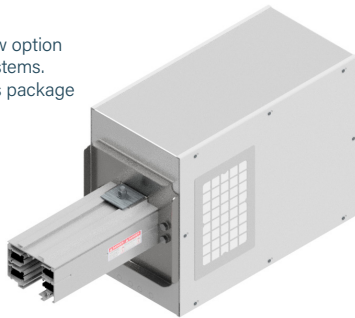
### ■ IR WINDOWS

Starline Track Busway Polymer IR Window systems use a proprietary stack-up of advanced materials to ensure highest levels of safety and optimal infrared thermography of critical connections.

When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

Safely and accurately scan connection points while the system is under load, without exposing the operator to live connections.

Note: Rectangular IR window option not available for Series-S systems. See S5 end feed accessories package for more information.

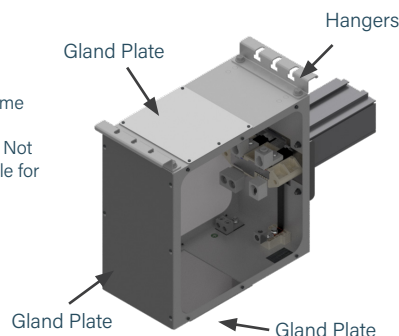


### ■ END FEED HANGERS & GLAND PLATES

End feed hangers & aluminum cable gland plates, located on the top, bottom and back of the end feed, can now be added as an optional accessory to Starline end feeds. These features make installation fast and easy and can be paired with other Starline end feed accessories.

#### SERIES-S END FEED INFORMATION

All Series-S End Feeds come standard with preinstalled hangers and gland plates. Not all accessories are available for Series-S End Feeds.



### FEATURES & BENEFITS

- Allows for safe IR scanning without powering down busway
- Complete system coverage with IR windows for plug-in units and end feeds
- End feed IR windows designed in 2 sizes for optimized viewing angles
- Cost effective design allows for quick end user ROI
- ETL Listed, CE Marked
- Lower TCO
- Enhanced safety
- Effective preventative maintenance

### GENERAL SPECIFICATIONS

Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Aluminum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T5); IP54 (S5)
Max Operating Temperature	125°C

### WINDOW DIMENSIONS

End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 500A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17, M50 Options on **page 4.80** End Feed Units: Product Numbers)

(Refer to option 10, Accessories Package on **page 4.79** End Feed Units: Product Numbers)

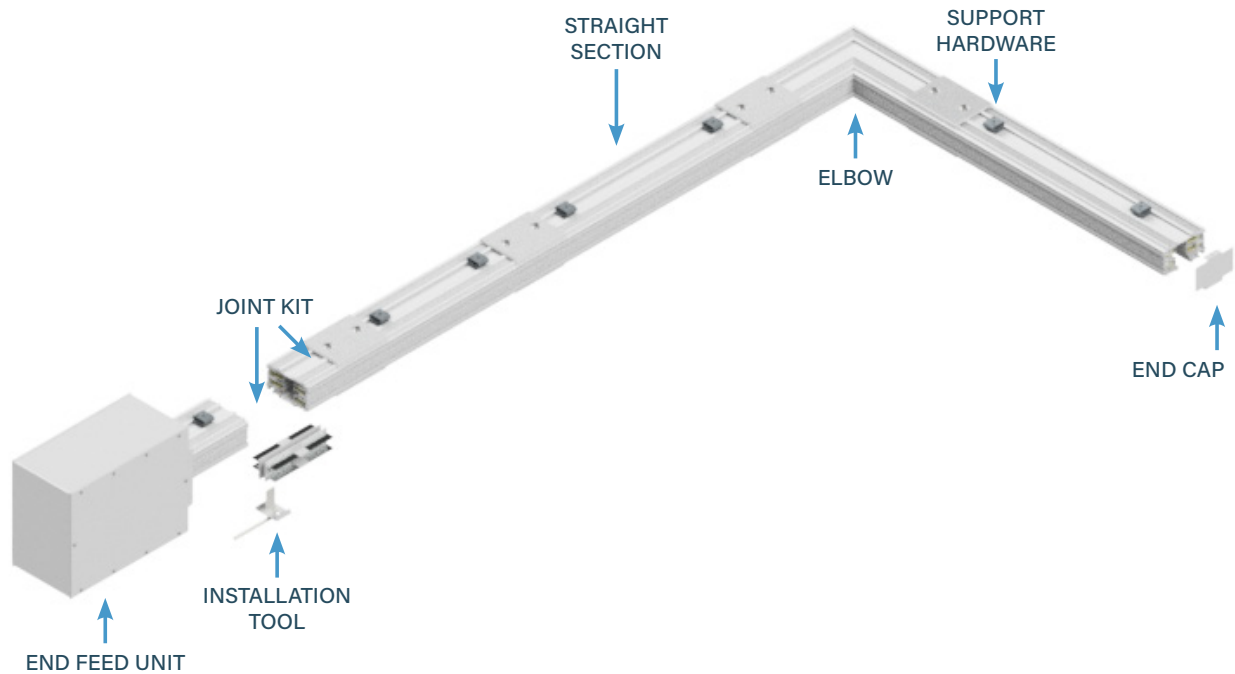


## END FEED METERING: PRODUCT NUMBERS

4.80

# 1000T5/S5 SYSTEMS

## T5 SYSTEM LAYOUT DRAWING

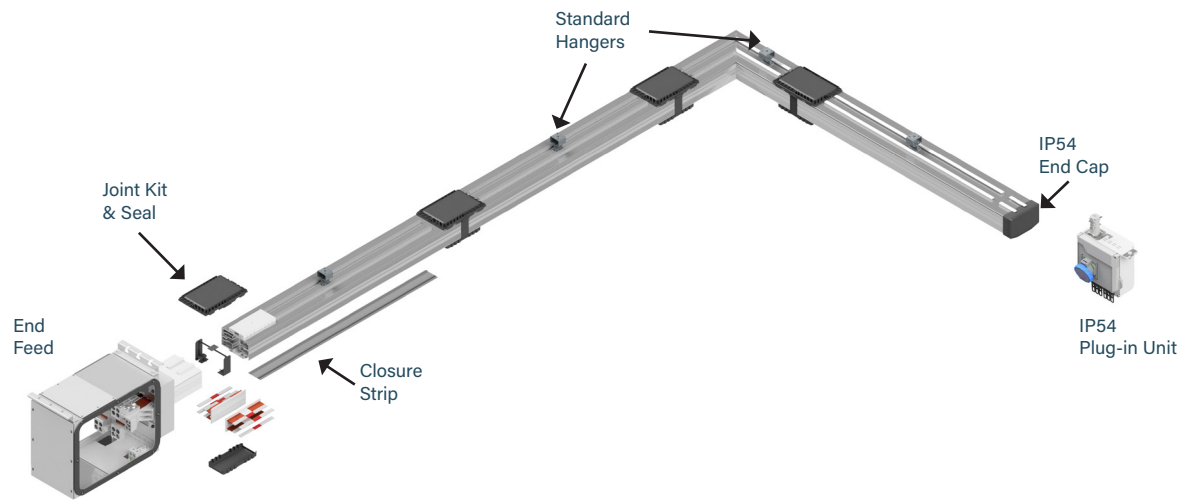


### PLUG-IN UNITS

For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.

# 1000 AMP SYSTEMS

## S5 SYSTEM LAYOUT DRAWING



### PLUG-IN UNITS

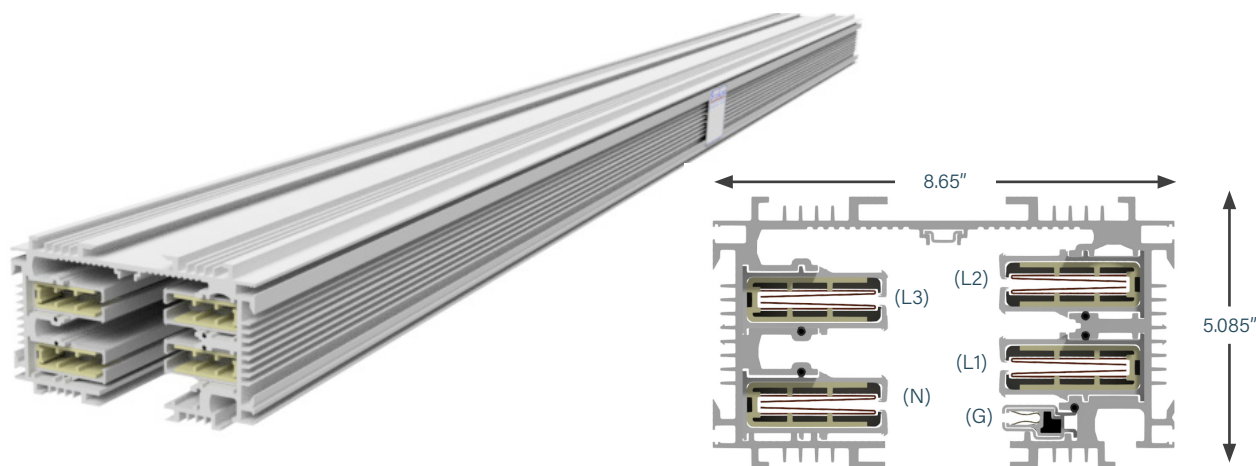
For further information on applicable S5 plug-in unit options, please visit the **Plug-In Units** section.

# 1000 AMP SYSTEMS






## STRAIGHT SECTIONS

### PRODUCT DESCRIPTION

Track Busway straight section consists of an extruded aluminum shell with copper-aluminum channel busbars contained in a full length insulator mounted on the interior walls. The aluminum extrusion acts as a 100% ground path. Each housing has a continuous access slot over its entire length for the insertion of plug-in units. Housing configurations include 4-pole varieties, with optional isolated ground. The housing sections join together using Bus Connectors which fit into the channels of the adjoining section. An Installation Tool is used to force the blades into the busbar channels for a solid "spring-pressure" electrical connection.



MATERIAL
Extruded Aluminum <i>Note: S5 housing includes corrosion resistant base coating</i>
RATINGS
100% Ground Path 1000 Amps 600 Volt
LENGTH
T5: 5 ft, 10 ft max. Custom lengths between 2 - 10 ft S5: 5 ft, 10 ft max. Consult factory for additional lengths
VOLTAGE DROP
Distributed load Single Phase 1V per 15 ft (.8PF) Three Phase 1V per 25 ft (.8PF)
WEIGHT
10 ft 4 pole w/ standard ground: 195.5 lbs - Hybrid 10 ft 4 pole w/ copper ground: 210 lbs - Hybrid

US		
L1 or Phase A		Black
L2 or Phase B		Red
L3 or Phase C		Blue
Neutral		White
Ground		Green/Black



## STRAIGHT SECTIONS: PRODUCT NUMBERS

1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	8. Straight	9. Busway
				10. Paint Color	11. Tape Marking			

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>9. Busway Access</b> <i>(how plugs access the busway)</i> <b>C</b> Continuous
<b>2. Product Type</b> <i>(section component)</i> <b>S</b> Straight Section	<b>10. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD</b> Factory Mill Finish <b>RED</b> Paint Factory Red <b>BLK</b> Paint Factory Black <b>BLU</b> Paint Factory Blue <b>WHT</b> Paint Factory White <b>**RAL</b> (please see page 4.103)
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>1K0</b> 1000 amps	<b>NOTE:</b> All Series-S housings include a clear corrosion resistant base coating, regardless of paint color selection.
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T5</b> T5 System <b>K5</b> T5 System (Limiting Strip) <b>S5</b> S5 System <b>L5</b> S5 System (Limiting Strip)	<b>11. Tape Marking</b> <i>(colored tape on both sides of busway housing)</i> <b>0</b> None
<b>5. Material</b> <i>(busbar material)</i> <b>H</b> Hybrid (Cu/Al)	
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral <b>G</b> 3 Phase plus Neutral plus Internal Ground Conductor	
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard	
<b>8. Straight Length</b> <i>(length of section)</i> <b>XXYY</b> XX=feet, YY=inches	

**US1K0K5HGS-1000R-C010** = US System, Straight Section, 1000 amps, T5 System-K5 Limiting Strip, Hybrid, 3 Phase plus Neutral plus Internal Ground Connector, Standard Polarization, 10 foot Straight Length, Painted RAL 1001, No Tape Marking

# 1000 AMP SYSTEMS

## ELBOW SECTIONS

### ■ PRODUCT DESCRIPTION

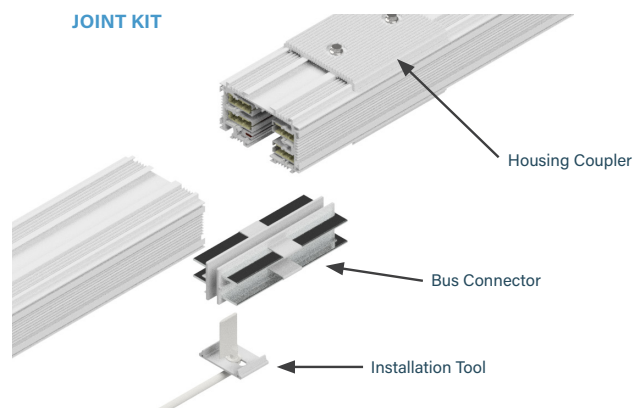
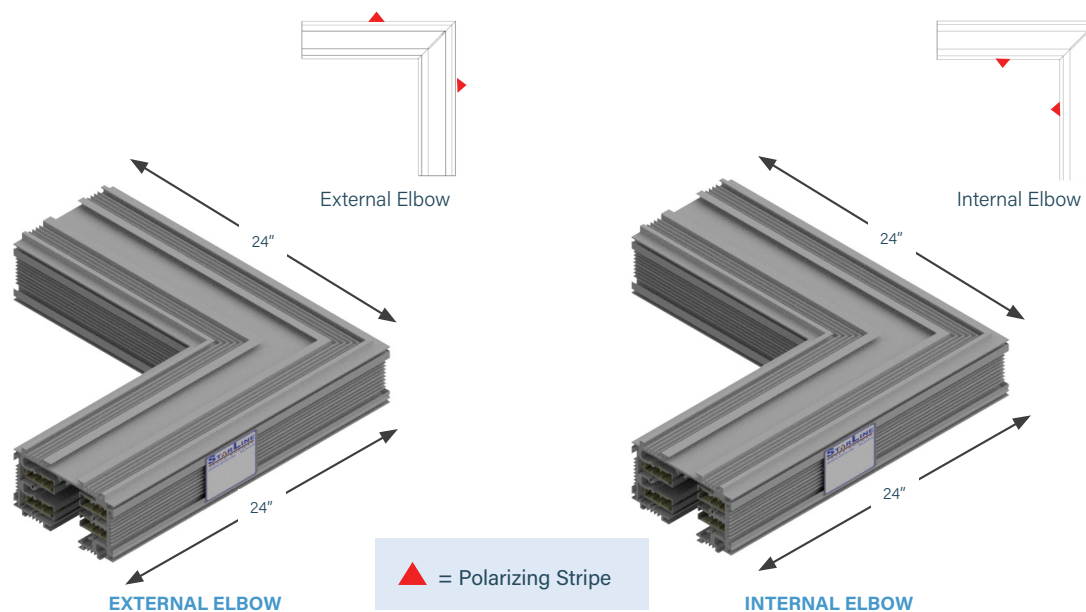
An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

### Connection Accessories

(Ordered Separately)

A Joint Kit ([page 4.108](#)) is used to make mechanical and electrical connections to adjacent busway sections.

**Weight** 77 lbs



# 1000 AMP SYSTEMS

## ELBOW SECTIONS: PRODUCT NUMBERS

<b>U</b>	<b>E</b>	<b>1K0</b>	<b>T5</b>	<b>H</b>	<b>4</b>	<b>S</b>	<b>-</b>	<b>IN</b>
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction
							<b>-</b>	
							<b>STD</b>	
								<b>0</b>
				9. Paint Color				10. Tape Marking

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>8. Turning Direction</b> <i>(direction of section polarizing stripe)</i> <b>IN</b> Internal <b>EX</b> External
<b>2. Product Type</b> <i>(section component)</i> <b>E</b> Elbow Section	<b>9. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD</b> Factory Mill Finish <b>RED</b> Paint Factory Red <b>BLK</b> Paint Factory Black <b>BLU</b> Paint Factory Blue <b>WHT</b> Paint Factory White <b>**RAL</b> <i>(please see page 4.103)</i>
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>1K0</b> 1000 amps	<b>NOTE:</b> All Series-S housings include a clear corrosion resistant base coating, regardless of paint color selection.
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T5</b> T5 System <b>K5</b> T5 System (Limiting Strip) <b>S5</b> S5 System <b>L5</b> S5 System (Limiting Strip)	<b>10. Tape Marking</b> <i>(colored tape on both sides of busway housing)</i> <b>0</b> None
<b>5. Material</b> <i>(busbar material)</i> <b>H</b> Hybrid (Cu/Al)	
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral <b>G</b> 3 Phase plus Neutral plus Internal Ground Conductor	
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard	

### EXAMPLES

**UE1K0K5H4S-IN-BLU0** = US System, Elbow Section, 1000 amps, T5 System-K5 Limiting Strip, Hybrid, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Painted Factory Blue, No Tape Marking

**UE1K0T5HGS-EX-STD0** = US System, Elbow Section, 1000 amps, T5 System, Hybrid, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External Turning Direction, Factory Mill Finish, No Tape Marking

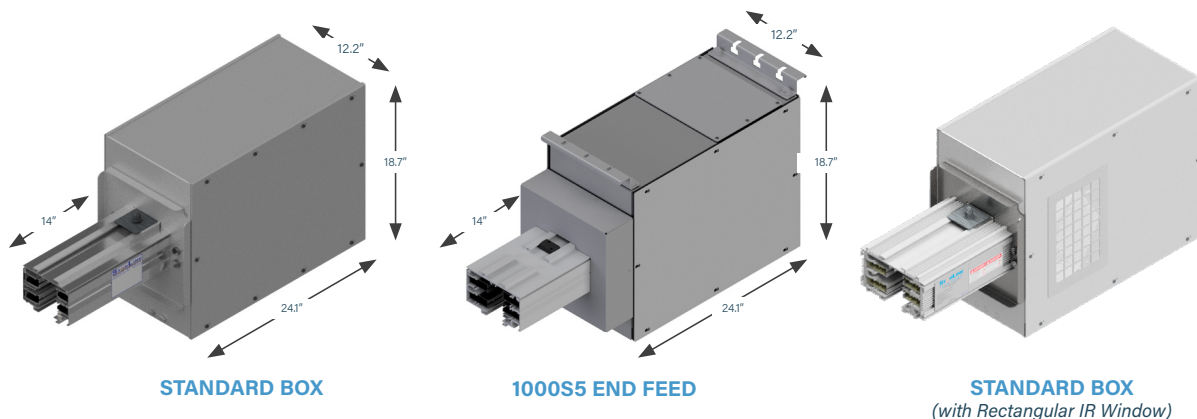
# 1000 AMP SYSTEMS

## END FEED UNITS

### ■ PRODUCT DESCRIPTION

Standard end power feed units connect to the end of the busway. Factory assembled unit consists of a 18.7 x 24.125 x 12.15 inch steel junction box that is removable for easier installation, also with removable side, connected to an 14 inch section of busway. Certain assemblies include ground lugs for wires up to 350MCM and mechanical lugs that can accommodate up to (4) 600MCM cables per phase. Compression lug capable feeds are available upon request. Reverse end feed units are for connection to the opposite end of the busway section (polarizing strip faces to right as viewed from end of unit). Junction box is sized such that three 4 inch conduits can be installed in the end of the box. End power feed units are connected to adjacent busway sections using a housing coupler and bus connector (ordered separately). Special need power feed units for confined spaces, as found in mission critical data centers, can also be designed and fabricated but may require minimum quantities.

**Weight** 100.5 lbs (76 lbs without busway stub)

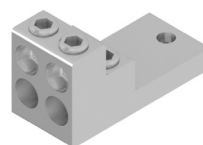


	BOXES		
LUGS	Standard	Large	Fused
Standard	<b>S</b>		
Double			
Bolt*	<b>B</b>		

Box size and Lug options: Refer to option 8. Lug/Box Options on **page 4.90**  
 End Feed Units: Product Numbers

\*Bolt options include bolt, washer, nut. Lug not included.

\*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on [downloads.starlinepower.com/starline/busway](https://downloads.starlinepower.com/starline/busway)



**STANDARD "S"**



**STANDARD "B"**

# 1000 AMP SYSTEMS

## END FEED UNITS: METERING

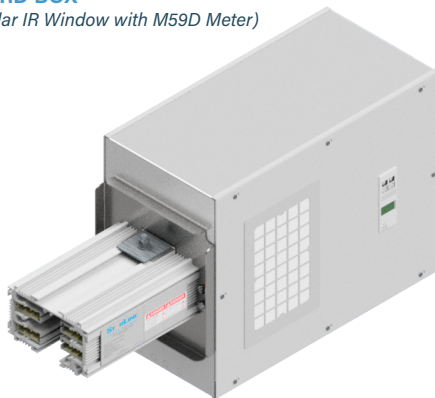
### PRODUCT DESCRIPTION

Factory assembled unit consists of a 18.7 x 24.125 x 12.15 inch steel junction box that is removable for easier installation, also with removable side, connected to an 14 inch section of busway. Certain assemblies include ground lugs for wires up to 350MCM and mechanical lugs that can accommodate up to (4) 600MCM cables per phase. Compression lug capable feeds are available upon request. Reverse end feed units are for connection to the opposite end of the busway section (polarizing strip faces to right as viewed from end of unit).

Integral CPM installed in the end feed provides power monitoring and alarm capabilities. The M50 models are for AC busway, while the M60 models are for DC busway. Nuisance tripping may be avoided using the current information to protect against overloading phases. The monitors also assist in the continuous challenge to balance the three phase loads. Once the meter is integrated, an automated email will be sent at 80% of full load as a warning to the user. This level may be changed in the field using the integrated webpage.

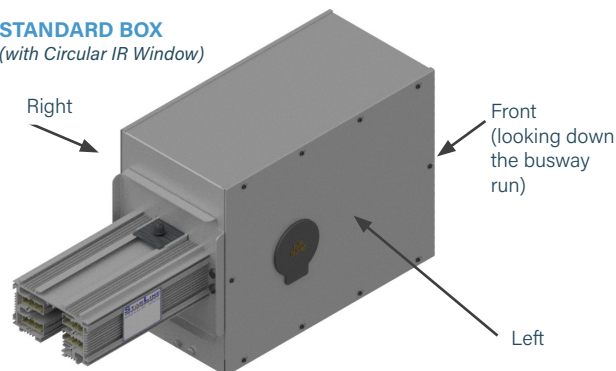
#### STANDARD BOX

(Rectangular IR Window with M59D Meter)



#### STANDARD BOX

(with Circular IR Window)



\*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on **page 4.90** End Feed Units: Product Numbers)

#### AC END FEED METER OPTIONS

- M51** Single Eth./WiFi,  $\leq 480V$  Y,  $\leq 277V$   $\Delta$
- M53** Single Eth./No WiFi,  $\leq 480V$  Y,  $\leq 277V$   $\Delta$
- M58** Dual Eth.,  $\leq 480V$  Y,  $\leq 277V$   $\Delta$
- M59** Dual Eth./Dual Modbus,  $\leq 480V$  Y,  $\leq 277V$   $\Delta$

#### DC END FEED METER OPTIONS

- M61** Single Eth./WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M63** Single Eth./No WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M67** Dual Eth., single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M69** Dual Eth./Dual Modbus, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

BOX/LUGS OPTION	1 Meter or Accessory	1 Meter & 1 Accessory (opposite lids)	1 Meter & 1 Accessory (same lid)
(S) Standard Box, Standard Lugs	X	X	X
(B) Standard Box, Bolt Lugs	X	X	X

Series-S Note: End Feed metering not currently offered for Series-S systems. For custom inquiries, please contact your Starline representative.

# 1000 AMP SYSTEMS

## END FEED UNITS: ACCESSORIES

### ■ IR WINDOWS

Starline Track Busway Polymer IR Window systems use a proprietary stack-up of advanced materials to ensure highest levels of safety and optimal infrared thermography of critical connections.

When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

Safely and accurately scan connection points while the system is under load, without exposing the operator to live connections.

Note: Rectangular IR window option not available for Series-S systems. See S5 end feed accessories package for more information.

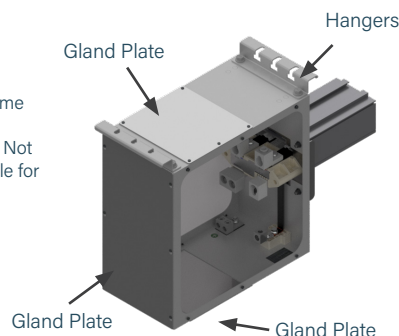


### ■ END FEED HANGERS & GLAND PLATES

End feed hangers & aluminum cable gland plates, located on the top, bottom and back of the end feed, can now be added as an optional accessory to Starline end feeds. These features make installation fast and easy and can be paired with other Starline end feed accessories.

#### SERIES-S END FEED INFORMATION

All Series-S End Feeds come standard with preinstalled hangers and gland plates. Not all accessories are available for Series-S End Feeds.



### FEATURES & BENEFITS

- Allows for safe IR scanning without powering down busway
- Complete system coverage with IR windows for plug-in units and end feeds
- End feed IR windows designed in 2 sizes for optimized viewing angles
- Cost effective design allows for quick end user ROI
- ETL Listed, CE Marked
- Lower TCO
- Enhanced safety
- Effective preventative maintenance

### GENERAL SPECIFICATIONS

Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Aluminum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T5); IP54 (S5)
Max Operating Temperature	125°C

### WINDOW DIMENSIONS

End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 500A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17. Meter Options on [page 4.91](#) End Feed Units: Product Numbers)

(Refer to option 10. Accessories Package on [page 4.90](#) End Feed Units: Product Numbers)

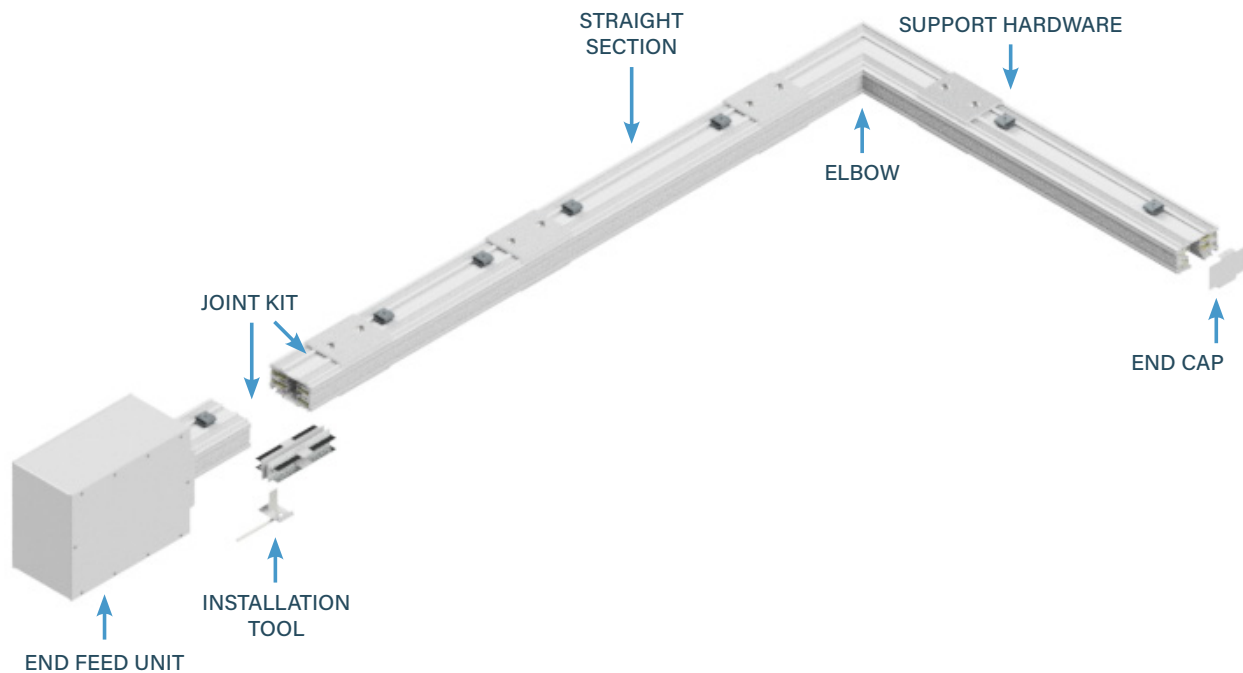






# 1200 AMP SYSTEMS

## T5 SYSTEM LAYOUT DRAWING

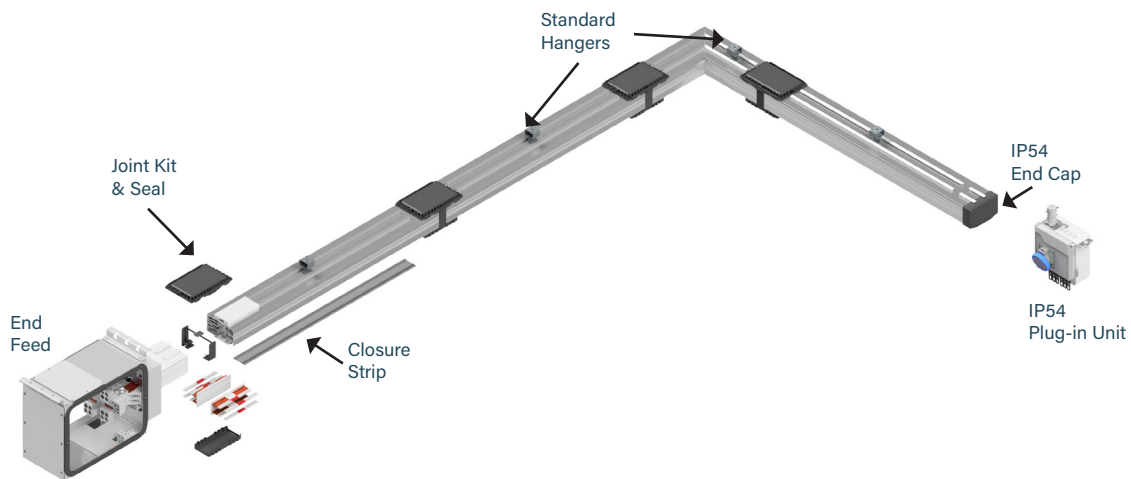


### PLUG-IN UNITS

For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.

# 1200 AMP SYSTEMS

## S5 SYSTEM LAYOUT DRAWING



### PLUG-IN UNITS

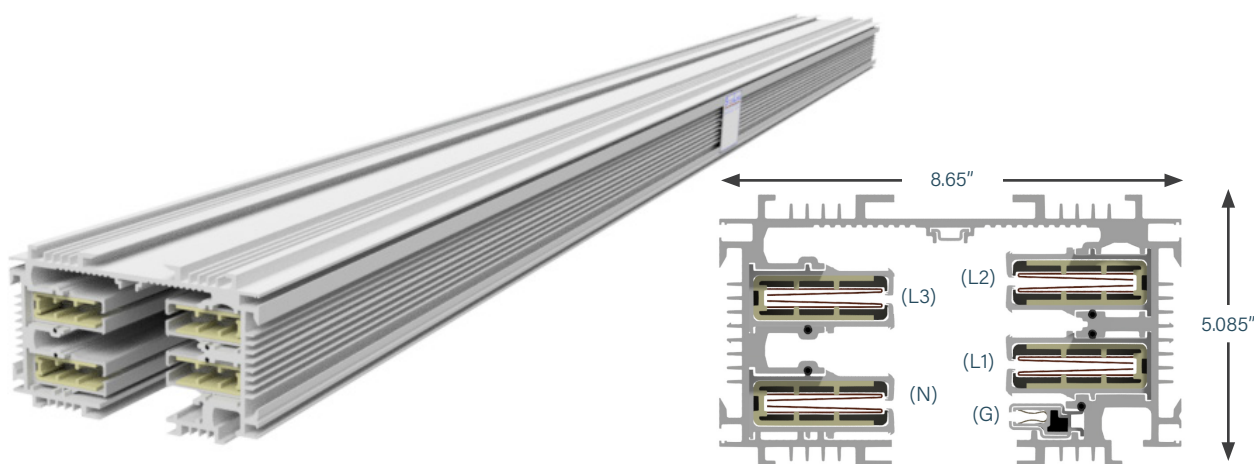
For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.

# 1200 AMP SYSTEMS

## STRAIGHT SECTIONS

### PRODUCT DESCRIPTION

Track Busway straight section consists of an extruded aluminum shell with copper-aluminum channel busbars contained in a full length insulator mounted on the interior walls. The aluminum extrusion acts as a 100% ground path. Each housing has a continuous access slot over its entire length for the insertion of plug-in units. Housing configurations include 4-pole varieties, with optional isolated ground. The housing sections join together using Bus Connectors which fit into the channels of the adjoining section. An Installation Tool is used to force the blades into the busbar channels for a solid "spring-pressure" electrical connection.



#### MATERIAL

Powder Coated Extruded Aluminum

*Note: S5 housing includes corrosion resistant base coating*

#### RATINGS

100% Ground Path

1200 Amps

600 Volt

#### LENGTH

T5: 5 ft, 10 ft max. Custom lengths between 2 - 10 ft

S5: 5 ft, 10 ft max. Consult factory for additional lengths

#### VOLTAGE DROP

Distributed load

Single Phase 1V per 15ft (.8PF)






Three Phase 1V per 25ft (.8PF)

#### WEIGHT

10 ft 4 pole w/ standard ground: 195.5 lbs - Hybrid

10 ft 4 pole w/ copper ground: 210 lbs - Hybrid

#### US

L1 or Phase A		Black
L2 or Phase B		Red
L3 or Phase C		Blue
Neutral		White
Ground		Green/Black



# 1200 AMP SYSTEMS

## ELBOW SECTIONS

### ■ PRODUCT DESCRIPTION

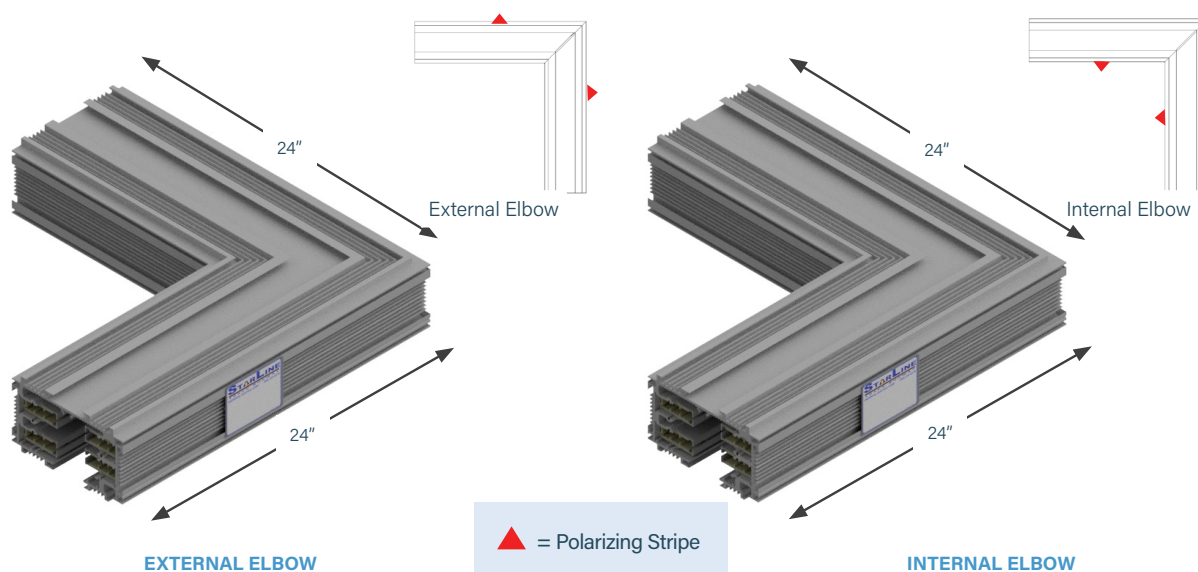
An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

### Connection Accessories

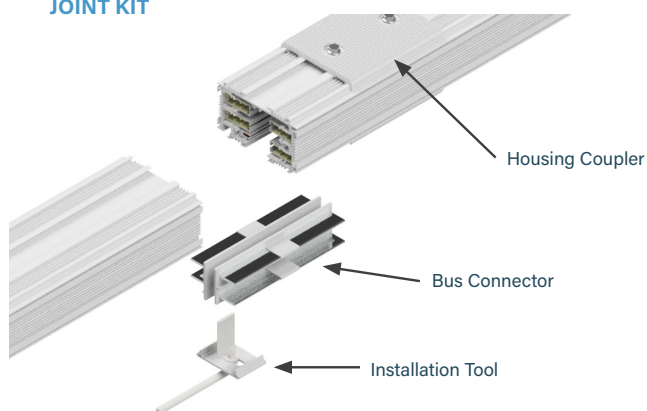
(Ordered Separately)

A Joint Kit ([page 4.108](#)) is used to make mechanical and electrical connections to adjacent busway sections.

**Weight** 77 lbs



### JOINT KIT



# 1200 AMP SYSTEMS

## ELBOW SECTIONS: PRODUCT NUMBERS

<b>U</b>	<b>E</b>	<b>1K2</b>	<b>T5</b>	<b>H</b>	<b>4</b>	<b>S</b>	<b>-</b>	<b>IN</b>
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction
							<b>-</b>	
							<b>STD</b>	
								<b>0</b>
							9. Paint Color	10. Tape Marking

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>8. Turning Direction</b> <i>(direction of section polarizing stripe)</i> <b>IN</b> Internal <b>EX</b> External
<b>2. Product Type</b> <i>(section component)</i> <b>E</b> Elbow Section	<b>9. Paint Color</b> <i>(allows painting of the busway housing)</i> <b>STD</b> Factory Mill Finish <b>RED</b> Paint Factory Red <b>BLK</b> Paint Factory Black <b>BLU</b> Paint Factory Blue <b>WHT</b> Paint Factory White <b>**RAL</b> <i>(please see page 4.103)</i> <b>NOTE:</b> All Series-S housings include a clear corrosion resistant base coating, regardless of paint color selection.
<b>3. Product Frame</b> <i>(maximum amperage)</i> <b>1K2</b> 1200 amps	<b>10. Tape Marking</b> <i>(colored tape on both sides of busway housing)</i> <b>0</b> None
<b>4. Compatibility</b> <i>(frame compatibility)</i> <b>T5</b> T5 System <b>K5</b> T5 System (Limiting Strip) <b>S5</b> S5 System <b>L5</b> S5 System (Limiting Strip)	
<b>5. Material</b> <i>(busbar material)</i> <b>H</b> Hybrid (Cu/Al)	
<b>6. Neutral/Ground Busbar</b> <i>(size of neutral busbar and/or ground)</i> <b>4</b> 3 Phase plus Neutral <b>G</b> 3 Phase plus Neutral plus Internal Ground Conductor	
<b>7. Polarization</b> <i>(orientation of section for mating purposes)</i> <b>S</b> Standard	

### EXAMPLES

**UE1K2K5H4S-IN-BLU0** = US System, Elbow Section, 1200 amps, T5 System-K5 Limiting Strip, Hybrid, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Painted Factory Blue, No Tape Marking

**UE1K2T5HGS-EX-STD0** = US System, Elbow Section, 1200 amps, T5 System, Hybrid, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External Turning Direction, Painted Factory Silver, No Tape Marking

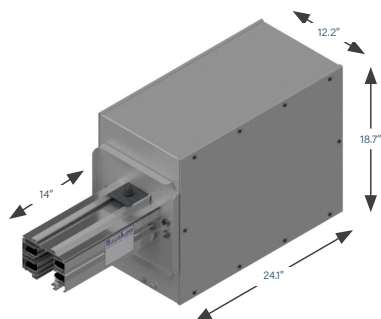
# 1200 AMP SYSTEMS

## END FEED UNITS

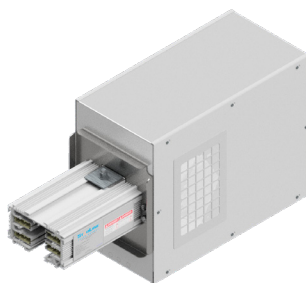
### ■ PRODUCT DESCRIPTION

Standard end power feed units connect to the end of the busway. Factory assembled unit consists of a 18.7 x 24.125 x 12.15 inch steel junction box that is removable for easier installation, also with removable side, connected to an 14 inch section of busway. Certain assemblies include ground lugs for wires up to 350MCM and mechanical lugs that can accommodate up to (4) 600MCM cables per phase. Compression lug capable feeds are available upon request. Reverse end feed units are for connection to the opposite end of the busway section (polarizing strip faces to right as viewed from end of unit). Junction box is sized such that three 4 inch conduits can be installed in the end of the box. End power feed units are connected to adjacent busway sections using a housing coupler and bus connector (ordered separately). Special need power feed units for confined spaces, as found in mission critical data centers, can also be designed and fabricated but may require minimum quantities.

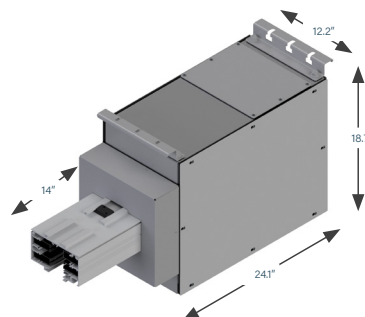
**Weight** 100.5 lbs (76 lbs without busway stub)



**STANDARD BOX**



**STANDARD BOX**  
(with Rectangular IR Window)



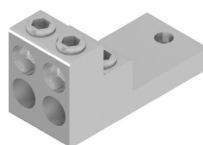
**1200S5 END FEED**

	BOXES		
LUGS	Standard	Large	Fused
Standard	<b>S</b>		
Double			
Bolt	<b>B</b>		

Box size and Lug options: Refer to option 8. Lug/Box Options on **page 4.101**  
 End Feed Units: Product Numbers

\*Bolt options include bolt, washer, nut. Lug not included.

\*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on [downloads.starlinepower.com/starline/busway](https://downloads.starlinepower.com/starline/busway)



**STANDARD "S"**



**STANDARD "B"**

# 1200 AMP SYSTEMS

## END FEED UNITS: METERING

### PRODUCT DESCRIPTION

Factory assembled unit consists of a 18.7 x 24.125 x 12.15 inch steel junction box that is removable for easier installation, also with removable side, connected to an 14 inch section of busway. Certain assemblies include ground lugs for wires up to 350MCM and mechanical lugs that can accommodate up to (4) 600MCM cables per phase. Compression lug capable feeds are available upon request. Reverse end feed units are for connection to the opposite end of the busway section (polarizing strip faces to right as viewed from end of unit).

Integral CPM installed in the end feed provides power monitoring and alarm capabilities. The M50 models are for AC busway, while the M60 models are for DC busway. Nuisance tripping may be avoided using the current information to protect against overloading phases. The monitors also assist in the continuous challenge to balance the three phase loads. Once the meter is integrated, an automated email will be sent at 80% of full load as a warning to the user. This level may be changed in the field using the integrated webpage.

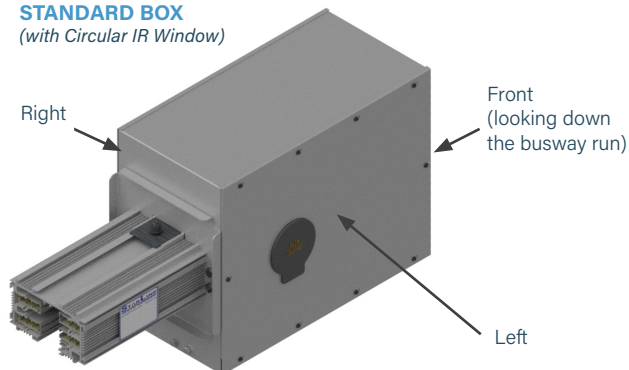
#### STANDARD BOX

(Rectangular IR Window with M59D Meter)



#### STANDARD BOX

(with Circular IR Window)



\*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on **page 4.101** End Feed Units: Product Numbers)

#### AC END FEED METER OPTIONS

- M51** Single Eth./WiFi,  $\leq 480V Y, \leq 277V \Delta$
- M53** Single Eth./No WiFi,  $\leq 480V Y, \leq 277V \Delta$
- M58** Dual Eth.,  $\leq 480V Y, \leq 277V \Delta$
- M59** Dual Eth./Dual Modbus,  $\leq 480V Y, \leq 277V \Delta$

#### DC END FEED METER OPTIONS

- M61** Single Eth./WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M63** Single Eth./No WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M67** Dual Eth., single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M69** Dual Eth./Dual Modbus, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

BOX/LUGS OPTION	1 Meter or Accessory	1 Meter & 1 Accessory (opposite lids)	1 Meter & 1 Accessory (same lid)
(S) Standard Box, Standard Lugs	X	X	X
(B) Standard Box, Bolt Lugs	X	X	X

Series-S Note: End Feed metering not currently offered for Series-S systems. For custom inquiries, please contact your Starline representative."



# 1200 AMP SYSTEMS

## END FEED UNITS: ACCESSORIES

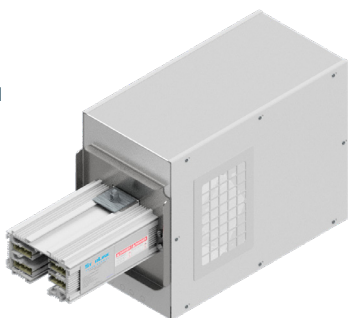
### ■ IR WINDOWS

Starline Track Busway Polymer IR Window systems use a proprietary stack-up of advanced materials to ensure highest levels of safety and optimal infrared thermography of critical connections.

When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

Safely and accurately scan connection points while the system is under load, without exposing the operator to live connections.

Note: Rectangular IR window option not available for Series-S systems. See S5 end feed accessories package for more information.

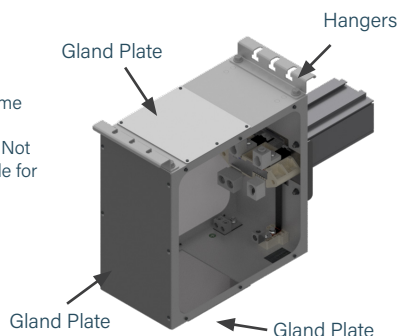


### ■ END FEED HANGERS & GLAND PLATES

End feed hangers & aluminum cable gland plates, located on the top, bottom and back of the end feed, can now be added as an optional accessory to Starline end feeds. These features make installation fast and easy and can be paired with other Starline end feed accessories.

#### SERIES-S END FEED INFORMATION

All Series-S End Feeds come standard with preinstalled hangers and gland plates. Not all accessories are available for Series-S End Feeds.



### FEATURES & BENEFITS

- Allows for safe IR scanning without powering down busway
- Complete system coverage with IR windows for plug-in units and end feeds
- End feed IR windows designed in 2 sizes for optimized viewing angles
- Cost effective design allows for quick end user ROI
- ETL Listed, CE Marked
- Lower TCO
- Enhanced safety
- Effective preventative maintenance

### GENERAL SPECIFICATIONS

Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Aluminum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T5); IP54 (S5)
Max Operating Temperature	125°C

### WINDOW DIMENSIONS

End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 500A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17. M50 Options on **page 4.102** End Feed Units: Product Numbers)

(Refer to option 10. Accessories Package on **page 4.101** End Feed Units: Product Numbers)



## END FEED METERING: PRODUCT NUMBERS

**M51D**  
Single Ethernet  
w/ Wi-Fi

( 4.102

# T5 SERIES

## RAL COLORS

1ST CHARACTER	
<b>P</b>	Paint

2ND CHARACTER	
<b>0</b>	100
<b>1</b>	101
<b>2</b>	102
<b>3</b>	103
<b>4</b>	200
<b>5</b>	201
<b>A</b>	300
<b>B</b>	301
<b>C</b>	302
<b>D</b>	303
<b>E</b>	400
<b>F</b>	401
<b>G</b>	500
<b>H</b>	501
<b>J</b>	502
<b>K</b>	600
<b>L</b>	601
<b>M</b>	602
<b>N</b>	603
<b>P</b>	700
<b>Q</b>	701
<b>R</b>	702
<b>S</b>	703
<b>T</b>	704
<b>U</b>	800
<b>V</b>	801
<b>W</b>	802
<b>X</b>	900
<b>Y</b>	901
<b>Z</b>	902

3RD CHARACTER	
<b>0</b>	0
<b>1</b>	1
<b>2</b>	2
<b>3</b>	3
<b>4</b>	4
<b>5</b>	5
<b>6</b>	6
<b>7</b>	7
<b>8</b>	8
<b>9</b>	9

4TH CHARACTER	
<b>0</b>	0

### EXAMPLE:

P B 2 0 = Paint RAL 3012

# T5 AND S5 SERIES BUSWAY

## ACCESSORIES: SUPPORT HARDWARE

### ■ THREADED ROD

For mounting to 1/2 - 13 UNC threaded rod (UBRHT5-1) or to 3/8 - 16 UNC (UBRHT5-2). Twist-in design. Can be inserted anywhere along the top full-access slot of busway. Maximum hanger support spacing is every 10 feet.

Part Number (250, 400, 600,  
& 800 amp systems only):

UBRHT5-1

UBRHT5-2

Available in plain zinc  
or black (-BLK)

Weight  
.3 lb



### ■ SEISMIC THREADED ROD

For mounting to 1/2 - 13 UNC threaded rod. Can be inserted anywhere along the top full-access slot of busway. Hangers are required every 10 feet maximum for seismic support.

Part Number (250, 400 & 600  
amp systems only):

US: UBRHT5-3

Available in plain zinc  
or black (-BLK)

Weight  
.3 lb



### ■ STANDARD

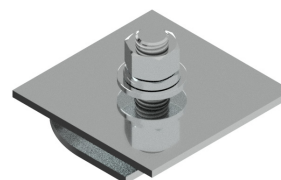
For mounting to strut or other flat surfaces. Twist-in design allows inserting anywhere along the top fullaccess slot on the busway. Hanger support is required every 10 feet maximum.

Part Number (250, 400, 600 &  
800 amp systems only):

UBHT5-1

Available in plain zinc  
or black (-BLK)

Weight  
.2 lb



### ■ STANDARD ONE-PIECE, SLOTTED

For mounting to 1/2 - 13 UNC threaded rod. Can be inserted anywhere along the top full-access slot of busway. Hangers are required every 10 feet maximum.

Part Number (Required for  
1000 and 1200A, available for  
all T5 systems.)

UBSHT5-4

Available in plain zinc  
or black (-BLK)

Weight  
.09 kg



### ■ WALL MOUNT BRACKET

For mounting to walls, using standard hangers. Hanger support is required every 3 meters maximum.

Part Number  
WMBT5-9



**Note:** All S3 Systems must be mounted  
in the standard vertical orientation

# T5 AND S5 SERIES BUSWAY

## ACCESSORIES: SUPPORT HARDWARE

### ■ RAISED MOUNTING BRACKET

For mounting the busway horizontally (with access slot facing to the side) for under floor applications. Pedestal not included.

**Note:** Not available for S5 Systems

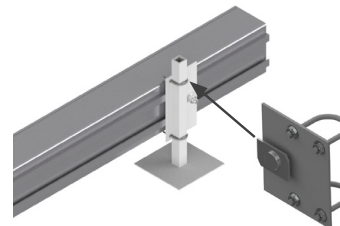
Part Number (250, 400, 600 & 800 amp systems only):

URFBT5-2

Available in plain zinc or black (-BLK)

Weight

.2 lb



### ■ SIDE MOUNT BRACKETS

Mounted to vertical supports.

**Note:** Not available for S5 Systems

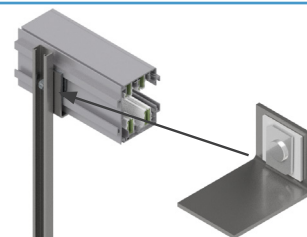
Part Number (250, 400, 600 & 800 amp systems only):

UBSST5-1

Available in plain zinc or black (-BLK)

Weight

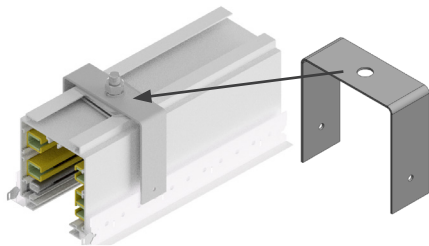
.2 lb



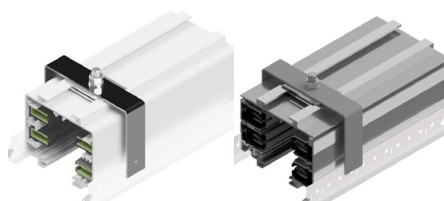
### ■ RECESSED SUSPENDED CEILINGS

For hanging busway into a recessed ceiling.

*\*Hanger bolt must be ordered separately*



SRM250T5-1



SRM400T5-1

SRM600T5-1

Part Numbers (for 250 and compact 400A systems):

SRM250T5-1

(for 400 amp systems):

SRM400T5-1

(for 600 amp systems):

SRM600T5-1

(for 800 amp systems):

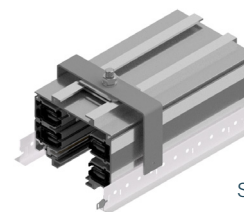
SRM800T5-1

(for 1000 amp systems):

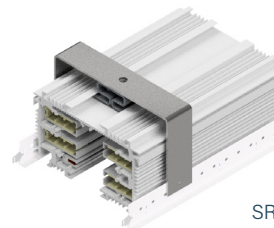
SRM1K0T5-1

(for 1200 amp systems):

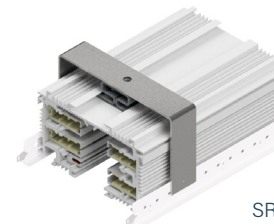
SRM1K2T5-1



SRM800T5-1



SRM1K0T5-1



SRM1K2T5-1

Available in plain zinc or black (-BLK)

# T5 AND S5 SERIES BUSWAY

## ACCESSORIES: SUPPORT HARDWARE

### ■ PRODUCT DESCRIPTION

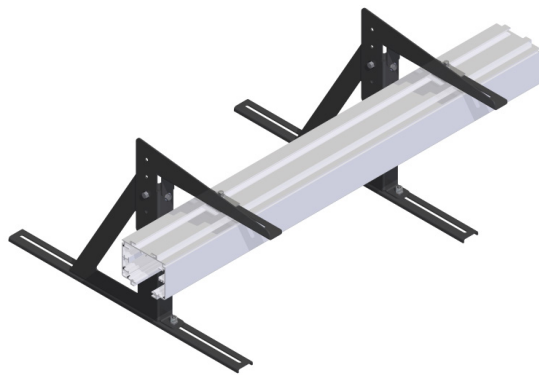
#### UNIVERSAL SERVER CABINET MOUNTING BRACKETS

The Universal Server Cabinet Mounting Brackets are designed with generous 3/8 inch wide through slots to mount directly onto virtually any server cabinet. Special versions for Legrand Nexpan cabinets are also available.

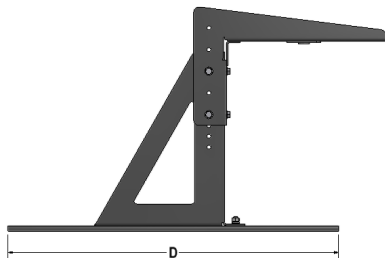
These accessories quickly and easily provide a flexible busway mounting solution on top of server cabinets, eliminating the need for threaded rod and strut support from the ceiling.

The brackets are adjustable in height, can be ordered in virtually any color, and can be positioned at any depth on the server cabinet. Moreover, they can accommodate up to 2 runs of 250 or 400 amp busway, and 1 run of 600, 800, 1000 or 1200 amp busway.

Hanger Bolt Included – UBHT5-1 (or MBHT5-1)



.397 [10.08] MOUNTING  
SLOT WIDTH



#### MATERIAL

Galvanneal Steel

#### HEIGHT

17.68" Min

23.75" Max

Maximum Spacing: Every 10' per run

#### C: Color (1, 3, 4, 6, 7)

**1** Anodized Silver

**3** Black

**4** White

**6** Red

**7** Blue

*\*consult factory for custom colors*

#### Universal Part Number

**U.S: UUSCMB-(X)-(D)-(C)**

#### Legrand Nexpan Part Number

**ULNCMB-(X)-45-(C)**

**X** = System (T5)

**D** = Depth (30", 36", 42", 48" or custom length)

**C** = Color (1, 3, 4, 6, 7)

#### ■ EXAMPLES

**UUSCMB-T5-36-4** = System, Universal Server Cabinet Mounting Bracket, T5 System, 36 inch Depth, White

**UUSCMB-T5-42-7** = US System, Universal Server Cabinet Mounting Bracket, T5 System, 42 inch Depth, Blue

# T5 AND S5 SERIES BUSWAY

## ACCESSORIES: CONNECTION HARDWARE

### T5 & S5 JOINT KITS

SYSTEM AMPERAGE	NEUTRAL/GROUNDBAR OPTION	T5 SERIES CATALOG #	S5 SERIES CATALOG #
250	3 Phase plus Neutral	SJK250T5-1	SJK250S5-1
	3 Phase plus Neutral plus Internal Ground Conductor	SJK250T5G-1	SJK250S5G-1
	3 Phase plus 200% Neutral	SJK250T5N-1	SJK250S5N-1
	3 Phase plus 200% Neutral plus Internal Ground Conductor	SJK250T5F-1	SJK250S5F-1
400	3 Phase plus Neutral	SJK400S5-1	SJK400S5-1
	3 Phase plus Neutral plus Internal Ground Conductor	SJK400S5G-1	SJK400S5G-1
	3 Phase plus 200% Neutral	SJK400S5N-1	SJK400S5N-1
	3 Phase plus 200% Neutral plus Internal Ground Conductor	SJK400S5F-1	SJK400S5F-1
C400	3 Phase plus Neutral	CJK400T5-1	CJK400S5-1
	3 Phase plus Neutral plus Internal Ground Conductor	CJK400T5G-1	CJK400S5G-1
	3 Phase plus 200% Neutral	CJK400T5N-1	CJK400S5N-1
	3 Phase plus 200% Neutral plus Internal Ground Conductor	CJK400T5F-1	CJK400S5F-1
500	3 Phase plus Neutral	SJK500T5-2	SJK500S5-2
	3 Phase plus Neutral plus Internal Ground Conductor	SJK500T5G-2	SJK500S5G-2
600	3 Phase plus Neutral	SJK600T5-2	SJK600S5-2
	3 Phase plus Neutral plus Internal Ground Conductor	SJK600T5G-2	SJK600S5G-2
800	3 Phase plus Neutral	SJK800T5-2	SJK800S5-2
	3 Phase plus Neutral plus Internal Ground Conductor	SJK800T5G-2	SJK800S5G-2
1000	3 Phase plus Neutral	SJK1K0T5-2	SJK1K0S5-2
	3 Phase plus Neutral plus Internal Ground Conductor	SJK1K0T5G-2	SJK1K0S5G-2
1200	3 Phase plus Neutral	SJK1K2T5-2	SJK1K2S5-2
	3 Phase plus Neutral plus Internal Ground Conductor	SJK1K2T5G-2	SJK1K2S5G-2



# T5 AND S5 SERIES BUSWAY

## ACCESSORIES: CONNECTION HARDWARE

### ■ T5 JOINT KIT

For the connection of adjacent busway sections. One kit is required at each joint. Each kit is comprised of a housing coupler pair and bus connector set.

**Bus Connector:** copper blades secured to an insulating mounting plate. This makes the electrical connection between sections.

**Housing Couplers:** consists of two 12-screw couplers-one for the top and one for the bottom. These make the mechanical connection between busway sections.

*\*Installation tool is required (see below)*

*\*\*Available in all standard and RAL colors*

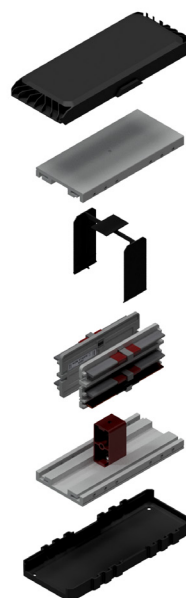
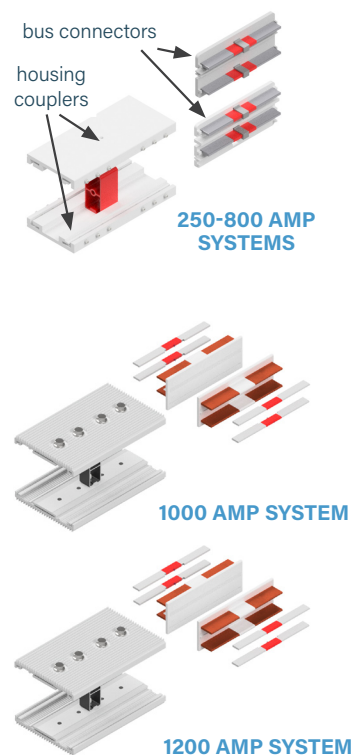
### ■ S5 JOINT KIT

**Bus Connector:** copper blades secured to an insulating mounting plate. This makes the electrical connection between sections.

**Housing Couplers:** consists of two 12-screw couplers-one for the top and one for the bottom. These make the mechanical connection between busway sections.

**Joint Seal:** Plastic sealing component installed between two housings at joint prior to bus connector and coupler installation

**Joint Cover:** Plastic sealing cover snapped over top of housing coupler after coupler installation.



Includes: Couple Covers, Top and Bottom Housing Couplers, Joint Seal and Bus Connectors

# T5 AND S5 SERIES BUSWAY

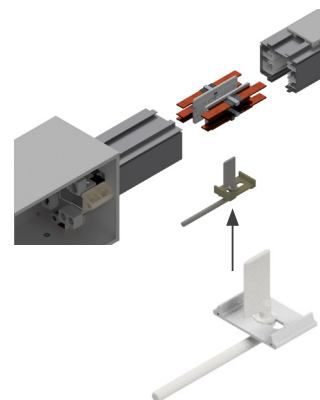
## ACCESSORIES: CONNECTION HARDWARE

### ■ INSTALLATION TOOL

An installation tool is used to install the bus connector between two adjacent sections of busway. A joint kit, which is comprised of two housing couplers and a bus connector set, is required at every joint.

Busway sections are butted together and the top housing coupler is installed. The bus connector is inserted, centered and seated in the slot of the busway. The installation tool is inserted into the jointed intersection and rotated 90 degrees to form a secure electrical connection. The housing coupler is then positioned over the bottom joint and tightened.

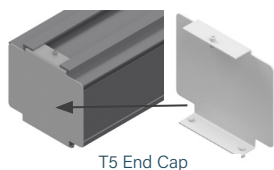
Part Number  
*ST5/IT*  
No available colors  
Weight  
*3.1 lb*



### ■ END CAP

For covering the end of T5 busway systems.

SYSTEM	DESCRIPTION	T5 SERIES CATALOG #	S5 SERIES CATALOG #
250	250 Amp End Cap	SEC250T5	SEC250S5
250	250 Amp End Cap, 200% N	SEC250T5-2N	SEC250S5-2N
C400	Compact 400 Amp End Cap	CEC400T5	CEC400S5
C400	Compact 400 Amp End Cap, 200% N	CEC400T5-2N	CEC400S5-2N
400	400 Amp End Cap	SEC400T5	SEC400S5
400	400 Amp End Cap, 200% N	SEC400T5-2N	SEC400S5-2N
500	500 Amp End Cap	SEC500T5	SEC500S5
600	600 Amp End Cap	SEC600T5	SEC600S5
800	800 Amp End Cap	SEC800T5	SEC800S5
1000	1000 Amp End Cap	SEC1K0T5	SEC1K0S5
1200	1200 Amp End Cap	SEC1K2T5	SEC1K2S5



# T5 AND S5 SERIES BUSWAY

## ACCESSORIES: CONNECTION HARDWARE

### CLOSURE STRIP

Snaps into bottom access slot of busway housing. The optional closure strip is normally shipped in 10 feet lengths and can be field cut to fit exact desired length.

Closure Strip is offered in both non-conductive plastic material and aluminum.

**Important note:** Closure strip is optional for T5 systems, but is required for S5 systems in order to ensure the system meets IP54 ingress protection requirements. Closure strip must be ordered separately.



SYSTEM	AMPERAGE	PART NUMBER	MATERIAL TYPE	REQUIRED
T5	250-800A	SCST5-1	Plastic	Optional
T5	250-800A	SCST5-1-AL	Aluminum	Optional
T5	1000-1200	SCST5-2	Plastic	Optional
S5	250-800A	SCSS5-1-AL	Aluminum	Yes
S5	1000-1200	SCST5-2	Plastic	Yes

### TAP-OFF SEAL ASSEMBLY

For use with Series-S Busway only. The seal assembly (2 pieces) wraps around the enclosure, protecting it and the busway from dust and liquid ingress.

**Note:** Tap-off Seal Assemblies are already included with each Series-S Plug-in unit, but may be ordered separately.



PLUG-IN (TAP-OFF) ENCLOSURE	SEAL ASSEMBLY CATALOG #
S1 Enclosure	S5TOU-SEAL-S1-STD
S2 Enclosure	S5TOU-SEAL-S2-STD
S3 Enclosure	S5TOU-SEAL-S3-STD

# T5 AND S5 SERIES BUSWAY

## ADD-ON ACCESSORIES: DATA CHANNEL

### ■ DATA CHANNEL COVER

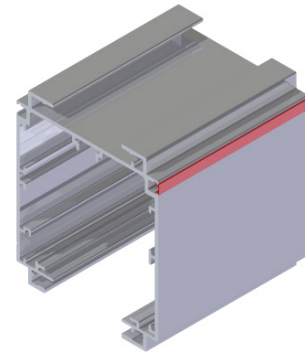
The Data Channel Cover is used to hold cables into position and hide them from view. It can also be used for a variety of busway identification applications, and it is available in many different colors.

The Data Channel Cover is available in lengths of 10 feet.

Please contact sales to order the quantity needed.

#### *Part Number*

*UDCCT5-10-SIL (silver)*  
*UDCCT5-10-BLK (black)*  
*UDCCT5-10-GRN (green)*  
*UDCCT5-10-YEL (yellow)*  
*UDCCT5-10-W (white)*  
*UDCCT5-10-RED (red)*  
*UDCCT5-10-BLU (blue)*



### ■ HINGED WIRE WAY

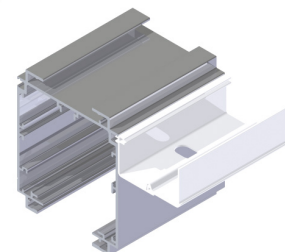
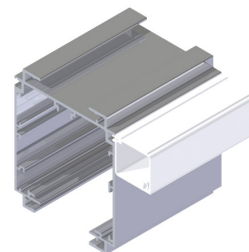
The Hinged Wire Way provides a seamless, integrated cable management solution that allows users to easily route cabling while leaving it easily accessible and identifiable. Discreet slots located every 6 inches provide built-in accessibility for cable drops.

The Hinged Wire Way is available in lengths up to 10 feet.

Please contact sales to order the quantity and length needed.

#### *Part Number*

*UHWWT5-10*  
*Available in gray only*



## T5 AND S5 SERIES BUSWAY

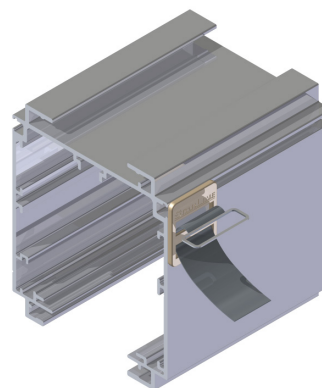
### ADD-ON ACCESSORIES: DATA CHANNEL

#### ■ DATA CABLE STRAP

The Data Cable Strap provides a seamless, integrated cable management solution that allows users to easily route cabling while leaving it easily accessible and identifiable. The 12 inch adjustable velcro strap can accommodate a wide variety and quantity of cables, and can be easily positioned along the busway to accommodate various cable management needs.

*Part Number  
SVCST5-12*

*Available in gray, with a  
black colored strap only*



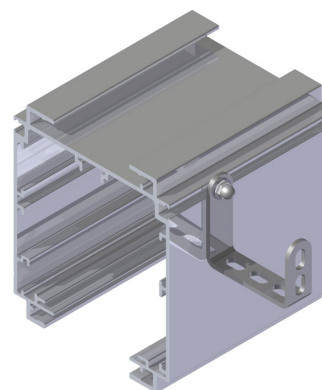
#### ■ MULTI USE MOUNTING BRACKET

The Multi Use Mounting Bracket is an all-purpose bracket that easily attaches to any position on the busway. The bracket comes with 1/4 inch slotted holes throughout to allow for the attachment of a wide variety of accessories. Each bracket is capable of supporting a load of 25 pounds.

The Multi Use Mounting Bracket is commonly used for suspending compressed air lines, tap box cable management and suspending accessory lighting.

*Part Number  
SMMBT5-1*

*Available in plain zinc  
or black (-BLK)*



# T5 AND S5 SERIES BUSWAY

## SERVICES

Regular servicing of busway systems is crucial for ensuring that your system performs at its best. By conducting regular maintenance, you can identify and address any potential issues before they turn into expensive problems, thus saving you time and money in the long run. Regular servicing can help extend the lifespan of your busway system, ensuring that it meets safety standards and complies with regulations. Choose from various offerings and customize a service plan that works best for you.

### **WE ARE CURRENTLY OFFERING THE FOLLOWING SERVICES:**

#### **COMMISSIONING AND EQUIPMENT RENTALS**

Designing a mission-critical facility involves a significant investment of time and money. Through comprehensive commissioning services, Starline can help guarantee your project delivers the outcomes you expect.

Whether you need rental equipment to test your busway system or certified technicians to perform the testing, Starline has you covered. Choose from our inventory of load bank tap-offs and associated gear, or work with a Starline Engineer to customize and perform a commissioning plan to fit your specific needs.

#### **METER SERVICES**

Starline's certified technicians make optimizing your meters' performance and functionality a breeze. Our comprehensive on-site meter programming service includes inspecting, programming, reporting, and optional retrofitting services for you existing systems.

#### **STARTUP AND SYSTEM CERTIFICATION**

At Starline, we are committed to ensuring the success of your project. Our team understands the risks associated with the energization of systems, which is why we've designed a rigorous certification process to inspect, test and report on your Starline Busway and Critical Power Monitor ("CPM") products. Our certification process proactively identifies and prevents any potential issues before they happen.

To ensure the long-term success of your project, it is crucial to have Starline-certified technicians inspect and validate the installation before full commissioning. Level 2 and 3 commissioning ensures the installation complies with safety requirements and meets factory standards for ongoing reliability.

- Double the length of the standard factory warranty
- Ensure all joint and feed connections are properly installed with continuity testing
- Ensure proper installation of all plug-in units
- Validate that system will perform to your specified requirements
- Full certification report delivered electronically at conclusion of service

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at [downloads.starlinepower.com/services](https://downloads.starlinepower.com/services).

# T5 AND S5 SERIES BUSWAY

## SERVICES

### TURNKEY INSTALLATION SERVICES

Our trained and factory certified Busbar installers are looking forward to completing your next job. You can order your best-in-class power distribution system and leave the rest to us. Our technicians will complete your installation quickly and safely and will reduce your overall TCO by extending your product warranty.

### PREVENTATIVE MAINTENANCE PLANS AND IR SCANNING

Although Starline busway is expertly designed to require less maintenance, NETA ATS and MTS guidelines recommend conducting annual inspections and health assessments on all critical equipment. Yearly preventative maintenance helps to ensure your system's long-term reliability and safety.

Starline's FLIR-certified technicians will create a custom preventative maintenance plan for your specific needs. Our certified technicians will work to:

- Identify thermal anomalies
- Extend equipment lifecycle
- Ensure optimal system performance
- Improve facility safety and operational sustainability

Upon completing your preventative maintenance plan, you may be eligible to extend your product warranty.

### ON-SITE INSTALLATION SUPPORT

Starline's on-site installation service makes installing your busway as quick and easy as possible.

Our installation support starts with scheduling a preliminary trip to the installation site. During the initial visit, our certified technicians will train your installing contractor and develop a thorough installation and commissioning plan.

After completing the training, your installing contractor will have a direct line of communication with our installation experts. Our experts can help answer questions and provide hands-on guidance when needed.

Opting for Starline's installation support helps mitigate the installation risk and reduces the learning curve typically associated with new installations.

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at [downloads.starlinepower.com/services](https://downloads.starlinepower.com/services).

# T5 AND S5 SERIES BUSWAY

## SERVICES

### ON-SITE PRODUCT TRAINING

At Starline, we offer comprehensive on-site product training services facilitated by our team of certified technicians. With their extensive expertise and commitment to upholding our high factory standards, you can confidently rely on them to ensure your and your systems' reliability and operational safety.

Our training programs equip your team with the knowledge and skills necessary to operate and maintain your systems effectively. Through hands-on demonstrations and interactive sessions, our certified technicians will guide your staff in understanding the intricate workings of the products and address any questions or concerns your team may have during the training process.

By choosing our on-site product training services, you are investing in your system's and operations' long-term success.

### RECERTIFICATION AND EXTENDED WARRANTY PLANS

Starline's recertification and extended warranty options provide best-in-class coverage for all of your Starline products and systems. Our extended warranty plans safeguard your investment beyond the standard warranty timeframe, offering you peace-of-mind while our recertification programs help mitigate risk and downtime. Whether the busway has been installed for years or you are relocating to another building, Starline is here to help.

Choose from one of our flexible one to four-year plans or have your system recertified anytime. Contact your Starline rep for more information.

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at [downloads.starlinepower.com/services](https://downloads.starlinepower.com/services).



# T5 PLUG-IN UNITS

## T5 PLUG-IN UNITS

### METER PLUG UNITS

Any T5 compatible Starline Plug-In Unit that contains only a meter.



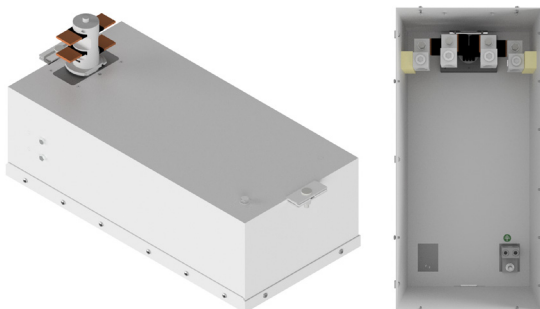
### METER BOX UNITS

Any lone box (without paddle head) that includes a meter.



### TERMINAL BLOCK UNITS

Any T5 compatible Starline Plug-In Unit that's fully rated to the listed electrical ratings that can accept incoming connections from the end user.



### CIRCUIT BREAKER/FUSED DISCONNECT UNITS

Any T5 compatible Starline Plug-In Unit that contains a receptacle and/or drop cord along with circuit breaker(s) or fused disconnect.



# T5 PLUG-IN UNITS

## SYSTEM & BUILD GUIDE

The below is a suggested list of questions to determine answers to in order to properly build or assemble both Track Busway systems and plugs.

### WHEN BUILDING SYSTEMS

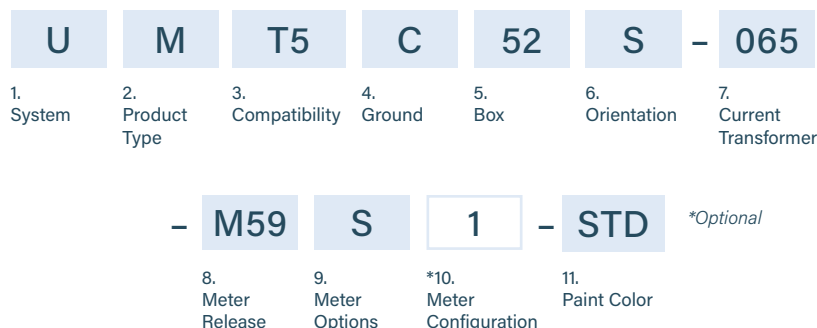
1. What is the amperage needed for the system? (200, 400, 500, 600, etc.)
2. Does the system need an internal ground?
3. Are there any limitations on the length of a run? (5ft max, 10ft max, 20ft max, etc.)

### WHEN DETERMINING DESIRED PLUG CONFIGURATIONS

1. What type of system is this being used on? (T5)
2. Does the system have an internal ground? If so, does the plug need to be wired Isolated or Dedicated ground/earth?
3. What is the fault current needed for the breaker? (10Kaic, 22Kaic, etc.)
4. Does the plug need to have drop cords or receptacles?
5. What is the device configuration of the connector bodies or receptacles?
6. What is your desired circuit breaker configuration? (phase, amperage, poles?)
7. Do you require metering?
8. How many outlets are needed?
9. What is the trip curve needed?
10. What is the voltage required?

# T5 PLUG-IN UNITS

## METER PLUGS: PRODUCT NUMBERS



### 1. System (standard of measure)

**U** US

### 2. Product Type (section component)

**M** Meter Plug

### 3. Compatibility (frame compatibility)

**T5** T5 System **K5** T5 System (Limiting Strip)  
**R5** T5 System (Rotating Paddle) **Z5** K5 + R5

### 4. Ground (ground type installed)

**C** Case (Housing) Ground

### 5. Box (what size enclosure)

**01, 02, ... 99** (refer to enclosure reference **page 4.124**)

*\*12 and 28 boxes are currently not available*

### 6. Orientation (what direction the paddle faces)

**S** Standard **R** Reversed

### 7. Current Transformer (current rating)

**065** 65 amps **225** 225 amps  
**250** 250 amps **400** 400 amps  
**800** 800 amps **1K0** 1000 amps  
**1K2** 1200 amps

*\*\*M60 (DC) meters are only available with 800 amp current transducers*

### 8. Meter Release (M50 AC)

**M51** Single Eth./WiFi, ≤480V Y, ≤277V Δ  
**M53** Single Eth./No WiFi, ≤480V Y, ≤277V Δ  
**M58** Dual Eth., ≤480V Y, ≤277V Δ  
**M59** Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ

### 8. Meter Release (M60 DC)

**M61** Single Eth./WiFi, single phase, VDC  
**M63** Single Eth./No WiFi, single phase, VDC  
**M67** Dual Eth., single phase, VDC  
**M69** Dual Eth./Dual Modbus, single phase, VDC

### 9. Meter Options (M50 AC)

**S** Standard **N** (Measured) Neutral  
**D** Display **P** Professional (D+N)

### 9. Meter Options (M60 DC)

**S** Standard (High Voltage) **P** Standard (48 VDC)  
**D** Display (High Voltage) **Q** Display (48 VDC)

*M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC (+/-60) to 380 VDC (+/-180) OR Low Voltage: 48 VDC*

### \*10. Meter Configuration (M50 AC)

**1** LL power, Delta Solid Core, mV CT  
**3** LN power, Wye Solid Core, mV CT  
**4** LL power, Delta Solid Core, 5A-secondary CT  
**6** LN power, Wye Solid Core, 5A-secondary CT  
**7** LL power, Delta Split Core, mV CT  
**9** LN power, Wye Split Core, mV CT  
**K** LL power, Delta Split Core, 5A-secondary CT  
**M** LN power, Wye Split Core, 5A-secondary CT

### \*10. Meter Configuration (M60 DC)

**1** Circuit 1 Only, Solid Core  
**2** Circuit 2 Only, Solid Core  
**3** Both Circuits, Solid Core

### 11. Paint Color

**STD** Paint Factory Silver **RED** Paint Factory Red  
**BLK** Paint Factory Black **BLU** Paint Factory Blue  
**WHT** Paint Factory White **\*\*RAL** (please see page 4.103)

### EXAMPLE

**UMT5C52S-065-M59S1-STD** = US System, Meter Plug, T5 System, Case Ground, 52 Box, Standard Orientation, 65 Current Rating, M59 Meter, Standard Meter Options, LL Power, Delta Solid Core, mV CT, Painted Factory Silver

# T5 PLUG-IN UNITS

## METER BOXES: PRODUCT NUMBERS

<b>U</b>	<b>B</b>	<b>NA</b>	<b>C</b>	<b>52</b>	<b>S</b>	<b>-</b>	<b>065</b>				
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Current Transformer					
							<b>-</b>	<b>M59</b>	<b>S</b>	<b>1</b>	<b>-</b> <b>STD</b> <i>*Optional</i>
								8. Meter Release	9. Meter Options	*10. Meter Configuration	11. Paint Color

### 1. System (standard of measure)

**U** US

### 2. Product Type (section component)

**B** Meter Box

### 3. Compatibility (frame compatibility)

**NA** Not Applicable

### 4. Ground (ground type installed)

**C** Case (Housing) Ground

### 5. Box (what size enclosure)

**01, 02, ... 99** (refer to enclosure reference **page 4.124**)

*\*12 and 28 boxes are currently not available*

### 6. Orientation (what direction the paddle faces)

**S** Standard

### 7. Current Transformer (current rating)

**065** 65 amps                      **225** 225 amps  
**250** 250 amps                  **400** 400 amps  
**800** 800 amps                  **1K0** 1000 amps  
**1K2** 1200 amps

*\*\*M60 (DC) meters are only available with 800 amp current transducers*

### 8. Meter Release (M50 AC)

**M51** Single Eth./WiFi, ≤480V Y, ≤277V Δ  
**M53** Single Eth./No WiFi, ≤480V Y, ≤277V Δ  
**M58** Dual Eth., ≤480V Y, ≤277V Δ  
**M59** Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ

### 8. Meter Release (M60 DC)

**M61** Single Eth./WiFi, single phase, VDC  
**M63** Single Eth./No WiFi, single phase, VDC  
**M67** Dual Eth., single phase, VDC  
**M69** Dual Eth./Dual Modbus, single phase, VDC

### 9. Meter Options (M50 AC)

**S** Standard                      **N** (Measured) Neutral  
**D** Display                      **P** Professional (D+N)

### 9. Meter Options (M60 DC)

**S** Standard (High Voltage)    **P** Standard (48 VDC)  
**D** Display (High Voltage)    **Q** Display (48 VDC)

*M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC (+/-60) to 380 VDC (+/-180) OR Low Voltage: 48 VDC*

### \*10. Meter Configuration (M50 AC)

**1** LL power, Delta Solid Core, mV CT  
**3** LN power, Wye Solid Core, mV CT  
**4** LL power, Delta Solid Core, 5A-secondary CT  
**6** LN power, Wye Solid Core, 5A-secondary CT  
**7** LL power, Delta Split Core, mV CT  
**9** LN power, Wye Split Core, mV CT  
**K** LL power, Delta Split Core, 5A-secondary CT  
**M** LN power, Wye Split Core, 5A-secondary CT

### \*10. Meter Configuration (M60 DC)

**1** Circuit 1 Only, Solid Core  
**2** Circuit 2 Only, Solid Core  
**3** Both Circuits, Solid Core

### 11. Paint Color

**STD** Paint Factory Silver    **RED** Paint Factory Red  
**BLK** Paint Factory Black    **BLU** Paint Factory Blue  
**WHT** Paint Factory White    **\*\*RAL** (please see page 4.103)

### EXAMPLE

**UBNAC52S-065-M59S1-STD** = US System, Meter Box, Not Applicable, Case Ground, 52 Box, Standard Orientation, 65 Current Rating, M59 Meter, Standard, LL Power, Delta Solid Core, mV CT, Painted Factory Silver

## TERMINAL BLOCK UNITS: PRODUCT NUMBERS

**EXAMPLE**

**UTT5C27S-225-4-SBN-M59S3-BLK** = US System, Terminal Block, T5 System, Case (Housing) Ground, 27 Box, Standard Orientation, 225 amps, 4 Pole - Standard Lugs, Bottom Located Meter, No Accessories, M59 Meter, Audible Alarm, Painted Factory Black

# T5 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT: PRODUCT NUMBERS

<b>U</b>	<b>C</b>	<b>T5</b>	<b>C</b>	<b>52</b>	<b>S</b>	<b>-</b>	<b>14</b>	<b>-</b>	<b>1</b>	
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity			
<b>AA</b>	<b>F</b>	<b>010</b>	<b>N</b>	<b>-</b>	<b>V59</b>	<b>D</b>	<b>-</b>	<b>STD</b>	<b>0</b>	<i>*Optional</i>
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options	15. Paint Color	*16. Drop Cord Tape Marking			

<b>1. System</b> ( <i>standard of measure</i> ) <b>U</b> US	<b>12. Accessories</b> ( <i>optional accessories for plugs</i> ) <b>N</b> N/A <b>C</b> Circuit Breaker Interlock <b>S</b> Seismic Hanger <b>F</b> Finger Shroud <b>P</b> Padlock Adapter for Circuit Breaker <b>R</b> IR Window
<b>2. Product Type</b> ( <i>section component</i> ) <b>C</b> Circuit Breaker Unit <b>F</b> Fused Disconnect Unit	<b>*13. Meter Release</b> ( <i>M50 AC</i> ) <b>V51</b> Single Eth./WiFi, ≤480V Y, ≤277V Δ <b>V53</b> Single Eth./No WiFi, ≤480V Y, ≤277V Δ <b>V58</b> Dual Eth., ≤480V Y, ≤277V Δ <b>V59</b> Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ <b>V56</b> Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ, Breaker Monitoring <b>V57</b> Dual Eth, Breaker Monitoring ≤480V Y, ≤277V Δ <b>*13. Meter Release</b> ( <i>M60 DC</i> ) <b>M61</b> Single Eth./WiFi, single phase, VDC <b>M63</b> Single Eth./No WiFi, single phase, VDC <b>M67</b> Dual Eth., single phase, VDC <b>M69</b> Dual Eth./Dual Modbus, single phase, VDC
<b>3. Compatibility</b> ( <i>frame compatibility</i> ) <b>T5</b> T5 System <b>R5</b> T5 System (Rotating Paddle) <b>K5</b> T5 System (Limiting Strip) <b>Z5</b> K5 + R5	<b>*14. Meter Options</b> ( <i>M50 AC</i> ) <b>S</b> Standard <b>D</b> Display <b>N</b> (Measured) Neutral <b>P</b> Professional (D+N)
<b>4. Ground</b> ( <i>ground type installed</i> ) <b>C</b> Case (Housing) Ground <b>G</b> Isolated (Separate) Ground <b>D</b> Dedicated Ground	<b>*14. Meter Options</b> ( <i>M60 DC</i> ) <b>S</b> Standard (High Voltage) <b>D</b> Display (High Voltage) <b>P</b> Standard (48 VDC) <b>Q</b> Display (48 VDC) <i>M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC (+/-60) to 380 VDC (+/-180) OR Low Voltage: 48 VDC</i>
<b>5. Box</b> ( <i>what size enclosure</i> ) <b>01, 02, ... 99</b> (refer to enclosure reference <b>page 4.124</b> )	<b>15. Paint Color</b> <b>STD</b> Paint Factory Silver <b>BLK</b> Paint Factory Black <b>WHT</b> Paint Factory White <b>RED</b> Paint Factory Red <b>BLU</b> Paint Factory Blue <b>**RAL</b> (please see <b>page 4.103</b> )
<b>6. Orientation</b> ( <i>what direction the paddle faces</i> ) <b>S</b> Standard <b>R</b> Reversed	<b>16. Drop Cord Tape Marking</b> <b>3</b> Tape Factory Black <b>4</b> Tape Factory White <b>6</b> Tape Factory Red <b>7</b> Tape Factory Blue <b>8</b> Tape Factory Green <b>9</b> Tape Factory Yellow
<b>7. Interrupt Rating</b> ( <i>interrupt rating of the breakers in K</i> ) <b>10, 14, 22, 25, 30, 35, 50, 65, CC (CC = 200,000)</b> (for U.S.)	
<b>8. Device Quantity</b> ( <i>quantity of device 1</i> ) <b>1, 2, 3, 4, 5, 6, 7, 8, 9</b>	
<b>9. Device</b> ( <i>quantity of device 1</i> ) <b>AA, AB, ...ZZ</b> (refer to device codes <b>page 4.139</b> )	
<b>*10. Mount Location</b> ( <i>with respect to busway polarizing stripe</i> ) <b>F</b> Front <b>T</b> Top <b>L</b> Left <b>A</b> Back <b>B</b> Bottom <b>R</b> Right <i>(Not every mount location will be available for every box)</i>	
<b>*11. Drop Cord Length</b> ( <i>location of optional meter</i> ) <b>XXY:</b> XX=feet, Y=inches <i>(only can be chosen in 6" increments) For any device configuration chosen over 70 amps, the max. drop cord length is 10 feet (100)</i>	

### EXAMPLE

**UCT5D57S-25-2CDB0100N-V59D-STD** = US System, Circuit Breaker Unit, T5 System, Dedicated Ground, 57 Box, Standard Orientation, 25 Interrupt Rating, 2 Devices, L16-30C, Bottom Located, 1 foot Drop Cord, No Accessories, V59 Meter, with Display, Painted Factory Silver

# T5 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT: COMPATIBILITY

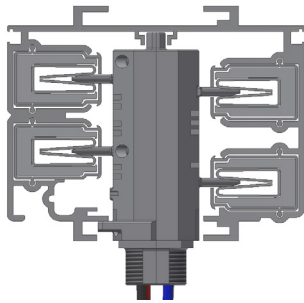
U	C	<b>T5</b>	C	52	S	-	14	-	1	
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity			
AA	F	010	N	-	V59	D	-	STD	0	*Optional
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options	15. Paint Color	*16. Drop Cord Tape Marking			

### 3. Compatibility (frame compatibility)

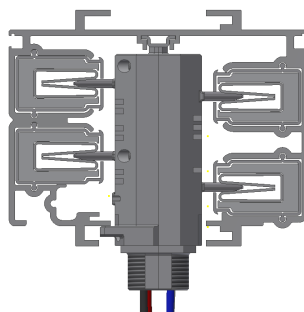
<b>T5</b>	T5 System	<b>K5</b>	T5 System (Limiting Strip)
<b>R5</b>	T5 System (Rotating Paddle)	<b>Z5</b>	K5 + R5

**IN OPTION 3.** you are asked to specify what type of compatibility (paddle type) you would like to work with your busway system. There are three different types: the traditional T5 system, the K5 that works with systems with a limiting strip, and the R5 that is a rotating design capable of being operated from the floor.

#### T5



#### K5



R5- top view



R5- bottom view



\*For rotating paddle systems (R5), an installation tool must be ordered.  
Part Number  
SR5IT



# T5 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT: GROUND

U	C	T5	C	52	S	-	14	-	1
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity		
AA	F	010	N	-	V59	D	-	STD	0 <i>*Optional</i>
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options	15. Paint Color	*16. Drop Cord Tape Marking		

### 4. Ground (ground type installed)

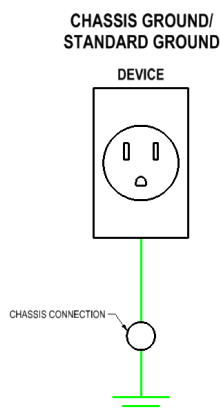
<b>C</b> Case (Housing) Ground	<b>D</b> Dedicated Ground
<b>G</b> Isolated (Separate) Ground	

**IN OPTION 4.** you are asked to specify what type of ground you would like: case, dedicated or isolated.

Parts affected by grounding are the plug paddle (ground paddles have a fifth stab).

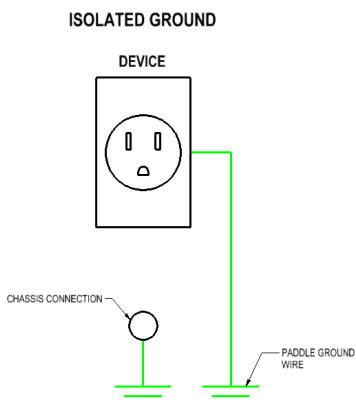
### CASE GROUND/CHASSIS EARTH

Uses aluminum housing and no extra copper bar.



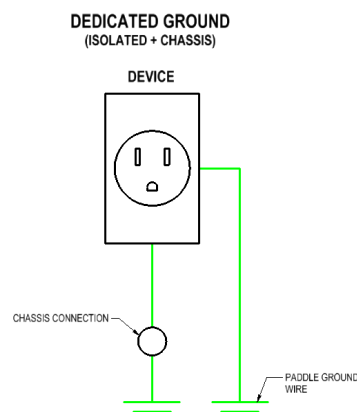
### ISOLATED GROUND/EARTH

Orange receptacles in plugs. Case ground isolated from copper ground bar. Isolated ground carried back to panel by others.



### DEDICATED GROUND/EARTH

Extra bar in busway for ground. Everything tied together inside plugs. Bar and housing at same potential.



\*For further details about Dedicated Ground vs. Isolated Ground, please reference our "Isolated Ground vs. Dedicated Ground" tech brief on [downloads.starlinepower.com/starline/busway](https://downloads.starlinepower.com/starline/busway)



# T5 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT: BOX

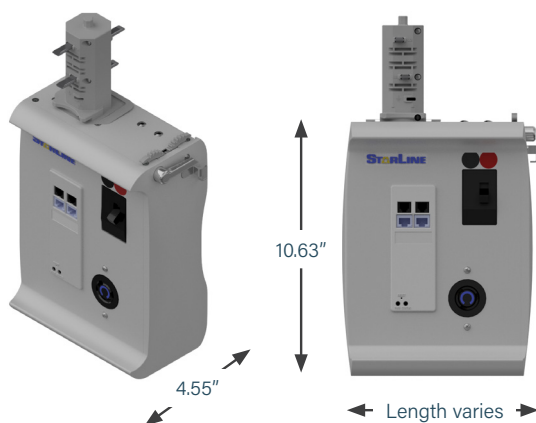
U	C	T5	C	52	S	-	14	-	1
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity		
AA	F	010	N	-	V59	D	-	STD	0 <i>*Optional</i>
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options	15. Paint Color	*16. Drop Cord Tape Marking		

### 5. Box (what size enclosure)

**01, 02, ... 99** (refer to enclosure reference **page 4.134**)

**IN OPTION 5.** you are asked to specify what style enclosure you would like. Size is typically a result of the options and features that you choose. A few common enclosure sizes for T5 busway systems are shown below:

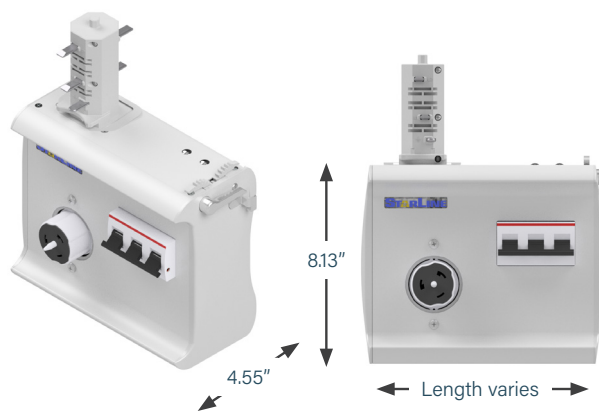
### 50 SERIES



#### BOX LENGTHS

<b>51:</b>	6.00"
<b>52:</b>	8.00"
<b>53:</b>	10.00"
<b>54:</b>	12.00"
<b>55:</b>	13.00"
<b>56:</b>	15.00"
<b>57:</b>	18.00"

### 90 SERIES



#### BOX LENGTHS

<b>91:</b>	6.00"
<b>92:</b>	8.00"
<b>93:</b>	10.00"
<b>94:</b>	12.00"
<b>95:</b>	13.00"
<b>96:</b>	15.00"
<b>97:</b>	18.00"

\*For all box sizes and styles, please refer to **page 4.134**

# T5 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT: INTERRUPT RATING

U	C	T5	C	52	S	- 14	- 1	
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity	
AA	F	010	N	- V59	D	- STD	0	*Optional
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options	15. Paint Color	*16. Drop Cord Tape Marking	

**7. Interrupt Rating** (interrupt rating of the breakers in K)  
**10, 14, 22, 25, 30, 35, 50, 65, CC (CC = 200,000)**

**IN OPTION 7.** you are asked to specify what the interrupt rating of your protection will be. Starline standardizes on Schneider Electric (Square D) and ABB for breakers, and the breaker used is dependent on voltage, amperage and short-circuit ratings. Different or particular brands may be available upon request. Images of example breakers can be found below. Injection (NETA) testing may also be available upon request.



# T5 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT: DEVICE

U	C	T5	C	52	S	-	14	-	1	
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity			
AA	F	010	N	-	V59	D	-	STD	0	*Optional
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options	15. Paint Color	16. Drop Cord Tape Marking			

### 9. Device (quantity of device 1)

**AA, AB, ...ZZ** (refer to device codes **page 4.139**)

**IN OPTION 9.** you are asked to specify what device(s) you would like in your plug. All devices will need to be coded. The catalog number can accommodate up to 3 different types of devices- anything more than that will be handled in the G0 code. If you require more than one type of device, see the example catalog number below:

UCT5C57S-22-**2AD-3AB-1AC**FN-V59D-G001

If you require a drop cord(s), only one device type can be accommodated in the main catalog number. In addition, drop cord length is only specified if it's the same for all devices. Any additional device types or varying lengths will be handled in the G0 code.



UCT5C53S-22-3AIFN-STD



MCT5C53S-14-1FOFN-M59S-STD

\*For the full list of all device codes, please refer to **page 4.139**



UCT5D92S-22-2BGB(XXX)N-STD



UFT5C93R-CC-1EYB(XXX)N-V59S-STD

# T5 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT: MOUNT LOCATION

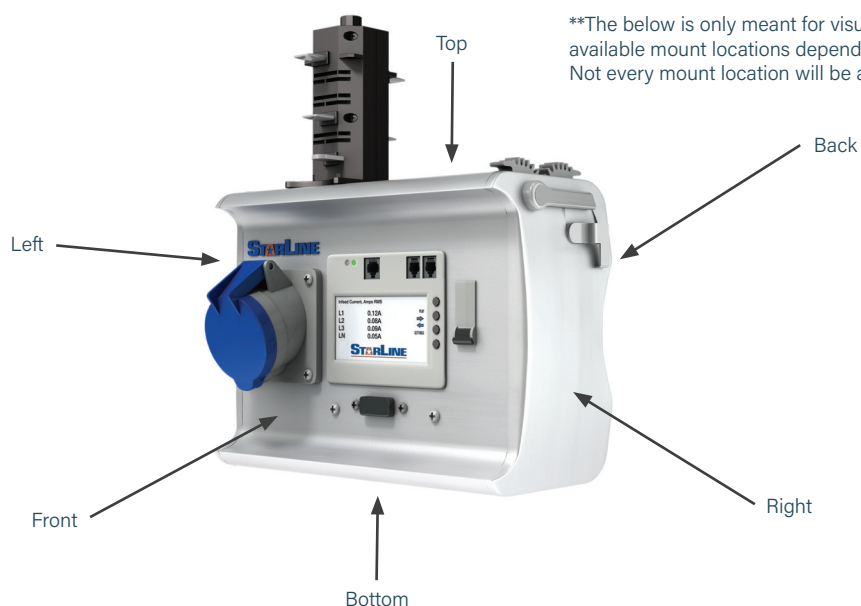
U	C	T5	C	52	S	-	14	-	1	
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity			
AA	F	010	N	-	V59	D	-	STD	0	*Optional
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options	15. Paint Color	*16. Drop Cord Tape Marking			

### \*10. Mount Location (with respect to busway polarizing stripe)

<b>F</b> Front	<b>A</b> Back
<b>T</b> Top	<b>B</b> Bottom
<b>L</b> Left	<b>R</b> Right

**IN OPTION 10.** you are required to specify the devices desired location on the plug. Please see the image below to guide you in selecting your specified mounting location.

\*Mount location is 'situational' because it is only specified if it's the same for all chosen devices. If it is not the same, then it is omitted from the catalog number and moved to the configuration code.



\*\*The below is only meant for visual representation. The available mount locations depend on the box size used. Not every mount location will be available for every box.

# T5 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT: ACCESSORIES

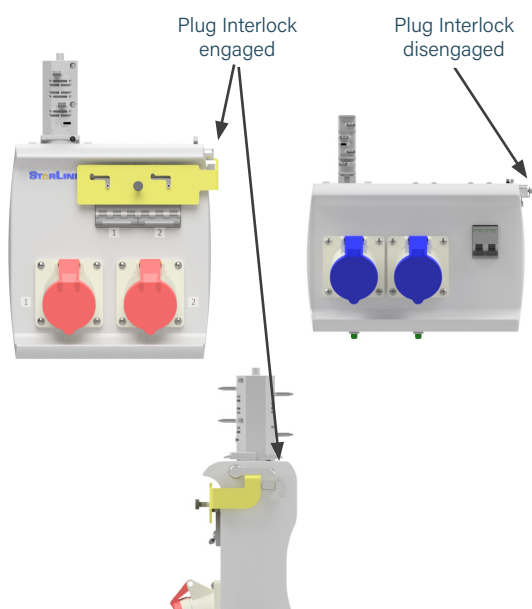
U	C	T5	C	52	S	-	14	-	1
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity		
AA	F	010	N	-	M51	D	-	STD	0
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options	15. Paint Color	*16. Drop Cord Tape Marking		<i>*Optional</i>

### 12. Accessories (optional accessories for plugs)

<b>N</b>	N/A
<b>C</b>	Circuit Breaker Interlock
<b>S</b>	Seismic Hanger
<b>L</b>	Pilot Light
<b>T</b>	NETA Injection Tested Breakers
<b>F</b>	Finger Shroud
<b>P</b>	Padlock Adapter for Circuit Breaker
<b>R</b>	IR Window

**IN OPTION 12.** you have the option to choose an accessory: The Circuit Breaker prevents disengaging the plug from the busway while the breaker is in the “on” position. The Finger Shroud prevents accidental on or off contact with the breaker toggle. The Padlock Adapter provides optional protection for locking out breakers. NETA injection testing certifies the breakers will operate as specified in their trip logic. Pilot Light: When breaker is on, pilot light will be illuminated green. When the breaker off or tripped, the pilot light is off.

### ■ CIRCUIT BREAKER INTERLOCK



### ■ FINGER SHROUD



### ■ SEISMIC HANGER



### ■ PADLOCK ADAPTER FOR CIRCUIT BREAKER LOCK-OUT



### ■ IR WINDOW



# T5 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT: (AC ONLY) METER RELEASE

U	C	T5	C	52	S	-	14	-	1	
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity			
AA	F	010	N	-	V59	D	-	STD	0	*Optional
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options	15. Paint Color	*16. Drop Cord Tape Marking			

### \*13. Meter Release (M50 AC Series Meters)

**M51** Single Eth./WiFi, ≤480V Y, ≤277V Δ  
**M53** Single Eth./No WiFi, ≤480V Y, ≤277V Δ  
**M58** Dual Eth., ≤480V Y, ≤277V Δ  
**M59** Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ  
**V51** Single Eth./WiFi, ≤480V Y, ≤277V Δ  
**V53** Single Eth./No WiFi, ≤480V Y, ≤277V Δ  
**V58** Dual Eth., ≤480V Y, ≤277V Δ  
**V59** Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ  
**M56** Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ, Breaker Monitoring  
**V56** Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ, Breaker Monitoring  
**M57** Dual Eth, Breaker Monitoring ≤480V Y, ≤277V Δ  
**V57** Dual Eth, Breaker Monitoring ≤480V Y, ≤277V Δ  
 When selecting an "M" meter (ex. M59) the character for type of CT (M59D\*) configuration is required in the catalog number.

### \*14. Meter Options (M50 AC)

**S** Standard                      **D** Display

**IN OPTION 13.** you are able to select metering for your plug-in unit. M50 and V50 series meters are the best options for plug-in units.

The communication options include:

- Single Ethernet + WiFi
- Single Ethernet
- Dual Ethernet
- Dual Modbus + Dual Ethernet

The difference between 'M' and 'V' is that M50 series meters are capable of monitoring the current of the entire unit, and V50 series meters are capable of monitoring up to 6 individual devices limited to 6 solid core Current Transformers (CTs).

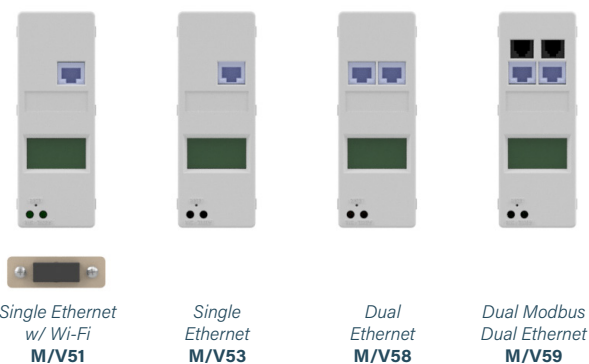
Each unit is calibrated for accuracy and is within 0.5% to meet ANSI Revenue Grade Standards.

M/V56 and M/V57 meters also have the capability to sense circuit breaker position (on/off) for up to two outlets.

### CRITICAL POWER MONITOR (NO DISPLAY)



### CRITICAL POWER MONITOR WITH OPTIONAL DISPLAY



# T5 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT: (DC ONLY) METER RELEASE

U	C	T5	C	52	S	-	14	-	1	
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity			
AA	F	010	N	-	M51	D	-	STD	0	*Optional
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options	15. Paint Color	*16. Drop Cord Tape Marking			

### \*13. Meter Release (M60 DC Series Meters)

**M61** Single Eth./WiFi, single phase, VDC  
**M63** Single Eth./No WiFi, single phase, VDC  
**M67** Dual Eth., single phase, VDC  
**M69** Dual Eth./Dual Modbus, single phase, VDC

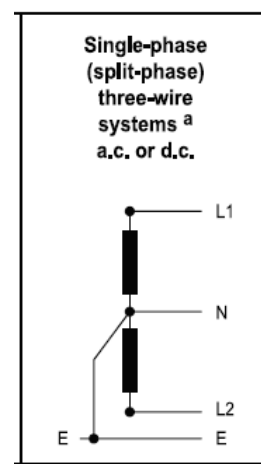
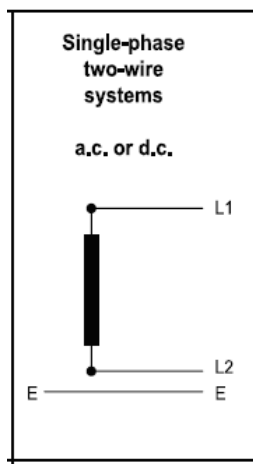
### \*14. Meter Options (M60 DC)

**S** Standard (High Voltage)      **D** Display (High Voltage)  
**P** Standard (48 VDC)      **Q** Display (48 VDC)  
*M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC (+/-60) to 380 VDC (+/-180) OR Low Voltage: 48 VDC*

If you've chosen to use direct current (DC) for your Track Busway system, then the DC M60 series meters are a perfect fit. For M60 meters there is a special addition to the catalog number (reference 15. System Configuration). It is important to select your circuit(s) when ordering.

The M60 device utilizes the M50 bezel (shown on previous page) and is capable of measuring up to 4 outlets (circuit 1 or circuit 2). The difference between 'M' and 'V' is that M60 series meters are capable of monitoring the current of the entire unit, and V60 series meters are capable of monitoring up to 4 individual devices.

Each unit is calibrated for accuracy within 1% of energy.



M60 meters are capable of supporting single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380VDC(+/-190VDC).

*\*12VDC & 24VDC applications are not supported at this time.*

*\*\*Meter is capable of reporting A to B voltages (as shown above). A to N + B to N voltages will not be reported.*

# T5 PLUG-IN UNITS

## CIRCUIT BREAKER UNITS, NO DEVICES: PRODUCT NUMBERS

U		C	T5	C	52	S	-	14	-					
1. System		2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating							
2	030	3	480	050	5	N	-	M59	D	3	-	STD	0	*Optional
8. Circuit Protection Quantity	9. Amperage	10. Poles	11. Voltage	*12. Drop Cord Length	*13. Number of Wires	14. Accessories	15. Meter	16. Meter Options	17. Meter Configuration	18. Paint Color	19. Drop Cord Tape Marking			

### 1. System (standard of measure)

**U** US

### 2. Product Type (section component)

**C** Circuit Breaker Unit **F** Fused Disconnect Unit

### 3. Compatibility (frame compatibility)

**T5** T5 System **K5** T5 System (Limiting Strip)  
**R5** T5 System (Rotating Paddle) **Z5** K5 + R5

### 4. Ground (ground type installed)

**C** Case (Housing) Ground **D** Dedicated Ground  
**G** Isolated (Separate) Ground

### 5. Box (what size enclosure)

**01, 02, ... 99** (refer to enclosure reference **page 4.124**)

### 6. Orientation (what direction the paddle faces)

**S** Standard **R** Reversed

### 7. Interrupt Rating (interrupt rating of the breakers in K)

**10, 14, 22, 25, 30, 35, 50, 65, CC (CC = 200,000)** (for US)

### 8. Circuit Protection Quantity

**1, 2, 3, 4, 5, 6**

### 9. Amperage

**015, 020, 030, 600**

### 10. Poles (number of poles in a circuit)

**1, 2, 3, 4, 5**

### 11. Voltage

**120, 240, 277, 300, 415, 480, 600**

### \*12. Drop Cord Length (length of drop cord)

**010** 1 foot **XXY** XX=feet, Y=inches  
 (only can be chosen in 6" increments) For any device configuration chosen over 70 amps, the max. drop cord length is 10 feet (100)

### \*13. Number of Wires (M50 AC)

**2, 3, 4, 5**

### EXAMPLE

**UCT5D57S-25-203034800505N-M59D3-\*STD0** = US System, Circuit Breaker Only Unit, T5 system, Dedicated Ground, 57 box, Standard orientation, 25kA interrupt rating, 2 circuits, 30 amps, 3 poles, 480v, 5 ft drop cord, 5 wires, no accessories, M59 meter, painted factory silver, no drop cord tape marking

### 14. Accessories (optional accessories for plugs)

**N** N/A **F** Finger Shroud  
**C** Circuit Breaker Interlock **P** Padlock Adapter for Circuit Breaker  
**S** Seismic Hanger **R** IR Window

### 15. Meter

**M51** Single Eth./WiFi, ≤480V Y, ≤277V Δ  
**M53** Single Eth./No WiFi, ≤480V Y, ≤277V Δ  
**M58** Dual Eth, ≤480V Y, ≤277V Δ  
**M59** Dual Eth/Dual Modbus, ≤480V Y, ≤277V Δ  
**M56** Dual Eth/Dual Modbus, ≤480V Y, ≤277V Δ, Breaker Monitoring

### 16. Meter Options (M50 AC)

**S** Standard **N** (Measured) Neutral  
**D** Display **P** Professional (D+N)

### \*16. Meter Options (M60 DC)

**S** Standard (High Voltage) **P** Standard (48 VDC)  
**D** Display (High Voltage) **Q** Display (48 VDC)  
 M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC (+/-60) to 380 VDC (+/-180) OR Low Voltage: 48 VDC

### \*17. Meter Configuration

**1** LL power, Delta Solid Core, mV CT  
**3** LN power, Wye Solid Core, mV CT  
**4** LL power, Delta Solid Core, 5A-secondary CT  
**6** LN power, Wye Solid Core, 5A-secondary CT  
**7** LL power, Delta Split Core, mV CT  
**9** LN power, Wye Split Core, mV CT  
**K** LL power, Delta Split Core, 5A-secondary CT  
**M** LN power, Wye Split Core, 5A-secondary CT

### \*14. Meter Configuration (M60 DC)

**1** Circuit 1 Only, Solid Core **3** Both Circuits, Solid Core  
**2** Circuit 2 Only, Solid Core

### 18. Paint Color

**STD** Paint Factory Silver **RED** Paint Factory Red  
**BLK** Paint Factory Black **BLU** Paint Factory Blue  
**WHT** Paint Factory White **\*\*RAL** (please see page 4.103)

### 19. Drop Cord Tape Marking

**3** Black **6** Red **8** Green  
**4** White **7** Blue



## CORDED METERS

<b>U</b>	<b>CCPM</b>	<b>M</b>	<b>51</b>	<b>S</b>	<b>1</b>	-	<b>L515</b>	<b>C</b>
1. System	2. Product Type	3. Monitoring Capabilities	4. Meter Features	5. Meter Variations	6. System Voltage		7. Wiring Device or Cord Set	8. Device Style
		-	<b>XXXX</b>	-	<b>C</b>	-	<b>BLK</b>	
		9. Length (end to end)		10. Meter Location on the Cord		11. Paint Color		

<b>1. System</b> <i>(standard of measure)</i>	
<b>U</b> US	
<b>2. Product Type</b> <i>(section component)</i>	
<b>CCPM</b> Corded CPM	
<b>3. Monitoring Compatibilities</b>	
<b>M</b> Paddle/Feed Monitoring	
<b>4. Meter Features</b>	
<b>51</b> Single Ethernet WiFi	<b>53</b> Single Ethernet
<b>58</b> Dual Ethernet	<b>59</b> Dual Ethernet, Modbus
<b>5. Meter Variations</b>	
<b>S</b> Standard Unit	<b>D</b> Display
<b>6. System Voltage</b>	
<b>1</b> Line-Line	<b>3</b> Line-Neutral
<b>7. Wiring Device or Cord Set</b>	
Options listed on <b>page 4.133</b>	
<b>8. Device Style</b>	
<b>C</b> Connector Body	<b>R</b> Receptacle
<b>D</b> Duplex	<b>Q</b> Quad Receptacle
<b>9. Length</b> <i>(end to end)</i>	
<b>XXXX</b> Length will be selected when ordering. There will always be four X's for these characters. (lengths range from 4 to 25 feet in increments of 1 foot)	
<b>10. Meter Location on the Cord</b>	
<b>C</b> Center	<b>T</b> Top
<b>B</b> Bottom	
<b>11. Paint Color</b>	
<b>STD</b> Paint Factory Silver	<b>RED</b> Paint Factory Red
<b>BLK</b> Paint Factory Black	<b>BLU</b> Paint Factory Blue
<b>WHT</b> Paint Factory White	<b>**RAL</b> <i>(please see page 4.103)</i>



# T5 PLUG-IN UNITS

## WIRING DEVICE/CORD SET OPTIONS

AC NEMA/IEC NAME	VOLTAGE	CURRENT
CS6360C	125V	50
CS6364C	125/250V	50
CS8264C	250V	50
CS8364C	250V	50
CS8164C	480V	50
CS8464C	480V	50
515D	125V	15
515	125V	15
520D	125V	20
520	125V	20
530	125V	30
615D	250V	15
615	250V	15
620D	250V	20
620	250V	20
630	250V	30
L1420	125/250V	20
L1430	125/250V	30
L1520	250V	20
L1530	250V	30
L1620	480V	20
L1630	480V	30
L2120	120/208V	20
L2130	120/208V	30
L2220	277/480V	20
L2230	277/480V	30
L2320	347/600V	20
L2330	347/600V	30
L515	125V	15
L520	125V	20
L530	125V	30
L615	250V	15
L620	250V	20
L630	250V	30
L715	277V	15
L720	277V	20
L730	277V	30
L820	480V	20
L830	480V	30
316C4S	110V	16
332C4S	110V	32
363C4S	110V	63
320C4S	125V	20
330C4S	125V	30
360C4S	125V	60
520C9W	120/208V	20
530C9W	120/208V	30
560C9W	120/208V	60
316C6S	230V	16
332C6S	230V	32
363C6S	230V	63

AC NEMA/IEC NAME	VOLTAGE	CURRENT
420C12W	125/250V	20
430C12W	125/250V	30
460C12W	125/250V	60
320C6W	250V	20
330C6W	250V	30
360C6W	250V	60
320C5W	277V	20
330C5W	277V	30
360C5W	277V	60
416C4S	110V	16
432C4S	110V	32
463C4S	110V	63
416C9S	230V	16
432C9S	230V	32
463C9S	230V	63
420C9S	250V	20
430C9S	250V	30
460C9S	250V	60
416C6S	415V	16
432C6S	415V	32
463C6S	415V	63
420C7S	480V	20
430C7S	480V	30
460C7S	480V	60
516C6S	230/400V	16
532C6S	230/400V	32
563C6S	230/400V	63
316C9S	415V	16
332C9S	415V	32
363C9S	415V	63
520C7S	277/480V	20
530C7S	277/480V	30
560C7S	277/480V	60
320C7W	480V	20
330C7W	480V	30
360C7W	480V	60
15A-300V	300V	15
16A-300V	300V	16
20A-300V	300V	20
30A-300V	300V	30
32A-300V	300V	32
50A-300V	300V	50
60A-300V	300V	60
63A-300V	300V	63
15A-480V	480V	15
16A-480V	480V	16
20A-480V	480V	20
30A-480V	480V	30
32A-480V	480V	32
50A-480V	480V	50
60A-480V	480V	60
63A-480V	480V	63

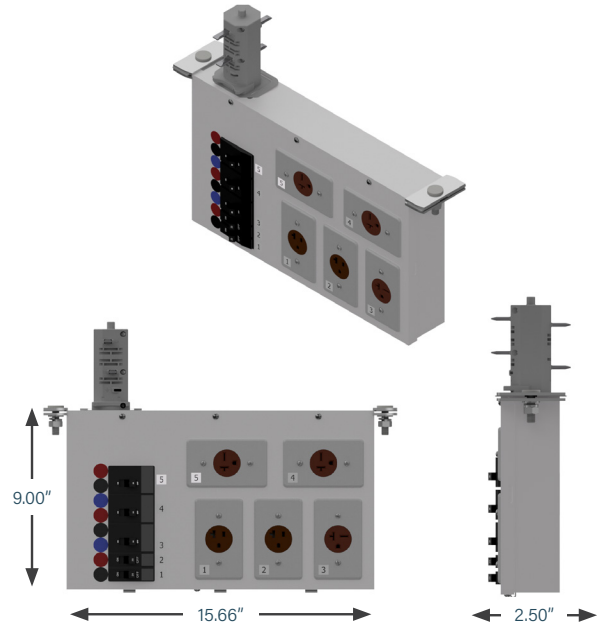
# T5 PLUG-IN UNITS

## BOX SIZES & STYLES

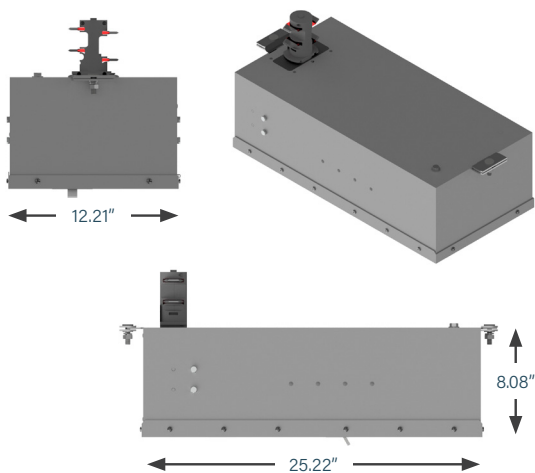
■ 12



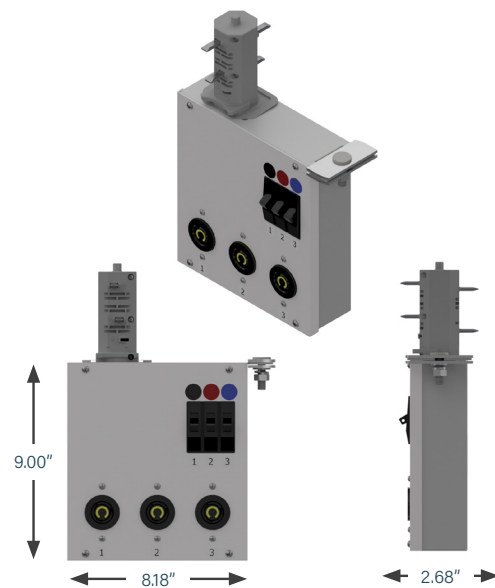
■ 25



■ 27



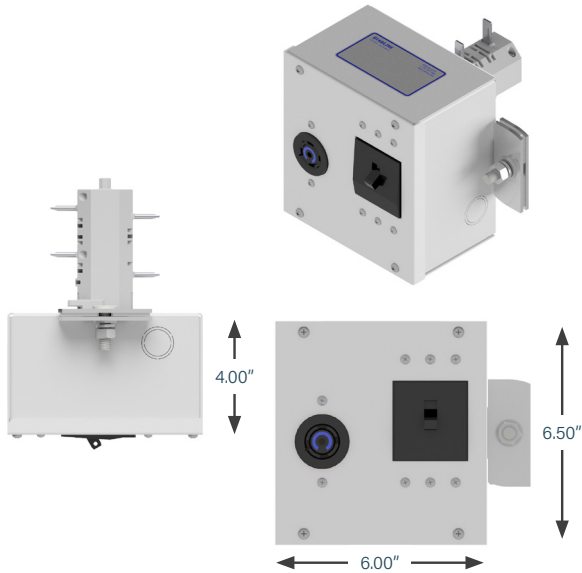
■ 28



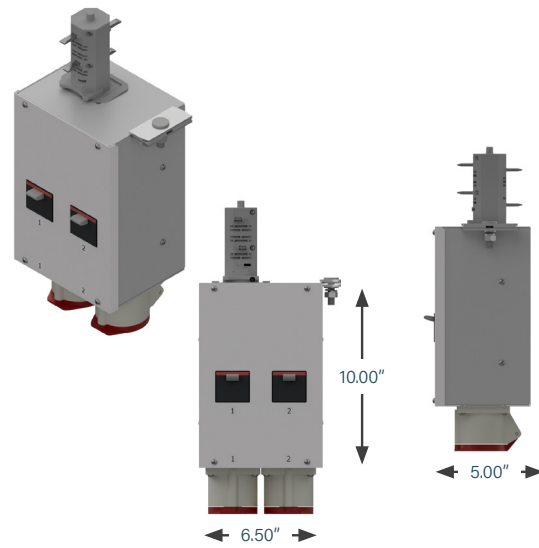
# T5 PLUG-IN UNITS

## BOX SIZES & STYLES

### ■ 30



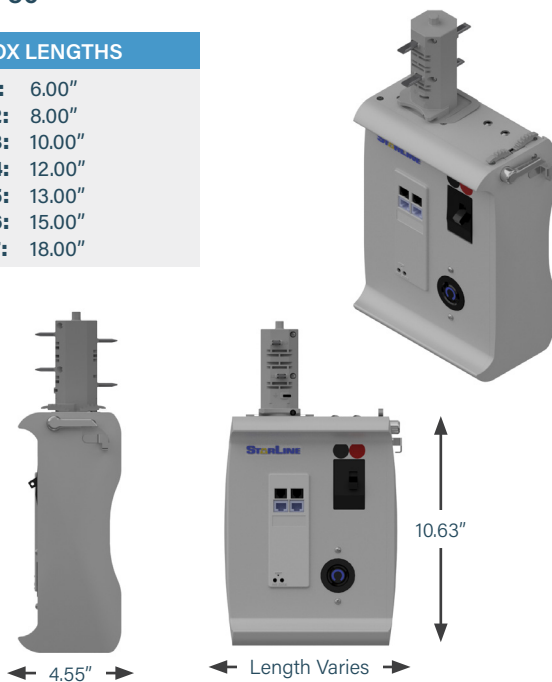
### ■ 37



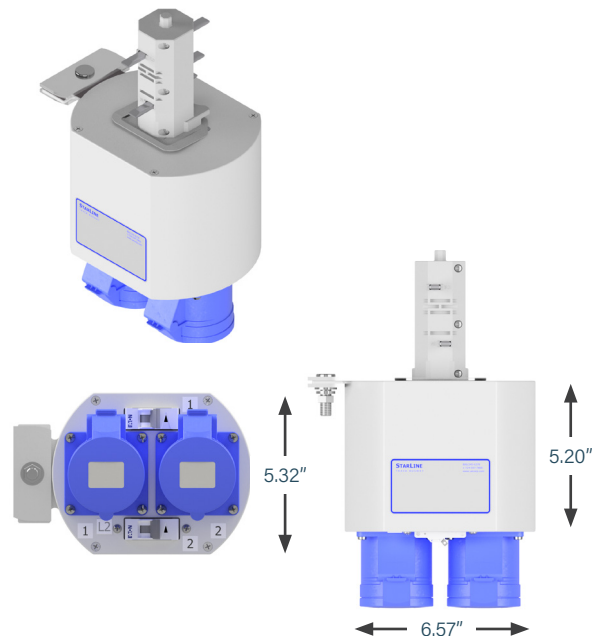
### ■ 50

#### BOX LENGTHS

- 51:** 6.00"
- 52:** 8.00"
- 53:** 10.00"
- 54:** 12.00"
- 55:** 13.00"
- 56:** 15.00"
- 57:** 18.00"



### ■ 71



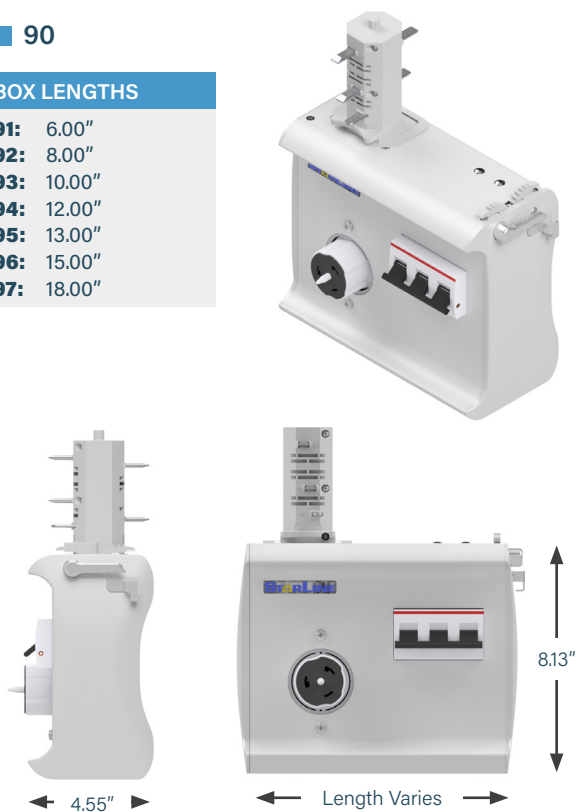
# T5 PLUG-IN UNITS

## BOX SIZES & STYLES

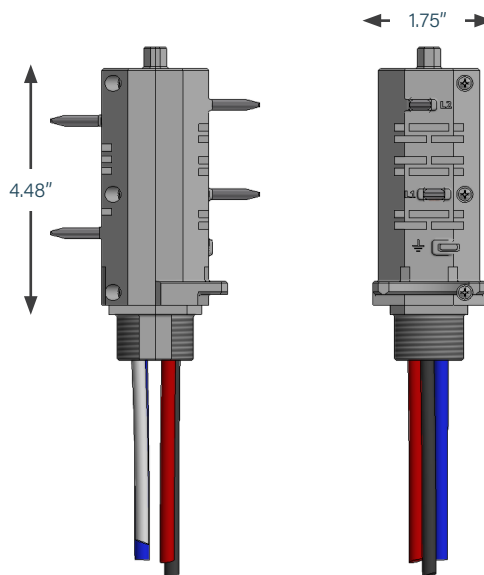
### 90

#### BOX LENGTHS

<b>91:</b>	6.00"
<b>92:</b>	8.00"
<b>93:</b>	10.00"
<b>94:</b>	12.00"
<b>95:</b>	13.00"
<b>96:</b>	15.00"
<b>97:</b>	18.00"



### T5 PADDLE



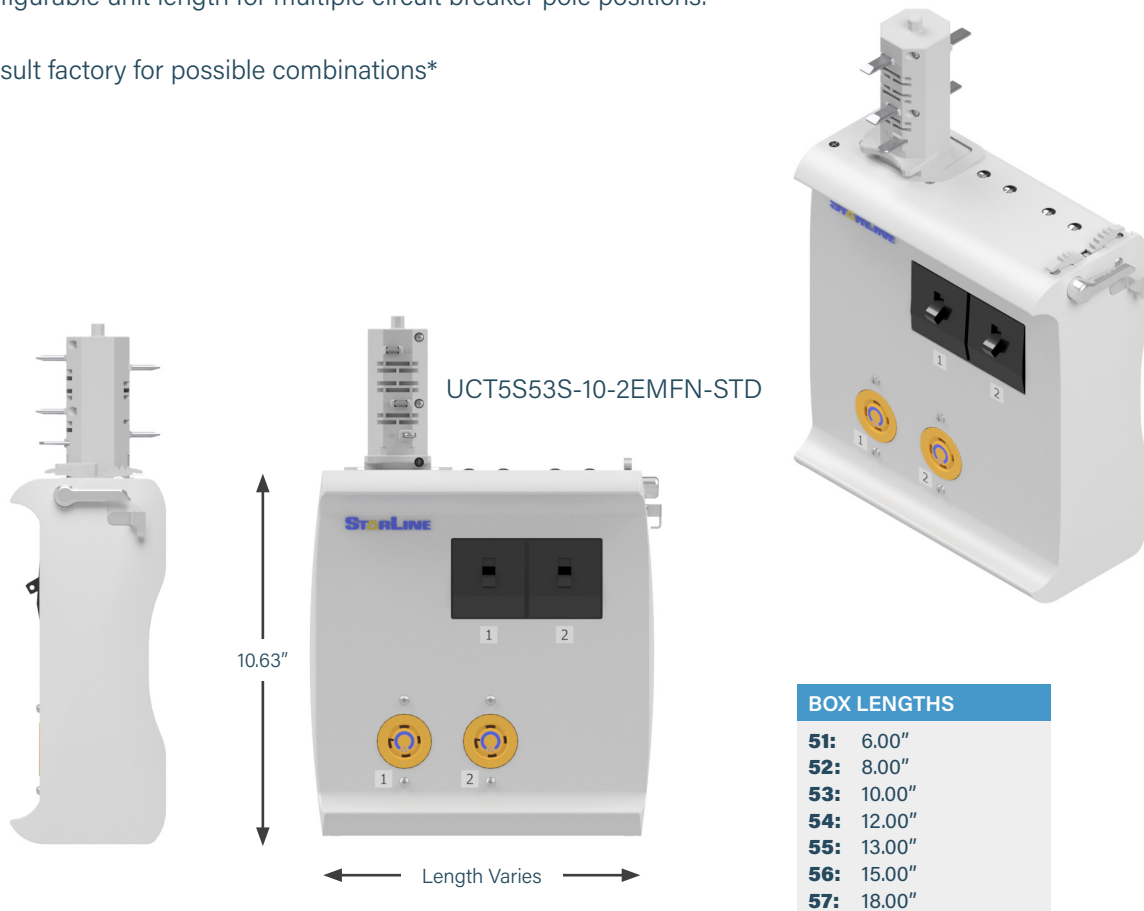
# T5 PLUG-IN UNITS

## 50 SERIES ENCLOSURE CUT SHEET

### PRODUCT DESCRIPTION

Next-generation, custom engineered enclosure that features a stylish exterior combined with a spacious interior and customizable body length to accommodate a wide variety of applications. The 50 Series enclosure is designed to tap off power from the busway. The option is available to have a reverse paddle such that the enclosure faces in the opposite direction when in the busway.

- Configurable unit length for multiple circuit breaker pole positions.
- Consult factory for possible combinations\*



### EXAMPLES

**UCT5C54S-22-2ACFN-STD** = US, Circuit Breaker Plug, T5 Systems, Case (Housing) Ground, 54 Box, Standard Orientation, 22 Interrupt Rating, 2 Devices, L21-30, Front Located, No Accessories, Painted Factory Silver

**UCT5G53S-10-2EMFN-STD** = US, Circuit Breaker Plug, T5 Systems, Isolated (Separate) Ground, 53 Box, Standard Orientation, 10 Interrupt Rating, 2 Devices, IGL15-30, Front Located, No Accessories, Painted Factory Silver

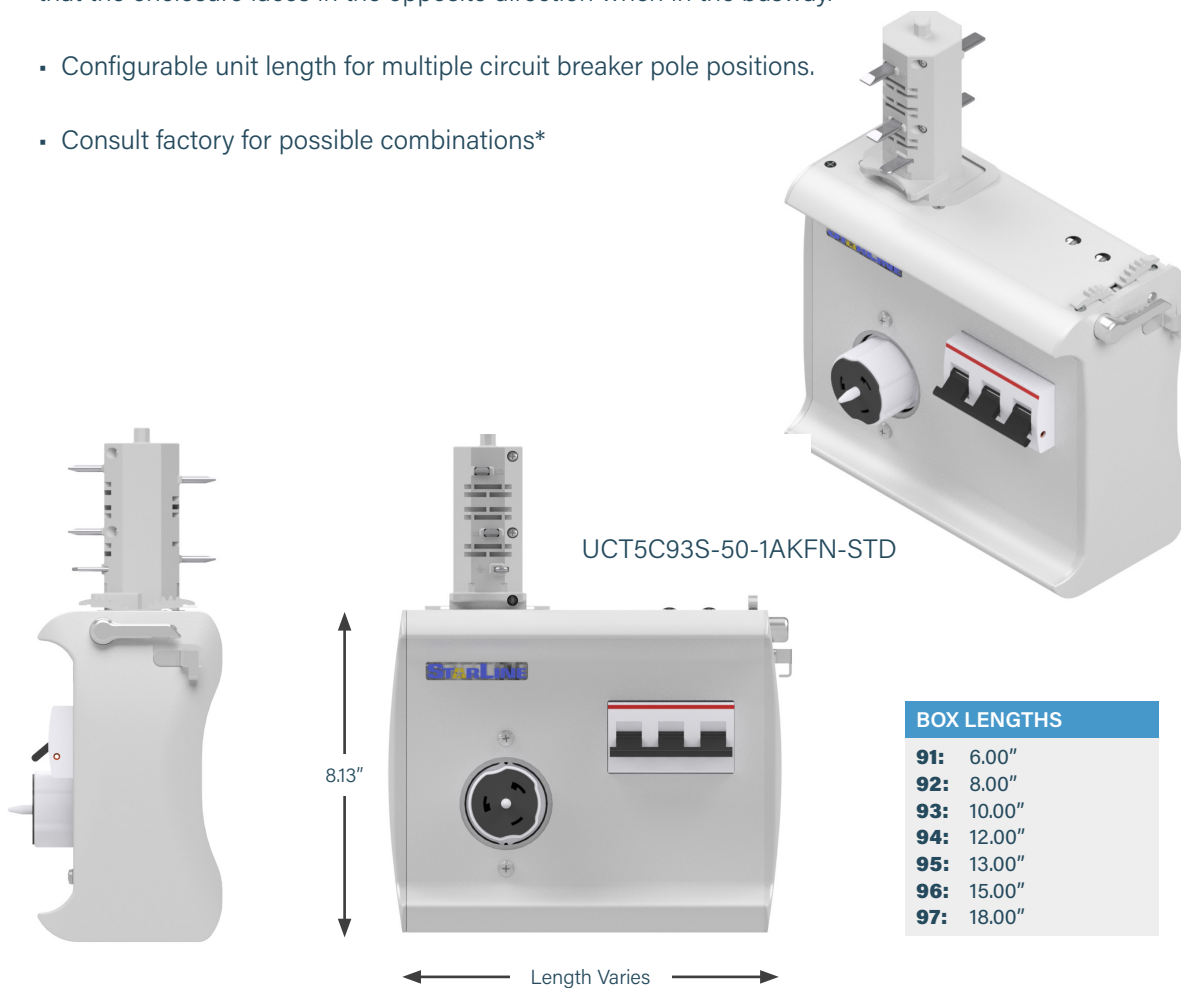
# T5 PLUG-IN UNITS

## 90 SERIES ENCLOSURE CUT SHEET

### PRODUCT DESCRIPTION

Next-generation, custom engineered enclosure that features a stylish exterior combined with a spacious interior and customizable body length to accommodate a wide variety of applications. The 90 Series enclosure is designed to tap off power from the busway. The option is available to have a reverse paddle such that the enclosure faces in the opposite direction when in the busway.

- Configurable unit length for multiple circuit breaker pole positions.
- Consult factory for possible combinations\*



### EXAMPLES

**UCT5C93S-50-1AKFN-STD** = US, Circuit Breaker Plug, T5 Systems, Case (Housing) Ground, 93 Box, Standard Orientation, 50 Interrupt Rating, 1 Device, CS8369, Front Located, No Accessories, Painted Factory Silver

**UCT5C94S-10-2BGB050F-STD** = US, Circuit Breaker Plug, T5 Systems, Case (Housing) Ground, 94 Box, Standard Orientation, 10 Interrupt Rating, 2 Devices, I6-30, Bottom Located, 5 foot Drop Cord, Finger Shroud, Painted Factory Silver

# T5 PLUG-IN UNITS

## DEVICE CODE TABLE

NEMA Connectors				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
BS	5-15C	Connector	120	1PNG
FF	5-15Q-X	Connector	120	1PNG
BD	5-20C	Connector	120	1PNG
FG	5-20-Q-X	Connector	120	1PNG
BB	6-15C	Connector	240	2PG
FH	6-15Q-X	Connector	240	2PG
BC	6-20C	Connector	240	2PG
FI	6-20Q-X	Connector	240	2PG
CO	L14-20C	Connector	120/208	2PNG
CN	L14-30C	Connector	120/208	2PNG
CM	L15-20C	Connector	240	3PG
CL	L15-30C	Connector	240	3PG
CE	L16-20C	Connector	480	3PG
CD	L16-30C	Connector	480	3PG
CS	L21-20C	Connector	120/208	3PNG
CT	L21-30C	Connector	120/208	3PNG
FA	L22-20C	Connector	277/480	3PNG
EZ	L22-30C	Connector	277/480	3PNG
BR	L5-15C	Connector	120	1PNG
BE	L5-20C	Connector	120	1PNG
BF	L5-30C	Connector	120	1PNG
BA	L6-15C	Connector	240	2PG
BH	L6-20C	Connector	240	2PG
BG	L6-30C	Connector	240	2PG
CK	L7-15C	Connector	277	1PNG
CJ	L7-20C	Connector	277	1PNG
CF	L7-30C	Connector	277	1PNG

### WIRING CONFIGURATION REFERENCE TABLE

1 = Number of poles

P = Poles

N = Neutral

G = Ground

Pin & Sleeve Connectors				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
BJ	360C6W	Connector	240	2PG
BQ	420C6W	Connector	240	2PNG
BW	430C7W	Connector	480	3PG
BP	430C9W	Connector	240	3PG
BX	460C7W	Connector	480	3PG
EJ	460C9S	Connector	240	3PG
EI	460C9W	Connector	240	3PG
BZ	520C6S	Connector	240/415	3PNG
CC	530C6S	Connector	240/415	3PNG
EX	530C6W	Connector	240/415	3PNG



# T5 PLUG-IN UNITS

## DEVICE CODE TABLE

Pin & Sleeve Connectors (Continued)				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
<b>CH</b>	530C7S	Connector	480	3PNG
<b>BI</b>	530C9W	Connector	240/415	3PNG
<b>CB</b>	560C6S	Connector	240/415	3PNG
<b>CI</b>	560C7S	Connector	480	3PNG
<b>EH</b>	560C9W	Connector	120/208	3PNG
<b>BV</b>	320C6S	Connector	240	2PG
<b>BU</b>	330C6S	Connector	240	2PG
<b>BT</b>	360C6S	Connector	240	2PG
<b>BO</b>	560C9S	Connector	120/208	3PNG

### WIRING CONFIGURATION REFERENCE TABLE

1 = Number of poles

P = Poles

N = Neutral

G = Ground

NEMA Receptacles				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
<b>DD</b>	14-20R	Receptacle	120/208	2PNG
<b>DC</b>	14-30R	Receptacle	120/208	2PNG
<b>CW</b>	14-50R	Receptacle	120/208	2PNG
<b>CV</b>	14-60R	Receptacle	120/208	2PNG
<b>CU</b>	15-20R	Receptacle	240	3PG
<b>CY</b>	15-30R	Receptacle	240	3PG
<b>DI</b>	15-50R	Receptacle	240	3PG
<b>DH</b>	15-60R	Receptacle	240	3PG
<b>AW</b>	5-15D	Receptacle	120	1PNG
<b>FB</b>	5-15Q	Receptacle	120	1PNG
<b>DN</b>	5-15R	Receptacle	120	1PNG
<b>AB</b>	5-20D	Receptacle	120	1PNG
<b>DL</b>	5-20D-GFI	Receptacle	120	1PNG
<b>FC</b>	5-20Q	Receptacle	120	1PNG
<b>DM</b>	5-20R	Receptacle	120	1PNG
<b>DV</b>	5-30R	Receptacle	120	1PNG
<b>GB</b>	6-15D	Receptacle	240	2PG
<b>FD</b>	6-15Q	Receptacle	240	2PG
<b>DU</b>	6-15R	Receptacle	240	2PG
<b>GC</b>	6-20D	Receptacle	240	2PG
<b>FE</b>	6-20Q	Receptacle	240	2PG
<b>DO</b>	6-20R	Receptacle	240	2PG
<b>DR</b>	6-30R	Receptacle	240	2PG
<b>DA</b>	6-50R	Receptacle	240	2PG
<b>CZ</b>	L14-20R	Receptacle	120/208	2PNG
<b>DB</b>	L14-30R	Receptacle	120/208	2PNG
<b>CX</b>	L15-20R	Receptacle	240	3PG
<b>AH</b>	L15-30R	Receptacle	240	3PG
<b>EO</b>	L16-20R	Receptacle	480	3PG

# T5 PLUG-IN UNITS

## DEVICE CODE TABLE

NEMA Receptacles (Continued)				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
<b>EQ</b>	L16-30R	Receptacle	480	3PG
<b>AT</b>	L21-20R	Receptacle	120/208	3PNG
<b>AC</b>	L21-30R	Receptacle	120/208	3PNG
<b>AA</b>	L22-20R	Receptacle	277/480	3PNG
<b>AF</b>	L22-30R	Receptacle	277/480	3PNG
<b>AS</b>	L5-15D	Receptacle	120	1PNG
<b>AP</b>	L5-15R	Receptacle	120	1PNG
<b>AG</b>	L5-20R	Receptacle	120	1PNG
<b>AO</b>	L5-30R	Receptacle	120	1PNG
<b>DP</b>	L6-15D	Receptacle	240	2PG
<b>DQ</b>	L6-15R	Receptacle	240	2PG
<b>AI</b>	L6-20R	Receptacle	240	2PG
<b>AD</b>	L6-30R	Receptacle	240	2PG
<b>ES</b>	L7-15D	Receptacle	277	1PNG
<b>ER</b>	L7-15R	Receptacle	277	1PNG
<b>AQ</b>	L7-20R	Receptacle	277	1PNG
<b>EP</b>	L7-30R	Receptacle	277	1PNG

### WIRING CONFIGURATION REFERENCE TABLE

1 = Number of poles

P = Poles

N = Neutral

G = Ground

Pin & Sleeve Receptacles				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
<b>FJ</b>	316A6S	Receptacle	240/415	2PG
<b>FK</b>	316A6W	Receptacle	240/415	2PG
<b>FL</b>	316R6S	Receptacle	240/415	2PG
<b>FM</b>	320A6S	Receptacle	240/415	2PG
<b>FN</b>	320A6W	Receptacle	240/415	2PG
<b>FO</b>	332A6S	Receptacle	240/415	2PG
<b>FP</b>	332A6W	Receptacle	240/415	2PG
<b>FQ</b>	332A9S	Receptacle	240/415	2PG
<b>FR</b>	332R6S	Receptacle	240/415	2PG
<b>DG</b>	360R6W	Receptacle	240	2PG
<b>FS</b>	363R6S	Receptacle	240/415	2PG
<b>DF</b>	430R9W	Receptacle	240	3PG
<b>AU</b>	460R9S	Receptacle	240	3PG
<b>AN</b>	460R9W	Receptacle	240	3PG
<b>FT</b>	5125R6S	Receptacle	240/415	3PNG
<b>FU</b>	516A6S	Receptacle	240/415	3PNG
<b>FV</b>	516A6W	Receptacle	240/415	3PNG
<b>FW</b>	516R6S	Receptacle	240/415	3PNG
<b>FX</b>	520A6W	Receptacle	240/415	3PNG
<b>FY</b>	520R6S	Receptacle	240/415	3PNG
<b>AR</b>	530R6S	Receptacle	240/415	3PNG
<b>FZ</b>	532A6S	Receptacle	240/415	3PNG
<b>GA</b>	532A6W	Receptacle	240/415	3PNG

# T5 PLUG-IN UNITS

## DEVICE CODE TABLE

Pin & Sleeve Receptacles (Continued)				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
<b>BY</b>	560R6S	Receptacle	240/415	3PNG
<b>DS</b>	360C4W	Receptacle	120	1PNG

Isolated Ground Receptacles				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
<b>EN</b>	IG14-30R	Receptacle	120/208	2PNG
<b>AX</b>	IG5-20D	Receptacle	120	1PNG
<b>EA</b>	IG5-20R	Receptacle	120	1PNG
<b>DY</b>	IG6-20D	Receptacle	240	2PG
<b>DZ</b>	IG6-20R	Receptacle	240	2PG
<b>EK</b>	IGL14-20R	Receptacle	120/208	2PNG
<b>ET</b>	IGL15-20R	Receptacle	240	3PG
<b>EM</b>	IGL15-30R	Receptacle	240	3PG
<b>EL</b>	IGL21-20R	Receptacle	120/208	3PNG
<b>EG</b>	IGL21-30R	Receptacle	120/208	3PNG
<b>EU</b>	IGL22-20R	Receptacle	277/480	3PNG
<b>EV</b>	IGL22-30R	Receptacle	277/480	3PNG
<b>EB</b>	IGL5-15R	Receptacle	120	1PNG
<b>AY</b>	IGL5-20R	Receptacle	120	1PNG
<b>ED</b>	IGL5-30R	Receptacle	120	1PNG
<b>DW</b>	IGL6-15D	Receptacle	240/415	2PG
<b>DX</b>	IGL6-15R	Receptacle	240/415	2PG
<b>AM</b>	IGL6-20R	Receptacle	240/415	2PG
<b>AZ</b>	IGL6-30R	Receptacle	240/415	2PG

California Connectors				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
<b>CP</b>	CS6360C	Connector	120	1PNG
<b>CG</b>	CS8164C	Connector	480	3PG
<b>CR</b>	CS8264C	Connector	240	2PG
<b>CQ</b>	CS8364C	Connector	240	3PG

California Receptacles				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
<b>DK</b>	CS6369	Receptacle	120/208	2PNG
<b>DE</b>	CS8269	Receptacle	240	2PG
<b>AK</b>	CS8369	Receptacle	240	3PG

Other				
Device Code	Device Designation	Type	Voltage	Wiring Configuration
<b>XX</b>	Custom Device (ex: colored receptacle, etc.)			

### WIRING CONFIGURATION REFERENCE TABLE

1 = Number of poles

P = Poles

N = Neutral

G = Ground

# S5 PLUG-IN UNITS

## S5 PLUG-IN UNITS

### ■ PRODUCT DESCRIPTION

S5 Plug-in Units are designed to provide the same "plug and play" flexibility for our S5 systems. These Plug-In units have been tested and certified to meet the additional ingress protection levels of the overall system.

### OPTIONS:

1. Receptacle Box/Drop Cord Units
2. Circuit Breaker Units only
3. Meter Plugs

### GENERAL SPECS:

- Three (3) Standard size enclosures
  - ES1 – Up to 3 poles available
  - ES2 – Up to 6 poles available
  - ES3 – Up to 9 poles available
- Clear cover protects breakers and meter while maintaining status visibility
- UV, Corrosion, and impact-resistant materials
- NEMA & IEC watertight devices available
- Breaker actuators for floor operability
- Lock-out lids and breaker
- Up to 125A per box
- 65kA Short Circuit rating @480V
- Compatible with Starline meters
- Wide range of configuration options

**Note:** Series-S Plug-in Units come standard with tap-off seal assembly. Reference T5 Accessories **page 4.110** to order separately.



# S5 PLUG-IN UNITS

## SERIES-S ENCLOSURE STYLE OPTIONS

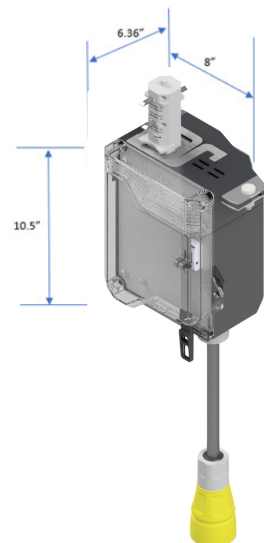
### ■ ES1 ENCLOSURE

#### Dimensions(in):

H: 10.5"  
W: 8"  
D: 6.36"

#### Configuration Options:

- Up to 3 Poles
- Up to 3 drop cords
- Meter available
- 1 Bottom-Mounted receptacle



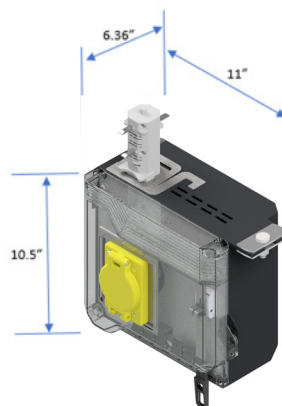
### ■ ES2 ENCLOSURE

#### Dimensions(in):

H: 10.5"  
W: 11"  
D: 6.36"

#### Configuration Options:

- Up to 6 Poles
- Up to 6 drop cords
- Meter available
- Up to 1 Front-Mounted or 2 Bottom-Mounted receptacles



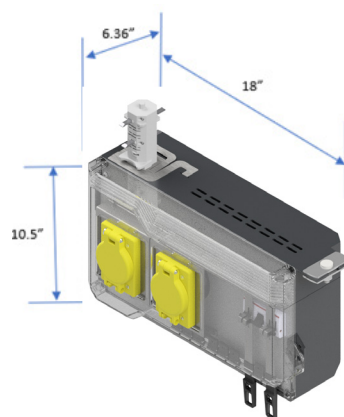
### ■ ES3 ENCLOSURE

#### Dimensions(in):

H: 10.5"  
W: 18"  
D: 6.36"

#### Configuration Options:

- Up to 9 Poles
- Up to 9 drop cords
- Meter available
- Up to 2 Front-Mounted or 3 Bottom-Mounted receptacles



# S5 PLUG-IN UNITS

## SYSTEM & BUILD GUIDE

The below is a suggested list of questions to determine answers to in order to properly build or assemble both Track Busway systems and plugs.

### WHEN BUILDING SYSTEMS

1. What is the amperage needed for the system? (250, 400, 500, etc..)
2. Does the system need an internal ground?
3. Are there any limitations on the length of a run? (5ft max, 10ft max)

### WHEN DETERMINING DESIRED PLUG CONFIGURATIONS

1. What type of system is this being used on? (S5)
2. Does the system have an internal ground? If so, does the plug need to be wired Isolated or Dedicated ground/earth?
3. What is the fault current needed for the breaker? (10kAIC, 22kAIC, etc..)
4. Does the plug need to have drop cords or receptacles?
5. What is the device configuration of the connector bodies or receptacles?
6. What is your desired MCB configuration? (phase, amperage, poles?)
7. Do you require metering?
8. How many outlets are needed?
9. What is the trip curve needed?
10. What MCB brand is preferred?
11. What is the voltage required?

# S5 PLUG-IN UNITS

## CIRCUIT BREAKER/FUSED DISCONNECT UNITS W/ DEVICES: PRODUCT NUMBERS

<b>U</b>	<b>C</b>	<b>S5</b>	<b>C</b>	<b>S3</b>	<b>S</b>	<b>-</b>	<b>14</b>	<b>-</b>	<b>1</b>	
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity			
<b>RU</b>	<b>F</b>	<b>010</b>	<b>N</b>	<b>-</b>	<b>M51</b>	<b>D</b>	<b>-</b>	<b>STD</b>	<b>0</b>	<i>*Optional</i>
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options	15. Paint Color	*16. Drop Cord Tape Marking			

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	<b>12. Accessories</b> <i>(optional accessories for plugs)</i> <b>N</b> N/A
<b>2. Product Type</b> <i>(section component)</i> <b>C</b> Circuit Breaker Unit <b>F</b> Fused Disconnect Unit	<b>*13. Meter Release (M50 AC)</b> <b>V51</b> Single Eth./WiFi, ≤480V Y, ≤277V Δ <b>V53</b> Single Eth./No WiFi, ≤480V Y, ≤277V Δ <b>V58</b> Dual Eth., ≤480V Y, ≤277V Δ <b>V59</b> Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ <b>V56</b> Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ, Breaker Monitoring <b>V57</b> Dual Eth, Breaker Monitoring ≤480V Y, ≤277V Δ
<b>3. Compatibility</b> <i>(frame compatibility)</i> <b>S5</b> S5 System	<b>*13. Meter Release (M60 DC)</b> <b>M61</b> Single Eth./WiFi, single phase, VDC <b>M63</b> Single Eth./No WiFi, single phase, VDC <b>M67</b> Dual Eth., single phase, VDC <b>M69</b> Dual Eth./Dual Modbus, single phase, VDC
<b>4. Ground</b> <i>(ground type installed)</i> <b>C</b> Case (Housing) Ground <b>D</b> Dedicated Ground <b>G</b> Isolated (Separate) Ground	<b>*14. Meter Options (M50 AC)</b> <b>S</b> Standard <b>N</b> (Measured) Neutral <b>D</b> Display <b>P</b> Professional (D+N)
<b>5. Box</b> <i>(what size enclosure)</i> <b>S1, S2, or S3</b> (refer to S5 Enclosure Style Options, page 4.144)	<b>*14. Meter Options (M60 DC)</b> <b>S</b> Standard (High Voltage) <b>P</b> Standard (48 VDC) <b>D</b> Display (High Voltage) <b>Q</b> Display (48 VDC) <i>M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC (+/-60) to 380 VDC (+/-180) OR Low Voltage: 48 VDC</i>
<b>6. Orientation</b> <i>(what direction the paddle faces)</i> <b>S</b> Standard <b>R</b> Reversed	<b>15. Paint Color</b> <b>STD</b> Standard Dark Gray <b>NOTE:</b> Consult Factory for other options
<b>7. Interrupt Rating</b> <i>(interrupt rating of the breakers in K)</i> <b>10, 14, 22, 25, 30, 35, 50, 65, CC (CC = 200,000)</b> (for U.S.)	<b>16. Drop Cord Tape Marking</b> <b>3</b> Tape Factory Black <b>7</b> Tape Factory Blue <b>4</b> Tape Factory White <b>8</b> Tape Factory Green <b>6</b> Tape Factory Red <b>9</b> Tape Factory Yellow
<b>8. Device Quantity</b> <i>(quantity of device 1)</i> <b>1, 2, 3, 4, 5, 6, 7, 8</b> (for more than 1 device type, refer to S5 Device Code Table, page 4.147)	
<b>9. Device</b> <i>(quantity of device 1)</i> <b>AA, AB, ...ZZ</b> (refer to S5 Device Code Table, page 4.147)	
<b>*10. Mount Location</b> <i>(with respect to busway polarizing stripe)</i> <b>F</b> Front <b>B</b> Bottom	
<b>*11. Drop Cord Length</b> <i>(location of optional meter)</i> <b>XXY:</b> XX = feet, Y = Inches (010 = 1 foot, 0 inches) <i>(only can be chosen in 6" increments)</i> <b>***For any device configuration chosen over 70 amps, the max. drop cord length is 10 feet (100)</b>	

### EXAMPLE

**UCS5CS3S-22-2QSFN-STD0** = US System, circuit Breaker Only Unit, S5 System, Case Ground, S3 Box, Standard Orientation, 22kA interrupt rating, 2 devices, NEMA L5-15R-IP receptacles, front mount location, no accessories, no meter, standard dark gray color

# S5 PLUG-IN UNITS

## US DEVICE CODE TABLE

NEMA Connectors							
Code	Type	Designation	Device Type	Voltage	Amperage	Wiring Configuration	IP Rating
RU	NEMA	5-15C-IP	CONNECTOR	120	15	1PNG	IP67
PV	NEMA	L5-15C-IP	CONNECTOR	120	15	1PNG	IP67
RV	NEMA	6-15C-IP	CONNECTOR	240	15	2PG	IP67
PW	NEMA	L6-15C-IP	CONNECTOR	240	15	2PG	IP67
PX	NEMA	L7-15C-IP	CONNECTOR	277	15	1PNG	IP67
RW	NEMA	5-20C-IP	CONNECTOR	120	20	1PNG	IP67
PY	NEMA	L5-20C-IP	CONNECTOR	120	20	1PNG	IP67
RX	NEMA	6-20C-IP	CONNECTOR	240	20	2PG	IP67
PZ	NEMA	L6-20C-IP	CONNECTOR	240	20	2PG	IP67
QC	NEMA	L15-20C-IP	CONNECTOR	240	20	3PG	IP67
QA	NEMA	L7-20C-IP	CONNECTOR	277	20	1PNG	IP67
QD	NEMA	L16-20C-IP	CONNECTOR	480	20	3PG	IP67
QG	NEMA	L23-20C-IP	CONNECTOR	600	20	3PNG	IP67
QB	NEMA	L14-20C-IP	CONNECTOR	120/208	20	2PNG	IP67
QE	NEMA	L21-20C-IP	CONNECTOR	120/208	20	3PNG	IP67
QF	NEMA	L22-20C-IP	CONNECTOR	277/480	20	3PNG	IP67
QH	NEMA	L5-30C-IP	CONNECTOR	120	30	1PNG	IP67
QI	NEMA	L6-30C-IP	CONNECTOR	240	30	2PG	IP67
QL	NEMA	L15-30C-IP	CONNECTOR	240	30	3PG	IP67
QJ	NEMA	L7-30C-IP	CONNECTOR	277	30	1PNG	IP67
QM	NEMA	L16-30C-IP	CONNECTOR	480	30	3PG	IP67
QN	NEMA	L17-30C-IP	CONNECTOR	600	30	3PG	IP67
QR	NEMA	L23-30C-IP	CONNECTOR	600	30	3PNG	IP67
QK	NEMA	L14-30C-IP	CONNECTOR	120/208	30	2PNG	IP67
QO	NEMA	L18-30C-IP	CONNECTOR	120/208	30	3PG	IP67
QP	NEMA	L21-30C-IP	CONNECTOR	120/208	30	3PNG	IP67
QQ	NEMA	L22-30C-IP	CONNECTOR	277/480	30	3PNG	IP67

### WIRING CONFIGURATION REFERENCE TABLE

1 = Number of poles

P = Poles

N = Neutral

G = Ground



# S5 PLUG-IN UNITS

## US DEVICE CODE TABLE

Pin & Sleeve Connectors							
Code	Type	Designation	Device Type	Voltage	Amperage	Wiring Configuration	IP Rating
SU	IEC	320C7W	CONNECTOR	480	20	2PG	IP67
SY	IEC	420C7W	CONNECTOR	480	20	3PG	IP67
TA	IEC	320C9W	CONNECTOR	120/208	20	2PG	IP67
SZ	IEC	520C7W	CONNECTOR	277/480	20	3PNG	IP67
SV	IEC	330C7W	CONNECTOR	480	30	2PG	IP67
TB	IEC	330C9W	CONNECTOR	120/208	30	2PG	IP67
SW	IEC	360C7W	CONNECTOR	240	60	2PG	IP67
TC	IEC	360C9W	CONNECTOR	120/208	60	2PG	IP67
SX	IEC	3100C7W	CONNECTOR	480	100	2PG	IP67
TD	IEC	3100C9W	CONNECTOR	120/208	100	2PG	IP67
BI	IEC	530C9W	CONNECTOR	120/208	30	3PNG	IP67
BP	IEC	430C9W	CONNECTOR	250	30	3PG	IP67
BW	IEC	430C7W	CONNECTOR	480	30	3PG	IP67
BX	IEC	460C7W	CONNECTOR	480	60	3PG	IP67
EH	IEC	560C9W	CONNECTOR	120/208	60	3PNG	IP67
EI	IEC	460C9W	CONNECTOR	250	60	3PG	IP67
GI	IEC	4100C9W	CONNECTOR	250	100	3PG	IP67
GJ	IEC	560C7W	CONNECTOR	277/480	60	3PNG	IP67
GK	IEC	530C7W	CONNECTOR	277/480	30	3PNG	IP67
GR	IEC	5100C7W	CONNECTOR	277/480	100	3PNG	IP67
GS	IEC	5100C9W	CONNECTOR	120/208	100	3PNG	IP67
MK	IEC	4100C7W	CONNECTOR	480	100	3PG	IP67
NL	IEC	420C9W	CONNECTOR	250	20	3PG	IP67

### WIRING CONFIGURATION REFERENCE TABLE

1 = Number of poles

P = Poles

N = Neutral

G = Ground

# S5 PLUG-IN UNITS

## US DEVICE CODE TABLE

NEMA Receptacles							
Code	Type	Designation	Device Type	Voltage	Amperage	Wiring Configuration	IP Rating
RQ	NEMA	5-15R-IP	RECEPTACLE	120	15	1PNG	IP67
QS	NEMA	L5-15R-IP	RECEPTACLE	120	15	1PNG	IP67
RR	NEMA	6-15R-IP	RECEPTACLE	240	15	2PG	IP67
QT	NEMA	L6-15R-IP	RECEPTACLE	240	15	2PG	IP67
QU	NEMA	L7-15R-IP	RECEPTACLE	277	15	1PNG	IP67
RS	NEMA	5-20R-IP	RECEPTACLE	120	20	1PNG	IP67
QV	NEMA	L5-20R-IP	RECEPTACLE	120	20	1PNG	IP67
RT	NEMA	6-20R-IP	RECEPTACLE	240	20	2PG	IP67
QW	NEMA	L6-20R-IP	RECEPTACLE	240	20	2PG	IP67
QZ	NEMA	L15-20R-IP	RECEPTACLE	240	20	3PG	IP67
QX	NEMA	L7-20R-IP	RECEPTACLE	277	20	1PNG	IP67
RA	NEMA	L16-20R-IP	RECEPTACLE	480	20	3PG	IP67
RD	NEMA	L23-20R-IP	RECEPTACLE	600	20	3PNG	IP67
QY	NEMA	L14-20R-IP	RECEPTACLE	120/208	20	2PNG	IP67
RB	NEMA	L21-20R-IP	RECEPTACLE	120/208	20	3PNG	IP67
RC	NEMA	L22-20R-IP	RECEPTACLE	277/480	20	3PNG	IP67
RE	NEMA	L5-30R-IP	RECEPTACLE	120	30	1PNG	IP67
RF	NEMA	L6-30R-IP	RECEPTACLE	240	30	2PG	IP67
RI	NEMA	L15-30R-IP	RECEPTACLE	240	30	3PG	IP67
RG	NEMA	L7-30R-IP	RECEPTACLE	277	30	1PNG	IP67
RJ	NEMA	L16-30R-IP	RECEPTACLE	480	30	3PG	IP67
RK	NEMA	L17-30R-IP	RECEPTACLE	600	30	3PG	IP67
RN	NEMA	L23-30R-IP	RECEPTACLE	600	30	3PNG	IP67
RH	NEMA	L14-30R-IP	RECEPTACLE	120/208	30	2PNG	IP67
RL	NEMA	L21-30R-IP	RECEPTACLE	120/208	30	3PNG	IP67
RM	NEMA	L22-30R-IP	RECEPTACLE	277/480	30	3PNG	IP67

### WIRING CONFIGURATION REFERENCE TABLE

1 = Number of poles  
 P = Poles  
 N = Neutral  
 G = Ground

# S5 PLUG-IN UNITS

## US DEVICE CODE TABLE

Pin & Sleeve Receptacles							
Code	Type	Designation	Device Type	Voltage	Amperage	Wiring Configuration	IP Rating
SN	IEC	420R9W	RECEPTACLE	240	20	3PG	IP67
RY	IEC	320R7W	RECEPTACLE	480	20	2PG	IP67
SC	IEC	420R7W	RECEPTACLE	480	20	3PG	IP67
SQ	IEC	520R9W	RECEPTACLE	120/208	20	3PNG	IP67
SG	IEC	520R7W	RECEPTACLE	277/480	20	3PNG	IP67
RZ	IEC	330R7W	RECEPTACLE	480	30	2PG	IP67
SD	IEC	430R7W	RECEPTACLE	480	30	3PG	IP67
SR	IEC	530R9W	RECEPTACLE	120/208	30	3PNG	IP67
SA	IEC	360R7W	RECEPTACLE	480	60	2PG	IP67
SH	IEC	560R7W	RECEPTACLE	277/480	60	3PNG	IP67
SE	IEC	460R7W	RECEPTACLE	480	60	3PG	IP67
SO	IEC	460R9W	RECEPTACLE	120/208	60	3PG	IP67
SS	IEC	560R9W	RECEPTACLE	120/208	60	3PNG	IP67
SB	IEC	3100R7W	RECEPTACLE	480	100	2PG	IP67
SF	IEC	4100R7W	RECEPTACLE	480	100	3PG	IP67
SP	IEC	4100R9W	RECEPTACLE	120/208	100	3PG	IP67
ST	IEC	5100R9W	RECEPTACLE	120/208	100	3PNG	IP67
SI	IEC	5100R7W	RECEPTACLE	277/480	100	3PNG	IP67

### WIRING CONFIGURATION REFERENCE TABLE

1 = Number of poles

P = Poles

N = Neutral

G = Ground

## CIRCUIT BREAKER/FUSED DISCONNECT UNITS, NO DEVICES: PRODUCT NUMBERS

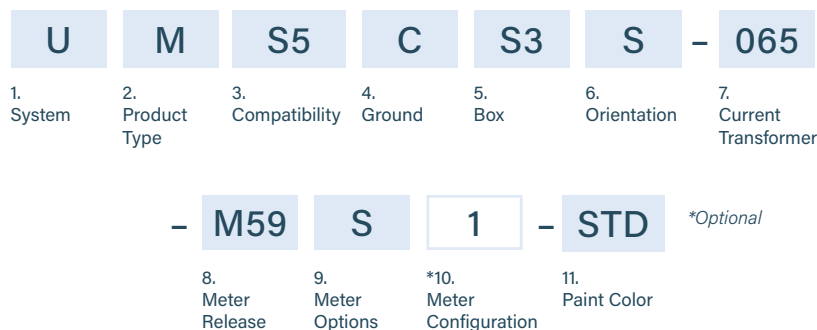
<div><div>U</div><div>C</div><div>S5</div><div>C</div><div>S2</div><div>S</div><div>-</div><div>14</div><div>-</div></div>											
<div><div>1. System</div><div>2. Product Type</div><div>3. Compatibility</div><div>4. Ground</div><div>5. Box</div><div>6. Orientation</div><div>7. Interrupt Rating</div></div>											
<div><div>2</div><div>030</div><div>3</div><div>480</div><div>050</div><div>5</div><div>N</div><div>-</div><div>M59</div><div>D</div><div>3</div><div>-</div><div>STD</div><div>0</div><div>*Optional</div></div>											
<div><div>8. Circuit Protection Quantity</div><div>9. Amperage</div><div>10. Poles</div><div>11. Voltage</div><div>*12. Drop Cord Length</div><div>*13. Number of Wires</div><div>14. Accessories</div><div>15. Meter</div><div>16. Meter Options</div><div>17. Meter Configuration</div><div>18. Paint Color</div><div>*19. Drop Cord Tape Marking</div></div>											

<b>1. System</b> <i>(standard of measure)</i> <b>U</b> US	
<b>2. Product Type</b> <i>(section component)</i> <b>C</b> Circuit Breaker Unit <b>F</b> Fused Disconnect Unit	
<b>3. Compatibility</b> <i>(frame compatibility)</i> <b>S5</b> S5 System	
<b>4. Ground</b> <i>(ground type installed)</i> <b>C</b> Case (Housing) Ground <b>D</b> Dedicated Ground <b>G</b> Isolated (Separate) Ground	
<b>5. Box</b> <i>(what size enclosure)</i> <b>S1, S2, S3</b> (refer to S5 Enclosure Style Options, page 4.144)	
<b>6. Orientation</b> <i>(what direction the paddle faces)</i> <b>S</b> Standard <b>R</b> Reversed	
<b>7. Interrupt Rating</b> <i>(interrupt rating of the breakers in K)</i> <b>10, 14, 22, 25, 30, 35, 50, 65, CC (CC = 200,000)</b> (for US)	
<b>8. Circuit Protection Quantity</b> <b>1, 2, 3, 4, 5, 6</b>	
<b>9. Amperage</b> <b>015, 020, 030, 60, 100</b>	
<b>10. Poles</b> <i>(number of poles in a circuit)</i> <b>1, 2, 3, 4, 5</b>	
<b>11. Voltage</b> <b>120, 240, 277, 300, 415, 480, 600</b>	
<b>*12. Drop Cord Length</b> <i>(length of drop cord)</i> <b>010</b> 1 foot <b>XXY</b> XX=feet, Y=inches <i>(only can be chosen in 6" increments) For any device configuration chosen over 70 amps, the max. drop cord length is 10 feet (100)</i>	
<b>*13. Number of Wires</b> <i>(M50 AC)</i> <b>2, 3, 4, 5</b>	
<b>14. Accessories</b> <i>(optional accessories for plugs)</i> <b>N</b> N/A	
<b>15. Meter</b> <b>M51</b> Single Eth./WiFi, ≤480V Y, ≤277V Δ <b>M53</b> Single Eth./No WiFi, ≤480V Y, ≤277V Δ <b>M58</b> Dual Eth, ≤480V Y, ≤277V Δ <b>M59</b> Dual Eth/Dual Modbus, ≤480V Y, ≤277V Δ <b>M56</b> Dual Eth/Dual Modbus, ≤480V Y, ≤277V Δ, Breaker Monitoring	
<b>16. Meter Options</b> <i>(M50 AC)</i> <b>S</b> Standard <b>N</b> (Measured) Neutral <b>D</b> Display <b>P</b> Professional (D+N) <b>*16. Meter Options</b> <i>(M60 DC)</i> <b>S</b> Standard (High Voltage) <b>P</b> Standard (48 VDC) <b>D</b> Display (High Voltage) <b>Q</b> Display (48 VDC) <i>M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC (+/- 60) to 380 VDC (+/-180) OR Low Voltage: 48 VDC</i>	
<b>*17. Meter Configuration</b> <b>1</b> LL power, Delta Solid Core, mV CT <b>3</b> LN power, Wye Solid Core, mV CT <b>4</b> LL power, Delta Solid Core, 5A-secondary CT <b>6</b> LN power, Wye Solid Core, 5A-secondary CT <b>7</b> LL power, Delta Split Core, mV CT <b>9</b> LN power, Wye Split Core, mV CT <b>K</b> LL power, Delta Split Core, 5A-secondary CT <b>M</b> LN power, Wye Split Core, 5A-secondary CT <b>*14. Meter Configuration</b> <i>(M60 DC)</i> <b>1</b> Circuit 1 Only, Solid Core <b>3</b> Both Circuits, Solid Core <b>2</b> Circuit 2 Only, Solid Core	
<b>17. Paint Color</b> <b>STD</b> Standard Dark Gray <b>Note:</b> Consult Factory for other options	
<b>18. Drop Cord Tape Marking</b> <b>3</b> Black <b>6</b> Red <b>8</b> Green <b>4</b> White <b>7</b> Blue	

## (4.151)

# S5 PLUG-IN UNITS

## METER PLUGS: PRODUCT NUMBERS



### 1. System (standard of measure)

**U** US

### 2. Product Type (section component)

**M** Meter Plug

### 3. Compatibility (frame compatibility)

**S5** S5 System

### 4. Ground (ground type installed)

**C** Case (Housing) Ground

### 5. Box (what size enclosure)

**S1, S2, S3** (refer to S5 Enclosure Style Options, page 4.144)

### 6. Orientation (what direction the paddle faces)

**S** Standard **R** Reversed

### 7. Current Transformer (current rating)

<b>065</b> 65 amps	<b>225</b> 225 amps
<b>250</b> 250 amps	<b>400</b> 400 amps
<b>800</b> 800 amps	<b>1K0</b> 1000 amps
<b>1K2</b> 1200 amps	

*\*\*M60 (DC) meters are only available with 800 amp current transducers*

### 8. Meter Release (M50 AC)

**M51** Single Eth./WiFi, ≤480V Y, ≤277V Δ  
**M53** Single Eth./No WiFi, ≤480V Y, ≤277V Δ  
**M58** Dual Eth., ≤480V Y, ≤277V Δ  
**M59** Dual Eth./Dual Modbus, ≤480V Y, ≤277V Δ

### 8. Meter Release (M60 DC)

**M61** Single Eth./WiFi, single phase, VDC  
**M63** Single Eth./No WiFi, single phase, VDC  
**M67** Dual Eth., single phase, VDC  
**M69** Dual Eth./Dual Modbus, single phase, VDC

### 9. Meter Options (M50 AC)

<b>S</b> Standard	<b>N</b> (Measured) Neutral
<b>D</b> Display	<b>P</b> Professional (D+N)

### 9. Meter Options (M60 DC)

<b>S</b> Standard (High Voltage)	<b>P</b> Standard (48 VDC)
<b>D</b> Display (High Voltage)	<b>Q</b> Display (48 VDC)

*M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC (+/-60) to 380 VDC (+/-180) OR Low Voltage: 48 VDC*

### \*10. Meter Configuration (M50 AC)

**1** LL power, Delta Solid Core, mV CT  
**3** LN power, Wye Solid Core, mV CT  
**4** LL power, Delta Solid Core, 5A-secondary CT  
**6** LN power, Wye Solid Core, 5A-secondary CT  
**7** LL power, Delta Split Core, mV CT  
**9** LN power, Wye Split Core, mV CT  
**K** LL power, Delta Split Core, 5A-secondary CT  
**M** LN power, Wye Split Core, 5A-secondary CT

### \*10. Meter Configuration (M60 DC)

**1** Circuit 1 Only, Solid Core  
**2** Circuit 2 Only, Solid Core  
**3** Both Circuits, Solid Core

### 11. Paint Color

**STD** Standard Dark Gray

**Note:** Consult Factory for other options

## EXAMPLE

**UMS5CS2S-065-M59S1-STD** = US System, Meter Plug, S5 System, Case Ground, S2 Box, Standard Orientation, 65 Current Rating, M59 Meter, Standard, LL Power, Delta Solid Core, mV CT, Painted Factory Silver

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