TRACK BUSWAY PRODUCT SELECTION GUIDE

2024

T1-T5 US SYSTEMS | S3-S5 US SYSTEMS

Starline®
A brand of legrand®

T1-T5 SYSTEMS

TABLE OF CONTENTS

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.

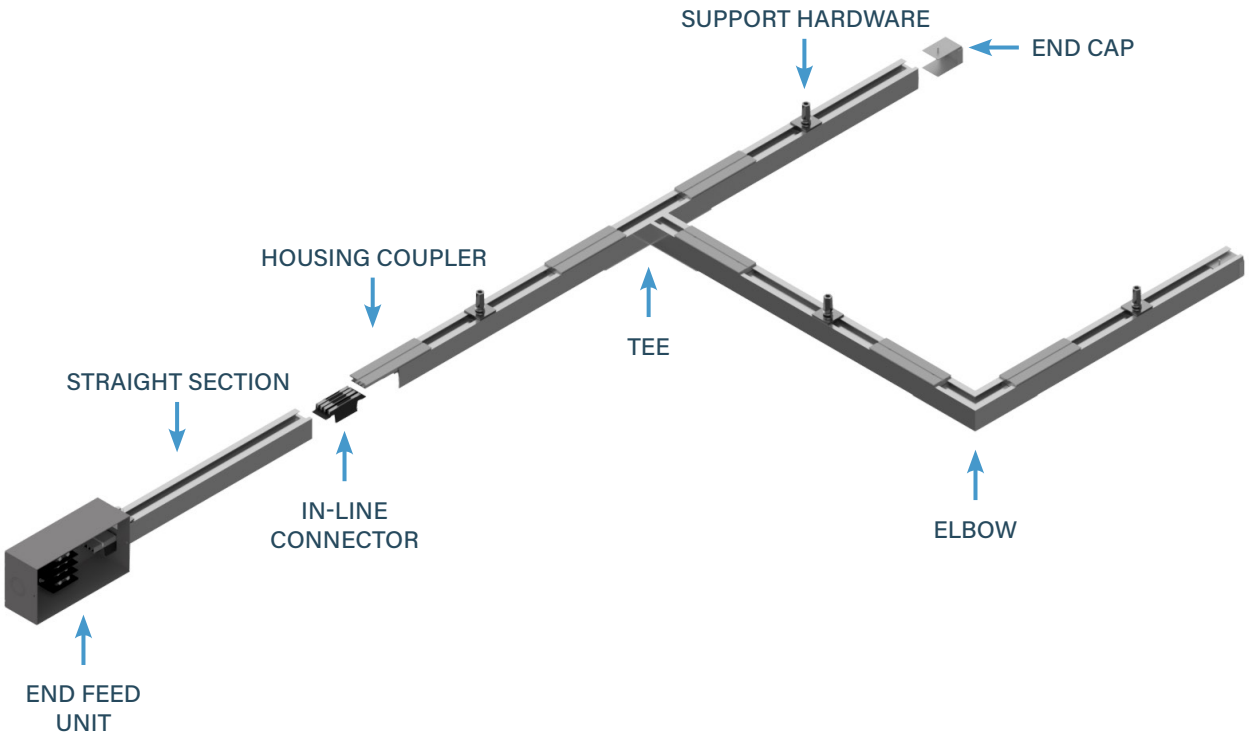
T1 SERIES

TABLE OF CONTENTS

CONTENTS

T1 SERIES

SYSTEM LAYOUT DRAWING



PLUG-IN UNITS

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

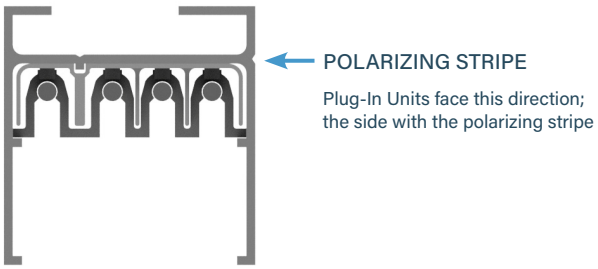
T1 SERIES

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.

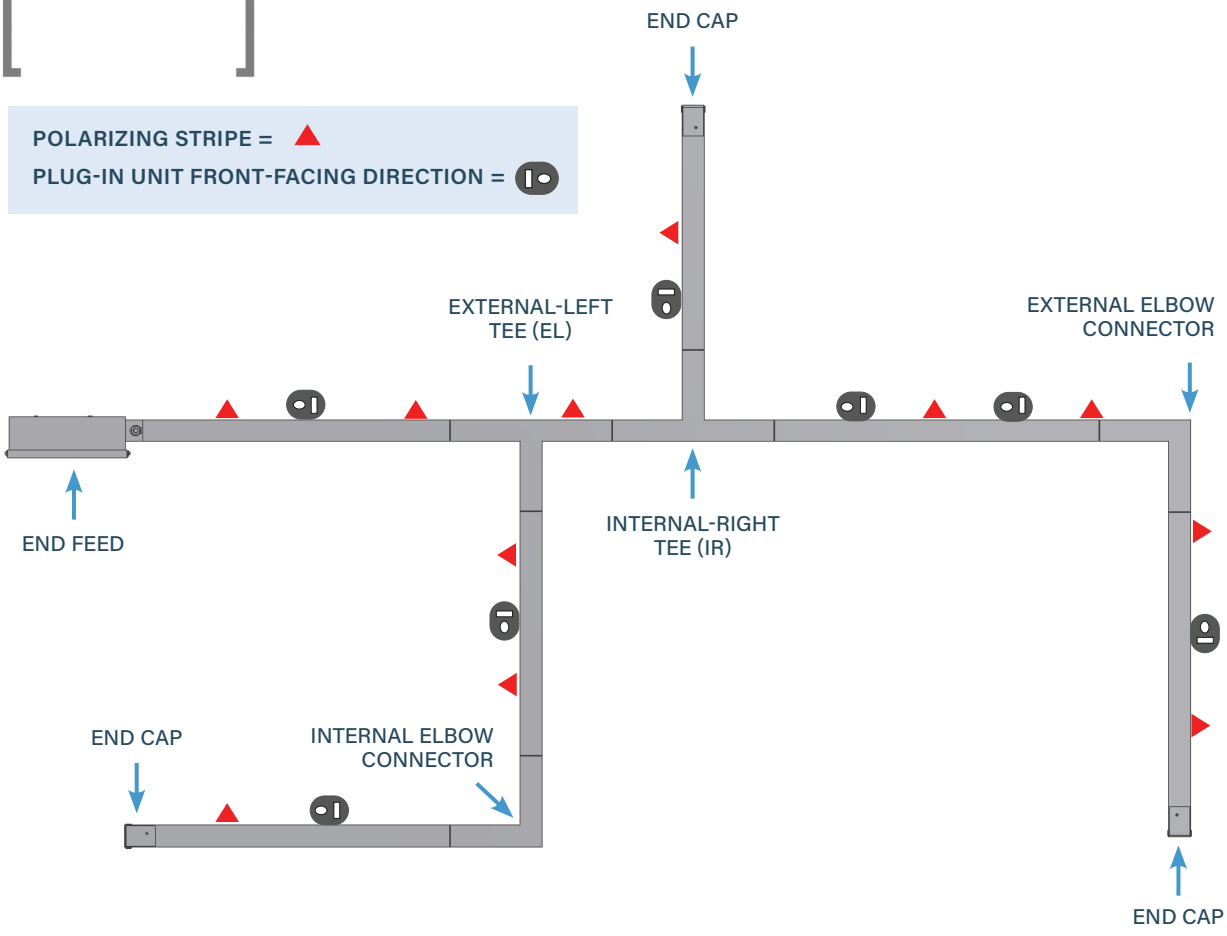
It is particularly important to understand this design concept prior to ordering and/or installing some components.

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.



POLARIZING STRIPE

Plug-In Units face this direction; 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. 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

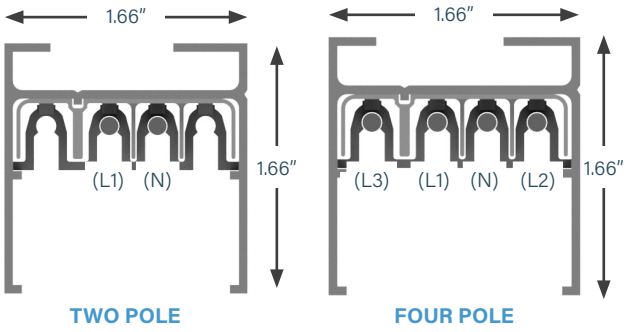
STRAIGHT SECTIONS

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.

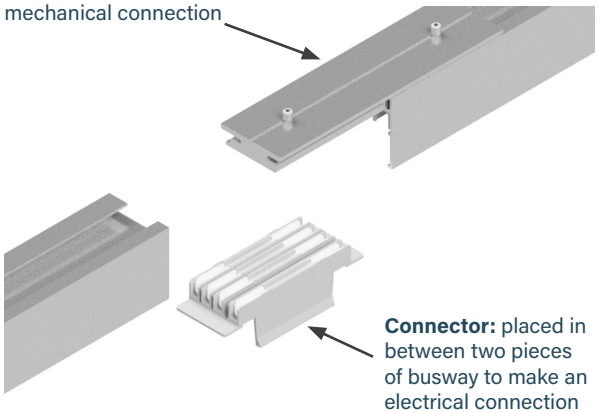
L1 = Black
L2 = Red
L3 = Blue
N = White or Beige



TWO POLE FOUR POLE

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



Connector: placed in between two pieces of busway to make an electrical connection

40-50-60 AMP SYSTEMS

STRAIGHT SECTIONS: RECESSED

PRODUCT DESCRIPTION

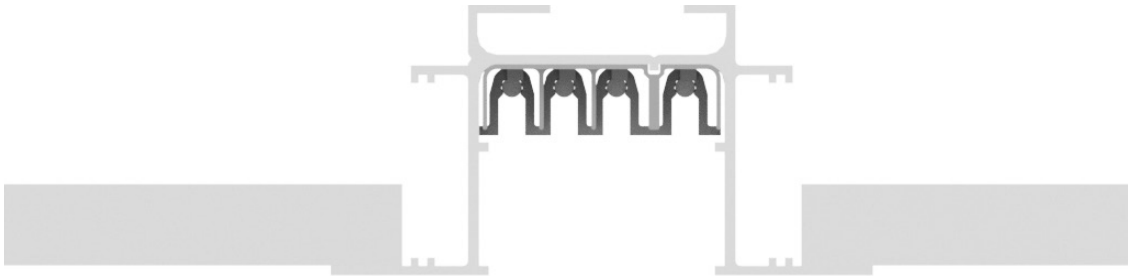
T1 housing is also available in a slightly different design, specifically tailored for busway that is meant to be installed recessed into a suspended ceiling.

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

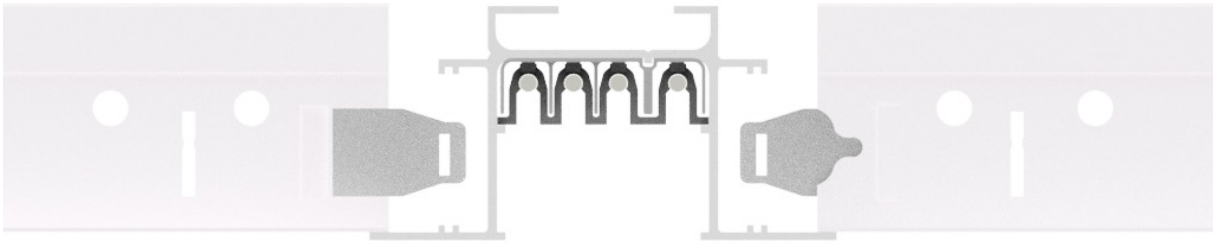
For recessed housing, please choose **'R1'** as opposed to 'T1' in your product number.

*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

40-50-60 AMP SYSTEMS

STRAIGHT SECTIONS: PRODUCT NUMBERS

U	S	040	T1	C	4	S	– 0200	C	– STD0
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

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

S Straight Section

3. Product Frame *(maximum amperage)*

040 40 amps
050 50 amps
060 60 amps

4. Compatibility *(frame compatibility)*

T1 T1 System
R1 T1 System (Recessed Housing)

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

8. Straight Length *(length of section)*

XXYY XX=feet, YY=inches

9. Busway Access *(how plugs access the busway)*

C Continuous

10. Paint Color *(allows painting of the busway housing)*

STD0 Factory Mill Finish
BLK0 Paint Factory Black
WHT0 Paint Factory White
RED0 Paint Factory Red
BLU0 Paint Factory Blue
****RAL** *(please see page 1.23)*

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

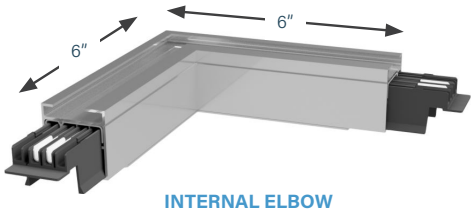
ELBOW SECTIONS

PRODUCT DESCRIPTION

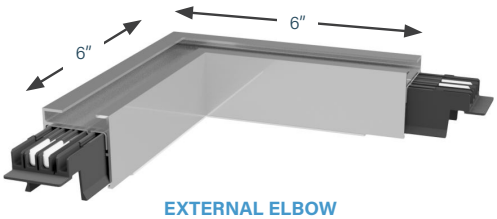
Factory pre-assembled elbow sections are used for making a 90-degree turn. Elbows are connected to busway sections electrically by means of built-in bus connectors. Connectors are installed by "snapping" into position with housing section butted together. Connectors are polarized to prevent phase mismatch.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

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

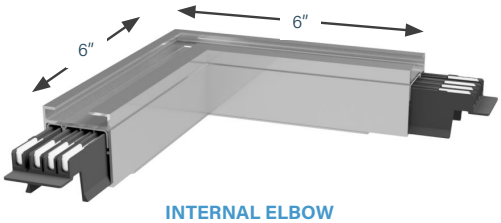
Weight .5 lbs



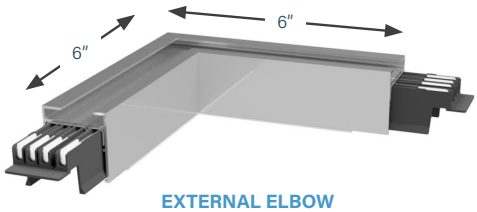
INTERNAL ELBOW
2-POLE



EXTERNAL ELBOW
2-POLE



INTERNAL ELBOW
4-POLE



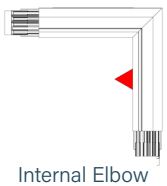
EXTERNAL ELBOW
4-POLE

***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

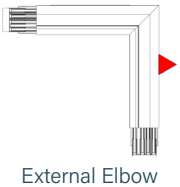
Internal-Housing Only (IH)
External-Housing Only (EH)
*contains no bus connectors or copper running through

Internal-Feed (IF)
External-Feed (EF)
*comes with a hole in the top to feed wiring



Internal Elbow

▲ = Polarizing Stripe



External Elbow

40-50-60 AMP SYSTEMS

ELBOW SECTIONS: PRODUCT NUMBERS

U	E	040	T1	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

– STD0

9. Paint Color

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

E Elbow Section

3. Product Frame *(maximum amperage)*

040 40 amps
050 50 amps
060 60 amps

4. Compatibility *(frame compatibility)*

T1 T1 System
R1 T1 System (Recessed Housing)

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

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

IN Internal
NP Non-Populated
EH External-Housing Only
EF External-Feed
EX External
IH Internal-Housing Only
IF Internal-Feed

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

STD0 Factory Mill Finish
BLK0 Paint Factory Black
WHT0 Paint Factory White
RED0 Paint Factory Red
BLU0 Paint Factory Blue
****RAL** *(please see page 1.23)*

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

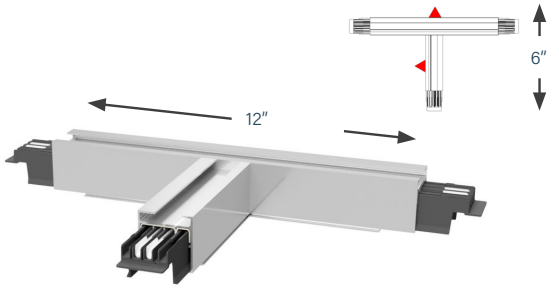
TEE SECTIONS

PRODUCT DESCRIPTION

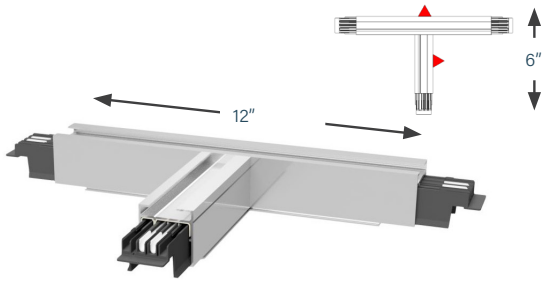
Similar to elbow connectors, tee connectors are used for connecting branch housing sections at 90 degrees to the main run. Please be aware of polarization issues before making your final selection (refer to **page 1.3 Polarity Tips**).

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.

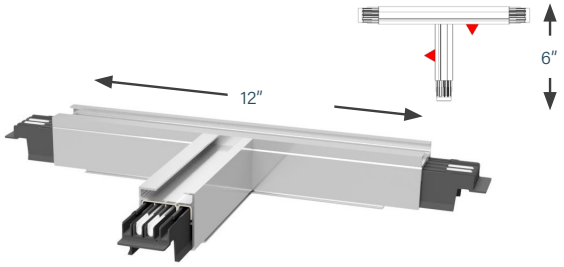
Weight 1 lb



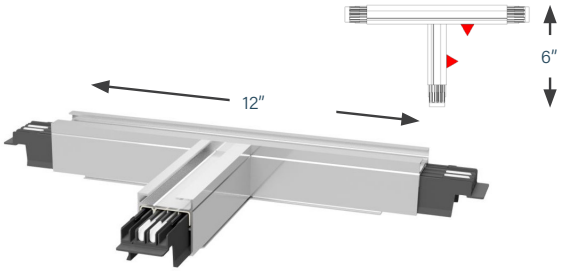
2-POLE: EXTERNAL-LEFT
(EL)



2-POLE: EXTERNAL-RIGHT
(ER)



2-POLE: INTERNAL-LEFT
(IL)



2-POLE: INTERNAL-RIGHT
(IR)

***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

40-50-60 AMP SYSTEMS

TEE SECTIONS: PRODUCT NUMBERS

U	T	040	T1	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

– STD0

9. Paint Color

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

T Tee Section

3. Product Frame *(maximum amperage)*

040 40 amps
050 50 amps
060 60 amps

4. Compatibility *(frame compatibility)*

T1 T1 System
R1 T1 System (Recessed Housing)

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

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

IL Internal-Left
IR Internal-Right
NP Non-Populated
EL External-Left
ER External-Right

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

STD0 Factory Mill Finish
BLK0 Paint Factory Black
WHT0 Paint Factory White
RED0 Paint Factory Red
BLU0 Paint Factory Blue
****RAL** *(please see page 1.23)*

EXAMPLES

UT060T1C4S-IR-RED0 = *US System, Tee Section, 60 amps, T1 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning Direction, Painted Factory Red*

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

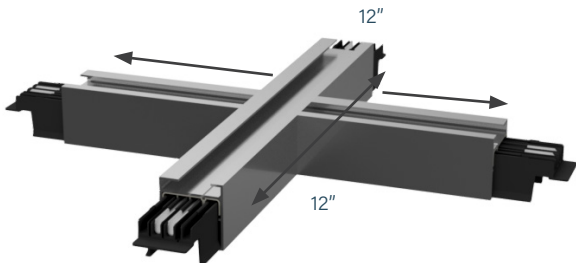
CROSS SECTIONS

PRODUCT DESCRIPTION

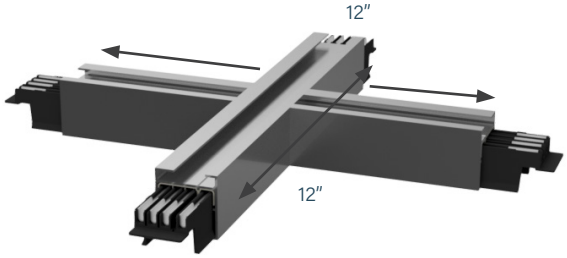
Similar to tee connectors, crosses are typically used for grid designs. Please be aware of polarization issues before making your final selection (refer to **page 1.3 Polarity Tips**).

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.

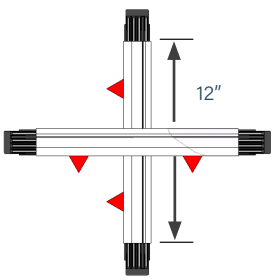
Weight 1.5 lbs



2-POLE CROSS



4-POLE CROSS



Standard
(ST)

▲ = Polarizing Stripe

***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

40-50-60 AMP SYSTEMS

CROSS SECTIONS: PRODUCT NUMBERS

U	X	040	T1	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

– STD0

9. Paint Color

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

X Cross Section

3. Product Frame *(maximum amperage)*

040 40 amps
050 50 amps
060 60 amps

4. Compatibility *(frame compatibility)*

T1 T1 System
R1 T1 System (Recessed Housing)

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

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

ST Standard
NP Non-Populated
IL Internal-Left
IR Internal-Right
EL External-Left
ER External-Right

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

STD0 Factory Mill Finish
RED0 Paint Factory Red
BLK0 Paint Factory Black
BLU0 Paint Factory Blue
WHT0 Paint Factory White
****RAL** *(please see page 1.23)*

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*

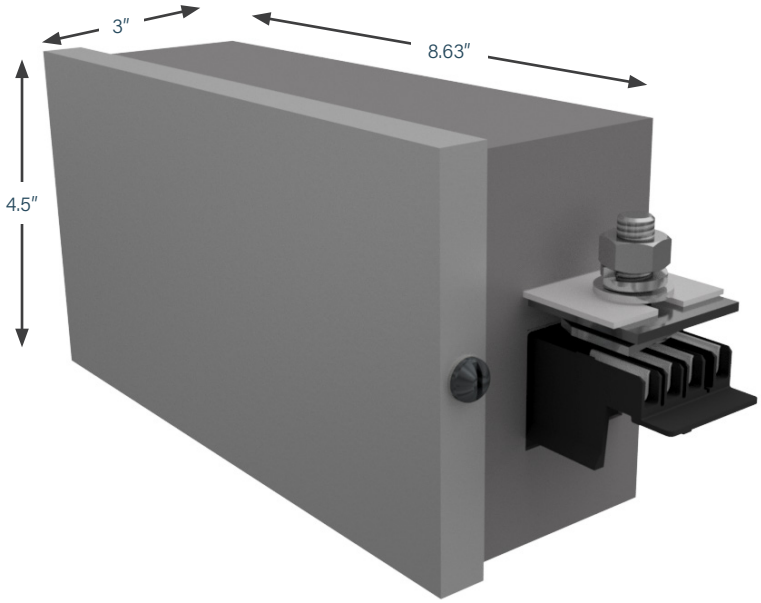
40-50-60 AMP SYSTEMS

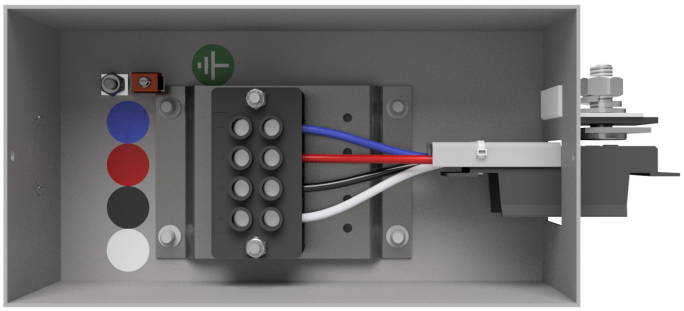
END FEED UNITS

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	

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

F End Feed

3. Product Frame *(maximum amperage)*

040 40 amps
050 50 amps
060 60 amps

4. Compatibility *(frame compatibility)*

T1 T1 System
R1 T1 System (Recessed Housing)

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

S Standard lugs, Standard box

9. Lid Orientation *(from the terminal, side with removable lid)*

R Right

10. Accessories Package *(optional accessories for feed units)*

S Standard

11. Accessories Location *(from the terminal, side with accessory)*

N None (N/A)

***12. System** *(line to line or line to neutral system*

LL Line to Line
LN Line to Neutral

**LL & LN specification required only when ordering a 2-pole system (reference option 6 Neutral/Ground Busbar)*

13. Paint Color *(allows painting of the busway housing)*

STD0 Factory Mill Finish
BLK0 Paint Factory Black
WHT0 Paint Factory White
RED0 Paint Factory Red
BLU0 Paint Factory Blue
****RAL** *(please see page 1.23)*

EXAMPLE

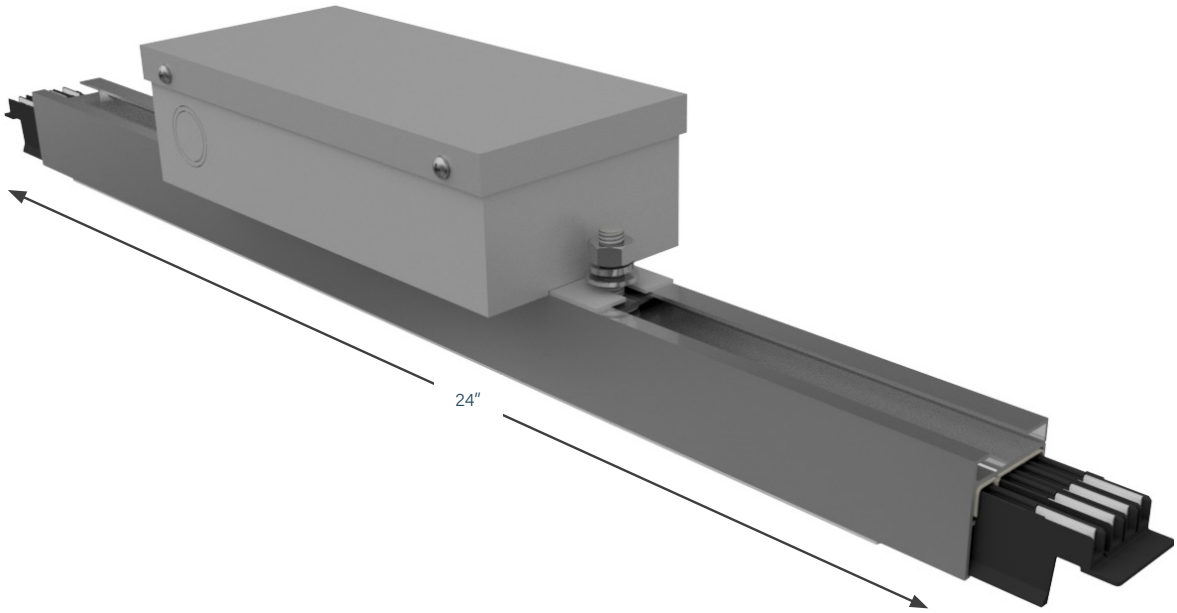
UF040T1C4R-SRSN-BLU0 = *US System, End Feed, 40 amps, T1 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, Right lid Orientation, Standard Accessory Package, No Accessories Location, Painted Factory Blue*

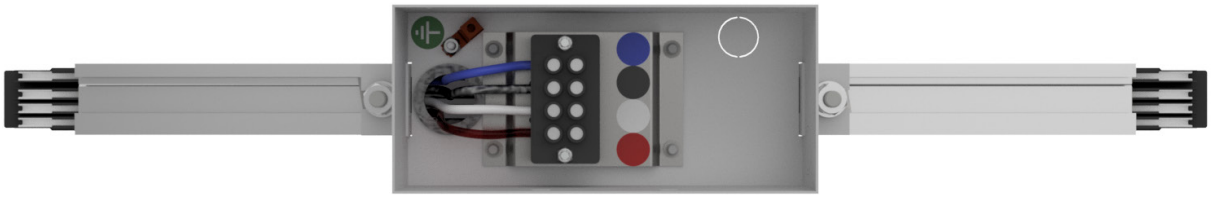
40-50-60 AMP SYSTEMS

ABOVE FEED UNITS

PRODUCT DESCRIPTION

Weight 5 lbs





INTERNAL VIEW

40-50-60 AMP SYSTEMS

ABOVE FEED UNITS: PRODUCT NUMBERS

U	A	040	T1	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	–	LL	–	STD0	*Optional
	12. Straight Length	13. Busway Access	14. Feed Location		*15. System		16. Paint Color	

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

2. Product Type *(section component)*
A Above Feed

3. Product Frame *(maximum amperage)*
040 40 amps
050 50 amps
060 60 amps

4. Compatibility *(frame compatibility)*
T1 T1 System
R1 T1 System (Recessed Housing)

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. Lug/Box Options *(standard/double/bolt lugs and box size)*
S Standard lugs, Standard box

9. Lid Orientation *(from the terminal, side with removable lid)*
N None (N/A)

10. Accessories Package *(optional accessories for feed units)*
S Standard

11. Accessories Location *(from the terminal, side with accessory)*
N None (N/A)

12. Straight Length *(optional accessories for feed units)*
0200 2 feet

13. Busway Access *(how plugs access the busway*
C Continuous

14. Feed Location *(location of the center of the top feed)*
012 12 inches

***15. System** *(line to line or line to neutral system*
LL Line to Line
LN Line to Neutral
**LL & LN specification required only when ordering a 2-pole system (reference option 6 Neutral/Ground Busbar)*

16. Paint Color *(allows painting of the busway housing)*
STD0 Factory Mill Finish
BLK0 Paint Factory Black
WHT0 Paint Factory White
RED0 Paint Factory Red
BLU0 Paint Factory Blue
****RAL** *(please see page 1.23)*

EXAMPLE

UA060T1C2S-SNSN-0200C012-LN-WHT0 = *US System, Above Feed, 60 amps, T1 System, Copper Conductor, 1 Phase plus Neutral, Standard Polarization, Standard Lugs, Standard Box, No Lid Orientation, Standard Accessory Package, No Accessories Location- 2 foot Straight Length, Continuous Busway Access, 12 inch Feed Location, Line to Neutral System, Painted Factory White*

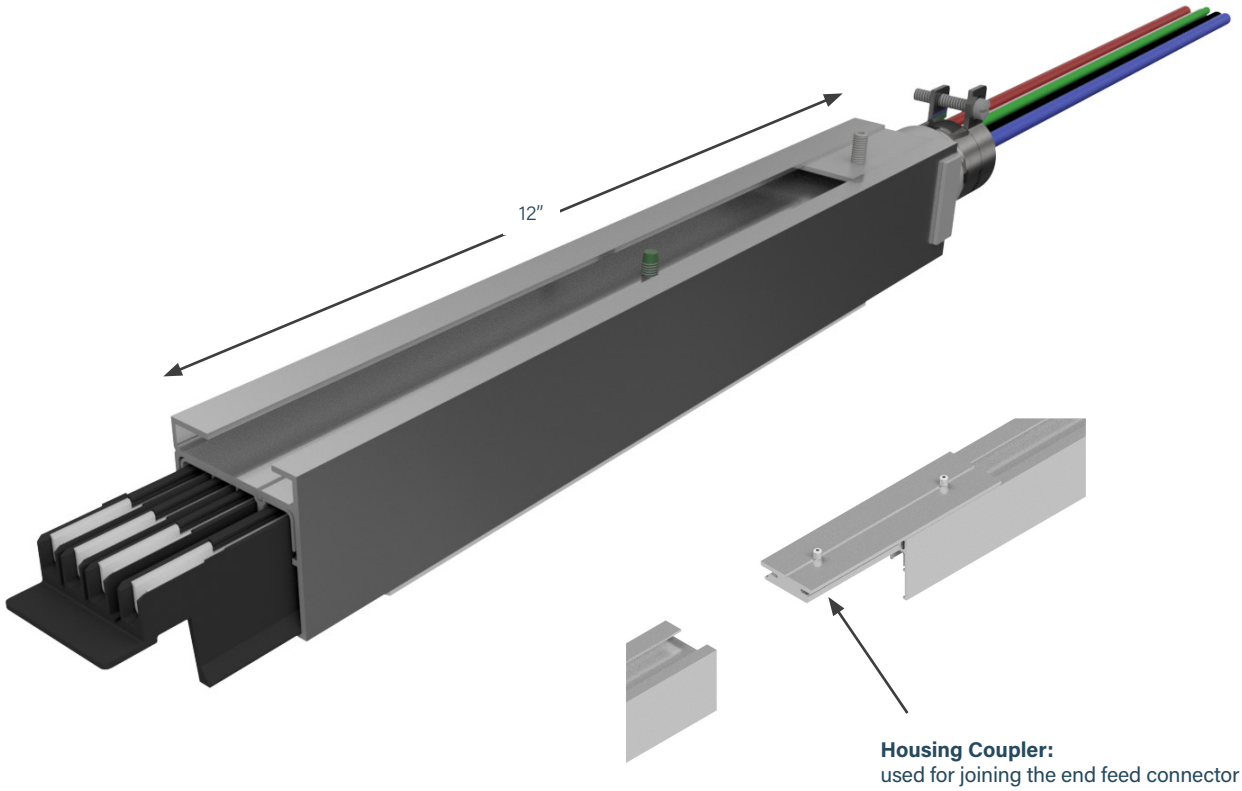
40-50-60 AMP SYSTEMS

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



Housing Coupler:
used for joining the end feed connector with a busway housing section (**page 1.28 Connection Accessories**)

40-50-60 AMP SYSTEMS

END FEED CONNECTOR UNITS: PRODUCT NUMBERS

U	C	040	T1	C	4	S	–	024
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Wire Length

– LL – STD0 *Optional

*9. System — 10. Paint Color

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

C End Feed Connector

3. Product Frame *(maximum amperage)*

040 40 amps
050 50 amps
060 60 amps

4. Compatibility *(frame compatibility)*

T1 T1 System
R1 T1 System (Recessed Housing)

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)*

024 24 inches
048 48 inches
072 72 inches
096 96 inches

***9. System** *(line to line or line to neutral system*

LL Line to Line
LN Line to Neutral

**LL & LN specification required only when ordering a 2-pole system (reference option 6 Neutral/Ground Busbar)*

10. Paint Color *(allows painting of the busway housing)*

STD0 Factory Mill Finish
RED0 Paint Factory Red
BLK0 Paint Factory Black
BLU0 Paint Factory Blue
WHT0 Paint Factory White
****RAL** *(please see page 1.23)*

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*

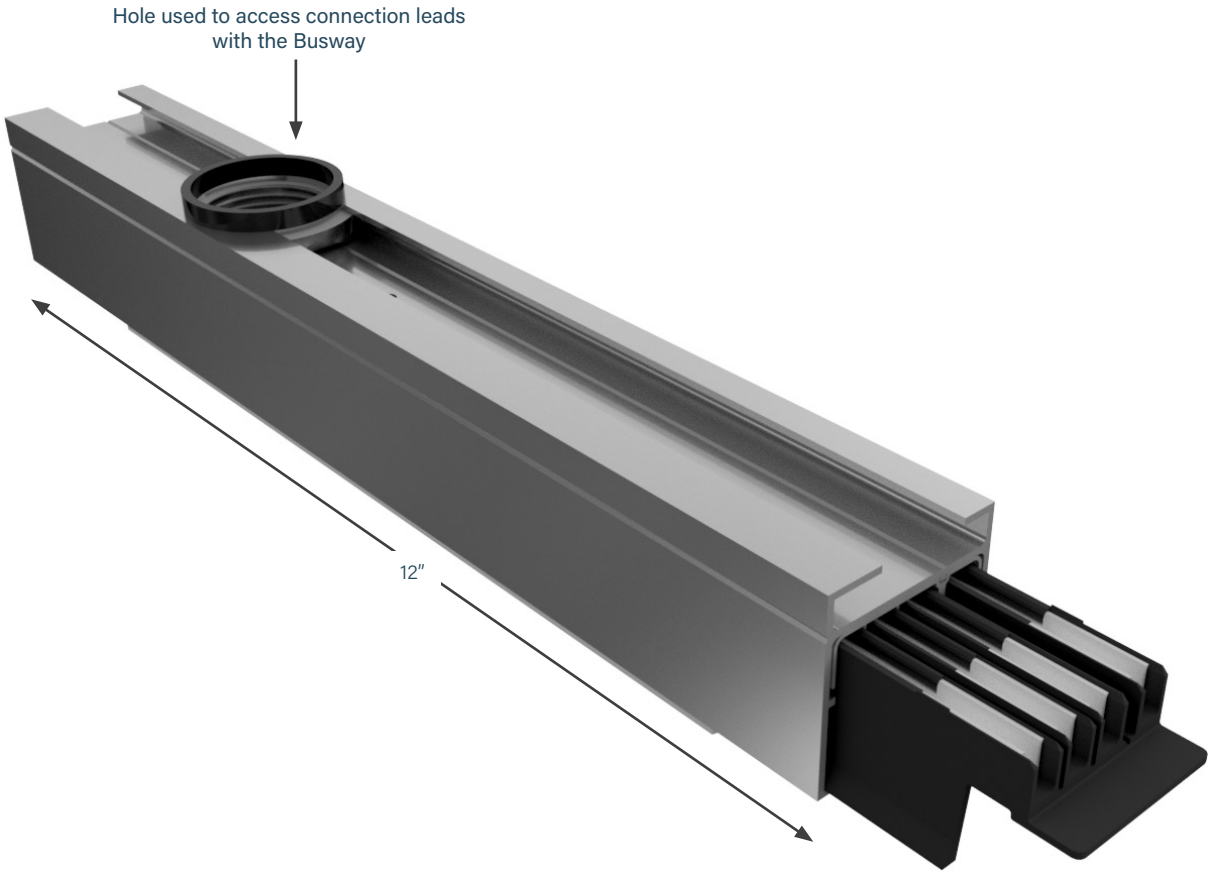
40-50-60 AMP SYSTEMS

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

U	P	040	T1	C	4	S	–	LL
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		*8. System

– STD0 *Optional

9. Paint Color

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

P Pendant Feed

3. Product Frame *(maximum amperage)*

040 40 amps
050 50 amps
060 60 amps

4. Compatibility *(frame compatibility)*

T1 T1 System
R1 T1 System (Recessed Housing)

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. System** *(line to line or line to neutral system*

LL Line to Line
LN Line to Neutral

**LL & LN specification required only when ordering a 2-pole system (reference option 6 Neutral/Ground Busbar)*

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

STD0 Factory Mill Finish
BLK0 Paint Factory Black
WHT0 Paint Factory White
RED0 Paint Factory Red
BLU0 Paint Factory Blue
****RAL** *(please see page 1.23)*

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	
P	Paint

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

3RD CHARACTER	
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

4TH CHARACTER	
0	0

EXAMPLE:

P B 2 0 = Paint RAL 3012

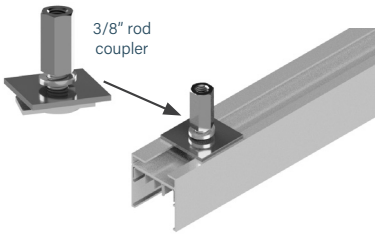
T1 SERIES

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.

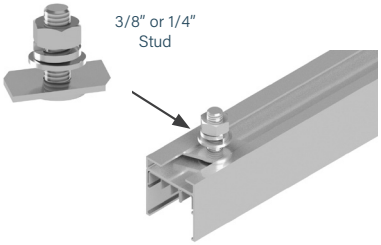
Part Number
URHB-3
Available in plain zinc or black (-BLK)
Weight
.3 lb



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.

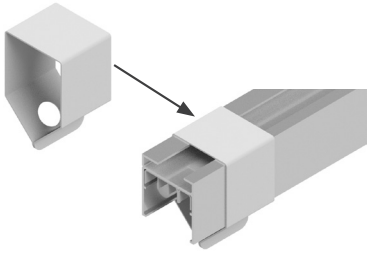
Part Number
UTHB-3 (3/8")
UTHB-1/4 (1/4")
Available in plain zinc or black (-BLK)
Weight
.2 lb



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.

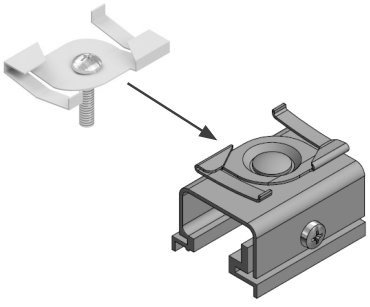
Part Number
UWHRT1
Available in plain zinc or black (-BLK)
Weight
.2 lb



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.

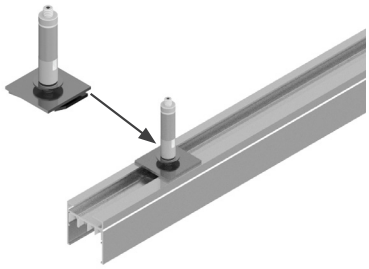
For rod mounting, this comes with a 7/16 inch hole.

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.

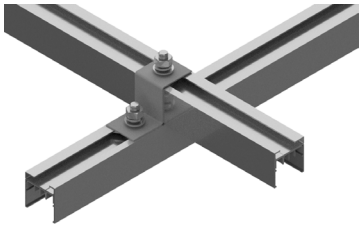
Part Number
UACH-1 (1/16" cable)
UACH-2 (3/32" cable)
Available in plain zinc
Weight
.2 lb



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.

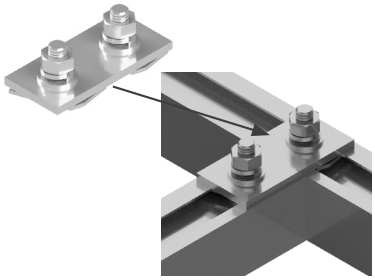
Part Number
UGBT1-OU2
Available in plain zinc or black (-BLK)
**4 required*



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)



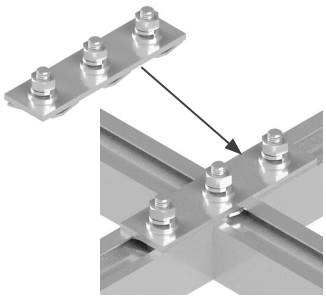
T1 SERIES

ACCESSORIES: SUPPORT HARDWARE

THREE-HOLE GRID BRACKET

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

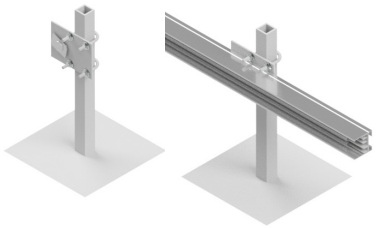
Part Number
UGBT1-SP3
Available in plain zinc or black (-BLK)



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

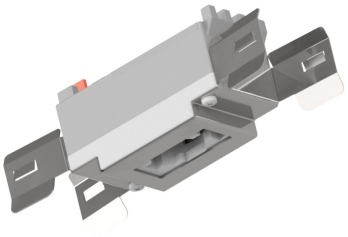
ACCESSORIES: CONNECTOR AND ADAPTERS

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

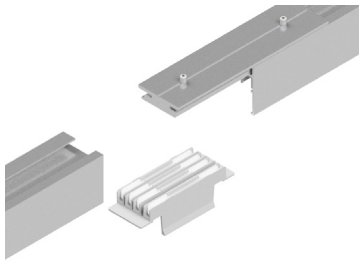
JOINT KIT

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

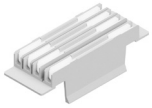


IN-LINE CONNECTOR

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)

2-pole connector

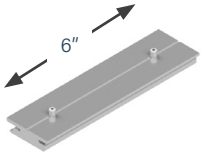


4-pole connector

HOUSING COUPLER

Housing couplers make the mechanical connection between sections of busway.

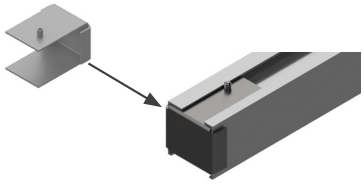
Part Number
UHCT1
Available in all standard and RAL colors



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.**

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.**

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.**

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.

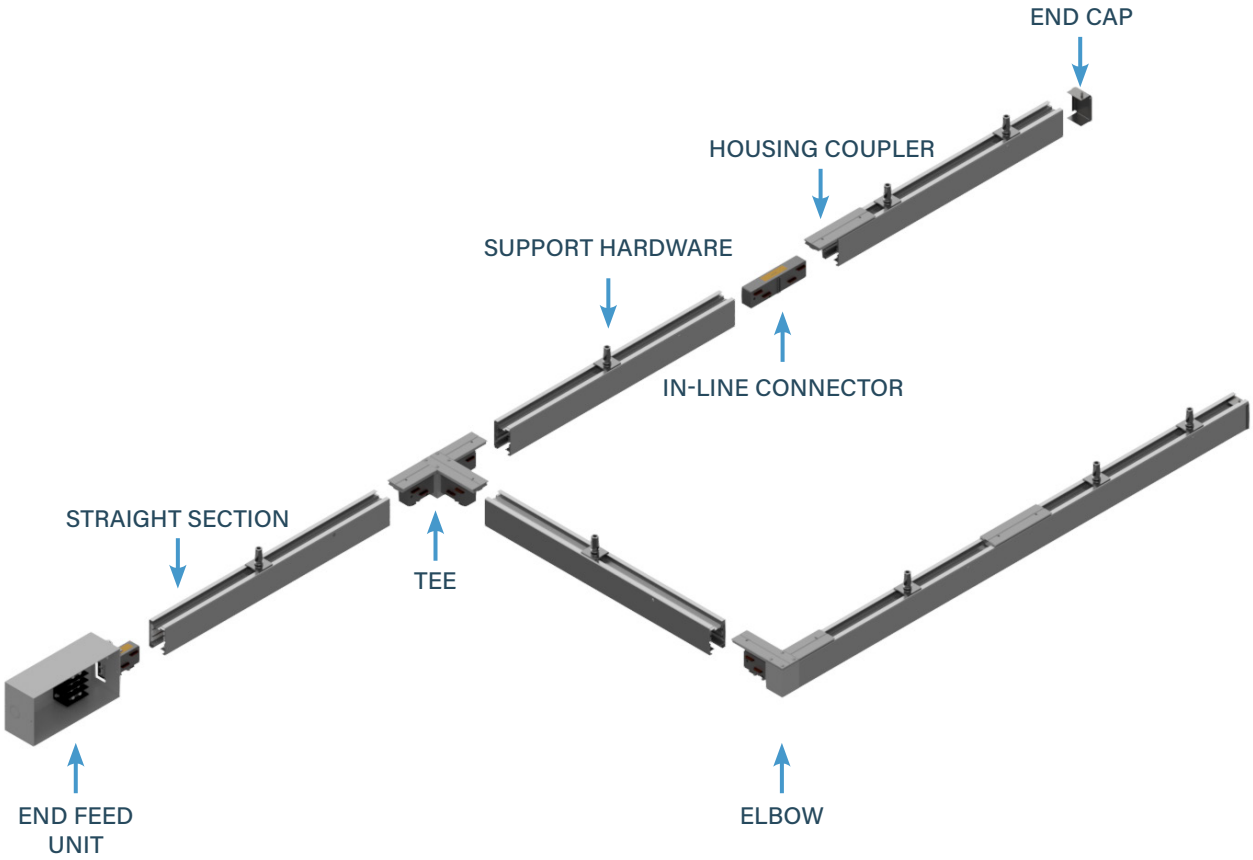
Also, if viewing this guide in print, please keep in mind that this is a working document. Starline reserves the right to change information and descriptions of listed services and products. The latest version of this guide is available for download at downloads.starlinepower.com.

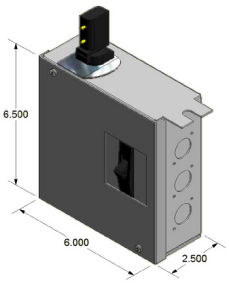
T2 SYSTEMS

TABLE OF CONTENTS

T2 SERIES

SYSTEM LAYOUT DRAWING





PLUG-IN UNITS

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

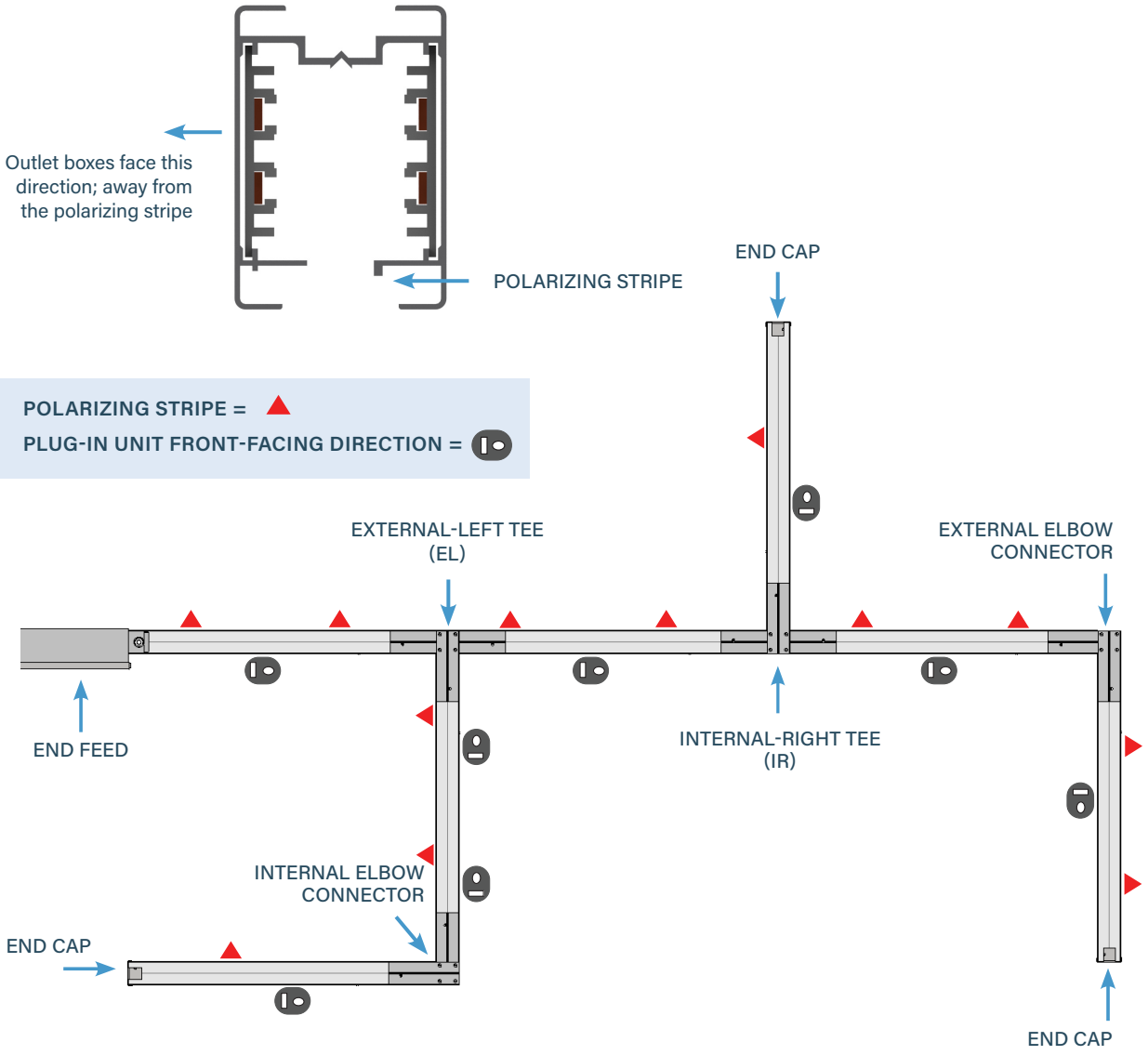
T2 SERIES

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. 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.

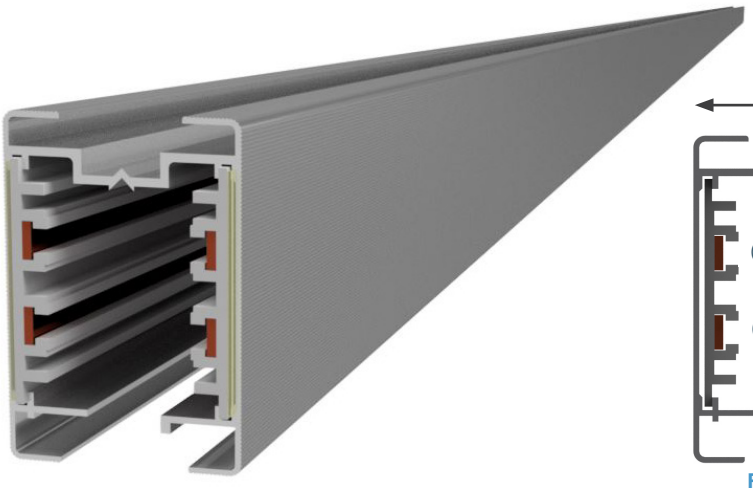
- Total Power Feeds and End Caps can be determined by counting the total number of unconnected runs.
- Before specifying or ordering elbow or tee connectors, it is important to understand polarity and the relationship to direction of outlets. Please refer to **page 2.3 Polarity Tips** for more detail.

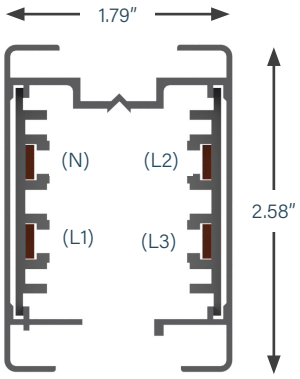
60 AMP SYSTEMS

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).



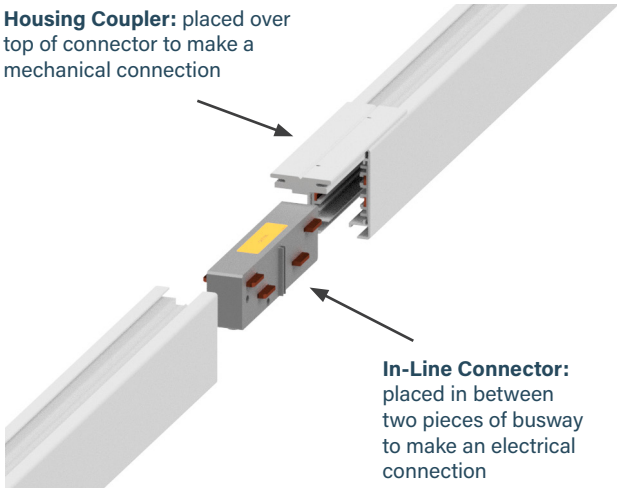


FOUR POLE

L1 = Blue
L2 = Black
L3 = Red
N = White or Beige

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



In-Line Connector: placed in between two pieces of busway to make an electrical connection

60 AMP SYSTEMS

STRAIGHT SECTIONS: PRODUCT NUMBERS

U	S	060	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

– STD0

10. Paint Color

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

2. Product Type *(section component)*
S Straight Section

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

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

8. Straight Length *(length of section)*
XXYY XX=feet, YY=inches

9. Busway Access *(how plugs access the busway)*
C Continuous

10. Paint Color *(allows painting of the busway housing)*

STD0 Factory Mill Finish
BLK0 Paint Factory Black
WHT0 Paint Factory White
RED0 Paint Factory Red
BLU0 Paint Factory Blue
****RAL** *(please see page 2.42)*

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

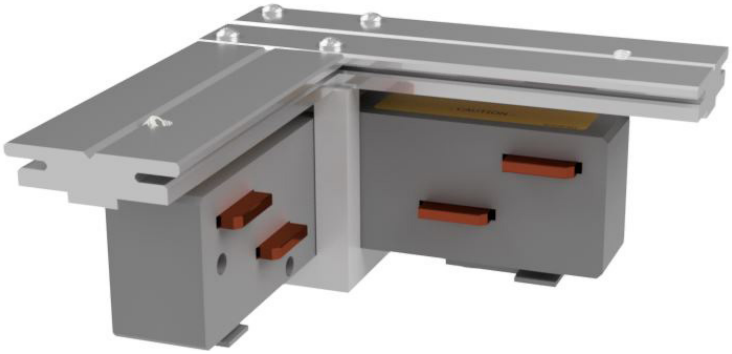
ELBOW SECTIONS

PRODUCT DESCRIPTION

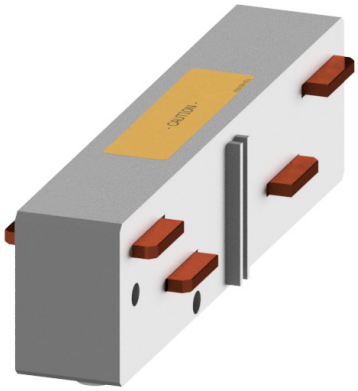
Elbow connectors are used for making a 90 degree turn in a 60 amp busway run. Please be aware of polarization issues before making your final selection (refer to **page 2.3 Polarity Tips**).

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

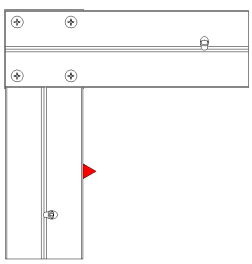


ELBOW CONNECTOR

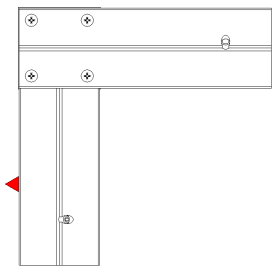


IN-LINE CONNECTOR

▲ = 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

– STD0

9. Paint Color

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

E Elbow Section

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

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

S Standard

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

IN Internal **EX** External

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

STD0 Factory Mill Finish
BLK0 Paint Factory Black
WHT0 Paint Factory White
RED0 Paint Factory Red
BLU0 Paint Factory Blue
****RAL** *(please see page 2.42)*

EXAMPLES

UE060T2C4S-IN-BLK0 = *US System, Elbow Section, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Painted Factory Black*

UE060T2C4S-EX-STD0 = *US System, Elbow Section, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, External Turning Direction, Factory Mill Finish*

60 AMP SYSTEMS

TEE SECTIONS

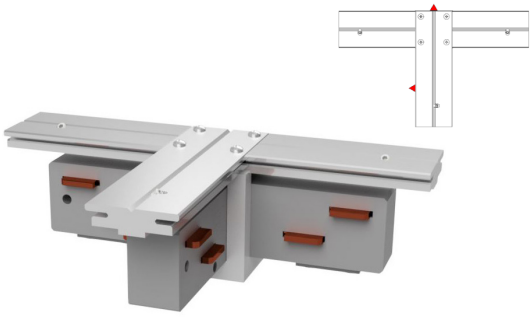
PRODUCT DESCRIPTION

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**).

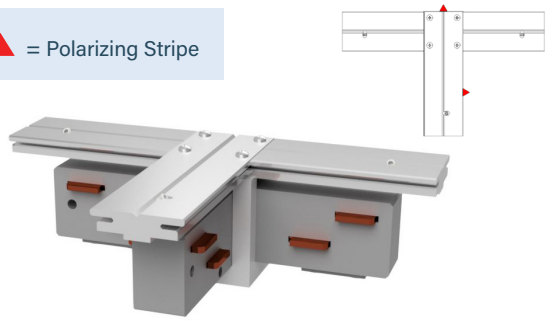
Tees are electrically connected to sections of 60 amp busway by means of an in-line connector. The connector is installed by inserting in each end of the housing sections to be joined. Hex head compression screws are tightened to make a reliable connection. All in-line connectors are polarized to prevent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

Weight 1 lb

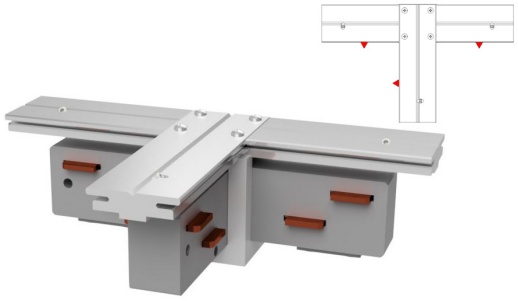
▲ = Polarizing Stripe



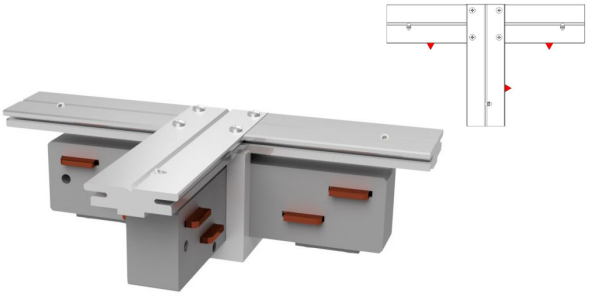
EXTERNAL-LEFT (EL)



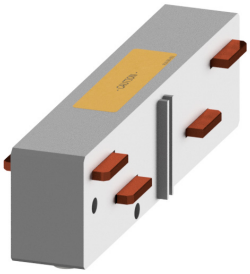
EXTERNAL-RIGHT (ER)



INTERNAL-LEFT (IL)



INTERNAL-RIGHT (IR)



IN-LINE CONNECTOR

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

– STD0

9. Paint Color

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

T Tee Section

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

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

S Standard **R** Reversed

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)*

STD0 Factory Mill Finish **RED0** Paint Factory Red
BLK0 Paint Factory Black **BLU0** Paint Factory Blue
WHT0 Paint Factory White ****RAL** *(please see page 2.42)*

EXAMPLES

UT060T2C4S-IR-RED0 = *US System, Tee Section, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning Direction, Painted Factory Red*

UT060T2C4S-EL-STD0 = *US System, Tee Section, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, External-Left Turning Direction, Factory Mill Finish*

60 AMP SYSTEMS

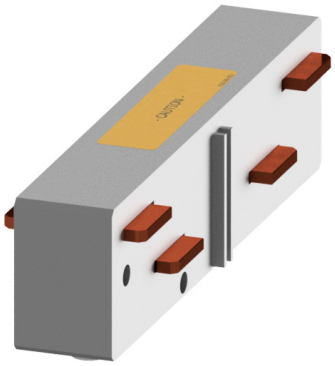
CROSS SECTIONS

PRODUCT DESCRIPTION

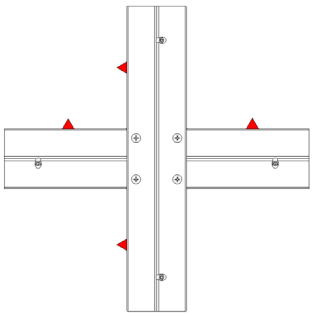
Similar to tee connectors, crosses are typically used for grid designs. Please be aware of polarization issues before making your final selection (**refer to page 2.3 Polarity Tips**).

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

– STD0

9. Paint Color

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

X Cross Section

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

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

S Standard

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

ST Standard

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

STD0 Factory Mill Finish
BLK0 Paint Factory Black
WHT0 Paint Factory White
RED0 Paint Factory Red
BLU0 Paint Factory Blue
****RAL** *(please see page 2.42)*

EXAMPLES

UX060T2C4S-ST-RED0 = *US System, Cross Section, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Standard Turning Direction, Painted Factory Red*

UX060T2C4S-ST-STD0 = *US System, Cross Section, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Standard Turning Direction, Factory Mill Finish*

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.

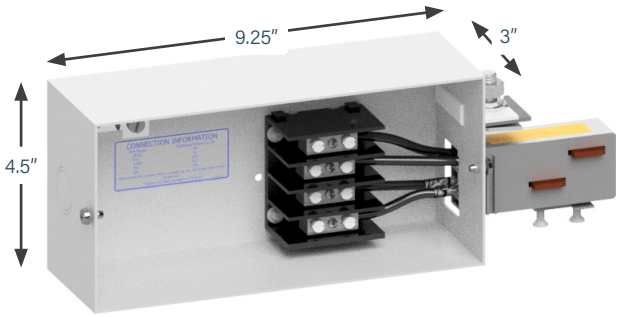
The unit is inserted into the busway and held in position via a bolted connection to the busway.

Weight

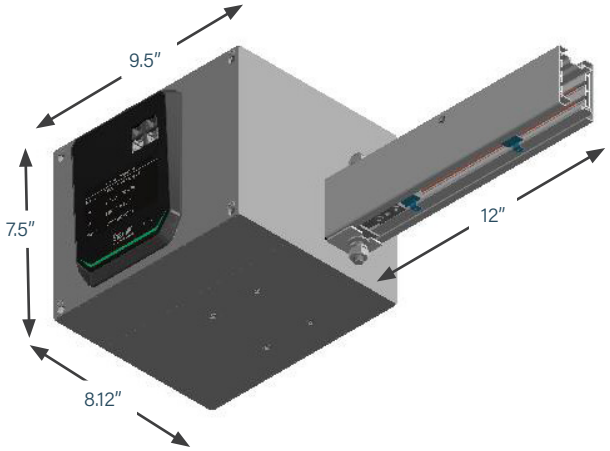
Standard box: 3.5 lbs

Large box: 12 lbs

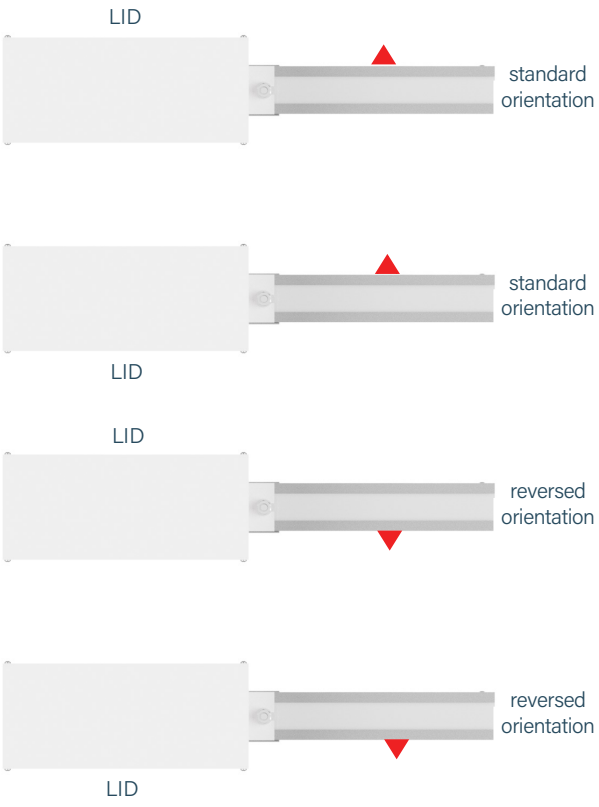
STANDARD BOX



LARGE BOX



Top View



▲ **= Polarizing Stripe**

*Plug-in units face the opposite side of the red triangle, or polarizing stripe

60 AMP SYSTEMS

END FEED UNITS: METERING

PRODUCT DESCRIPTION

End feed units can be populated with Starline's Critical Power Monitor to provide access to revenue-grade, three-phase power data. The M70 CPM is built with a 4.3-inch LCD touchscreen display that can be angled down for easier viewing from the floor.

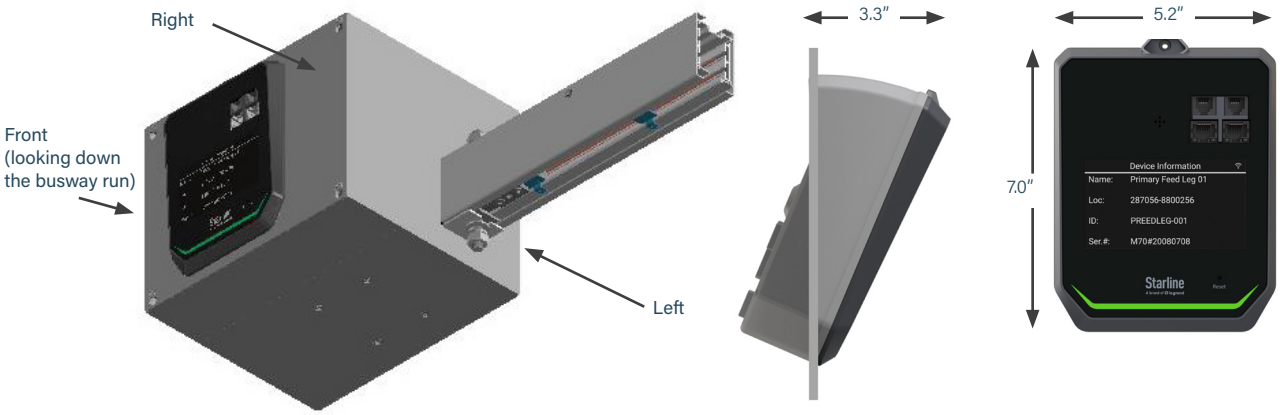
Wired ethernet and serial communications are standard with (2) RJ11 and (2) RJ45 jacks built in for easy daisy chaining. Optional 802.11n Wi-Fi connectivity is also available. Both serial Modbus and Ethernet-based protocols can be used simultaneously. These include: SNMP (v1, v2 & v3), Modbus RTU and TCP/IP, BACnet, HTTPS, and SSH.

Firmware communication options (IPV4, IPV6, DHCP, WPA2) are pre-packaged into the meter build. While these options are selected and then enabled during factory assembly, they can be re-configured at any time in the field. The M70 CPM is compatible with all major DCIM and BMS packages.

The M70 CPM can also be complemented with end feed accessories, such as real-time lug temperature monitoring, IR window scanning and audible alarms. Unlike firmware options, these hardware features are not field changeable.

The M70 is available in 110-500vac, 48vdc and 380vdc versions.

LARGE 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).*

*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.

60 AMP SYSTEMS

END FEED UNITS: PRODUCT NUMBERS

U	F	060	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

–	0100	C	–	STD0	0	–	M73	00	1	*Optional
	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)*

60 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

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 **L** Standard lugs, Large box

9. Meter Location *(from the terminal, side with removable lid; meter must follow lid orientation on large box)*

R Right **L** Left
N None (N/A)

10. Accessories Package *(optional accessories for feed units)*

S Standard **N** None (N/A)
**Accessories not available on standard box*

11. Accessories Location *(from the terminal, side with accessory)*

N None (N/A)
**Consult factory for Large box accessory options*

12. Straight Length *(for large box only)*

0100 1 ft. (For other lengths, consult the factory)

13. Busway Access *(for large box only)*

C Continuous

14. Paint Color *(allows painting of the busway housing)*

STD0 Factory Mill Finish **REDO** Paint Factory Red
BLK0 Paint Factory Black **BLU0** Paint Factory Blue
WHT0 Paint Factory White ****RAL** *(please see page 2.42)*

15. Tape Marking *(colored tape on both sides of busway housing)*

O No Tape Marking

EXAMPLE

UF60T2C4S-LNSN-0100C-STD0 = *US System, End Feed, 60 Amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Standard Lugs, Large Box, No Meter Location, Standard Accessory Package, No Accessory Location - 1 ft. Straight Length, Continuous - Factory Mill Finish, No Tape Marking*

60 AMP SYSTEMS

END FEED UNITS: PRODUCT NUMBERS

U	F	060	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

–	0100	C	–	STD0	0	–	M73	00	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type	

*16. Meter Release *(M70 AC)*

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*16. Meter Release *(M70 DC)*

M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*17. Meter Options *(M70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*18. System Configuration and CT Type *(M70 AC)*

1 Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral

8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Δ, Solid CTs, Millivolt, Measured Neutral
C Δ, Split CTs, 5A-secondary, Measured Neutral

M73
(2) RJ11, (2) RJ45, Lg. Display

M76
Wi-Fi + (2) RJ11, (2) RJ45, Lg. Display

EXAMPLE

UF60T2C4S-LRSN-0100C-STD0-M73001 = *US System, End Feed, 60 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 - M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral*

60 AMP SYSTEMS

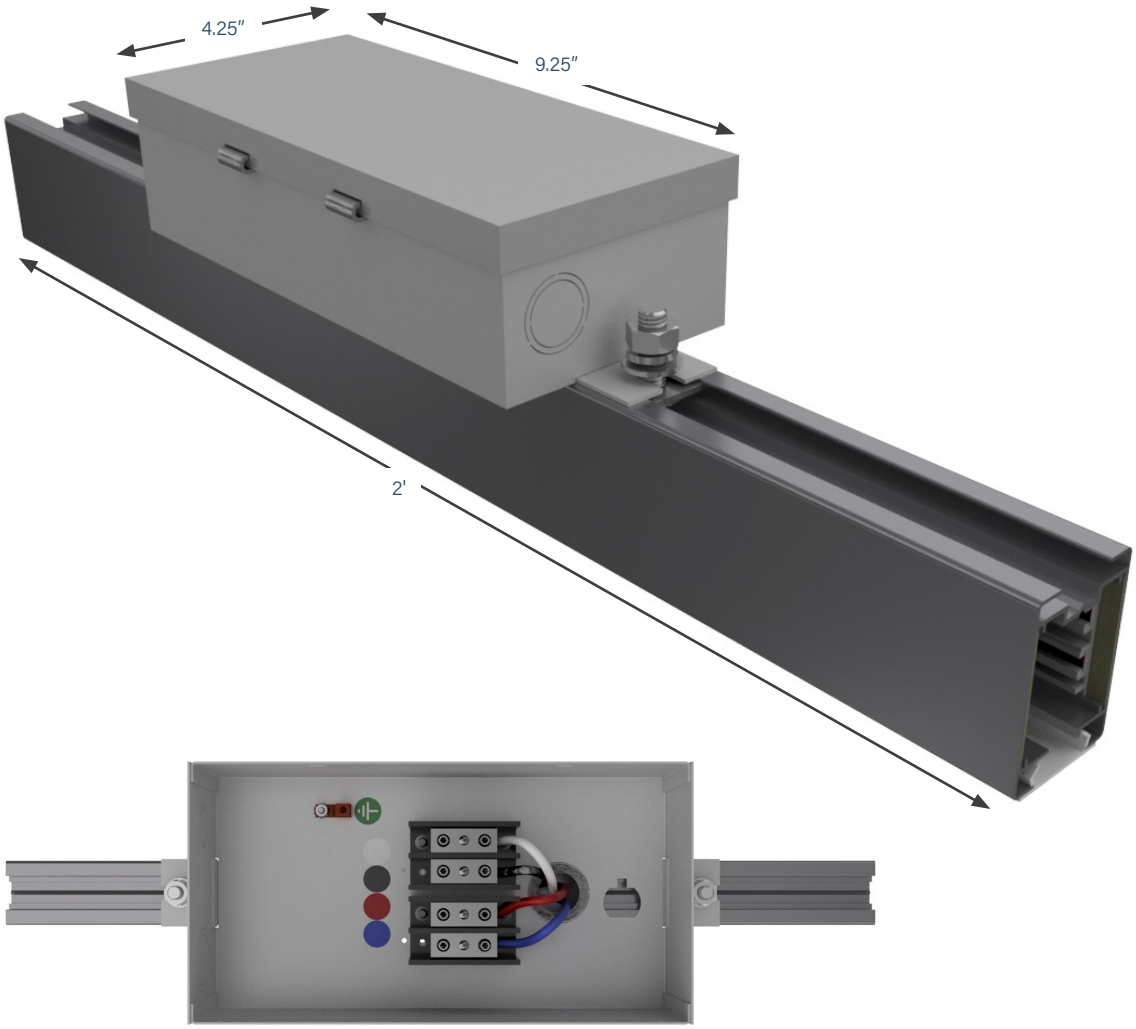
ABOVE FEED UNITS

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



INTERNAL VIEW

60 AMP SYSTEMS

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

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

2. Product Type *(section component)*
A Above 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

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

9. Lid Orientation *(from the terminal, side with removable lid)*
N None (N/A)

10. Accessories Package *(optional accessories for feed units)*
S Standard

11. Accessories Location *(from the terminal, side with accessory)*
N None (N/A)

12. Straight Length *(length of section)*
0200 2 feet

13. Busway Access *(how plugs access the busway)*
C Continuous

14. Feed Location *(location of the center of the top feed)*
012 12 inches

15. Paint Color *(allows painting of the busway housing)*
STD0 Factory Mill Finish
BLK0 Paint Factory Black
WHT0 Paint Factory White
RED0 Paint Factory Red
BLU0 Paint Factory Blue
****RAL** *(please see page 2.42)*

EXAMPLE

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

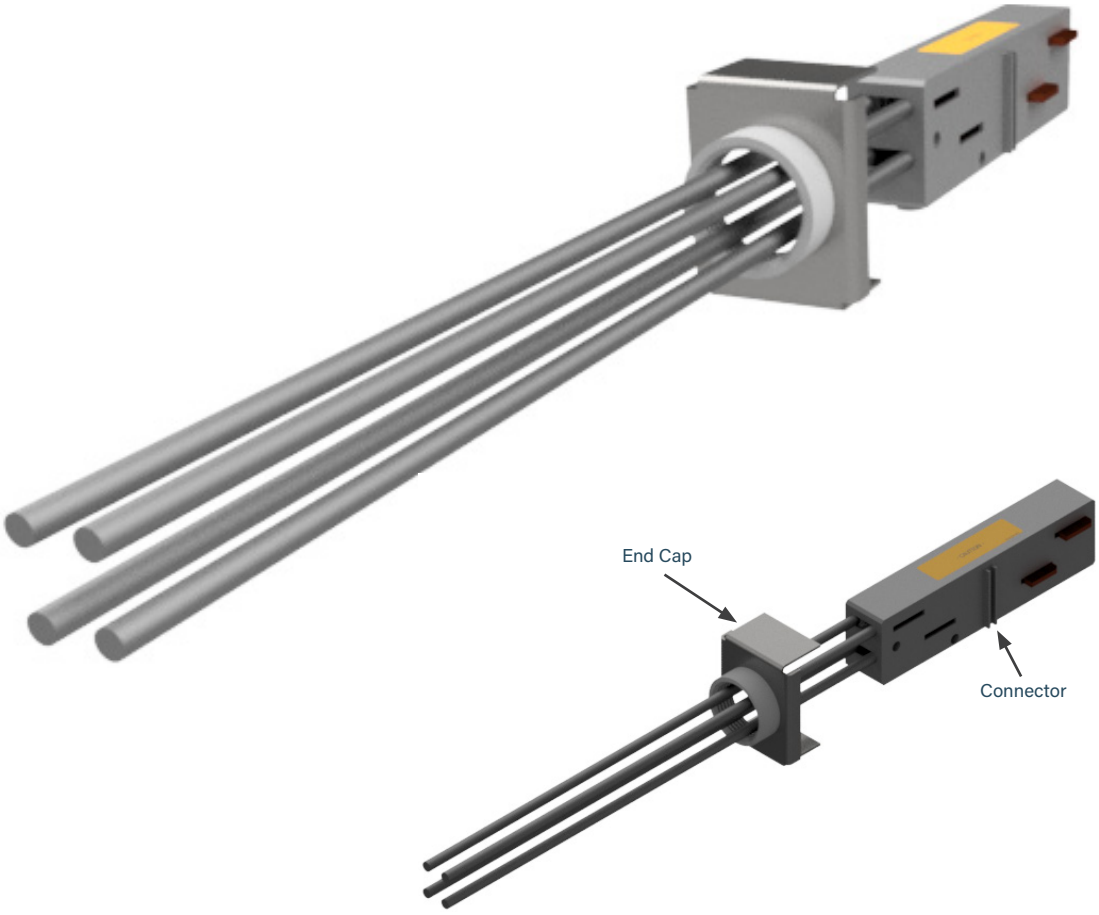
This design of power feed has a built-in connector and is used primarily in applications where aesthetic appearance is important — such as retail.

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

U	C	060	T2	C	4	S	–	024
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

60 AMP SYSTEMS

BELOW FEED UNITS: PRODUCT NUMBERS

U	B	060	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

– STD0

12. Paint Color

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

2. Product Type *(section component)*
B Below 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

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

9. Lid Orientation *(from the terminal, side with removable lid)*
R Right

10. Accessories Package *(optional accessories for feed units)*
S Standard

11. Accessories Location *(from the terminal, side with accessory)*
N None (N/A)

12. Paint Color *(allows painting of the busway housing)*
STD0 Paint Factory Silver
BLK0 Paint Factory Black
WHT0 Paint Factory White
RED0 Paint Factory Red
BLU0 Paint Factory Blue
****RAL** *(please see page 2.42)*

EXAMPLE

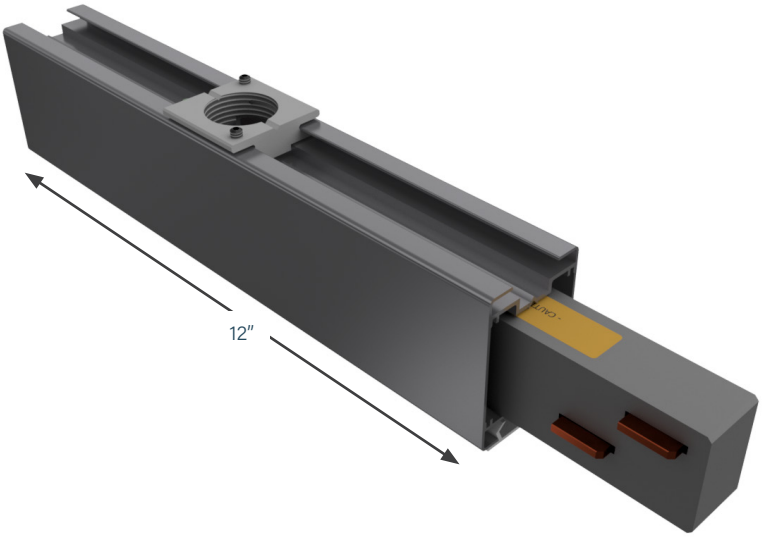
UB060T2C4S-SRSN-STD0 = *US System, Below Feed, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Standard Lugs, Standard Box, Right Lid Orientation, Standard Accessory Package, No Accessory Location, Galvanized*

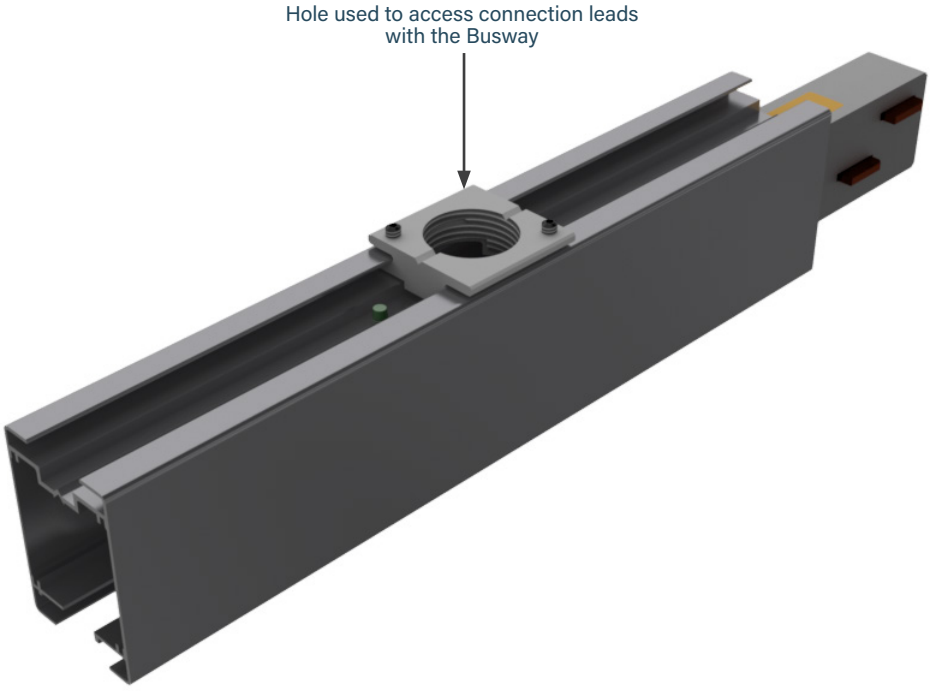
60 AMP SYSTEMS

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

U	P	060	T2	C	4	S	S
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	*8. System

– STD0

9. Paint Color

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

P Pendant 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

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

S Standard **R** Reversed

***8. System** *(Line to Line or Line to Neutral System)*

LL LL Line to Line **LN** Line to Neutral

**LL & LN specification required only when ordering a 2-pole system (reference option 6. Neutral/Ground Busbar)*

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

STD0 Factory Mill Finish
BLK0 Paint Factory Black
WHT0 Paint Factory White
RED0 Paint Factory Red
BLU0 Paint Factory Blue
****RAL** *(please see page 2.42)*

EXAMPLES

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

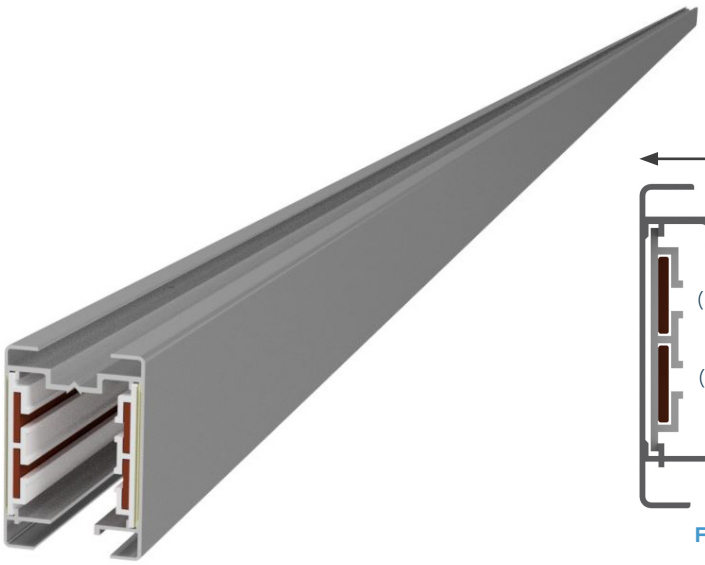
UP060T2C4S-STD0 = *US System, Pendant Feed, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Factory Mill Finish*

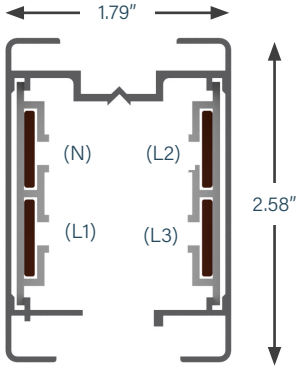
100 AMP SYSTEMS

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).

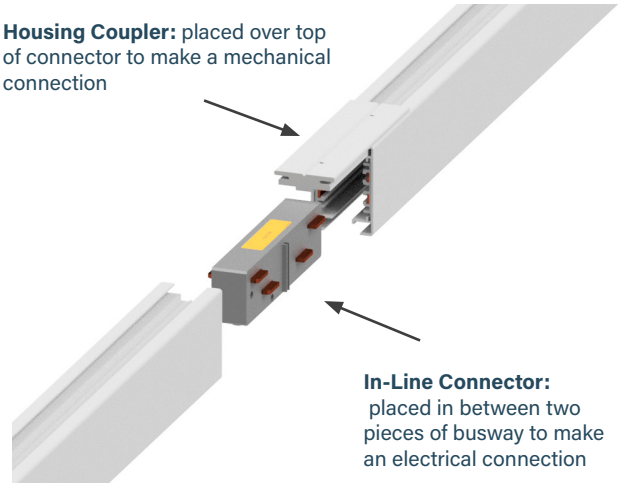




FOUR POLE

L1 = Blue
L2 = Black
L3 = Red
N = White or Beige

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

In-Line Connector: placed in between two pieces of busway to make an electrical 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

– STD0

10. Paint Color

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

2. Product Type *(section component)*
S Straight Section

3. Product Frame *(maximum amperage)*
100 100 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

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

8. Straight Length *(length of section)*
XXYY XX=feet, YY=inches

9. Busway Access *(how plugs access the busway)*
C Continuous

10. Paint Color *(allows painting of the busway housing)*

STD0 Factory Mill Finish
BLK0 Paint Factory Black
WHT0 Paint Factory White
RED0 Paint Factory Red
BLU0 Paint Factory Blue
****RAL** *(please see page 2.42)*

EXAMPLES

US100T2C4S-0206C-STD0 = *US System, Straight Section, 100 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 2 foot 6 inch Straight Length, Continuous Busway Access, Factory Mill Finish*

US100T2C4S-0500C-P010 = *US System, Straight Section, 100 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 5 foot Straight Length, Continuous Busway Access, Painted RAL 1001*

100 AMP SYSTEMS

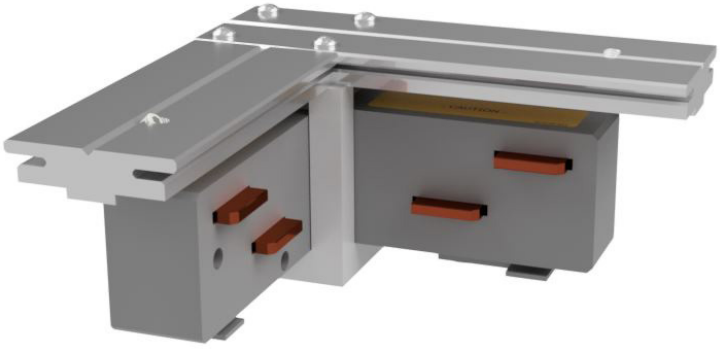
ELBOW SECTIONS

PRODUCT DESCRIPTION

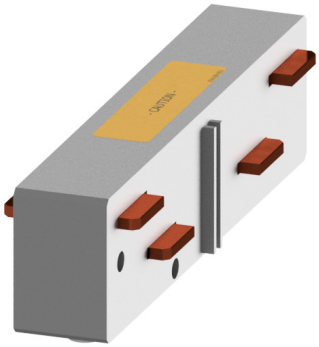
Elbow connectors are used for making a 90 degree turn in a 100 amp compact busway run. Please be aware of polarization issues before making your final selection (refer to **page 2.3 Polarity Tips**).

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

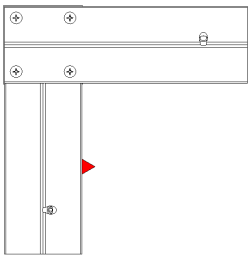


ELBOW CONNECTOR

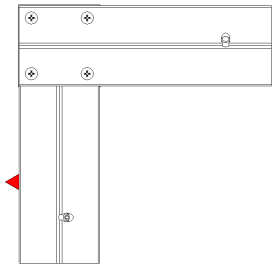


IN-LINE CONNECTOR

▲ = 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

– STD0

9. Paint Color

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

E Elbow Section

3. Product Frame *(maximum amperage)*

100 100 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

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

S Standard

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

IN Internal **EX** External

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

STD0 Factory Mill Finish
BLK0 Paint Factory Black
WHT0 Paint Factory White
RED0 Paint Factory Red
BLU0 Paint Factory Blue
****RAL** *(please see page 2.42)*

EXAMPLES

UE100T2C4S-IN-BLK0 = *US System, Elbow Section, 100 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Painted Factory Black*

UE100T2C4S-EX-STD0 = *US System, Elbow Section, 100 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, External Turning Direction, Factory Mill Finish*

100 AMP SYSTEMS

TEE SECTIONS

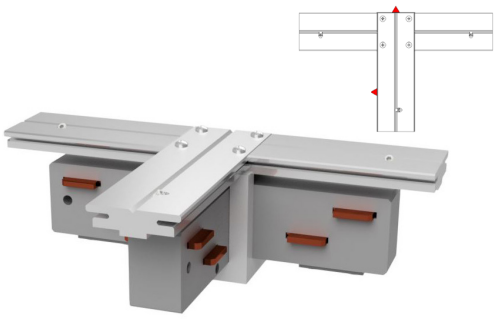
PRODUCT DESCRIPTION

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**).

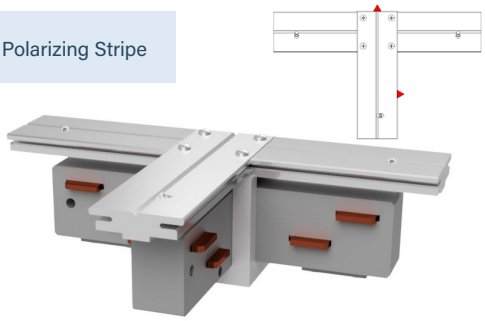
Tees are electrically connected to sections of 100 amp busway by means of an in-line connector. The connector is installed by inserting in each end of the housing sections to be joined. Hex head compression screws are tightened to make a reliable connection. All in-line connectors are polarized to prevent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

Weight 1 lb

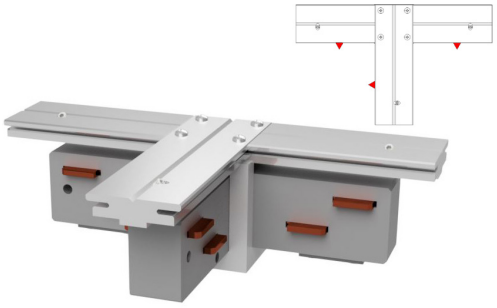
▲ = Polarizing Stripe



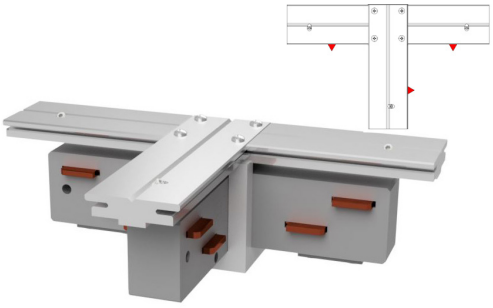
EXTERNAL-LEFT (EL)



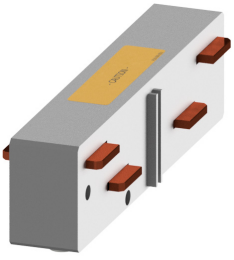
EXTERNAL-RIGHT (ER)



INTERNAL-LEFT (IL)



INTERNAL-RIGHT (IR)



IN-LINE CONNECTOR

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

– STD0

9. Paint Color

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)*

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

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

S Standard **R** Reversed

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)*

STD0 Factory Mill Finish **RED0** Paint Factory Red
BLK0 Paint Factory Black **BLU0** Paint Factory Blue
WHT0 Paint Factory White ****RAL** *(please see page 2.42)*

EXAMPLES

UT100T2C4S-IR-RED0 = *US System, Tee Section, 100 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning Direction, Painted Factory Red*

UT100T2C4S-EL-STD0 = *US System, Tee Section, 100 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, External-Left Turning Direction, Factory Mill Finish*

100 AMP SYSTEMS

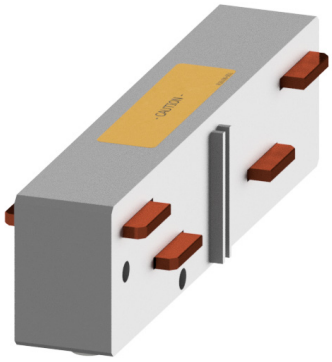
CROSS SECTIONS

PRODUCT DESCRIPTION

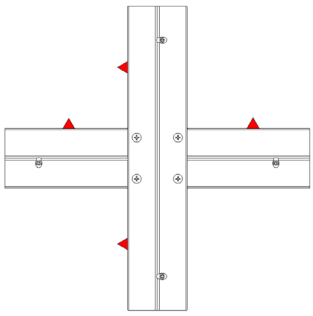
Similar to tee connectors, crosses are typically used for grid designs. Please be aware of polarization issues before making your final selection (**refer to page 2.3 Polarity Tips**).

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

– STD0

9. Paint Color

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

2. Product Type *(section component)*
X Cross Section

3. Product Frame *(maximum amperage)*
100 100 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

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

8. Turning Direction *(direction of section polarizing stripe)*
ST Standard

9. Paint Color *(allows painting of the busway housing)*
STD0 Factory Mill Finish
BLK0 Paint Factory Black
WHT0 Paint Factory White
REDO Paint Factory Red
BLU0 Paint Factory Blue
****RAL** *(please see page 2.42)*

EXAMPLES

UX100T2C4S-ST-RED0 = *US System, Cross Section, 100 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Standard Turning Direction, Painted Factory Red*

UX100T2C4S-ST-STD0 = *US System, Cross Section, 100 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Standard Turning Direction, Factory Mill Finish*

100 AMP SYSTEMS

END FEED UNITS

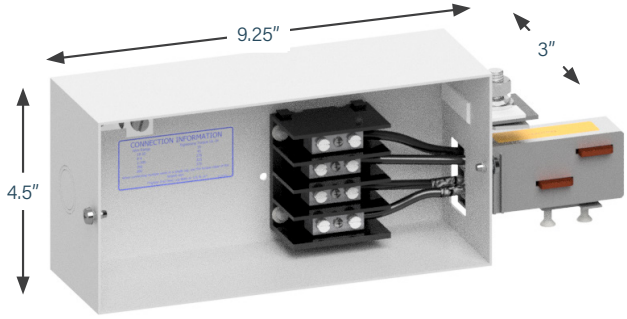
PRODUCT DESCRIPTION

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.

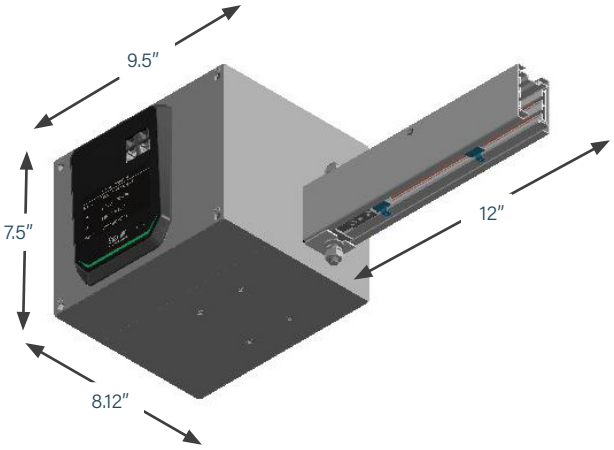
The unit is inserted into the busway and held in position via a bolted connection to the busway.

Weight
Standard box: 3.5 lbs
Large box: 12 lbs

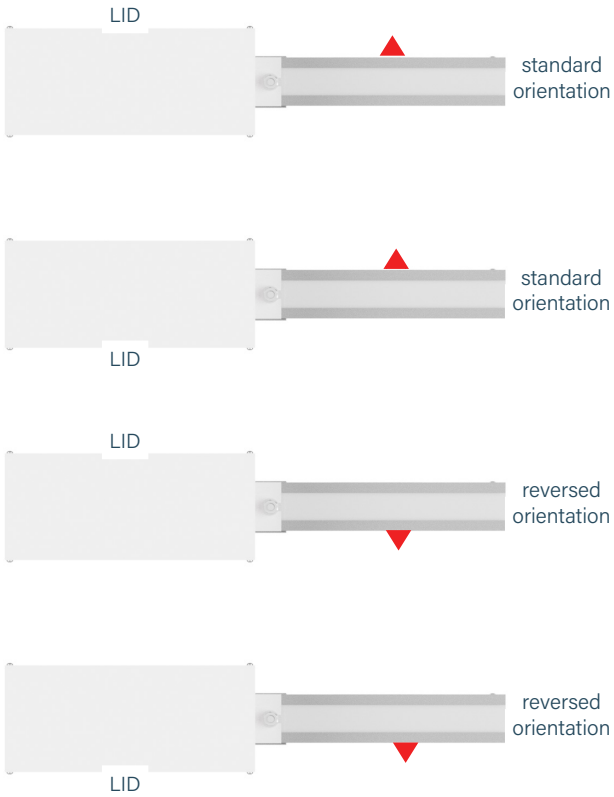
STANDARD BOX



LARGE BOX



Top View



▲ **= Polarizing Stripe**
*Plug-in units face the opposite side of the red triangle, or polarizing stripe

100 AMP SYSTEMS

END FEED UNITS: METERING

PRODUCT DESCRIPTION

End feed units can be populated with Starline's Critical Power Monitor to provide access to revenue-grade, three-phase power data. The M70 CPM is built with a 4.3-inch LCD touchscreen display a that can be angled down for easier viewing from the floor.

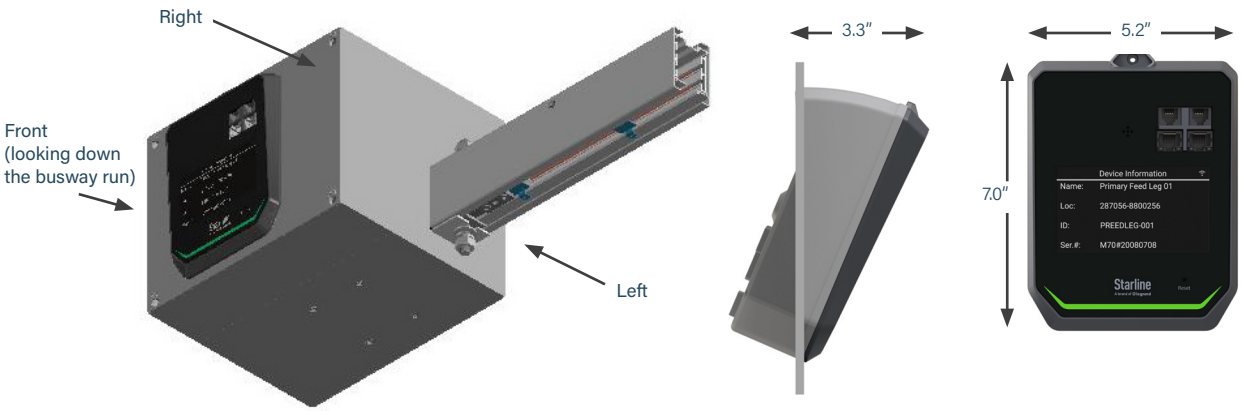
Wired ethernet and serial communications are standard with (2) RJ11 and (2) RJ45 jacks built in for easy daisy chaining. Optional 802.11n Wi-Fi connectivity is also available. Both serial Modbus and Ethernet-based protocols can be used simultaneously. These include: SNMP (v1, v2 & v3), Modbus RTU and TCP/IP, BACnet, HTTPS, and SSH.

Firmware communication options (IPV4, IPV6, DHCP, WPA2) are pre-packaged into the meter build. While these options are selected and then enabled during factory assembly, they can be re-configured at any time in the field. The M70 CPM is compatible with all major DCIM and BMS packages.

The M70 CPM can also be complemented with end feed accessories, such as real-time lug temperature monitoring, IR window scanning and audible alarms. Unlike firmware options, these hardware features are not field changeable.

The M70 is available in 110-500vac, 48vdc and 380vdc versions.

LARGE BOX



*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.

100 AMP SYSTEMS

END FEED UNITS: 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

–	0100	C	–	STD0	0	–	M73	00	1	*Optional
	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)*
100 100 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

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 **L** Standard lugs, Large box

9. Meter Location *(from the terminal, side with removable lid; meter must follow lid orientation on large box)*
R Right
L Left
N None (N/A)

10. Accessories Package *(optional accessories for feed units)*
S Standard **N** None (N/A)
**Accessories not available on standard box*

11. Accessories Location *(consult factory for Large box accessory options)*
N None (N/A)

12. Straight Length *(for large box only)*
0100 1 ft. *(For other lengths, consult the factory)*

13. Busway Access *(for large box only)*
C Continuous

14. Paint Color *(allows painting of the busway housing)*
STD0 Factory Mill Finish
BLK0 Paint Factory Black
WHT0 Paint Factory White
RED0 Paint Factory Red
BLU0 Paint Factory Blue
****RAL** *(please see page 2.42)*

15. Tape Marking *(colored tape on both sides of busway housing)*
0 No Tape Marking

EXAMPLE

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

100 AMP SYSTEMS

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

–	0100	C	–	STD0	0	–	M73	00	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type	

*16. Meter Release *(M70 AC)*

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*16. Meter Release *(M70 DC)*

M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*17. Meter Options *(M70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*18. System Configuration and CT Type *(M70 AC)*

1 Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral

8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Δ, Solid CTs, Millivolt, Measured Neutral
C Δ, Split CTs, 5A-secondary, Measured Neutral

M73
(2) RJ11, (2) RJ45, Lg. Display

M76
Wi-Fi + (2) RJ11, (2) RJ45, Lg. Display

EXAMPLE

UF100T2C4S-LRSN-0100C-STD0-MM73001 = *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 - M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral*

100 AMP SYSTEMS

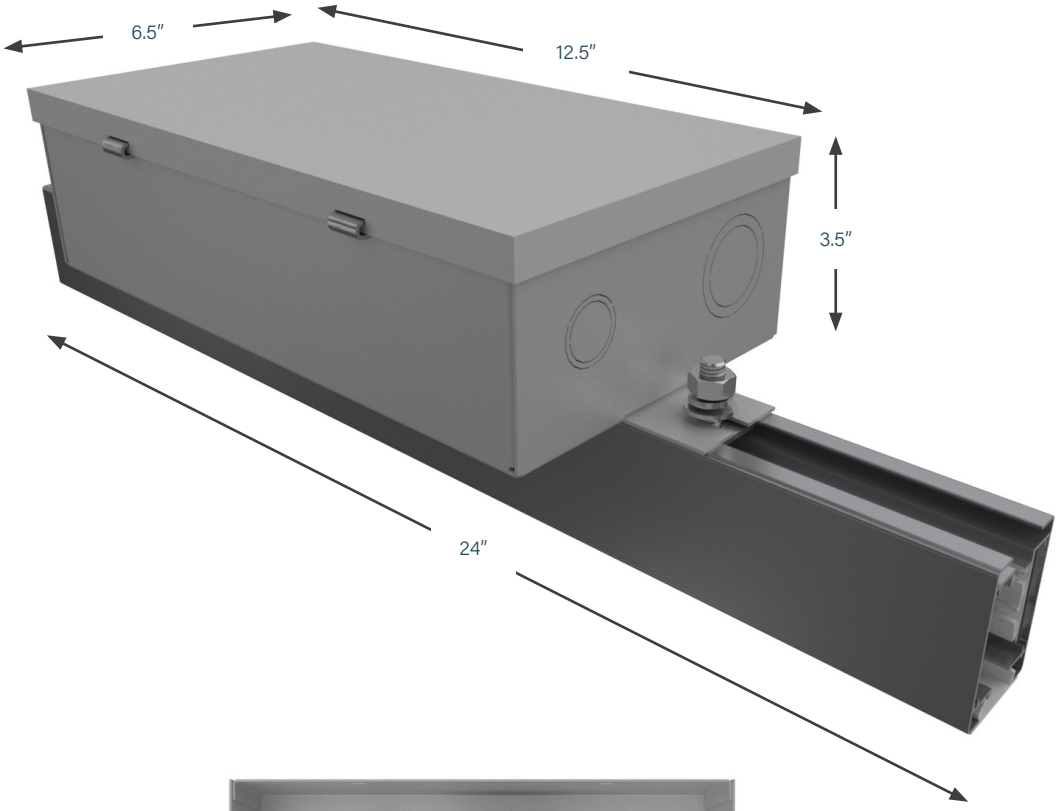
ABOVE FEED UNITS

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

100 AMP SYSTEMS

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

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

2. Product Type *(section component)*
A Above Feed

3. Product Frame *(maximum amperage)*
100 100 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

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

9. Lid Orientation *(from the terminal, side with removable lid)*
N None (N/A)

10. Accessories Package *(optional accessories for feed units)*
S Standard

11. Accessories Location *(from the terminal, side with accessory)*
N None (N/A)

12. Straight Length *(length of section)*
0200 2 feet

13. Busway Access *(how plugs access the busway)*
C Continuous

14. Feed Location *(location of the center of the top feed)*
012 12 inches

15. Paint Color *(allows painting of the busway housing)*
STD0 Factory Mill Finish
BLK0 Paint Factory Black
WHT0 Paint Factory White
RED0 Paint Factory Red
BLU0 Paint Factory Blue
****RAL** *(please see page 2.42)*

EXAMPLE

UA100T2C4S-SNSN-0200C012-BLK0 = *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*

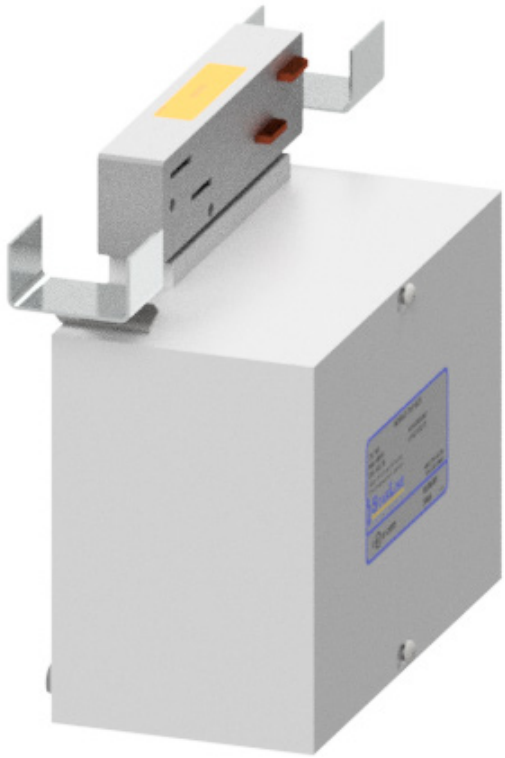
100 AMP SYSTEMS

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



100 AMP SYSTEMS

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

– STD0

12. Paint Color

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

2. Product Type *(section component)*
B Below Feed

3. Product Frame *(maximum amperage)*
100 100 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

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

9. Lid Orientation *(from the terminal, side with removable lid)*
R Right

10. Accessories Package *(optional accessories for feed units)*
S Standard

11. Accessories Location *(from the terminal, side with accessory)*
N None (N/A)

12. Paint Color *(allows painting of the busway housing)*
STD0 Factory Mill Finish
BLK0 Paint Factory Black
WHT0 Paint Factory White
RED0 Paint Factory Red
BLU0 Paint Factory Blue
****RAL** *(please see page 2.42)*

EXAMPLE

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	
P	Paint

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

3RD CHARACTER	
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

4TH CHARACTER	
0	0

EXAMPLE:

P B 2 0 = Paint RAL 3012

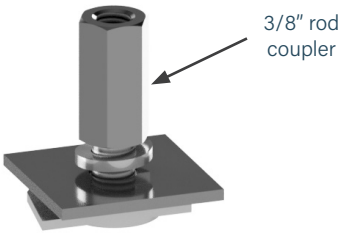
T2 SERIES

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.

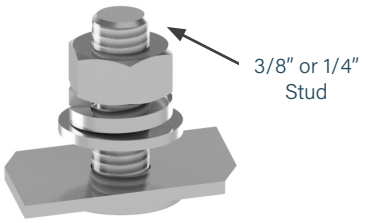
Part Number
URHB-3
Available in plain zinc
or black (-BLK)
Weight
.3 lb



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.

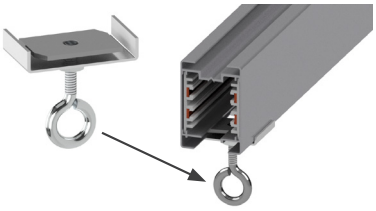
Part Number
UTHB-3 (3/8")
UTHB-1/4 (1/4")
Available in plain zinc
or black (-BLK)
Weight
.2 lb



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

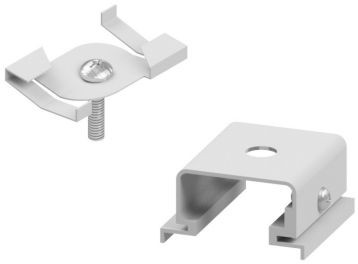
For mounting to a surface. Comes with a 3/8 inch hole.

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



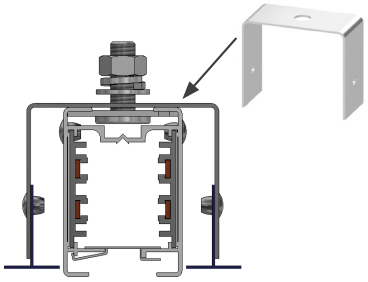
RECESSED MOUNT

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.*

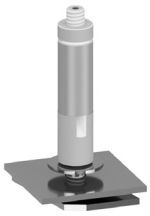
Part Number
URMT2
Available in plain zinc
Weight
.1 lb



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

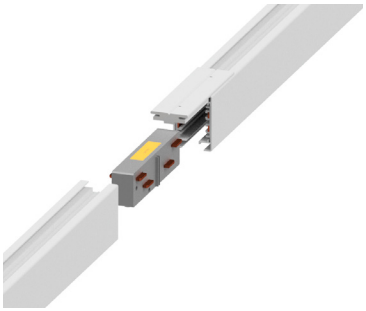
JOINT KIT

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.

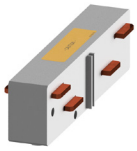
Part Number
UJKT2-4
Available in all standard and RAL colors



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

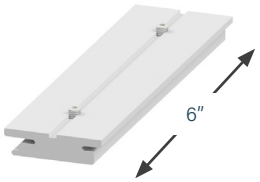


HOUSING COUPLER

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

**Hanger bolt must be ordered separately*

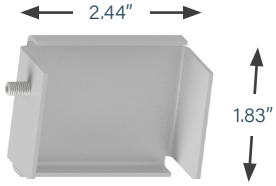
Part Number
UHCT2
Available in all standard and RAL colors



END CAP

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

Part Number
UECT2
Available in all standard and RAL colors
Weight:
.2 lb



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.**

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.**

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.**

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/**.

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

TABLE OF CONTENTS

T3 AND S3 SERIES BUSWAY

TABLE OF CONTENTS

T3 PLUG-IN UNITS

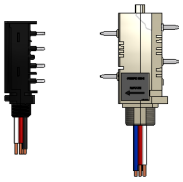
S3 PLUG-IN UNITS

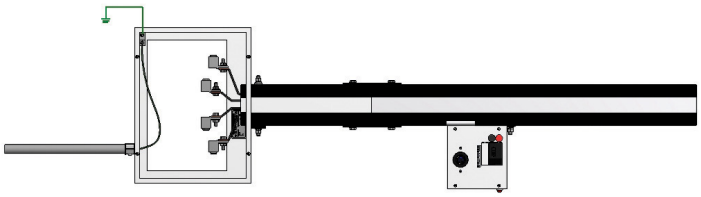
T3 AND S3 SERIES BUSWAY

GROUND OPTIONS

100 & 225 OPTIONS
CASE GROUND/CHASSIS EARTH

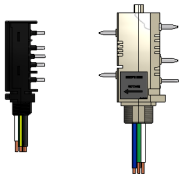
Uses aluminum housing and no extra copper bar.

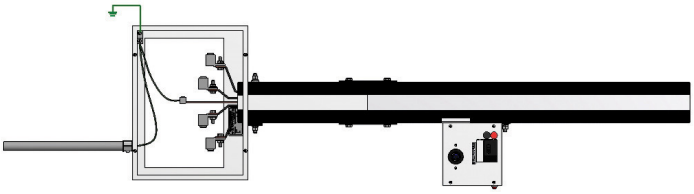




100 OPTION ONLY
DEDICATED GROUND/EARTH

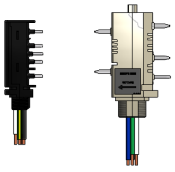
Extra bar in busway for ground. Everything tied together inside plugs. Bar and housing at same potential.

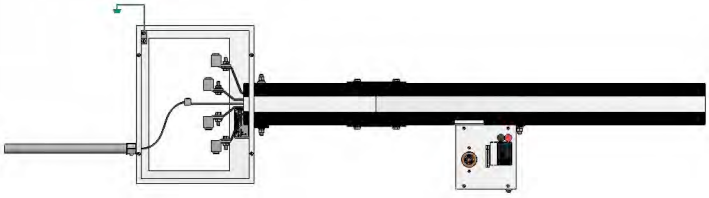




100 OPTION ONLY
ISOLATED GROUND/EARTH

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**.

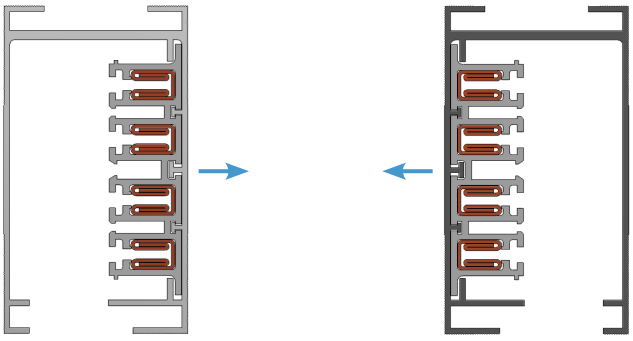
T3 AND S3 SERIES BUSWAY

POLARITY TIPS

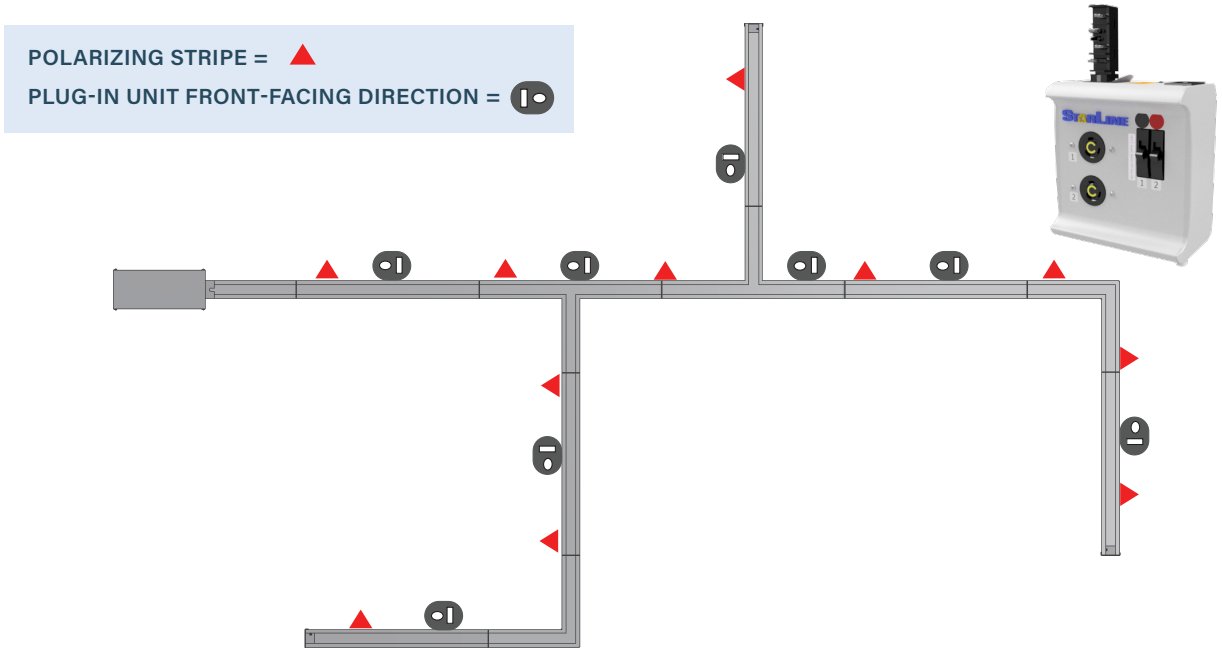
Starline utilizes a unique polarizing method to prevent mismatched components from being inadvertently connected to each other. The system is designed to prevent cross phasing during installation.

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



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 3.41** 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. 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.

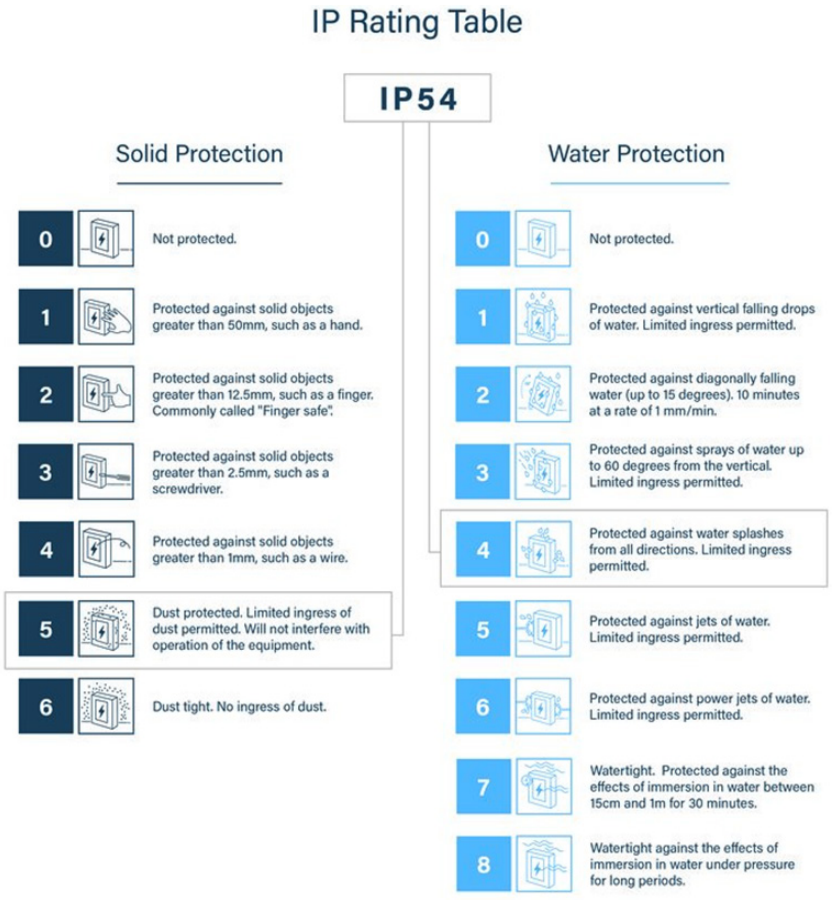
T3 AND S3 SERIES BUSWAY

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.

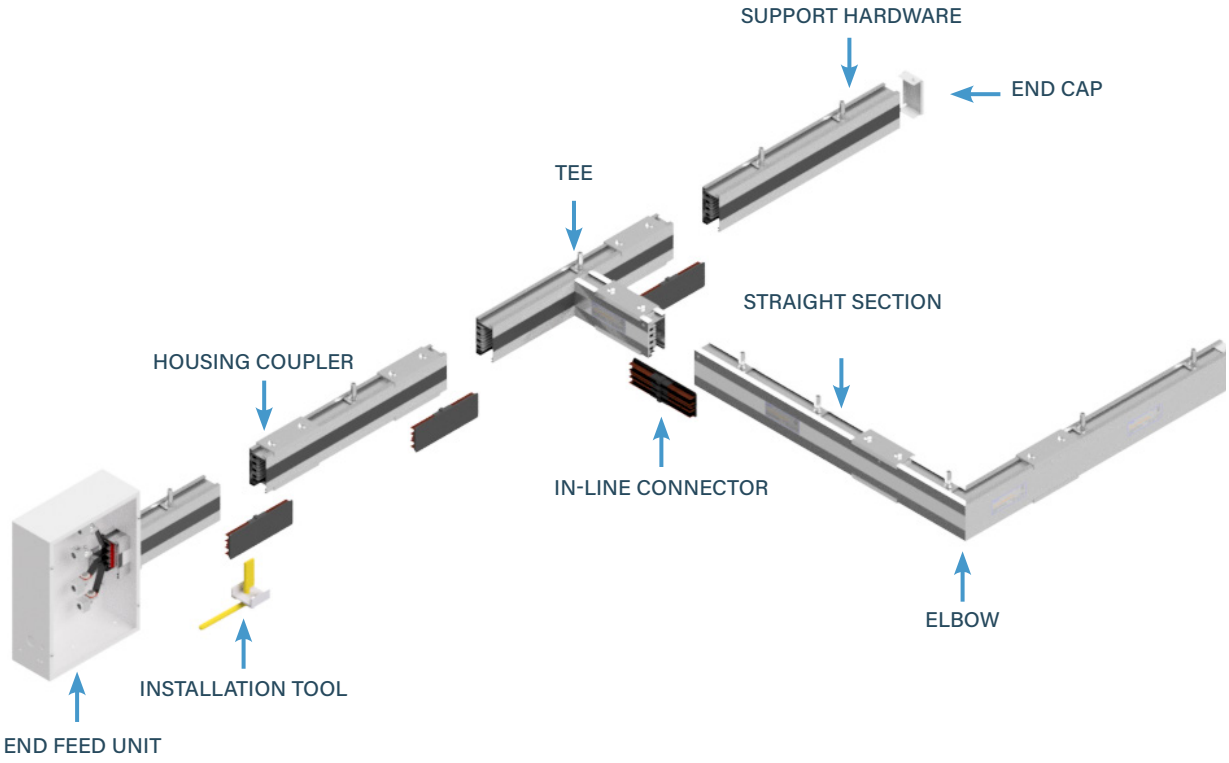
As the table indicates, for the IP54 rating the first number (5) pertains to the solid particle protection and the second (4) pertains to the level of protection from water. For purposes of real-world application of the Series-S busway system, please consider these general guidelines.

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.



T3 SERIES

SYSTEM LAYOUT DRAWING

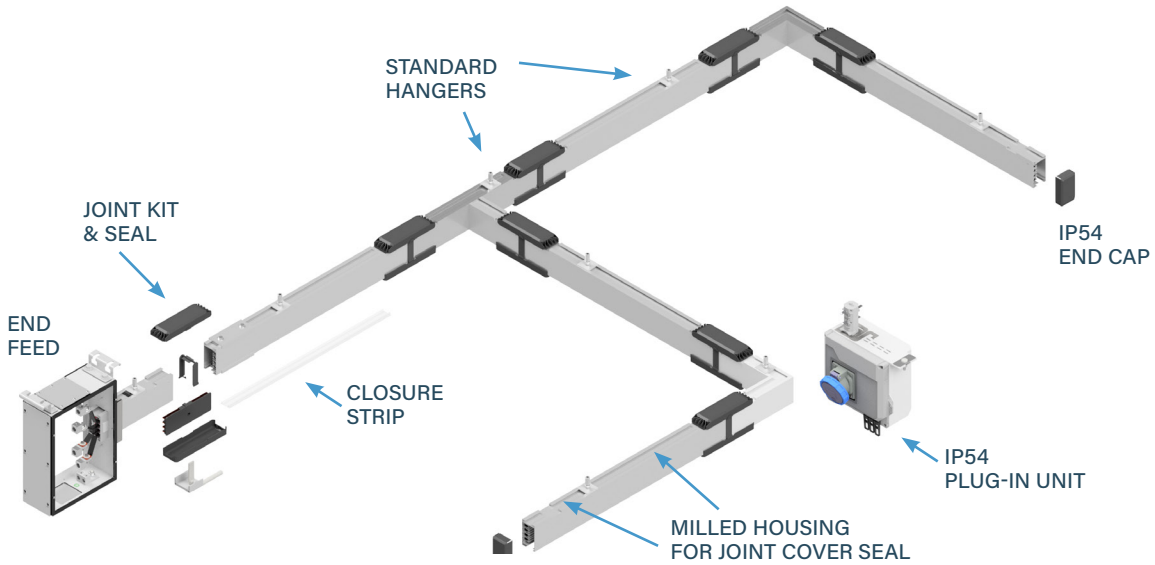


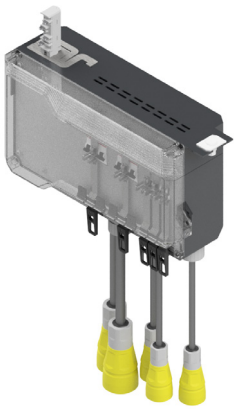
T3 PLUG-IN UNITS

See page **3.50** for further information on applicable T3 plug-in unit options.

S3 SERIES

SYSTEM LAYOUT DRAWING





S3 PLUG-IN UNITS

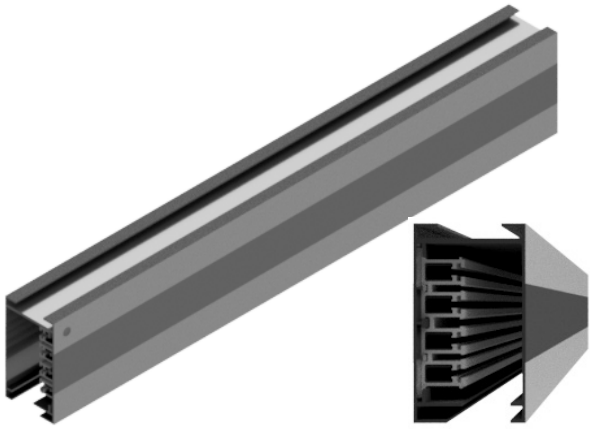
See enclosure style options page **3.76** for more information on applicable plug-in units.

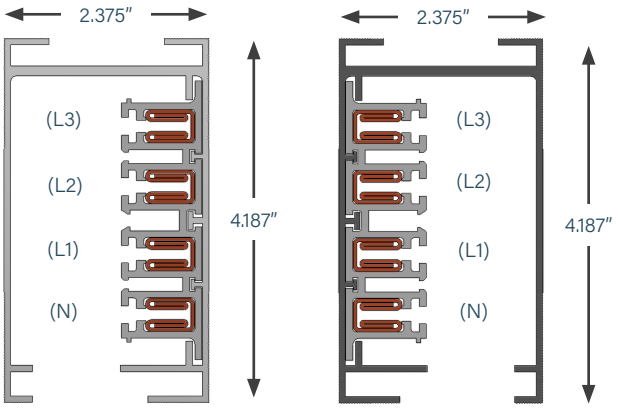
100 AMP SYSTEMS

STRAIGHT SECTIONS

PRODUCT DESCRIPTION

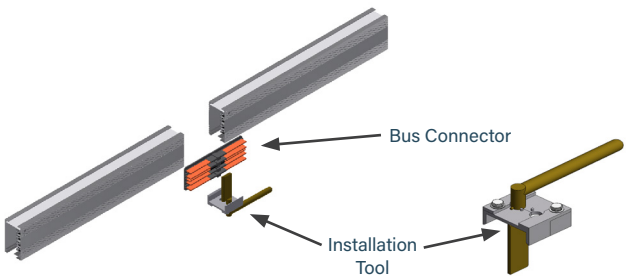
Track Busway straight section consists of an extruded aluminum shell with channel type solid copper busbars contained in a full length insulator mounted on one side of the interior wall. Each straight has an open access slot over its entire length for the insertion of turn-n-lock plug-in units. Housing 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

STRAIGHT SECTIONS: PRODUCT NUMBERS

U	S	100	T3	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

–	STD	0
	10. Paint Color	11. Tape Marking

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

S Straight 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. Straight Length *(length of section)*

XXYY XX=feet, YY=inches

9. Busway Access *(how plugs access the busway)*

C Continuous

10. 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 3.40)*

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

11. 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

US100T3C4S-0206C-STD0 = *US System, Straight Section, 100 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 2 foot 6 inch Straight Length, Continuous Access, Factory Mill Finish, No Tape Marking*

US100T3CNS-0500C-P013 = *US System, Straight Section, 100 amps, T3 System, Copper Conductor, 3 Phase plus 200% Neutral, Standard Polarization, 5 foot Straight Length, Continuous Access, Painted RAL 1001, Factory Black Tape*

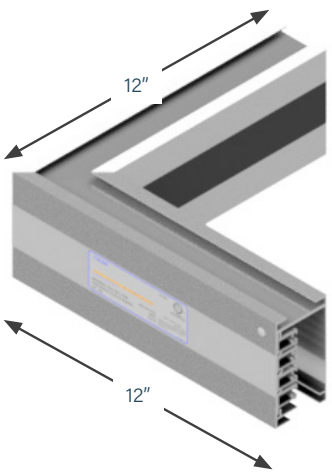
100 AMP SYSTEMS

ELBOW SECTIONS

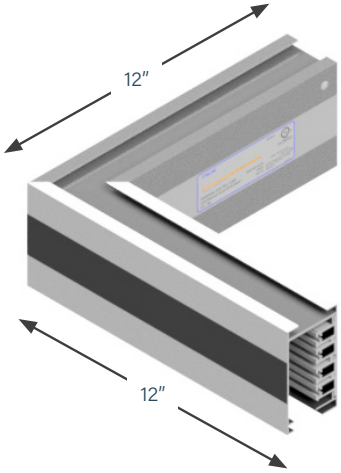
PRODUCT DESCRIPTION

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.

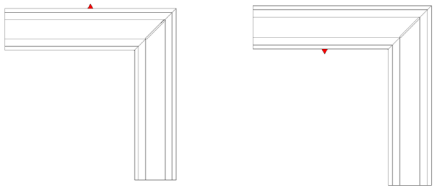
Weight 5.6 lbs



EXTERNAL ELBOW

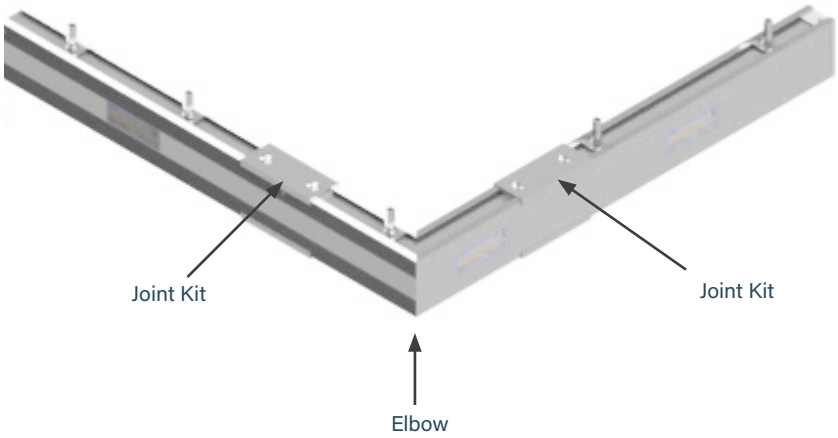


INTERNAL ELBOW



External Elbow Internal Elbow

▲ = Polarizing Stripe



100 AMP SYSTEMS

ELBOW SECTIONS: PRODUCT NUMBERS

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

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

E Elbow 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)*

IN Internal
HN Seismic Internal
EX External
GX Seismic External

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

STD Factory Mill Finish
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 3.40)*

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
3 Tape Factory Black
4 Tape Factory White
6 Tape Factory Red
7 Tape Factory Blue
8 Tape Factory Green
9 Tape Factory Yellow

EXAMPLES

UE100T3C4S-IN-BLK4 = *US System, Elbow Section, 100 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Painted Factory Black, Factory White Tape*

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*

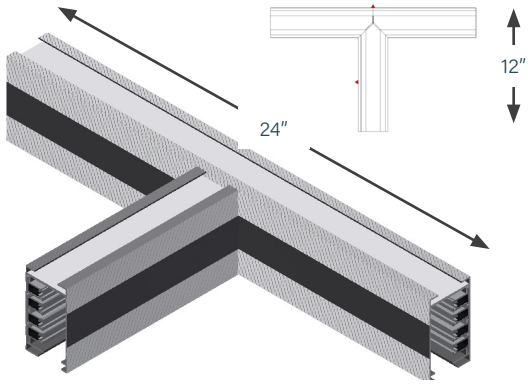
100 AMP SYSTEMS

TEE SECTIONS

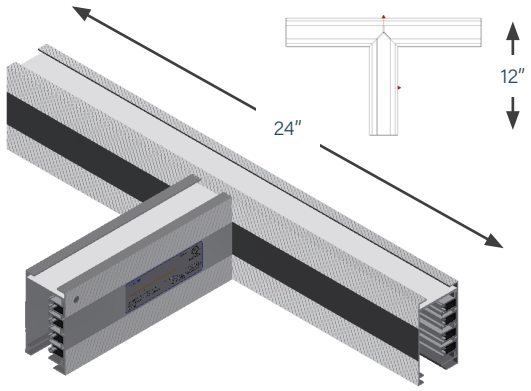
PRODUCT DESCRIPTION

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.

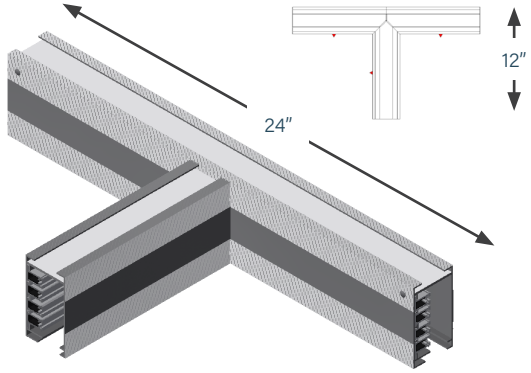
Weight 8 lbs



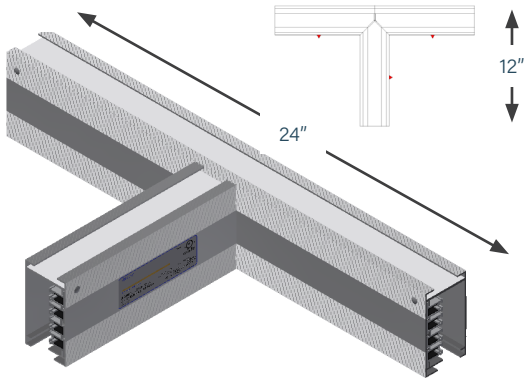
EXTERNAL-LEFT (EL)



EXTERNAL-RIGHT (ER)



INTERNAL-LEFT (IL)



INTERNAL-RIGHT (IR)

▲ = Polarizing Stripe

100 AMP SYSTEMS

TEE SECTIONS: PRODUCT NUMBERS

U	T	100	T3	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

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)*

IL	Internal-Left	**EL**	External-Left
IR	Internal-Right	**ER**	External-Right
HL	Seismic Internal-Left	**GL**	Seismic External-Left
HR	Seismic Internal-Right	**GR**	Seismic 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 3.40)*

***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

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

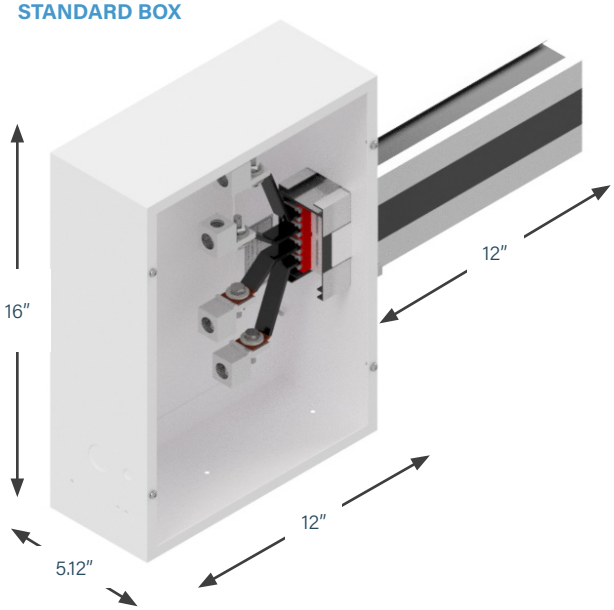
PRODUCT DESCRIPTION

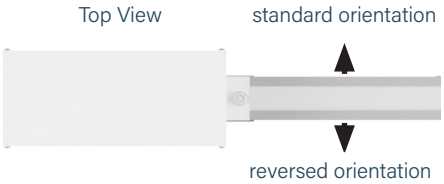
End power feed units connect to the end of the busway. A large size, factory assembled unit consists of a steel junction box, with removable sides, connected to a 12 inch section of busway. The assembly includes connection lugs, a ground lug and shrink tubing for wires up to 300 MCM.

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





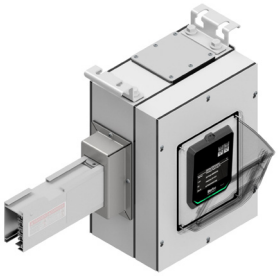
INFRARED (IR) WINDOW OPTIONS:
Refer to option 10. Accessories Package on **page 3.21** End Feed Units: Product Numbers

Large box with circular IR window

	BOXES		
LUGS	Standard	Large	Fused
Standard	**S**	**L**	
Double	**D**	**A**	
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



100S3 End Feed with CPM

100 AMP SYSTEMS

END FEED UNITS: METERING

PRODUCT DESCRIPTION

End feed units can be populated with Starline's Critical Power Monitor to provide access to revenue-grade, three-phase power data. The M70 CPM is built with a 4.3-inch LCD touchscreen display that can be angled down for easier viewing from the floor.

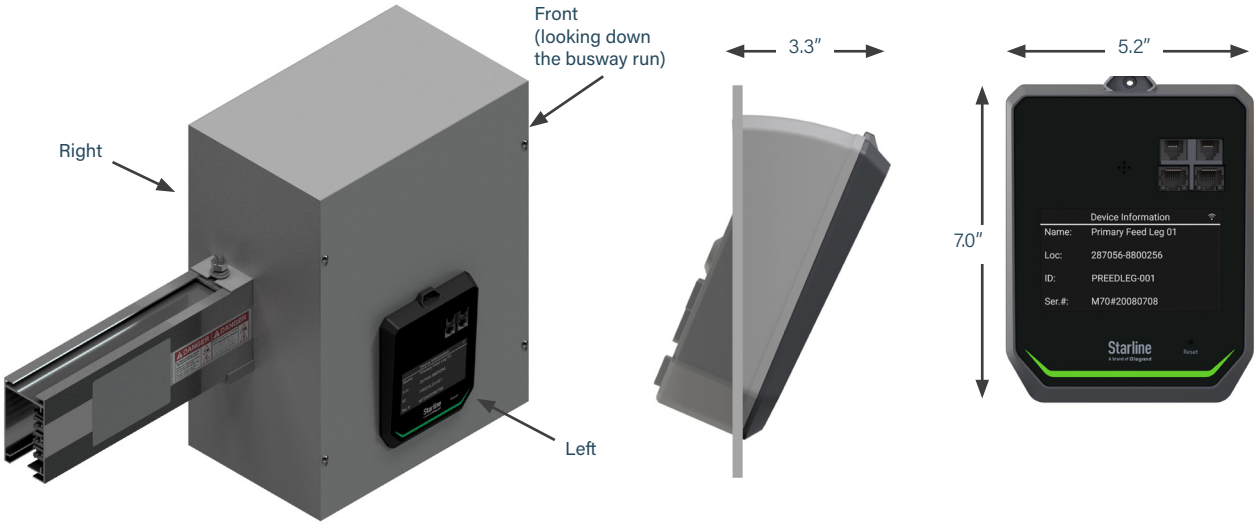
Wired ethernet and serial communications are standard with (2) RJ11 and (2) RJ45 jacks built in for easy daisy chaining. Optional 802.11n Wi-Fi connectivity is also available. Both serial Modbus and Ethernet-based protocols can be used simultaneously. These include: SNMP (v1, v2 & v3), Modbus RTU and TCP/IP, BACnet, HTTPS, and SSH.

Firmware communication options (IPV4, IPV6, DHCP, WPA2) are pre-packaged into the meter build. While these options are selected and then enabled during factory assembly, they can be re-configured at any time in the field. The M70 CPM is compatible with all major DCIM and BMS packages.

The M70 CPM can also be complemented with end feed accessories, such as real-time lug temperature monitoring, IR window scanning and audible alarms. Unlike firmware options, these hardware features are not field changeable.

The M70 is available in 110-500vac, 48vdc and 380vdc versions.

STANDARD BOX



*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).*

*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

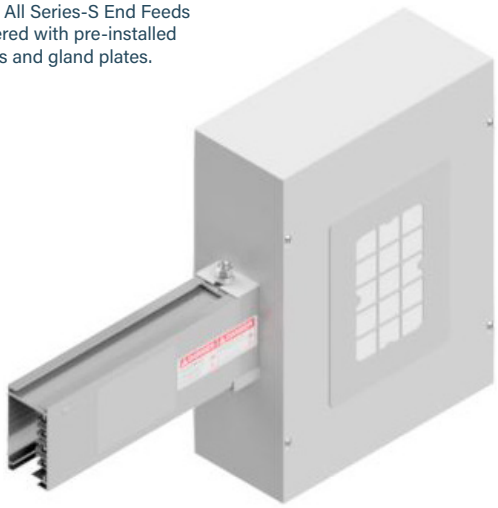
IR WINDOWS

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. M70 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)*

100 AMP SYSTEMS

END FEED UNITS: PRODUCT NUMBERS

U	F	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

–	0100	C	–	STD	0	–	M73	00	1	*Optional
	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)*

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
R Reversed

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

S Standard lugs, Standard box
L Standard lugs, Large box
D Double lugs, Standard box
A Double lugs, Large box

9. Meter Location *(from the terminal, side with removable lid; meter must follow lid orientation on large box)*

R Right
L Left
N None (N/A)

10. Accessories Package *(optional accessories for feed units)*

T3 Options:
S Standard
G Starline Rect. IR Window, 5"x7"
C IR Window - Circular
O Seismic Mounting Holes
D Seismic with IR Window Circular
Q Seismic with IR Window Rectangular

S3 Options:
F S3 Standard (includes hangars and gland plates)
B S3 Standard + IR Window - Circular

11. Accessories Location *(from the terminal, side with accessory)*

N None (N/A)
L Left
R Right
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
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 3.40)*

15. Tape Marking *(colored tape on both sides of busway housing)*

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

EXAMPLE

UF100T3C4R-LNSN-0100C-STD0 = *US System, End Feed, 100 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Large Box, No Meter Location, Standard Accessory Package, No Accessory Location- 1 foot Straight Length, Continuous Busway Access- Factory Mill Finish, No Tape Marking*

100 AMP SYSTEMS

END FEED METERING: PRODUCT NUMBERS

U	F	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

–	0100	C	–	STD	0	–	M73	00	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type	

*16. Meter Release *(M70 AC)*

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*16. Meter Release *(M70 DC)*

M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*17. Meter Options *(M70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*18. System Configuration and CT Type *(M70 AC)*

1 Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral

8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Δ, Solid CTs, Millivolt, Measured Neutral
C Δ, Split CTs, 5A-secondary, Measured Neutral

*18. System Configuration and CT Type *(M70 DC)*

J DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT

M73
(2) RJ11, (2) RJ45, Lg. Display

M76
Wi-Fi + (2) RJ11, (2) RJ45, Lg. Display

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

EXAMPLE

UF100T3C4R-LNSN-0100C-STD0-M73001= *US System, End Feed, 100 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Large Box, No Meter Location, Standard Accessory Package, No Accessory Location, 1 foot Straight Length, Continuous Busway Access, Factory Mill Finish, No Tape Marking, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral*

100 AMP SYSTEMS

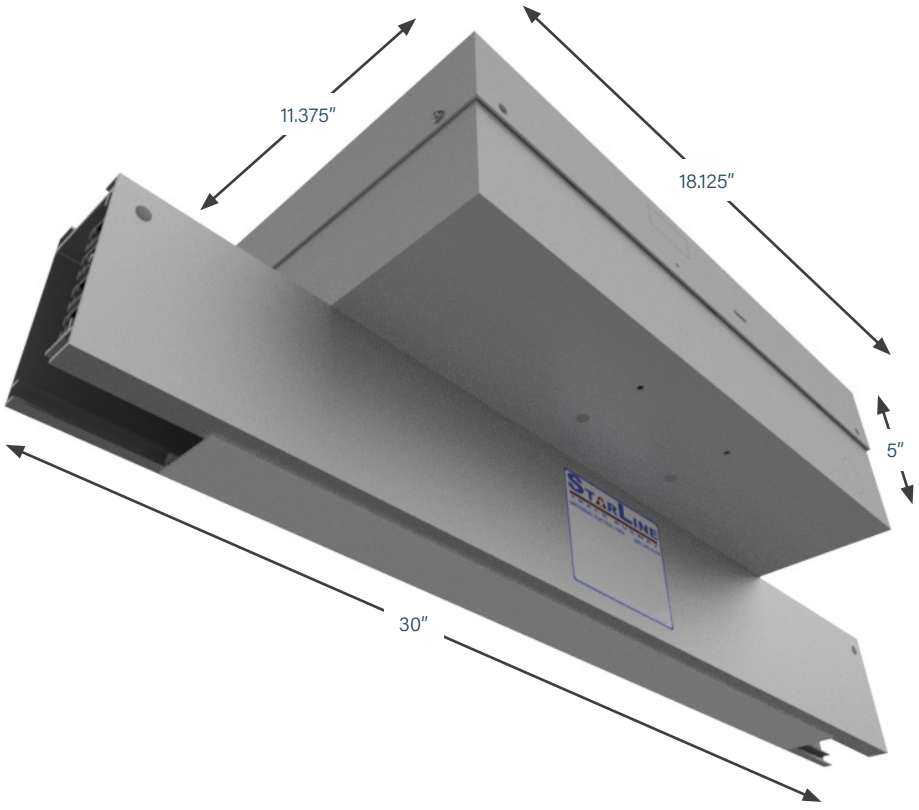
ABOVE FEED UNITS

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



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	–	M73	00	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)*

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

N 3 Phase plus 200% Neutral

G 3 Phase plus Neutral plus Internal Ground Conductor

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 **L** Standard lugs, Large box

9. Meter Location *(from the terminal, side with removable lid; meter must follow lid orientation on large box)*

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)

12. Straight Length *(length of section)*

0206 2 feet, 6 inches

13. Busway Access *(how plugs access the busway)*

C Continuous

14. Feed Location *(location of the center of the top feed)*

015 15 inches *(For other lengths, consult the factory)*

15. Paint Color *(allows painting of the busway housing)*

STD Factory Mill Finish
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 3.40)*

16. Tape Marking *(colored tape on both sides of busway housing)*

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

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*

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	–	M73	00	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	

*17. Meter Release *(M70 AC)*

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*17. Meter Release *(M70 DC)*

M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*18. Meter Options *(M70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*19. System Configuration and CT Type *(M70 AC)*

1 Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral

8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Δ, Solid CTs, Millivolt, Measured Neutral
C Δ, Split CTs, 5A-secondary, Measured Neutral

*19. System Configuration and CT Type *(M70 DC)*

J DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT

EXAMPLE

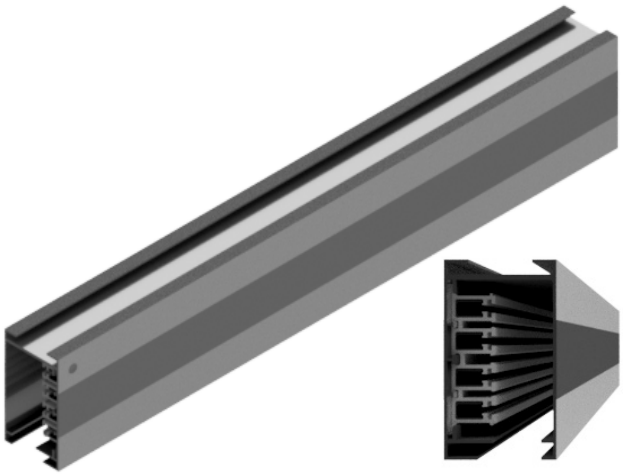
UA100T3CFS-LNSN-0206C015-STD0 = *US System, Above Feed, 100 amps, T3 System, Copper Conductor, 3 Phase plus 200% Neutral plus Internal Ground Conductor, Standard Polarization, Standard Lugs, Large Box, No Lid Orientation, Standard Accessory Package, No Accessory Location- 2 foot 6 inch Straight Length,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

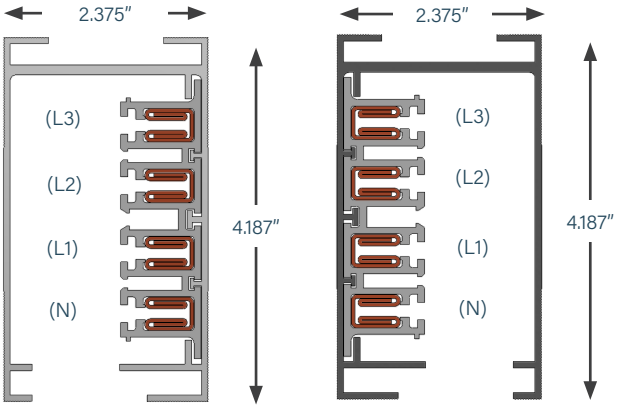
225 AMP SYSTEMS

STRAIGHT SECTIONS

PRODUCT DESCRIPTION

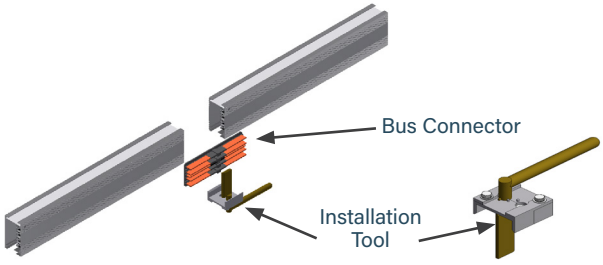
Track Busway straight section consists of an extruded aluminum shell with channel type solid copper busbars contained in a full length insulator mounted on one side of the interior wall. Each straight has an open access slot over its entire length for the insertion of turn-n-lock plug-in units. Housing 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 ***Note:*** *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



225 AMP SYSTEMS

STRAIGHT SECTIONS: PRODUCT NUMBERS

U	S	225	T3	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

–	STD	0
	10. Paint Color	11. Tape Marking

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

S Straight Section

3. Product Frame *(maximum amperage)*

225 225 amps

4. Compatibility *(frame compatibility)*

T3 T3 System

5. Material *(busbar material)*

C Copper

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

4 3 Phase plus Neutral

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

S Standard

8. Straight Length *(length of section)*

XXYY XX=feet, YY=inches

9. Busway Access *(how plugs access the busway)*

C Continuous

10. 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 3.40)*

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

11. 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

US225T3C4S-0206C-STD6 = *US System, Straight Section, 225 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 2 foot 6 inch Straight Length, Continuous Busway Access, Factory Mill Finish, Factory Red Tape*

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*

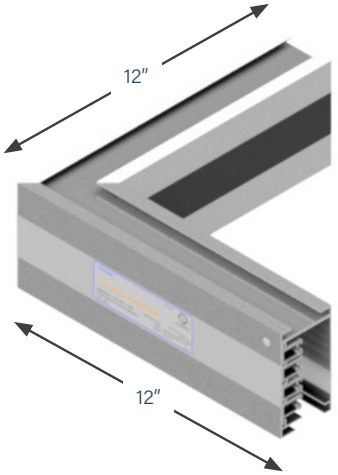
225 AMP SYSTEMS

ELBOW SECTIONS

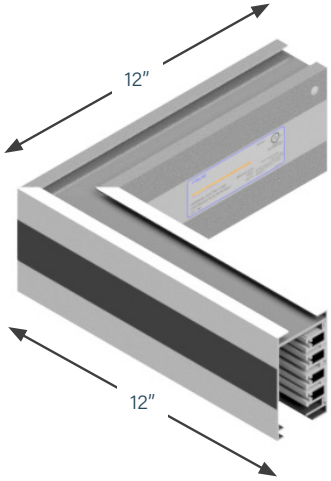
PRODUCT DESCRIPTION

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.

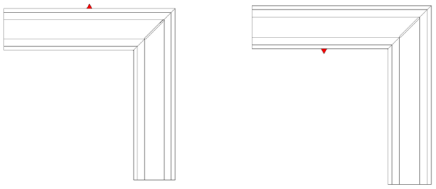
Weight 5.5 lbs



EXTERNAL ELBOW

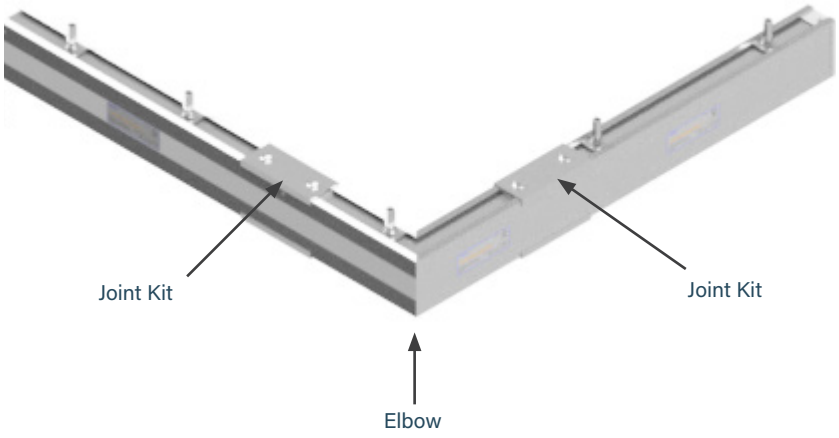


INTERNAL ELBOW



External Elbow Internal Elbow

▲ = Polarizing Stripe



225 AMP SYSTEMS

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

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

E Elbow Section

3. Product Frame *(maximum amperage)*

225 225 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

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

S Standard

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

IN Internal
HN Seismic Internal
EX External
GX Seismic External

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

STD Factory Mill Finish
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 3.40)*

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
3 Tape Factory Black
4 Tape Factory White
6 Tape Factory Red
7 Tape Factory Blue
8 Tape Factory Green
9 Tape Factory Yellow

EXAMPLES

UE225T3C4S-EX-WHT0 = *US System, Elbow Section, 225 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, External Turning Direction, Painted Factory White, No Tape Marking*

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*

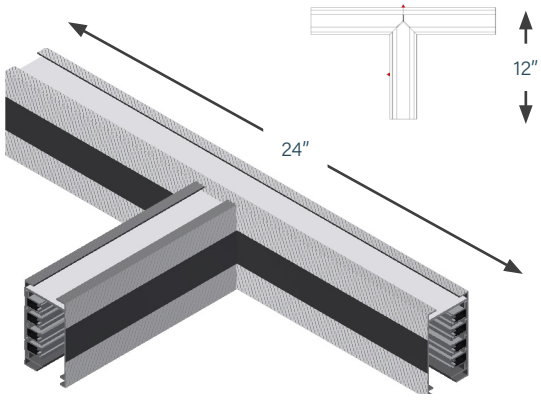
225 AMP SYSTEMS

TEE SECTIONS

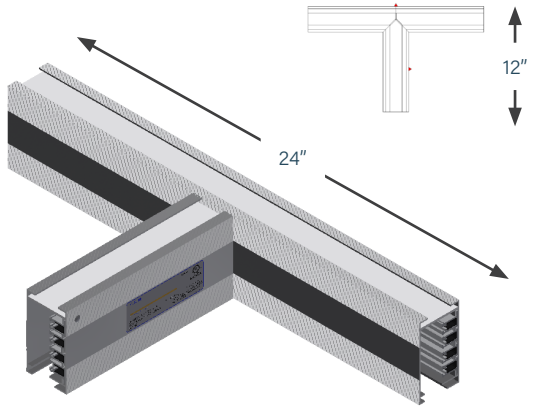
PRODUCT DESCRIPTION

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.

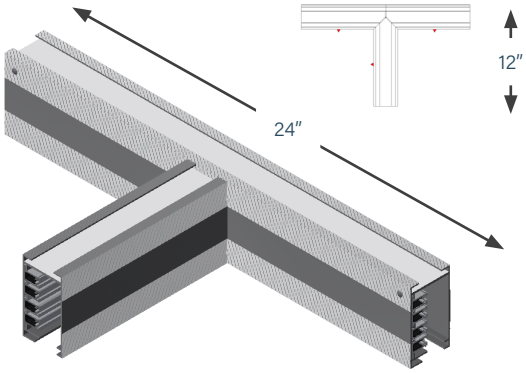
Weight 9.2 lbs



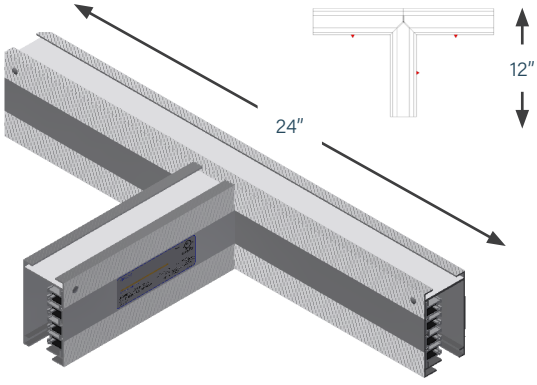
EXTERNAL-LEFT (EL)



EXTERNAL-RIGHT (ER)



INTERNAL-LEFT (IL)



INTERNAL-RIGHT (IR)

▲ = Polarizing Stripe

225 AMP SYSTEMS

TEE SECTIONS: PRODUCT NUMBERS

U	T	225	T3	C	4	S	–	IR	–	STD	0
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction		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)*

225 225 amps

4. Compatibility *(frame compatibility)*

T5 T5 System **S5** S5 System

5. Material *(busbar material)*

C Copper

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

4 3 Phase plus Neutral

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
HL	Seismic Internal-Left	**GL**	Seismic External-Left
HR	Seismic Internal-Right	**GR**	Seismic 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 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)*

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

UT225T3C4S-IR-BLU0 = *US System, Tee Section, 225 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning Direction, Painted Factory Blue, No Tape Marking*

UT225T3C4S-EL-STD0 = *US System, Tee Section, 225 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, External-Left Turning Direction, Factory Mill Finish, No Tape Marking*

225 AMP SYSTEMS

END FEED UNITS

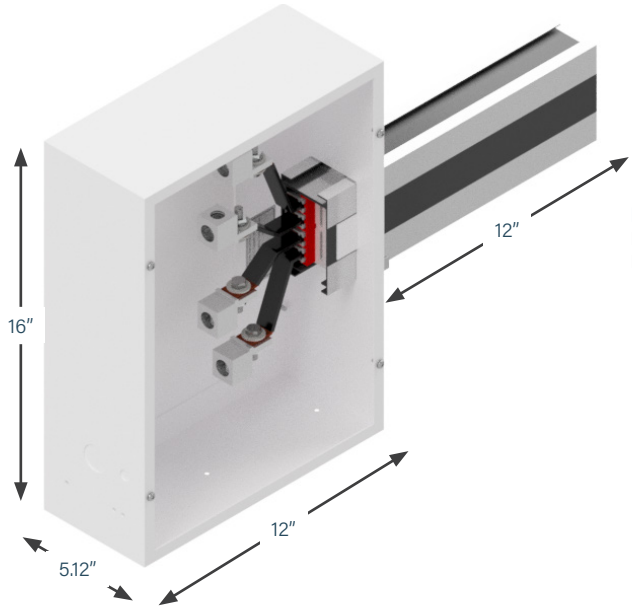
PRODUCT DESCRIPTION

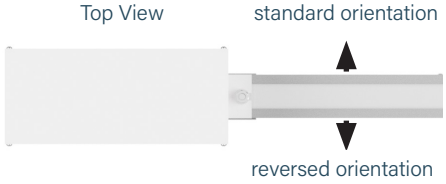
Standard end power feed units connect to the end of the busway. Factory assembled unit consists of a steel junction box, with removable side, connected to a 12 inch section of busway. The assembly includes connection lugs, a ground lug and shrink tubing for wires up to 300 MCM.

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

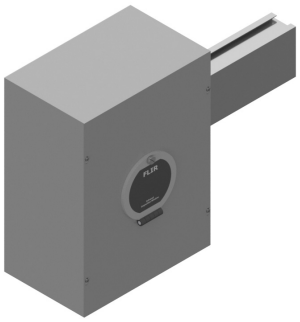
Special need power feed units for confined spaces as found in mission critical data centers can also be designed and fabricated requiring minimum quantities.

STANDARD BOX





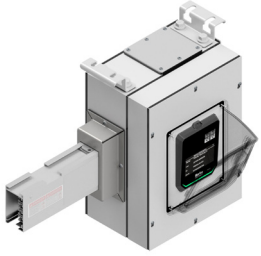
INFRARED (IR) WINDOW OPTIONS:
Refer to option 10. Accessories Package on **page 3.35** End Feed Units: Product Numbers



Large box with circular IR window

	BOXES		
LUGS	Standard	Large	Fused
Standard	**S**	**L**	
Double	**D**	**A**	
Bolt			

Box size and Lug options: Refer to option 8. Lug/Box Options on **page 3.35** *End Feed Units: Product Numbers*



225S3 End Feed with CPM

225 AMP SYSTEMS

END FEED UNITS: METERING

PRODUCT DESCRIPTION

End feed units can be populated with Starline's Critical Power Monitor to provide access to revenue-grade, three-phase power data. The M70 CPM is built with a 4.3-inch LCD touchscreen display that can be angled down for easier viewing from the floor.

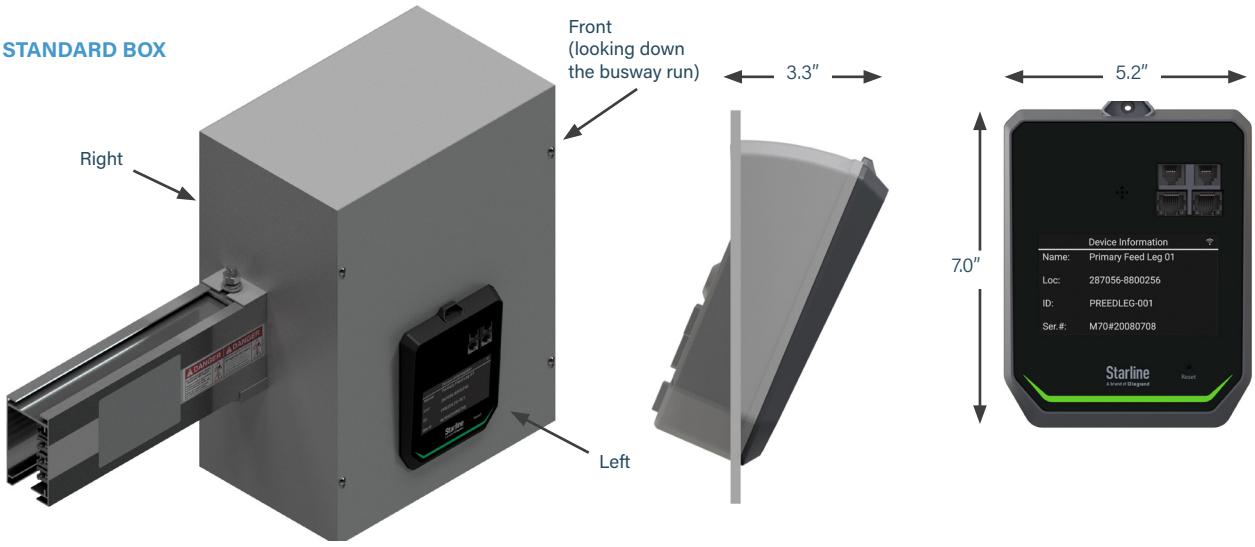
Wired ethernet and serial communications are standard with (2) RJ11 and (2) RJ45 jacks built in for easy daisy chaining. Optional 802.11n Wi-Fi connectivity is also available. Both serial Modbus and Ethernet-based protocols can be used simultaneously. These include: SNMP (v1, v2 & v3), Modbus RTU and TCP/IP, BACnet, HTTPS, and SSH.

Firmware communication options (IPV4, IPV6, DHCP, WPA2) are pre-packaged into the meter build. While these options are selected and then enabled during factory assembly, they can be re-configured at any time in the field. The M70 CPM is compatible with all major DCIM and BMS packages.

The M70 CPM can also be complemented with end feed accessories, such as real-time lug temperature monitoring, IR window scanning and audible alarms. Unlike firmware options, these hardware features are not field changeable.

The M70 is available in 110-500vac, 48vdc and 380vdc versions.

STANDARD BOX



*The above arrows show how to determine your meter location on an end feed *(Refer to option 9. Meter Location on* **page 3.35** *End Feed Units: Product Numbers).*

*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.

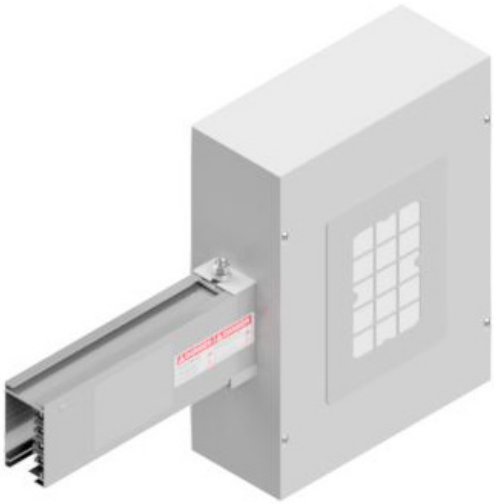
When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

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.

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



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

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. M70 Options on **page 3.36** End Feed Units: Product Numbers)*
*(Refer to option 10. Accessories Package on **page 3.35** End Feed Units: Product Numbers)*

225 AMP SYSTEMS

END FEED UNITS: PRODUCT NUMBERS

U	F	225	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

–	0100	C	–	STD	0	–	M73	00	1	*Optional
	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)*

225 225 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

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
L Standard lugs, Large box
D Double lugs, Standard box
A Double lugs, Large box

9. Meter Location *(from the terminal, side with removable lid; meter must follow lid orientation on large box)*

R Right
N None (N/A)
L Left

10. Accessories Package *(optional accessories for feed units)*

T3 Options:
S Standard
G Starline Rect. IR Window, 5"x7"
C IR Window - Circular
O Seismic Mounting Holes
D Seismic with IR Window Circular
Q Seismic with IR Window Rectangular

S3 Options:
F S3 Standard (includes hangars and gland plates)
B S3 Standard + IR Window - Circular

11. Accessories Location *(from the terminal, side with accessory)*

N None (N/A)
L Left
R Right
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
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 3.40)*

15. Tape Marking *(colored tape on both sides of busway housing)*

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

EXAMPLE

UF225T3C4R-DRSN-0100C-BLK0 = *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*

225 AMP SYSTEMS

END FEED METERING: PRODUCT NUMBERS

U	F	225	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

–	100	C	–	STD	0	–	M73	00	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type	

*16. Meter Release *(M70 AC)*

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*16. Meter Release *(M70 DC)*

M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*17. Meter Options *(M70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*18. System Configuration and CT Type *(M70 AC)*

1 Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral

8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Δ, Solid CTs, Millivolt, Measured Neutral
C Δ, Split CTs, 5A-secondary, Measured Neutral

*18. System Configuration and CT Type *(M70 DC)*

J DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT

M73
(2) RJ11, (2) RJ45, Lg. Display

M76
Wi-Fi + (2) RJ11, (2) RJ45, Lg. Display

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

EXAMPLE

UF225T3C4R-DRSN-0100C-BLK0-M73001 = *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, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral*

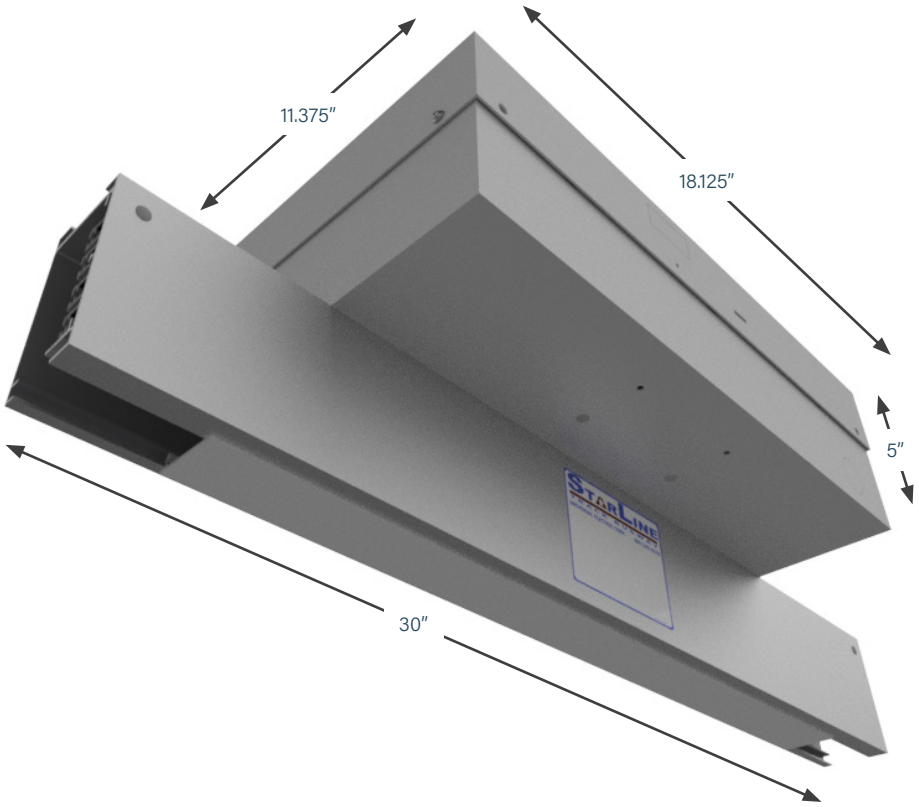
225 AMP SYSTEMS

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



225 AMP SYSTEMS

ABOVE FEED UNITS: PRODUCT NUMBERS

U	A	225	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	–	M73	00	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)*

225 225 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

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 **L** Standard lugs, Large box

9. Meter Location *(from the terminal, side with removable lid; meter must follow lid orientation on large box)*

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)*

0206 2 feet, 6 inches

13. Busway Access *(how plugs access the busway)*

C Continuous

14. Feed Location *(location of the center of the top feed)*

015 15 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 3.40)*

NOTE: *All Above 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

EXAMPLE

UA225T3C4R-SNSN-0206C015-STD0 = *US System, Above Feed, 225 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, No Meter Location, Standard Accessory Package, No Accessory Location, 2 foot 6 inch Straight Length, Continuous Access, 15 inch Feed Location, Factory Mill Finish, No Tape Marking*

225 AMP SYSTEMS

ABOVE FEED UNITS: PRODUCT NUMBERS

U	A	225	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	–	M73	00	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	

*17. Meter Release *(M70 AC)*

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*17. Meter Release *(M70 DC)*

M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*18. Meter Options *(M70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*19. System Configuration and CT Type *(M70 AC)*

1 Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral

8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Δ, Solid CTs, Millivolt, Measured Neutral
C Δ, Split CTs, 5A-secondary, Measured Neutral

*19. System Configuration and CT Type *(M70 AC)*

J DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT

EXAMPLE

UA225T3C4R-SNSN-0206C015-STD0 = *US System, Above Feed, 225 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, No Meter Location, Standard Accessory Package, No Accessory Location, 2 foot 6 inch Straight Length, Continuous Access, 15 inch Feed Location, Factory Mill Finish, No Tape Marking*

T3 SERIES

RAL COLORS

1ST CHARACTER	
P	Paint

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

3RD CHARACTER	
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

4TH CHARACTER	
0	0

EXAMPLE:

P B 2 0 = Paint RAL 3012

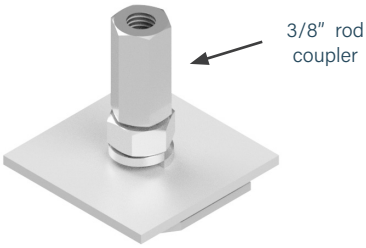
T3 SERIES

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.

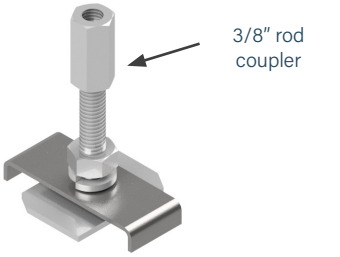
Part Number
UBRH-1
Available in plain zinc or black (-BLK)
Weight
.3 lb



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.

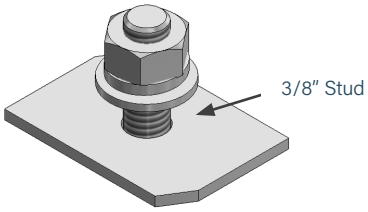
Part Number
UBRH-3
Available in plain zinc or black (-BLK)
Weight
.3 lb



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

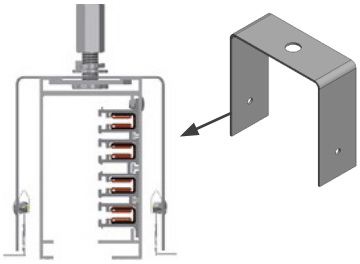
RECESSED SUSPENDED CEILINGS

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



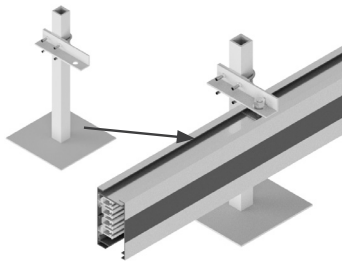
T3 SERIES

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.*

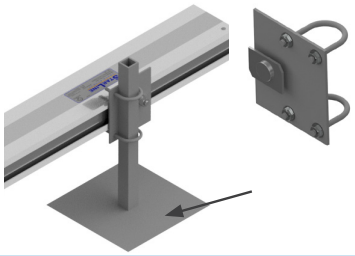
Part Number
WMBT5-9

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

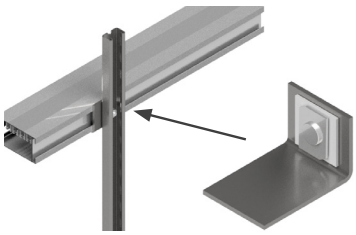


SIDE MOUNT BRACKETS

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

Note: Not available for S3 systems

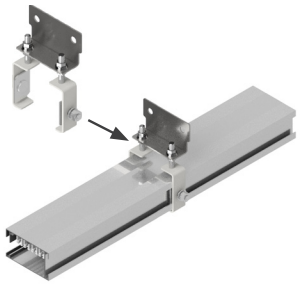
Part Number
UBSS-1
Available in plain zinc
or black (-BLK)
Weight
.2 lb



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

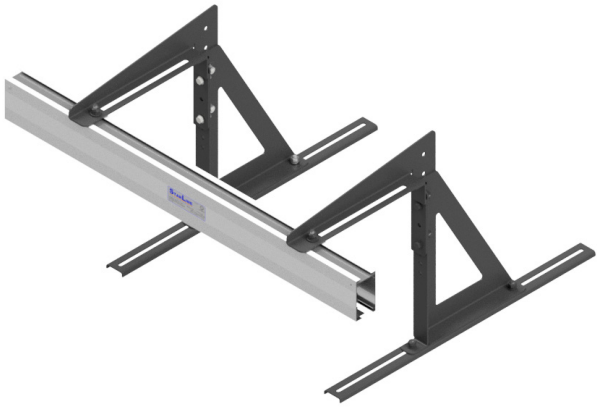
PRODUCT DESCRIPTION

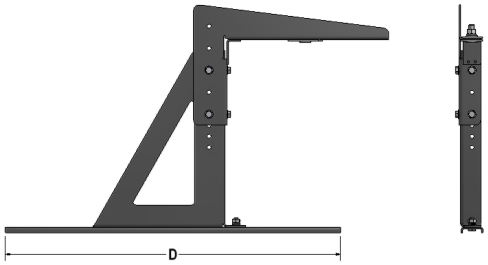
UNIVERSAL SERVER CABINET MOUNTING BRACKETS

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





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	**6**	Red
3	Black	**7**	Blue
4	White		

**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.

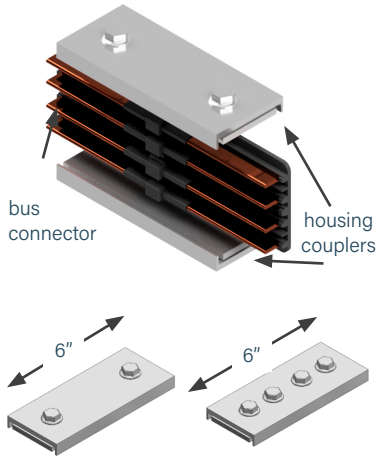
Bus Connector: copper blades secured to an insulating mounting plate. This makes the electrical connection between sections.

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

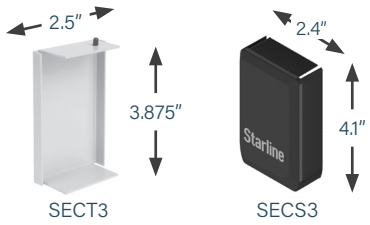
T3 AND S3 SERIES BUSWAY

ACCESSORIES: CONNECTION HARDWARE

END CAP

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

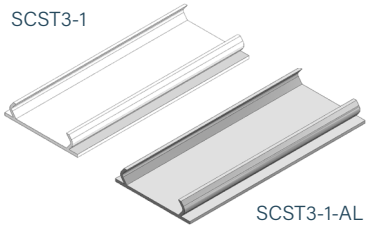
SYSTEM	DESCRIPTION	T3 SERIES CATALOG #	S3 SERIES CATALOG #
100	100 Amp End Cap	SECT3	SECS3
250	100 Amp End Cap	SECT3	SECS3



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-AL	Aluminum	Yes

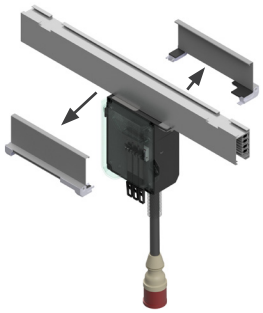
**Standard colors are available in Gray (GY), Black (BK), Red (RED) and Blue (BLU). The color code is applied to the end of the part number. For example: SCST3-1-AL-RED*

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

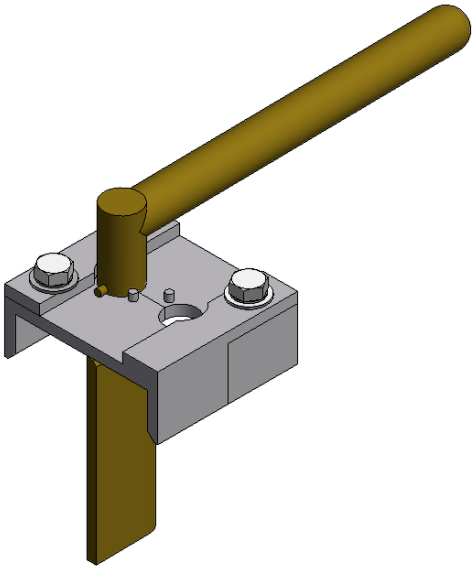
PRODUCT DESCRIPTION

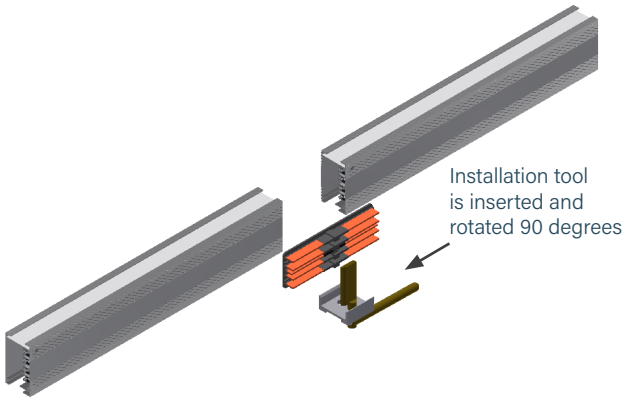
INSTALLATION TOOL

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.**

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.**

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.**

T3 PLUG-IN UNITS

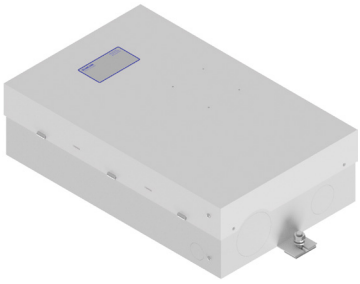
T3 PLUG-IN UNITS

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.

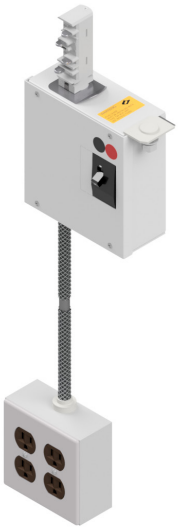


RECEPTACLE BOX/DROP CORD UNITS WITH CLASS CC FUSE

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

U	M	T3	C	52	S	–	065	–	V71	00	–	STD	*Optional
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Current Transformer		8. Meter Release	9. Meter Options		10. Paint Color	

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 3.57**)
**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

8. Meter Release *(M70 AC)*

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

8. Meter Release *(M70 DC)*

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

9. Meter Options *(V70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard (IPV4 + No Accessories)
40 AC Supply Voltage Only – Breaker Sense (On/Off)

4A Breaker Sense + IPV6
4B Breaker Sense + DHCP
4C Breaker Sense + WPA2E
4E Breaker Sense + IPV6 + DHCP
4F Breaker Sense + IPV6 + WPA2E
4J Breaker Sense + DHCP + WPA2E
4H Breaker Sense + IPV6 + WPA2E + DHCP

10. Paint Color

STD Paint Factory Silver
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 3.40)*

EXAMPLE

UMT3C52S-065-V7100-STD = *US System, Meter Plug, T3 System, Case Ground, 52 Box, Standard Orientation, 65 Current Rating, V71 Meter, No display, 480vac, Standard Meter Options, Painted Factory Silver*

T3 PLUG-IN UNITS

METER BOXES: PRODUCT NUMBERS

U	B	NA	C	52	S	–	065
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Current Transformer

–	V71	00	1	–	STD	*Optional
	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 3.57**)
**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
250 250 amps
800 800 amps
1K2 1200 amps
225 225 amps
400 400 amps
1K0 1000 ampss

8. Meter Release *(M70 AC)*

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

8. Meter Release *(M70 DC)*

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

9. Meter Options *(V70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard (IPV4 + No Accessories)
40 AC Supply Voltage Only – Breaker Sense (On/Off)

4A Breaker Sense + IPV6
4B Breaker Sense + DHCP
4C Breaker Sense + WPA2E
4E Breaker Sense + IPV6 + DHCP
4F Breaker Sense + IPV6 + WPA2E
4J Breaker Sense + DHCP + WPA2E
4H Breaker Sense + IPV6 + WPA2E + DHCP

*10. Meter Configuration and CT Type *(V70 AC)*

1 Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral

8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Δ, Solid CTs, Millivolt, Measured Neutral
C Δ, Split CTs, 5A-secondary, Measured Neutral

*10. Meter Configuration and CT Type *(V70 DC)*

J DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT

11. Paint Color

STD Paint Factory Silver
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 3.40)*

EXAMPLE

UBNAC52S-065-V71001-STD = *US System, Meter Box, Not Applicable, Case Ground, 52 Box, Standard Orientation, 65 Current Rating, V71 Meter, No display, 480vac, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral, Painted Factory Silver*

T3 PLUG-IN UNITS

TERMINAL BLOCK UNITS: PRODUCT NUMBERS

U	T	T3	C	52	S	–	030	–	4
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Amperage		8. Poles

–	S	N	N	–	V71	00	–	1	STD	*Optional
	9. Lug Options	10. Meter Location	11. Accessories		*12. Meter Release	*13. Meter Options		14. Meter Configuration	15. Paint Color	

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

T Terminal Block

3. Compatibility *(frame compatibility)*

T3 T3 System

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 3.57**)

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

S Standard
R Reversed

7. Amperage *(amperage of terminal block)*

030 30 amps
060 60 amps
100 100 amps
225 225 amps

8. Poles *(number of poles in a circuit)*

4 4 poles

9. Lug Options *(number of poles in a circuit)*

S Standard
D Double Lug
N Double Neutral
2 2 Bolt Lug
B Double Neutral & 2 Bolt Lug

10. Meter Location *(location of optional meter)*

N N/A
L Left
R Right
B Bottom (lid)

11. Accessories *(optional accessories for plugs)*

N N/A
R IR Window

***12. Meter Release** *(V70 AC)*

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

***12. Meter Release** *(V70 DC)*

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

***13. Meter Options** *(V70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard (IPV4 + No Accessories)
40 AC Supply Voltage Only – Breaker Sense (On/Off)

4A Breaker Sense + IPV6
4B Breaker Sense + DHCP
4C Breaker Sense + WPA2E
4E Breaker Sense + IPV6 + DHCP
4F Breaker Sense + IPV6 + WPA2E
4J Breaker Sense + DHCP + WPA2E
4H Breaker Sense + IPV6 + WPA2E + DHCP

***14. Meter Configuration and CT Type** *(V70 AC)*

1 Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral

8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Δ, Solid CTs, Millivolt, Measured Neutral
C Δ, Split CTs, 5A-secondary, Measured Neutral

***14. Meter Configuration and CT Type** *(V70 DC)*

J DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT

15. 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 3.40)*

T3 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: PRODUCT NUMBERS

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	–	V71	00	–	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	

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

C Circuit Breaker Unit
F Fused Disconnect Unit

3. Compatibility *(frame compatibility)*

T3 T3 System

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 3.57**)

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 U.S.)

8. Device Quantity *(quantity of device 1)*

1, 2, 3, 4, 5, 6, 7, 8, 9 (for more than 1 device type, reference **page 3.72**)

9. Device *(quantity of device 1)*

AA, AB, ...ZZ (refer to device codes **page 3.72**)

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

F Front
A Back
T Top
B Bottom
L Left
R Right

*11. Drop Cord Length *(location of optional meter)*

XXY: XX = feet, Y = Inches (010 = 1 foot, 0 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)

12. 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

*13. Meter Release *(V70 AC)*

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

*13. Meter Release *(V70 DC)*

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

*14. Meter Options *(V70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard (IPV4 + No Accessories)
40 AC Supply Voltage Only – Breaker Sense (On/Off)

4A Breaker Sense + IPV6
4B Breaker Sense + DHCP
4C Breaker Sense + WPA2E
4E Breaker Sense + IPV6 + DHCP
4F Breaker Sense + IPV6 + WPA2E
4J Breaker Sense + DHCP + WPA2E
4H Breaker Sense + IPV6 + WPA2E + DHCP

15. 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 3.40)*

16. Drop Cord Tape Marking

3 Tape Factory Black
7 Tape Factory Blue
4 Tape Factory White
8 Tape Factory Green
6 Tape Factory Red
9 Tape Factory Yellow

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	–	V71	00	–	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	

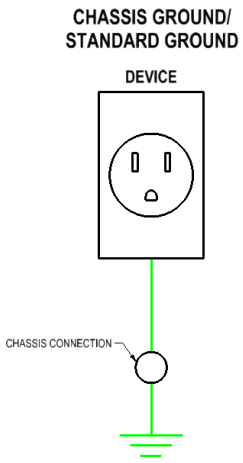
4. Ground *(ground type installed)*

C Case (Housing) Ground
D Dedicated Ground
G 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).

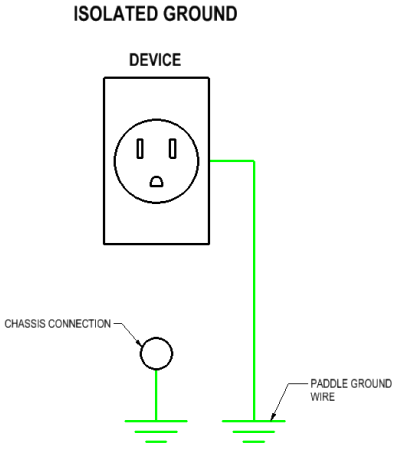
CASE GROUND/CHASSIS EARTH

Uses aluminum housing and no extra copper bar.



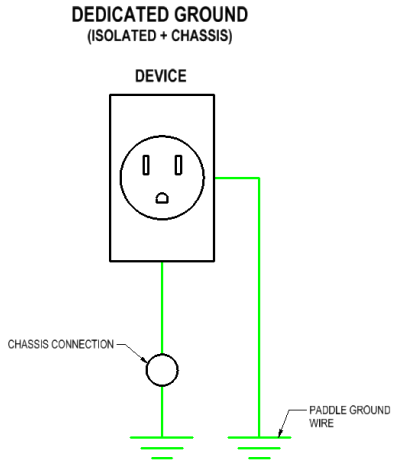
ISOLATED GROUND/EARTH

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**

T3 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: BOX

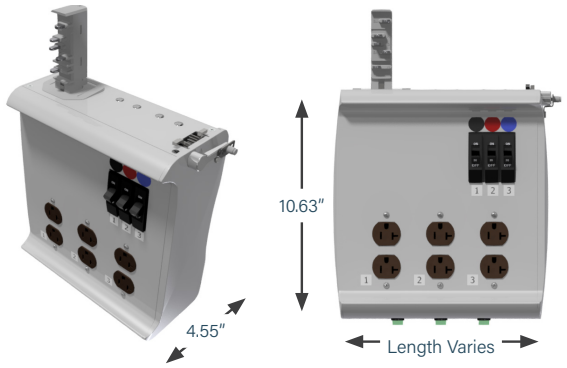
U	C	T3	C	52	S	–	14	–	1
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Interrupt Rating		8. Device Quantity

AA	F	010	N	–	V71	00	–	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	

5. Box *(what size enclosure)*
01, 02, ... 99 (refer to enclosure reference **page 3.67**)

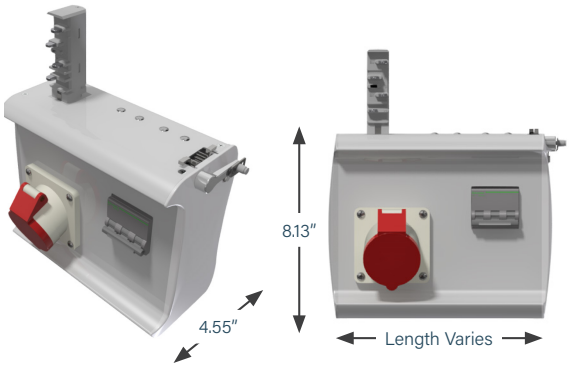
IN OPTION 5. you are asked to specify what size and style enclosure that you would like. A few common enclosure sizes for T3 busway systems are shown below:

50 SERIES



BOX LENGTHS	
51:	6.00″
52:	8.00″
53:	10.00″
54:	12.00″
55:	13.00″
56:	15.00″
57:	18.00″

90 SERIES



BOX LENGTHS	
91:	6.00″
92:	8.00″
93:	10.00″
94:	12.00″
95:	13.00″
96:	15.00″
97:	18.00″

*For all box sizes and styles, please refer to page **3.67**

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	–	V71	00	–	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	–	V73	00	–	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 3.72**)

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 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 3.72**

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	–	V71	00	–	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	

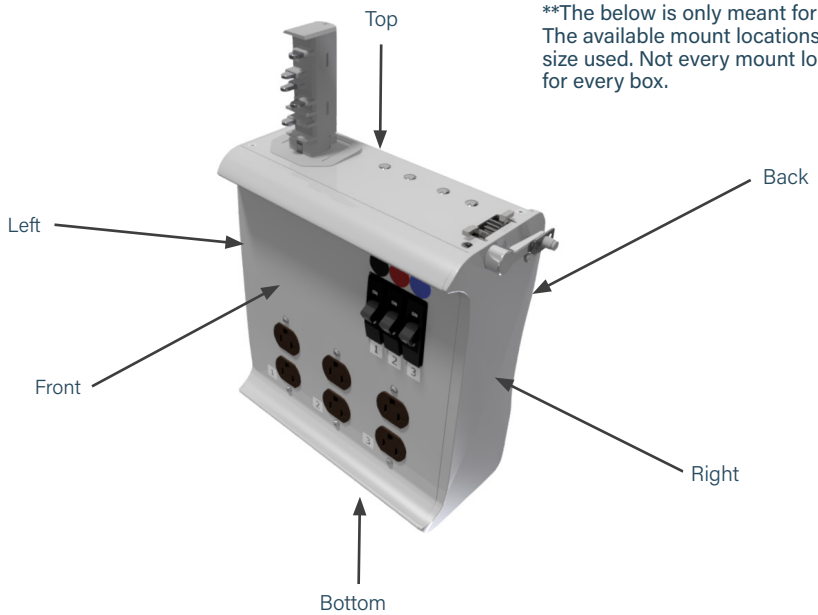
***10. Mount Location** *(with respect to busway polarizing stripe)*

F	Front	**A**	Back
T	Top	**B**	Bottom
L	Left	**R**	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

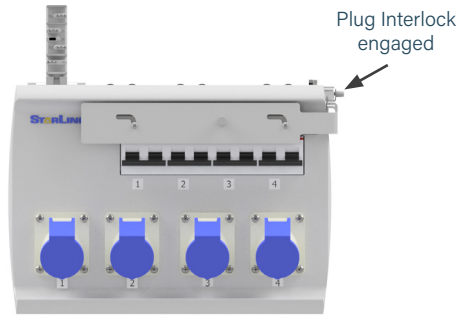
AA	F	010	N	–	V71	00	–	STD	0	*Optional
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories		*13. Meter Release	*14. Meter Options		15. Paint Color	*16. Drop Cord Tape Marking	

12. 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
T	NETA Injection Tested Breakers	**L**	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 accidentail 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.

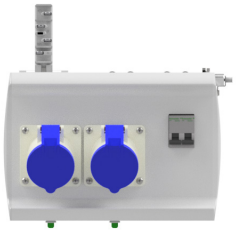
CIRCUIT BREAKER INTERLOCK



FINGER SHROUD

SEISMIC HANGER

PILOT LIGHT



PADLOCK ADAPTER FOR CIRCUIT BREAKER LOCK-OUT

IR WINDOW

T3 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: 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	–	V71	00	–	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** *(V70 AC)*

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

***13. Meter Release** *(V70 DC)*

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

***14. Meter Options** *(V70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard (IPV4 + No Accessories)
40 AC Supply Voltage Only – Breaker Sense (On/Off)

4A Breaker Sense + IPV6
4B Breaker Sense + DHCP
4C Breaker Sense + WPA2E
4E Breaker Sense + IPV6 + DHCP
4F Breaker Sense + IPV6 + WPA2E
4J Breaker Sense + DHCP + WPA2E
4H Breaker Sense + IPV6 + WPA2E + DHCP

IN OPTION 13. You are able to select metering for your plug-in unit. V70 series meters are available for plug-in units.

Communications Interfaces include:
- (2) RJ11
- (2) RJ45 (Ethernet)
- Wireless (Optional)

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

V70 series meters also have the capability to sense circuit breaker position (on/off) for up to two outlets.

V71 *(2) RJ11, (2) RJ45, No Display*

V72 *(2) RJ11, (2) RJ45, Display*

V74 *Wi-Fi + (2) RJ11, (2) RJ45, No Display*

V75 *Wi-Fi + (2) RJ11, (2) RJ45, Display*

T3 PLUG-IN UNITS

CIRCUIT BREAKER UNITS, NO DEVICES: PRODUCT NUMBERS

U	C	T3	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	–	V71	00	–	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 Release	16. Meter Options		17. Paint Color	*18. 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)*

T3 T3 System
K5 T3 System (Limiting Strip)
R5 T3 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 3.57**)

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 *(V70 AC)*

2, 3, 4, 5

14. Accessories *(optional accessories for plugs)*

N N/A
C Circuit Breaker Interlock
S Seismic Hanger
F Finger Shroud
P Padlock Adapter for Circuit Breaker
R IR Window

15. Meter Release *(V70 AC)*

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

15. Meter Release *(V70 DC)*

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

16. Meter Options *(V70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard (IPV4 + No Accessories)
40 AC Supply Voltage Only – Breaker Sense (On/Off)

4A Breaker Sense + IPV6
4B Breaker Sense + DHCP
4C Breaker Sense + WPA2E
4E Breaker Sense + IPV6 + DHCP
4F Breaker Sense + IPV6 + WPA2E
4J Breaker Sense + DHCP + WPA2E
4H Breaker Sense + IPV6 + WPA2E + DHCP

17. Paint Color

STD Paint Factory Silver
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 3.40)*

18. Drop Cord Tape Marking

3 Black
4 White
6 Red
7 Blue
8 Green

T3 PLUG-IN UNITS

CORDED METERS

U	CCPM	M	71	S	1	–	L515	C	–	XXXX	–	C	–	BLK
1. System	2. Product Type	3. Monitoring Capabilities	4. Meter Release	5. Meter Variations	6. System Voltage		7. Wiring Device or Cord Set	8. Device Style		9. Length (end to end)		10. Meter Location on the Cord		11. Paint Color

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

CCPM Corded CPM

3. Monitoring Compatibilities

M Paddle/Feed Monitoring

4. Meter Release *(V70 AC)*

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

4. Meter Release *(V70 DC)*

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

5. Meter Variations

S Standard Unit
D Display

6. System Voltage

1 Line-Line
3 Line-Neutral

7. Wiring Device or Cord Set

Options listed on **page 3.66**

8. Device Style

C Connector Body
D Duplex
R Receptacle
Q Quad Receptacle

9. Length *(end to end)*

XXXX 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)

10. Meter Location on the Cord

C Center
B Bottom
T Top

11. Paint Color

STD Paint Factory Silver
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 3.40)*

Monitoring: The Corded CPM has a plug on one end and a connector body or receptacle on the other end; making it ideal for field power monitoring on-the-fly. It is capable of monitoring the energy of any device. The Corded CPM is also available without connectors. All V70 meter features, communication options and accessories are available except for measured neutral.

Box Size: There are two different Corded CPM box sizes. The smaller is designed for single phase (2 pole/3 wire, 1 pole+N/3W) wiring devices rated from 0-32A & 0-480V. The color is black unless specified. The larger enclosure is designed for all other configurations. These include single phase (2 pole/3 wire) rated at 32A-63A & 0-480V, three phase delta (3 pole/4 wire) rated at 0-63A & 0-480V and three phase wye (4 pole/5 wire) rated at 0-63A & 0-480V.

Meter Location: The meter can be placed in the center or offset from the top or bottom of the cord. Top or Bottom meters will always be 1'8" from the end of the connector.

T3 PLUG-IN UNITS

WIRING DEVICE/CORD SET OPTIONS

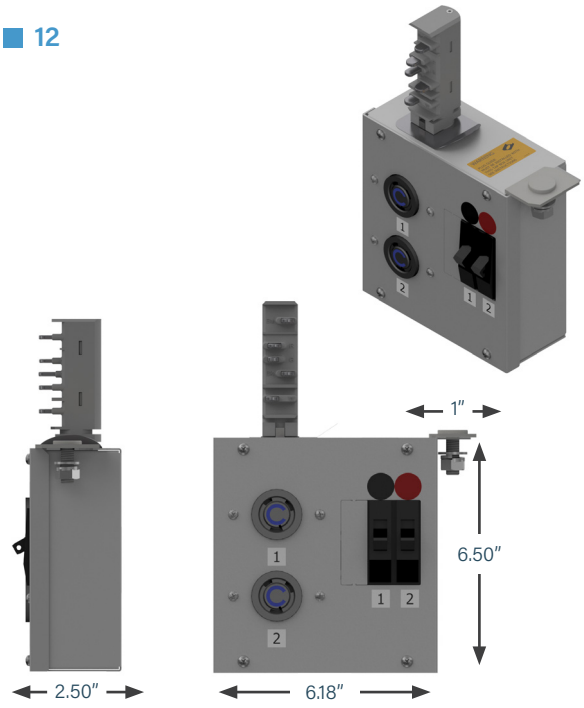
AC NEMA/IEC NAME	VOLTAGE	CURRENT
CS6360C	125V	50
CS6364C	125/250V	50
CS8264C	250V	50
CS8364C	250V	50
CS8164C	480V	50
CS8464C	480V	50
515D	125V	15
515	125V	15
520D	125V	20
520	125V	20
530	125V	30
615D	250V	15
615	250V	15
620D	250V	20
620	250V	20
630	250V	30
L1420	125/250V	20
L1430	125/250V	30
L1520	250V	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

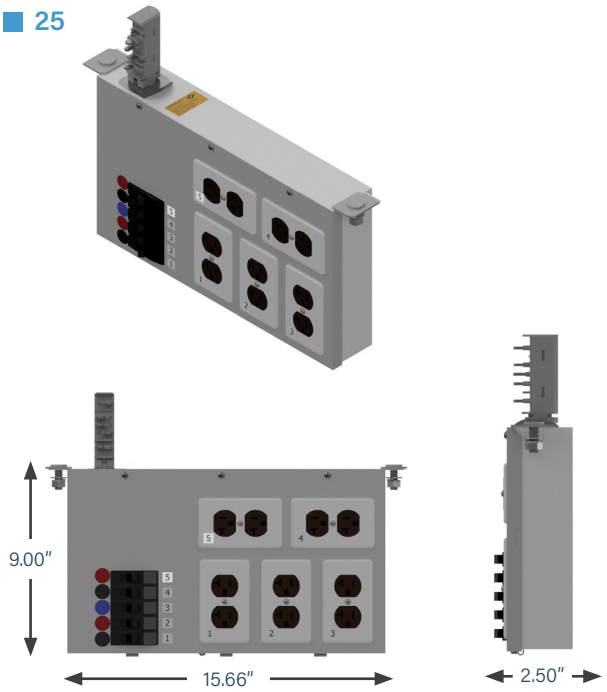
T3 PLUG-IN UNITS

BOX SIZES & STYLES

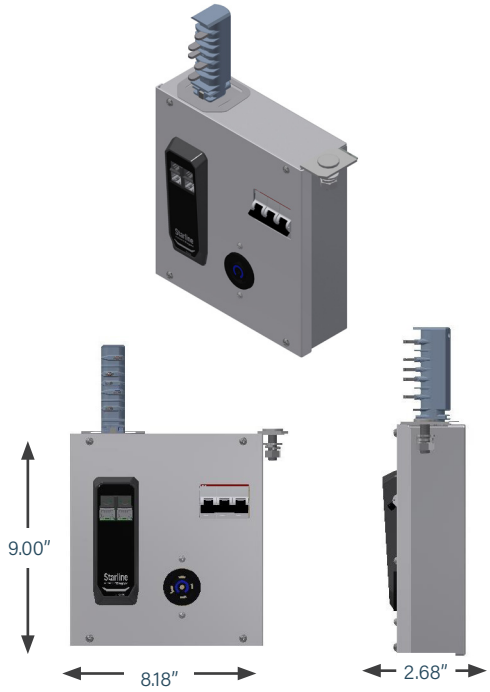
12



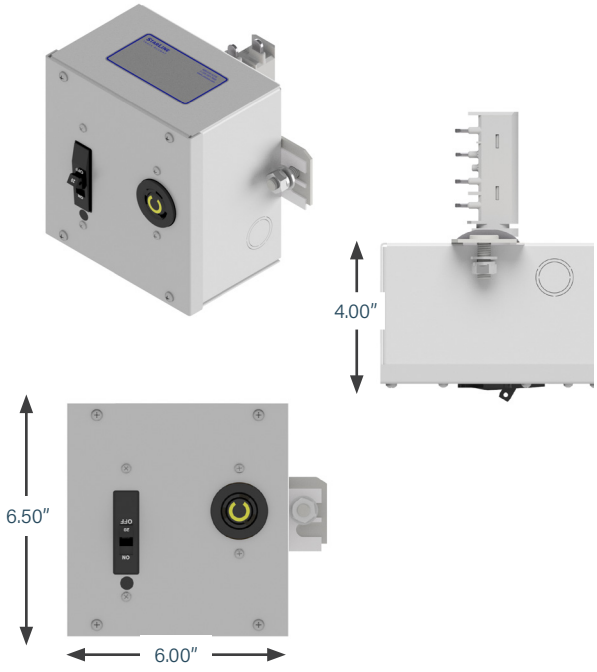
25



28



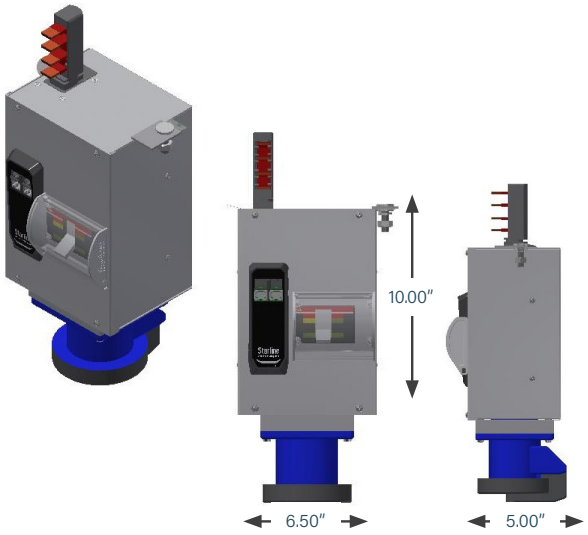
30



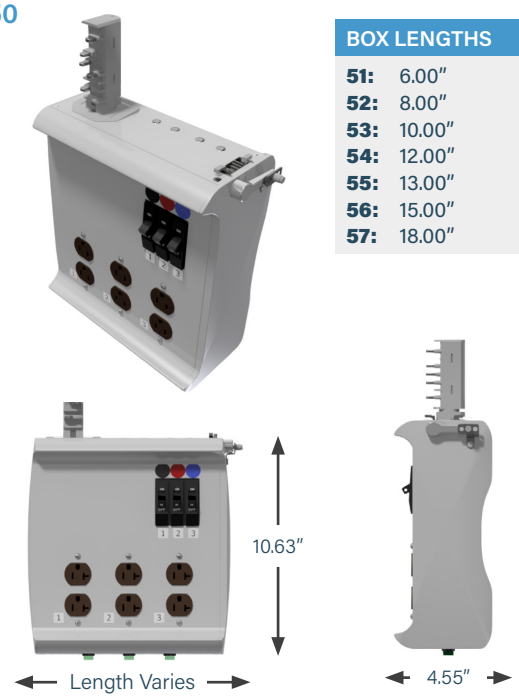
T3 PLUG-IN UNITS

BOX SIZES & STYLES

37



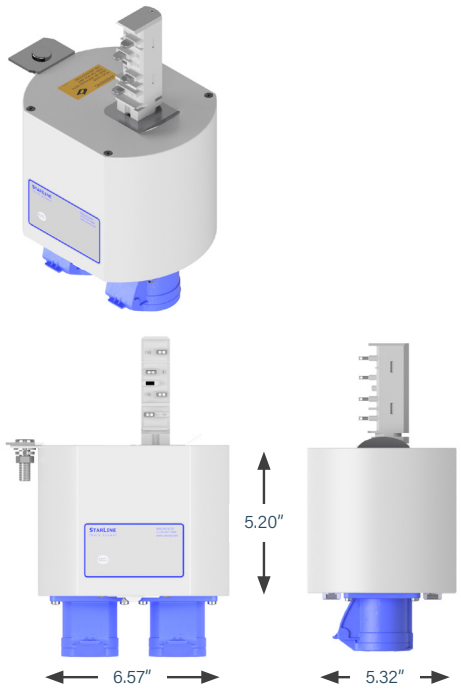
50



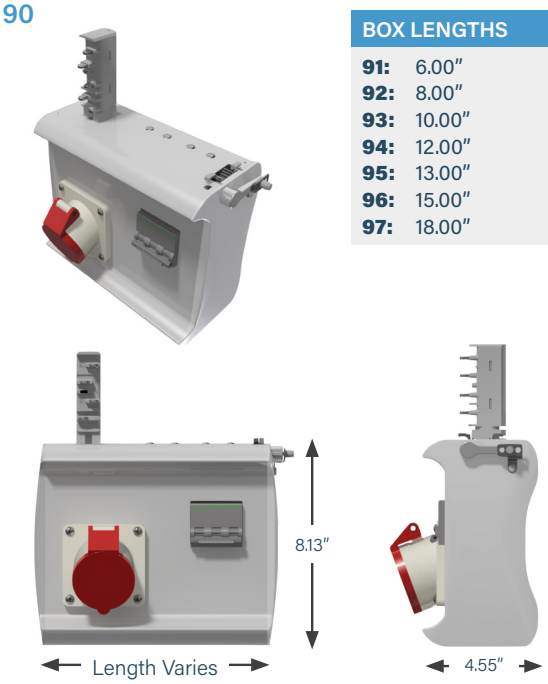
BOX LENGTHS

51:	6.00″
52:	8.00″
53:	10.00″
54:	12.00″
55:	13.00″
56:	15.00″
57:	18.00″

70



90



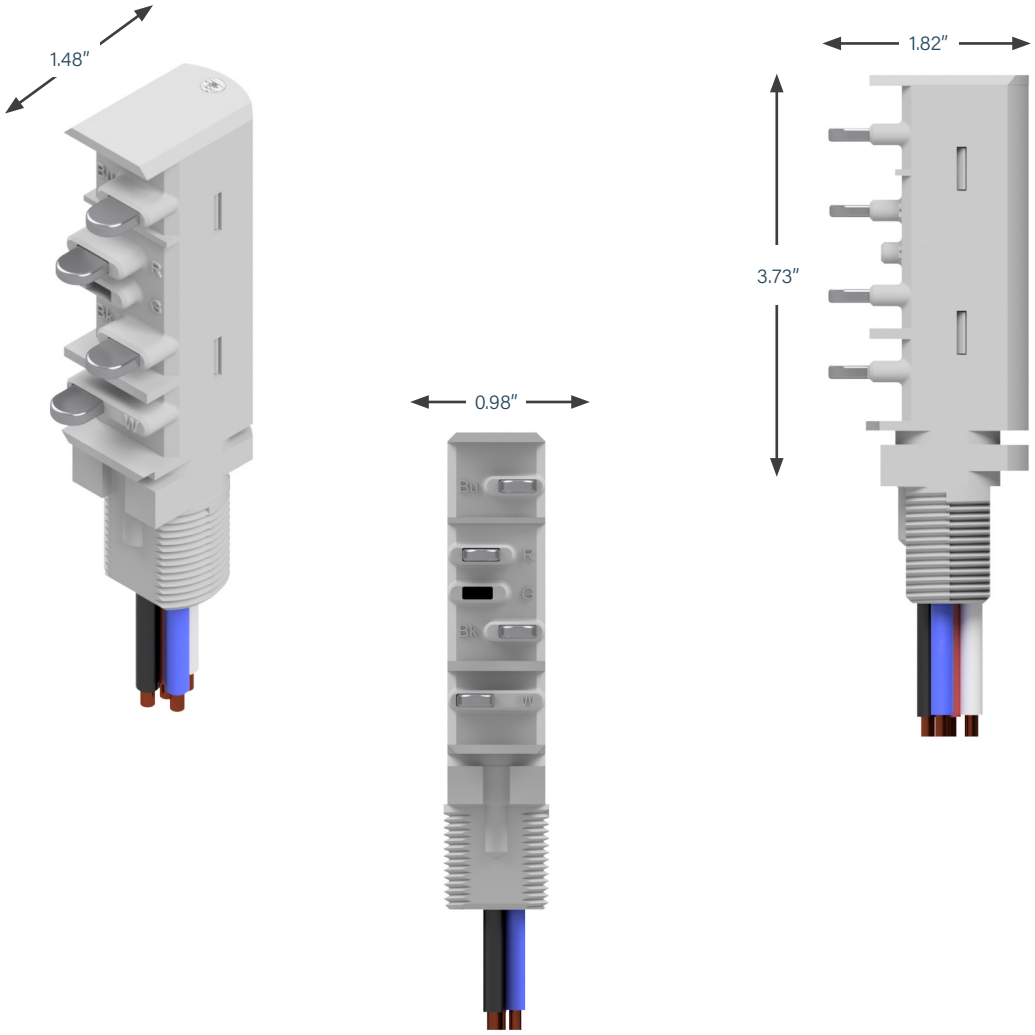
BOX LENGTHS

91:	6.00″
92:	8.00″
93:	10.00″
94:	12.00″
95:	13.00″
96:	15.00″
97:	18.00″

T3 PLUG-IN UNITS

BOX SIZES & STYLES

T3 PADDLE



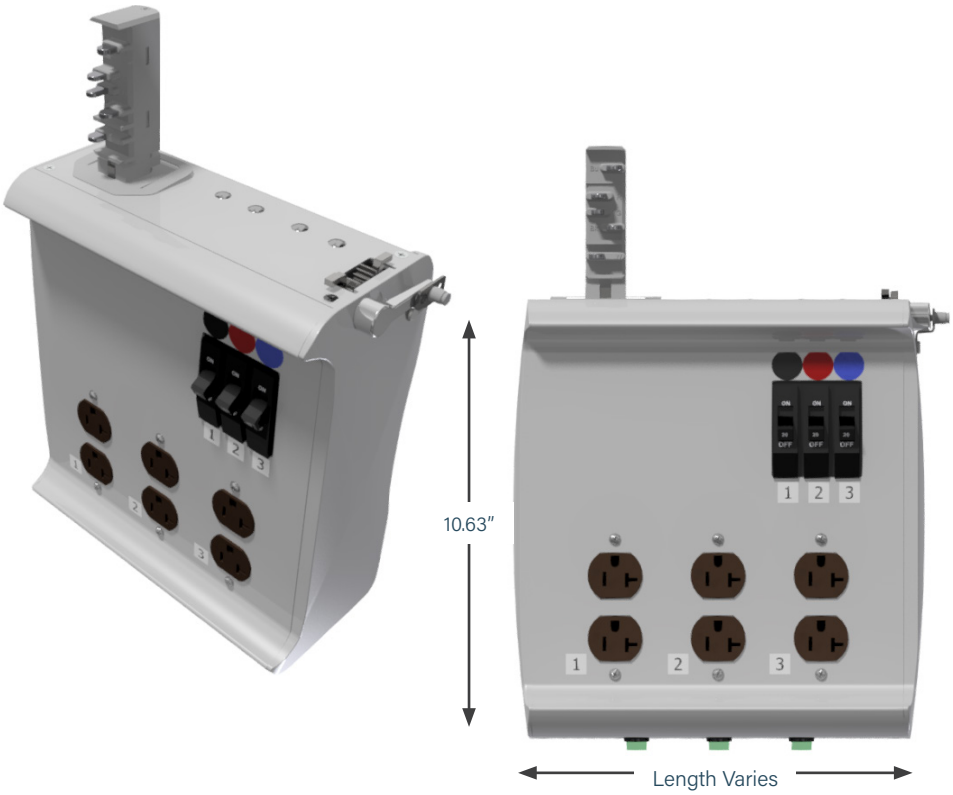
T3 PLUG-IN UNITS

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*



BOX LENGTHS	
51:	6.00″
52:	8.00″
53:	10.00″
54:	12.00″
55:	13.00″
56:	15.00″
57:	18.00″

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*

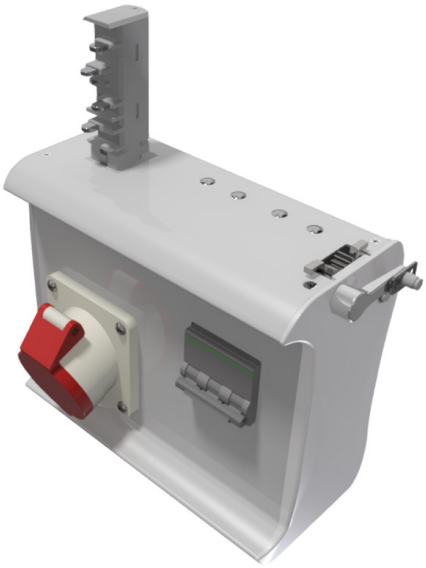
T3 PLUG-IN UNITS

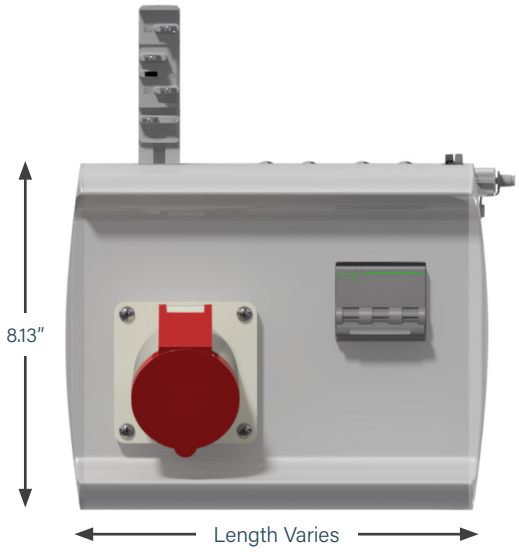
90 SERIES ENCLOSURE CUT SHEET

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*





BOX LENGTHS	
91:	6.00″
92:	8.00″
93:	10.00″
94:	12.00″
95:	13.00″
96:	15.00″
97:	18.00″

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 SilverIGL15-30, 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

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

WIRING CONFIGURATION REFERENCE TABLE

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

T3 PLUG-IN UNITS

US DEVICE CODE TABLE

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

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

WIRING CONFIGURATION REFERENCE TABLE

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

T3 PLUG-IN UNITS

US DEVICE CODE TABLE

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

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

WIRING CONFIGURATION REFERENCE TABLE

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

T3 PLUG-IN UNITS

US DEVICE CODE TABLE

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

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

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

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

Other				
Device Code	**Device Designation**	**Type**	**Voltage**	**Wiring Configuration**
XX	Custom Device (ex: colored receptacle, etc.)			

WIRING CONFIGURATION REFERENCE TABLE

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

S3 PLUG-IN UNITS

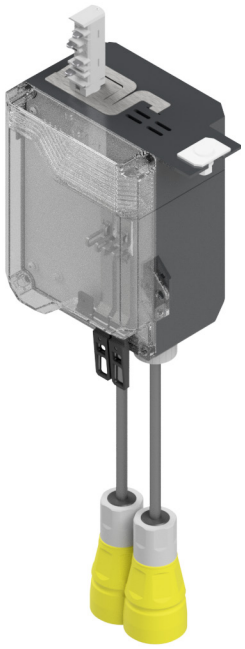
S3 PLUG-IN UNITS

PRODUCT DESCRIPTION

S3 Plug-in Units are designed to provide the same “plug and play” flexbility 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.

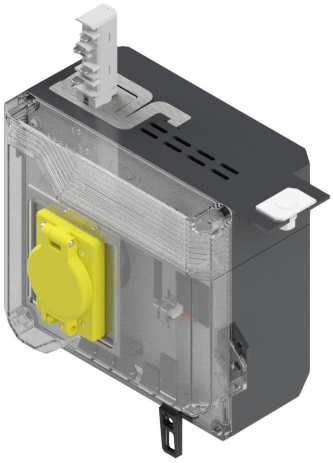
OPTIONS:

1. Receptacle Box/Drop Cord Units
2. Circuit Breaker Uniits 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 3.45**

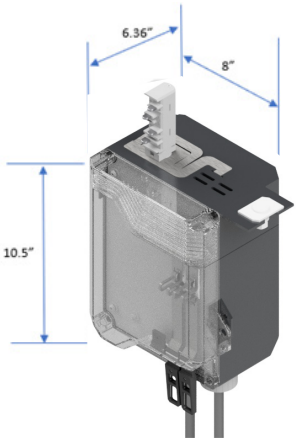
S3 PLUG-IN UNITS

S3 ENCLOSURE STYLE OPTIONS

ES1 ENCLOSURE

Dimensions(in):

H: 10.5″
W: 8″
D: 6.36″



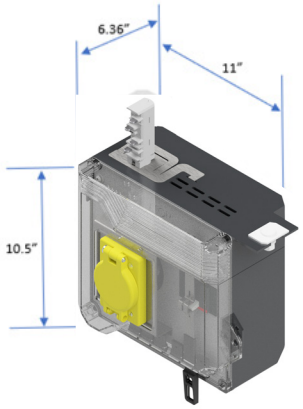
Configuration Options:

- 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″



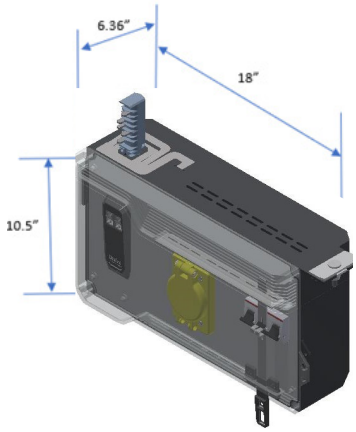
Configuration Options:

- 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

U	C	S3	C	S3	S	–	14	–	1
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Interrupt Rating		8. Device Quantity

RU	F	010	N	–	V71	00	–	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	

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

C Circuit Breaker Unit
F Fused Disconnect Unit

3. Compatibility *(frame compatibility)*

S3 S3 System

4. Ground *(ground type installed)*

C Case (Housing) Ground
D Dedicated Ground
G Isolated (Separate) Ground

5. Box *(what size enclosure)*

S1, S2, or **S3** (refer to S3 Enclosure Style Options, page 3.77)

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 U.S.)

8. Device Quantity *(quantity of device 1)*

1, 2, 3, 4, 5, 6, 7, 8 (for more than 1 device type, refer to S3 Device Code Table, page 3.80)

9. Device *(quantity of device 1)*

AA, AB, ...ZZ (refer to S3 Device Code Table, page 3.80)

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

F Front
B Bottom

***11. Drop Cord Length** *(location of optional meter)*

XXY: XX = feet, Y = Inches (010 = 1 foot, 0 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)*

12. Accessories *(optional accessories for plugs)*

N N/A

***13. Meter Release** *(V70 AC)*

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

***13. Meter Release** *(V70 DC)*

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

***14. Meter Options** *(V70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard (IPV4 + No Accessories)
40 AC Supply Voltage Only – Breaker Sense (On/Off)

4A Breaker Sense + IPV6
4B Breaker Sense + DHCP
4C Breaker Sense + WPA2E
4E Breaker Sense + IPV6 + DHCP
4F Breaker Sense + IPV6 + WPA2E
4J Breaker Sense + DHCP + WPA2E
4H Breaker Sense + IPV6 + WPA2E + DHCP

15. Paint Color

STD Standard Dark Gray

NOTE: *Consult Factory for other options*

16. Drop Cord Tape Marking

3 Tape Factory Black
4 Tape Factory White
6 Tape Factory Red
7 Tape Factory Blue
8 Tape Factory Green
9 Tape Factory Yellow

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

S3 PLUG-IN UNITS

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

U	C	S3	C	S2	S	–	14
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Interrupt Rating

2	030	3	240	050	3	N	–	V71	00	–	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 Release	16. Meter Options		17. Paint Color	18. 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)*

S3 S3 System

4. Ground *(ground type installed)*

C Case (Housing) Ground **D** Dedicated Ground
G Isolated (Separate) Ground

5. Box *(what size enclosure)*

S1, S2, S3 (refer to S3 Enclosure Style Options, page 3.77)

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, 60, 100

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** *(V70 AC)*

2, 3, 4, 5

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*

14. Accessories *(optional accessories for plugs)*

N N/A

15. Meter Release *(V70 AC)*

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

15. Meter Release *(V70 DC)*

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

16. Meter Options *(V70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard (IPV4 + No Accessories)
40 AC Supply Voltage Only – Breaker Sense (On/Off)

4A Breaker Sense + IPV6
4B Breaker Sense + DHCP
4C Breaker Sense + WPA2E
4E Breaker Sense + IPV6 + DHCP
4F Breaker Sense + IPV6 + WPA2E
4J Breaker Sense + DHCP + WPA2E
4H Breaker Sense + IPV6 + WPA2E + DHCP

17. Paint Color

STD Standard Dark Gray

Note: *Consult Factory for other options*

18. Drop Cord Tape Marking

3 Black **6** Red **8** Green
4 White **7** Blue

S3 PLUG-IN UNITS

METER PLUGS: PRODUCT NUMBERS

U	M	S3	C	S2	S	–	065
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Current Transformer

– V71 00 – STD *Optional

8. Meter Release | 9. Meter Options | 10. Paint Color

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 3.77)

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

8. Meter Release *(V70 AC)*

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

8. Meter Release *(V70 DC)*

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

9. Meter Options *(V70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard (IPV4 + No Accessories)
40 AC Supply Voltage Only – Breaker Sense (On/Off)

4A Breaker Sense + IPV6
4B Breaker Sense + DHCP
4C Breaker Sense + WPA2E
4E Breaker Sense + IPV6 + DHCP
4F Breaker Sense + IPV6 + WPA2E
4J Breaker Sense + DHCP + WPA2E
4H Breaker Sense + IPV6 + WPA2E + DHCP

10. Paint Color

STD Standard Dark Gray

Note: *Consult Factory for other options*

EXAMPLE

UMS3CS2S-065-V7100-STD = *US System, Meter Plug, S3 System, Case Ground, ES2 Box, Standard Orientation, 65 Current Rating, V71 Meter, No display, 480vac, Standard Meter Options, 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/**.

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/**.

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

TABLE OF CONTENTS

T5 AND S5 SERIES BUSWAY

TABLE OF CONTENTS

T5 AND S5 SERIES BUSWAY

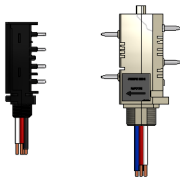
TABLE OF CONTENTS

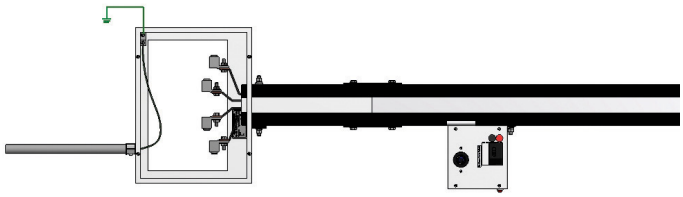
T5 AND S5 SERIES BUSWAY

GROUND OPTIONS

CASE GROUND/CHASSIS EARTH

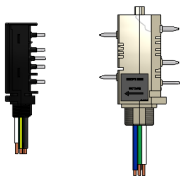
Uses aluminum housing and no extra copper bar.

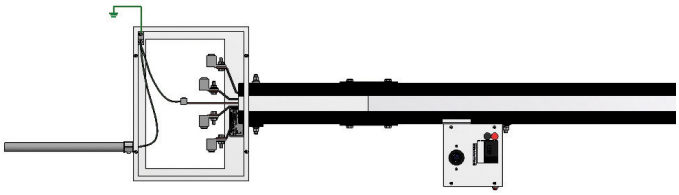




DEDICATED GROUND/EARTH

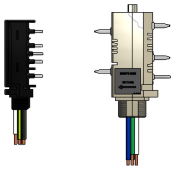
Extra bar in busway for ground.
Everything tied together inside plugs.
Bar and housing at same potential.

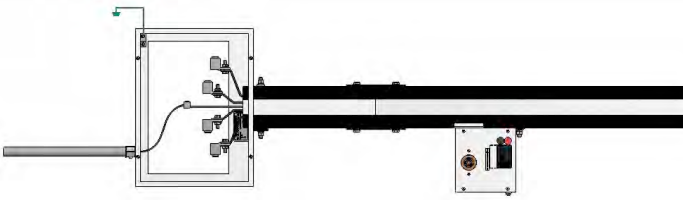




ISOLATED GROUND/EARTH

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**.

T5 AND S5 SERIES BUSWAY

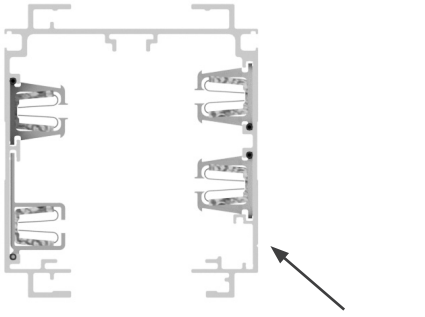
POLARITY TIPS

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.

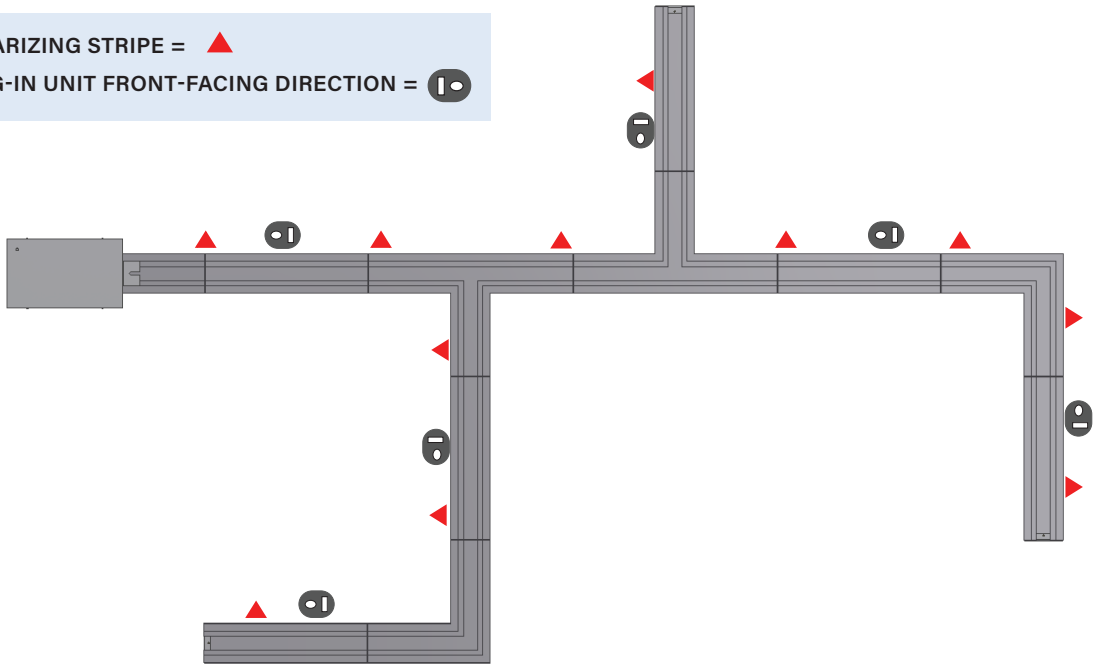
It is particularly important to understand this design concept prior to ordering and/or installing some components.

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 side. 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 4.107** 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/**. 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.

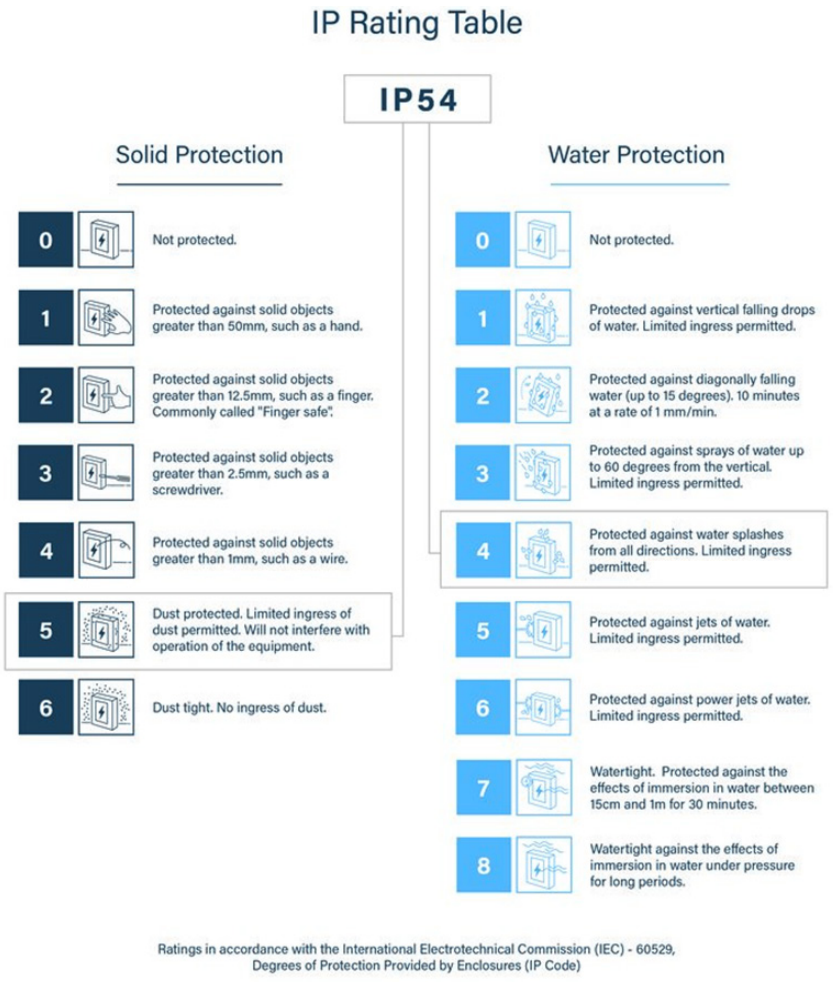
T5 AND S5 SERIES BUSWAY

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.

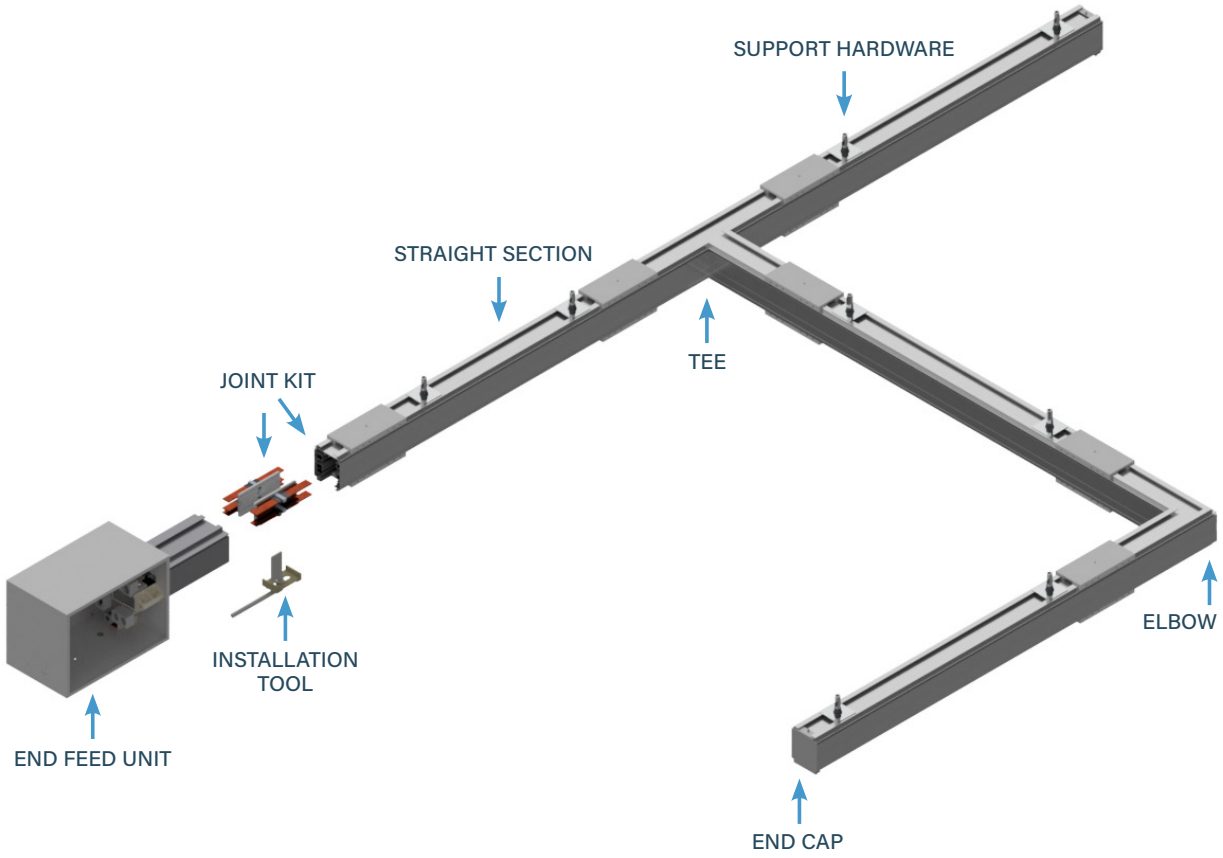
1. Splashproof and sprinkler proof; 2. Highly dust-resistant; 2. Not waterproof or watertight; 3. Not for outdoor use; 4. Not subject to direct exposure to natural elements, such as wind, rain, sun, ice, etc.



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

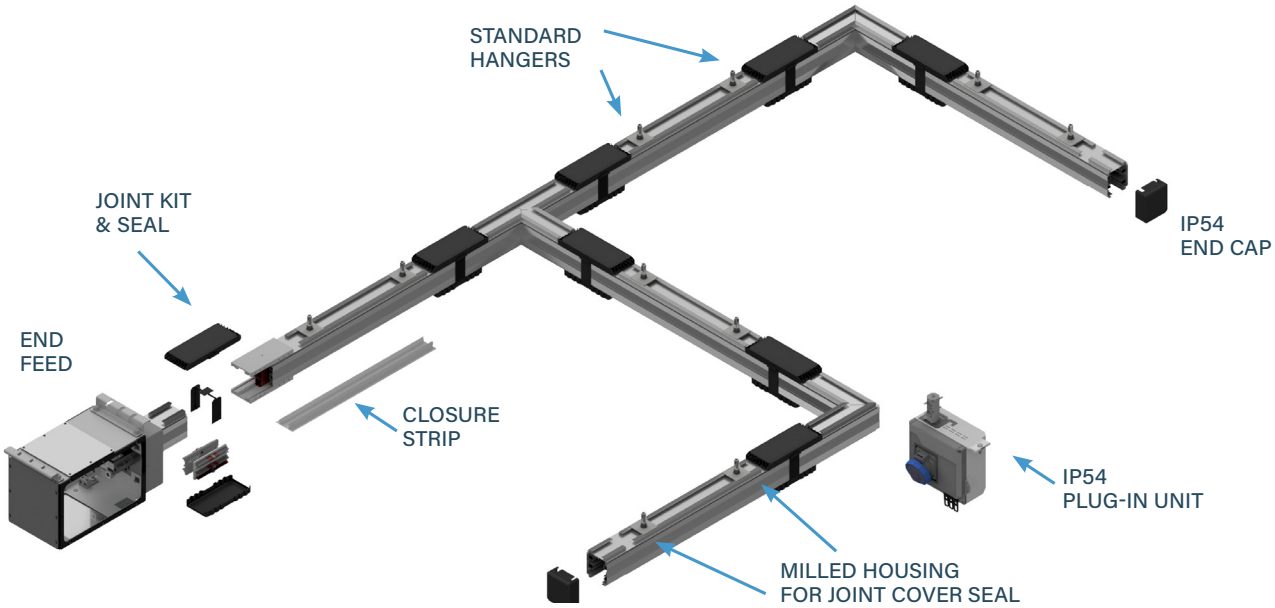


PLUG-IN UNITS

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

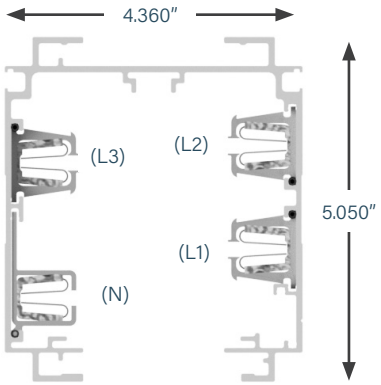
For further information on applicable S5 plug-in unit options, please visit the **Plug-In Units** section.

250 AMP SYSTEMS

STRAIGHT SECTIONS

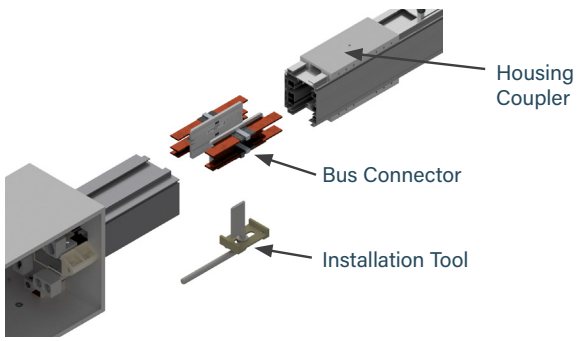
PRODUCT DESCRIPTION

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	–	STD	0
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

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

S Straight Section

3. Product Frame *(maximum amperage)*

250 250 amps

4. Compatibility *(frame compatibility)*

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

8. Straight Length *(length of section)*

XXYY XX=feet, YY=inches

9. Busway Access *(how plugs access the busway)*

C Continuous

10. Paint Color *(allows painting of the busway housing)*

STD Factory Mill Finish
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

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

11. Tape Marking *(colored tape on both sides of busway housing)*

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

EXAMPLES

US250T5C4S-0500C-STD0 = *US System, Straight Section, 250 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 5 foot Straight Length, Continuous Busway Access, Factory Mill Finish, No Tape Marking*

US250T5CNS-0206C-BLU0 = *US System, Straight Section, 250 amps, T5 System, Copper Conductor, 3 Phase plus 200% Neutral, Standard Polarization, 2 foot 6 inch Straight Length, Continuous Busway Access, Painted Factory Blue, No Tape Marking*

250 AMP SYSTEMS

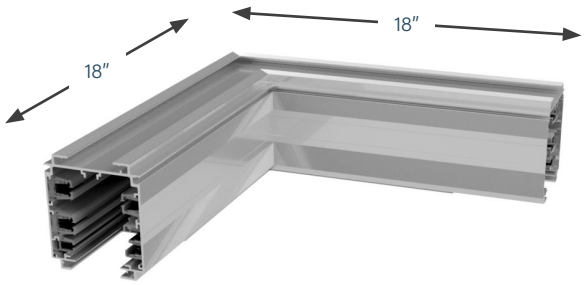
ELBOW SECTIONS

PRODUCT DESCRIPTION

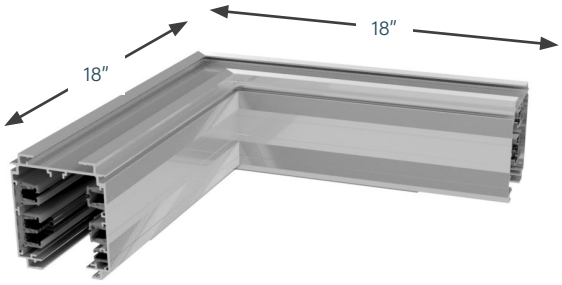
An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify right or left elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

Connection Accessories (Ordered Separately)
A Joint Kit (**page 4.110**) is used to make mechanical and electrical connections to adjacent busway sections.

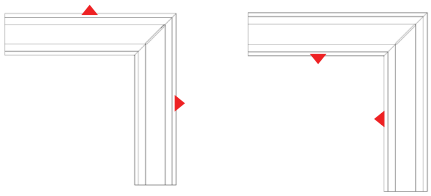
Weight 14.5 lbs



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

–	STD	0
	9. Paint Color	10. Tape Marking

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

E Elbow Section

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

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

IN	Internal	**EX**	External
HN	Seismic Internal	**GX**	Seismic External

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 4.106)*

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

UE250T5C4S-IN-BLU4 = *US System, Elbow Section, 250 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Painted Factory Black, Factory White Tape*

UE250T5CGS-EX-STD0 = *US System, Elbow Section, 250 amps, T5 System, Copper Conductor, 3 Phase plus Neutral plus Isolated/Dedicated Ground, Standard Polarization, External Turning Direction, Factory Mill Finish, No Tape Marking*

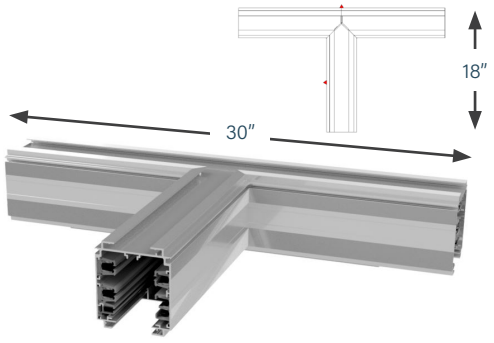
250 AMP SYSTEMS

TEE SECTIONS

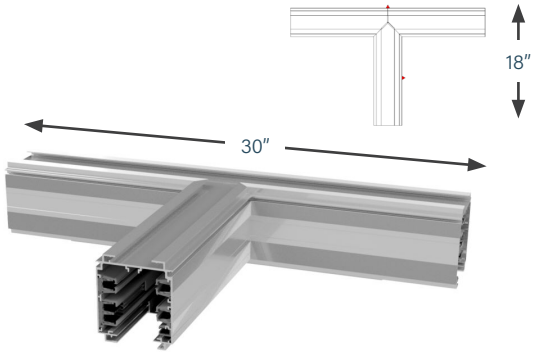
PRODUCT DESCRIPTION

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.

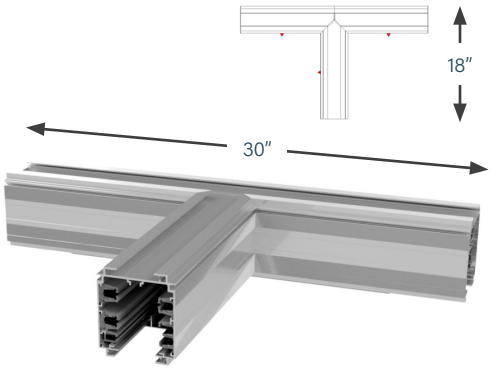
Weight 19.5 lbs



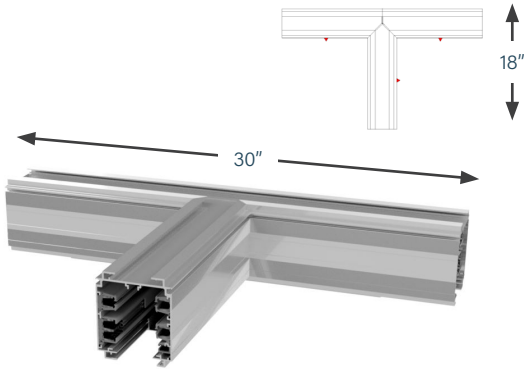
EXTERNAL-LEFT (EL)



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

–	STD	0
	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)*

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

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

IL	Internal-Left	**EL**	External-Left
IR	Internal-Right	**ER**	External-Right
HL	Seismic Internal-Left	**GL**	Seismic External-Left
HR	Seismic Internal-Right	**GR**	Seismic 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 4.106)*

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

UT250T5C4S-IR-RED0 = *US System, Tee Section, 250 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning Direction, Painted Factory Red, No Tape Marking*

UT250T5CFS-EL-STD7 = *US System, Tee Section, 250 amps, T5 System, Copper Conductor, 3 Phase plus 200% Neutral plus Isolated/Dedicated Ground, Standard Polarization, External-Left Turning Direction, Factory Mill Finish, Factory Blue Tape Marking*

250 AMP SYSTEMS

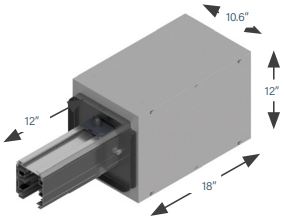
END FEED UNITS

PRODUCT DESCRIPTION

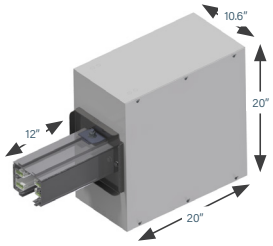
End power feed units connect to the end of the busway. A standard size, factory assembled unit consists of a steel junction box, with removable sides, connected to a 12 inch section of busway. Certain assemblies include connection lugs and a ground lug for wires up to 300MCM for standard size boxes and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

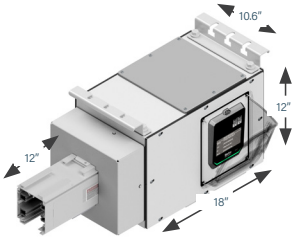
Weight (for standard size end feed) 33 lbs
*Standard busway stub size is 1 ft



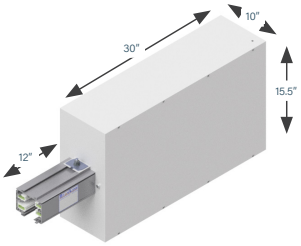
STANDARD BOX



LARGE BOX



250S5 END FEED WITH CPM



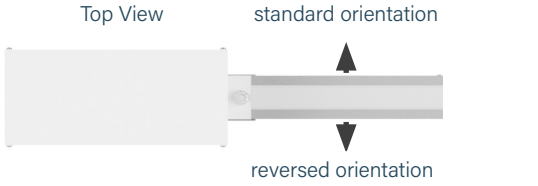
FUSED BOX

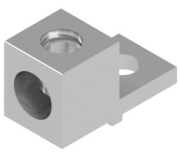
	BOXES		
LUGS	Standard	Large	Fused
Standard	**S**	**L**	**F**
Double			
Bolt	**B**	**R**	

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




STANDARD "S"/"L"


BOLT "B"


BOLT "R"

250 AMP SYSTEMS

END FEED UNITS: METERING

PRODUCT DESCRIPTION

End feed units can be populated with Starline's Critical Power Monitor to provide access to revenue-grade, three-phase power data. The M70 CPM is built with a 4.3-inch LCD touchscreen display that can be angled down for easier viewing from the floor.

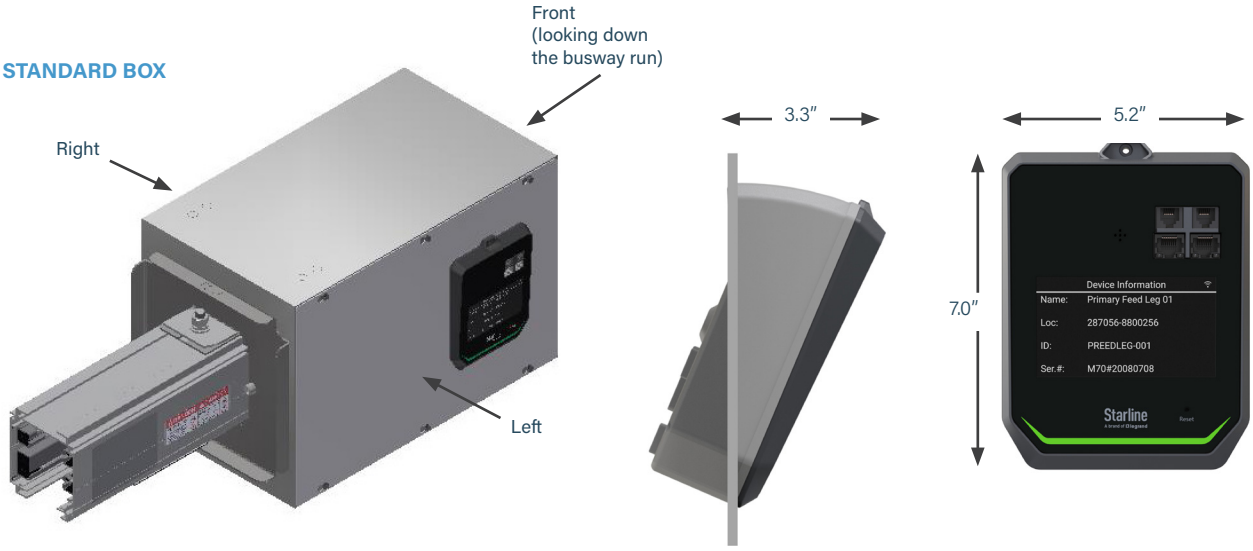
Wired ethernet and serial communications are standard with (2) RJ11 and (2) RJ45 jacks built in for easy daisy chaining. Optional 802.11n Wi-Fi connectivity is also available. Both serial Modbus and Ethernet-based protocols can be used simultaneously. These include: SNMP (v1, v2 & v3), Modbus RTU and TCP/IP, BACnet, HTTPS, and SSH.

Firmware communication options (IPV4, IPV6, DHCP, WPA2) are pre-packaged into the meter build. While these options are selected and then enabled during factory assembly, they can be re-configured at any time in the field. The M70 CPM is compatible with all major DCIM and BMS packages.

The M70 CPM can also be complemented with end feed accessories, such as real-time lug temperature monitoring, IR window scanning and audible alarms. Unlike firmware options, these hardware features are not field changeable.

The M70 is available in 110-500vac, 48vdc and 380vdc versions.

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).*

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

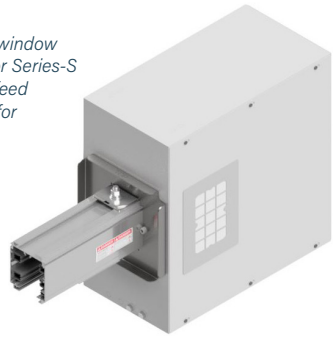
IR WINDOWS

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.

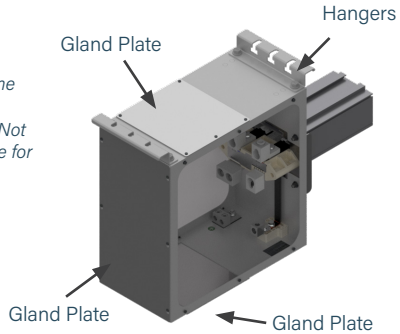


END FEED HANGERS & GLAND PLATES

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 hangars 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. M70 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

U	F	250	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

–	0100	C	–	STD	0	–	M73	00	1	*Optional
	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
S5 S5 System
K5 T5 System (Limiting Strip)
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
N 3 Phase plus 200% Neutral
G 3 Phase plus Neutral plus Internal Ground Conductor
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
L Standard lugs, Large box
B Bolt Lugs, Standard Box
R Bolt lugs, Large box
F Standard lugs, Fused box

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

R Right
N None (N/A)
L Left

10. Accessories Package *(optional accessories for feed units)*

T5 Options:
S Standard
C IR Window - Circular
F End Feed Hanger & Gland Plates
G Starline Rect. IR window, 5"x7"
B (C+F)
I (G+F)

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)
L Left
R Right
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
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

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
3 Tape Factory Black
4 Tape Factory White
6 Tape Factory Red
7 Tape Factory Blue
8 Tape Factory Green
9 Tape Factory Yellow

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

END FEED METERING: PRODUCT NUMBERS

U	F	250	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

–	0100	C	–	STD	0	–	M73	00	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type	

*16. Meter Release *(M70 AC)*

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*16. Meter Release *(M70 DC)*

M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*17. Meter Options *(M70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*18. System Configuration and CT Type *(M70 AC)*

1 Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral

8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Δ, Solid CTs, Millivolt, Measured Neutral
C Δ, Split CTs, 5A-secondary, Measured Neutral

*18. System Configuration and CT Type *(M70 DC)*

J DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT

M73
(2) RJ11, (2) RJ45, Lg. Display

M76
Wi-Fi + (2) RJ11, (2) RJ45, Lg. Display

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

EXAMPLE

UF250T5C4R-LRLL-0100C-BLK0-M73001 = *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, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral*

250 AMP SYSTEMS

ABOVE FEED UNITS

PRODUCT DESCRIPTION

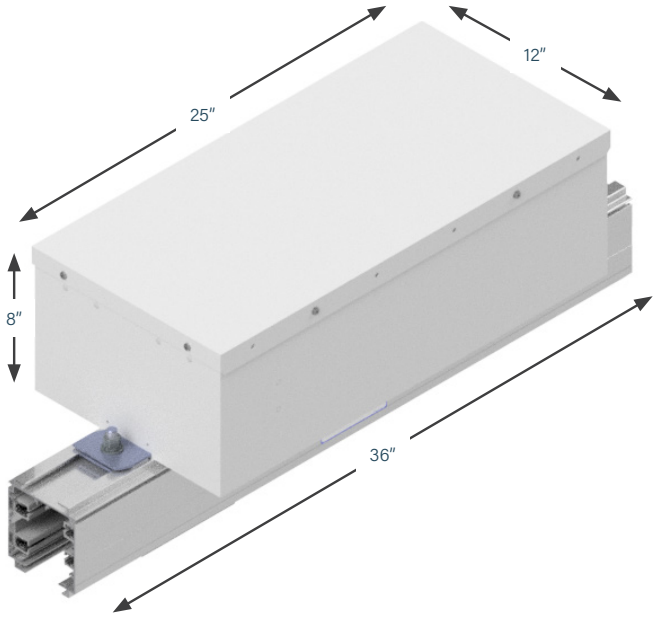
The above feed power unit supplies power from the topside of the Busway. Factory assembled unit consists of a 25 x 12 x 8 inch steel junction box that is mounted on top of a 36 inch section of busway.

*36 inches is the minimum and standard length of busway that an above feed is provided with.

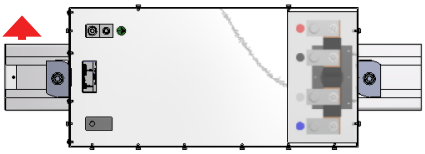
Above feed units can be placed at the end or anywhere along a busway run. Connections to adjoining busway sections are made by the standard means, requiring couplers and bus connectors which are sold separately.

Weight 45.5 lbs

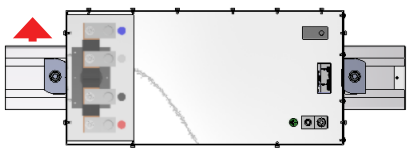
*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on downloads.starlinepower.com/starline/busway



Standard (S)



Reversed (R)



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	–	M73	00	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
S5 S5 System
K5 T5 System (Limiting Strip)
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
N 3 Phase plus 200% Neutral
G 3 Phase plus Neutral plus Internal Ground Conductor
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)
L Left
R Right
T Top
A Rear
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
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

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
3 Tape Factory Black
4 Tape Factory White
6 Tape Factory Red
7 Tape Factory Blue
8 Tape Factory Green
9 Tape Factory Yellow

EXAMPLE

UA250T5CFS-DLSN-0300C018-STD0-M73001 = *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, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral*

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	–	M73	00	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	

*17. Meter Release *(M70 AC)*

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*17. Meter Release *(M70 DC)*

M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M(2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*18. Meter Options *(M70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*19. System Configuration and CT Type *(M70 AC)*

1 Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral

8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Δ, Solid CTs, Millivolt, Measured Neutral
C Δ, Split CTs, 5A-secondary, Measured Neutral

*19. System Configuration and CT Type *(M70 DC)*

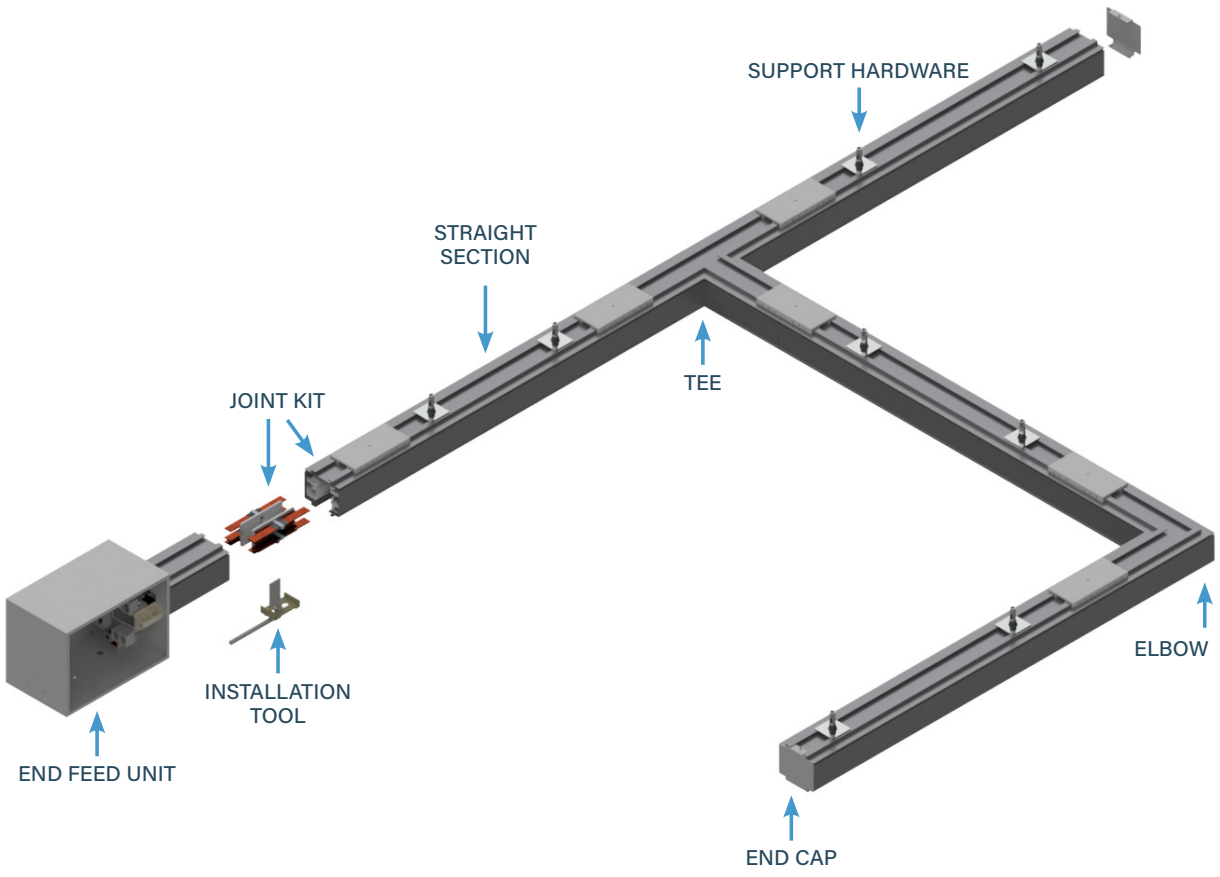
J DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT

EXAMPLE

UA250T5CFS-DLSN-0300C018-STD0-M73001 = *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, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral*

400 AMP SYSTEMS

T5 SYSTEM LAYOUT DRAWING

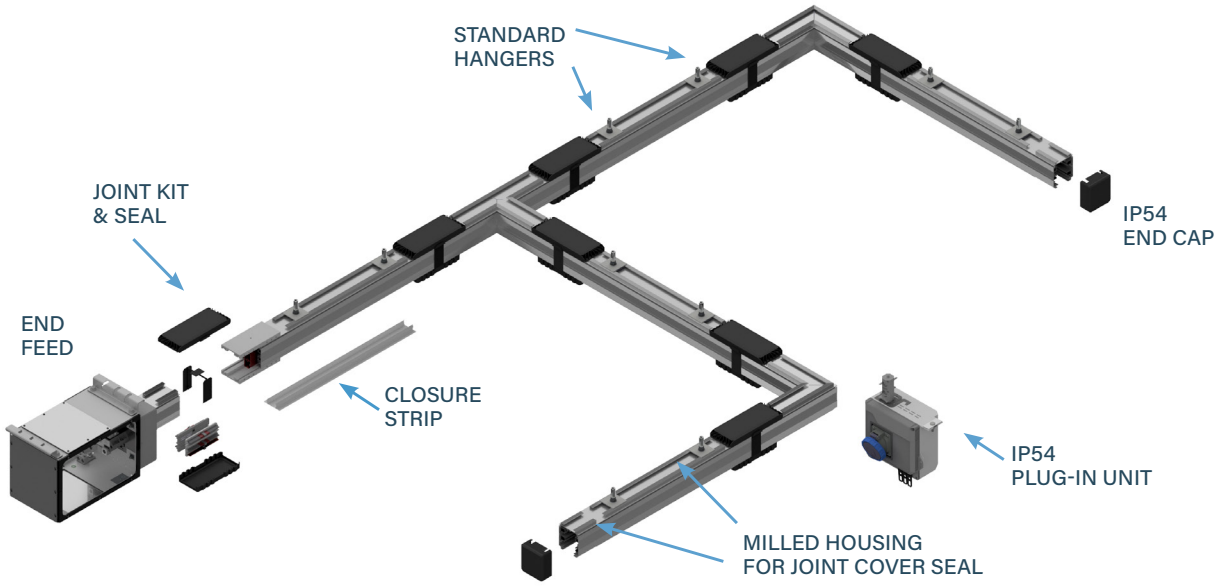


PLUG-IN UNITS

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

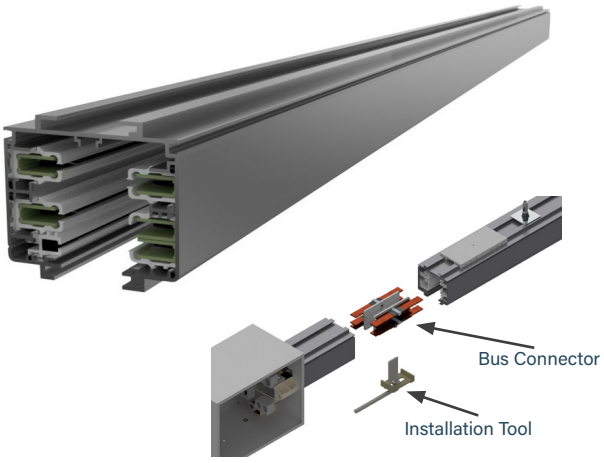
For further information on applicable S5 plug-in unit options, please visit the **Plug-In Units** section.

400 AMP SYSTEMS

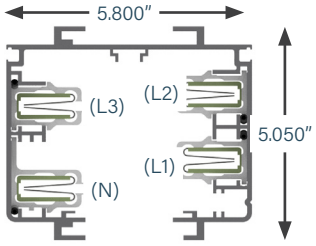
STRAIGHT SECTIONS

PRODUCT DESCRIPTION

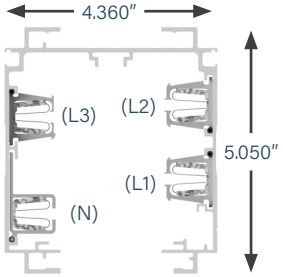
Track Busway straight section consists of an extruded aluminum shell with "spring-pressure" type copper channel busbars contained in a full length insulator mounted on the interior walls. The aluminum extrusion acts as a 100% ground path. Each housing has a continuous access slot over its entire length 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.



US SYSTEM



COMPACT US SYSTEM



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	–	STD	0
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

1. System *(standard of measure)*

U	US	**C**	Compact

2. Product Type *(section component)*

S	Straight Section

3. Product Frame *(maximum amperage)*

400	400 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

8. Straight Length *(length of section)*

XXYY	XX=feet, YY=inches

9. Busway Access *(how plugs access the busway)*

C	Continuous

10. 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 4.106)*

**Paint Factory Silver for Compact US systems*
NOTE: *All Series-S housings include a clear corrosion resistant base coating, regardless of paint color selection.*

11. 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

US400T5C4S-0500C-STD0 = *US System, Straight Section, 400 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 5 foot Straight Length, Continuous Busway Access, Factory Mill Finish, No Tape Marking*

CS400K5CNS-0206C-P013 = *Compact US System, Straight Section, 400 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus 200% Neutral, Standard Polarization, 2 foot 6 inch Straight Length, Continuous Busway Access, Painted RAL 1001, Factory Black Tape Marking*

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

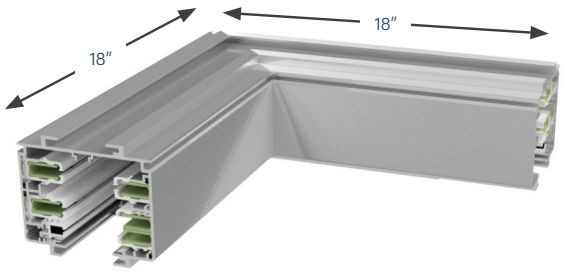
(Ordered Separately)

Joint Kits (**page 4.110**) are used to make mechanical and electrical connections to adjacent busway sections.

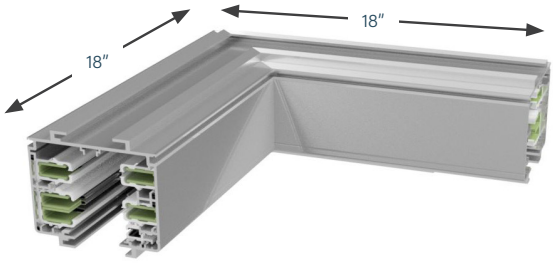
Weight

28 lbs US System

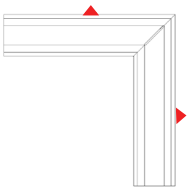
18 lbs Compact US System



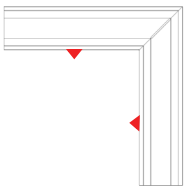
EXTERNAL ELBOW



INTERNAL ELBOW



External Elbow



Internal Elbow

▲ = Polarizing Stripe

400 AMP SYSTEMS

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

1. System *(standard of measure)*

U	US	**C**	Compact US

2. Product Type *(section component)*

E	Elbow Section

3. Product Frame *(maximum amperage)*

400	400 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

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

IN	Internal	**EX**	External
HN	Seismic Internal	**GX**	Seismic External

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 4.106)*

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

UE400K5C4S-IN-PJ70 = *US System, Elbow Section, 400 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Painted RAL 5027, No Tape Marking*

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*

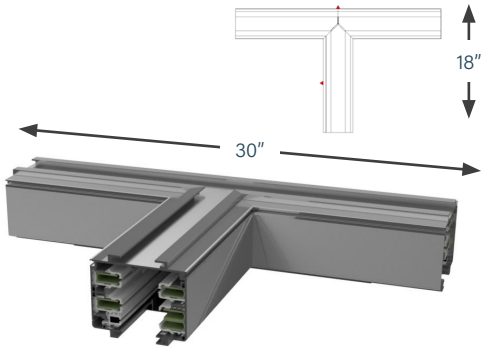
400 AMP SYSTEMS

TEE SECTIONS

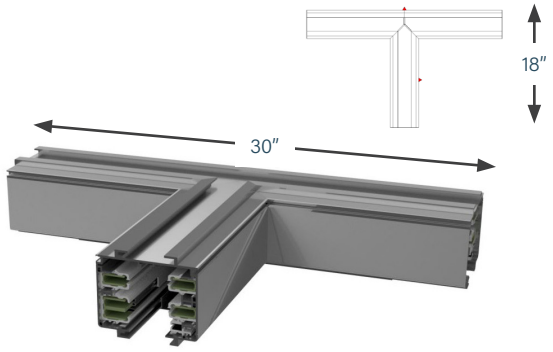
PRODUCT DESCRIPTION

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.

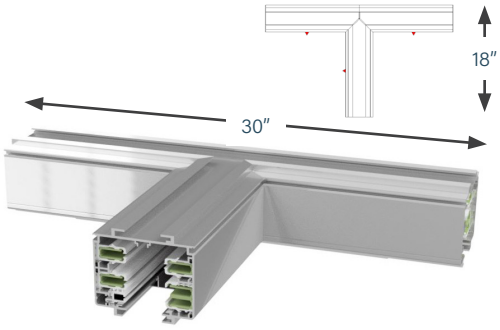
Weight
42 lbs US System
24 lbs Compact US System



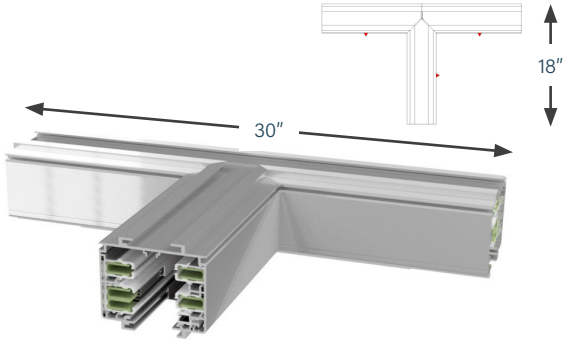
EXTERNAL-LEFT (EL)



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

–	STD	0
	9. Paint Color	10. Tape Marking

1. System *(standard of measure)*

U	US	**C**	Compact US

2. Product Type *(section component)*

T	Tee Section

3. Product Frame *(maximum amperage)*

400	400 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

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

IL	Internal-Left	**EL**	External-Left
IR	Internal-Right	**ER**	External-Right
HL	Seismic Internal-Left	**GL**	Seismic External-Left
HR	Seismic Internal-Right	**GR**	Seismic 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 4.106)*

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

UT400T5C4S-IR-RED0 = *US System, Tee Section, 400 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning direction, Painted Factory Red, No Tape Marking*

CT400K5CFS-EL-STD0 = *Compact US System, Tee Section, 400 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus 200% Neutral plus Internal Ground Conductor, Standard Polarization, External-Left Turning Direction, Factory Mill Finish, No Tape Marking*

400 AMP SYSTEMS

END FEED UNITS

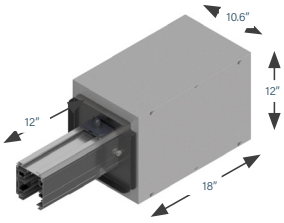
PRODUCT DESCRIPTION

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.

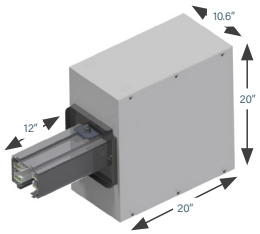
End power feed units are connected to adjacent busway sections using a housing coupler and bus connector (ordered separately).

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.

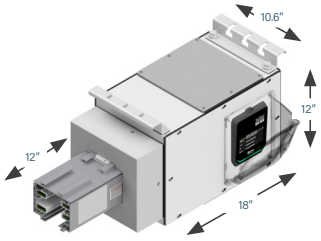
Weight (for standard size end feed) 36 lbs



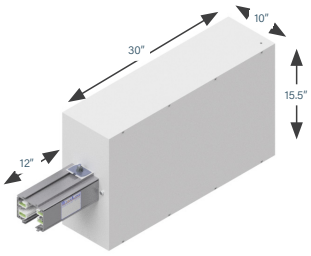
STANDARD BOX



LARGE BOX



400S5 END FEED WITH CPM



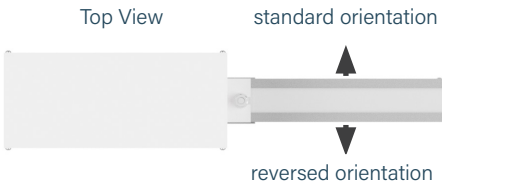
FUSED BOX

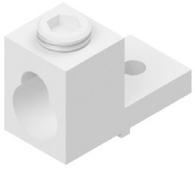
	BOXES		
LUGS	Standard	Large	Fused
Standard	**S**	**L**	**F**
Double			
Bolt	**B**	**R**	

Box size and Lug options: Refer to option 8. Lug/Box Options on ***page 4.37***
End Feed Units: Product Numbers

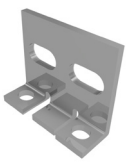
**Bolt options include bolt, washer, nut.*
Lug not included.

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





STANDARD "S"



COMPACT BOLT "B/R"

BOLT "R"

400 AMP SYSTEMS

END FEED UNITS: METERING

PRODUCT DESCRIPTION

End feed units can be populated with Starline's Critical Power Monitor to provide access to revenue-grade, three-phase power data. The M70 CPM is built with a 4.3-inch LCD touchscreen display that can be angled down for easier viewing from the floor.

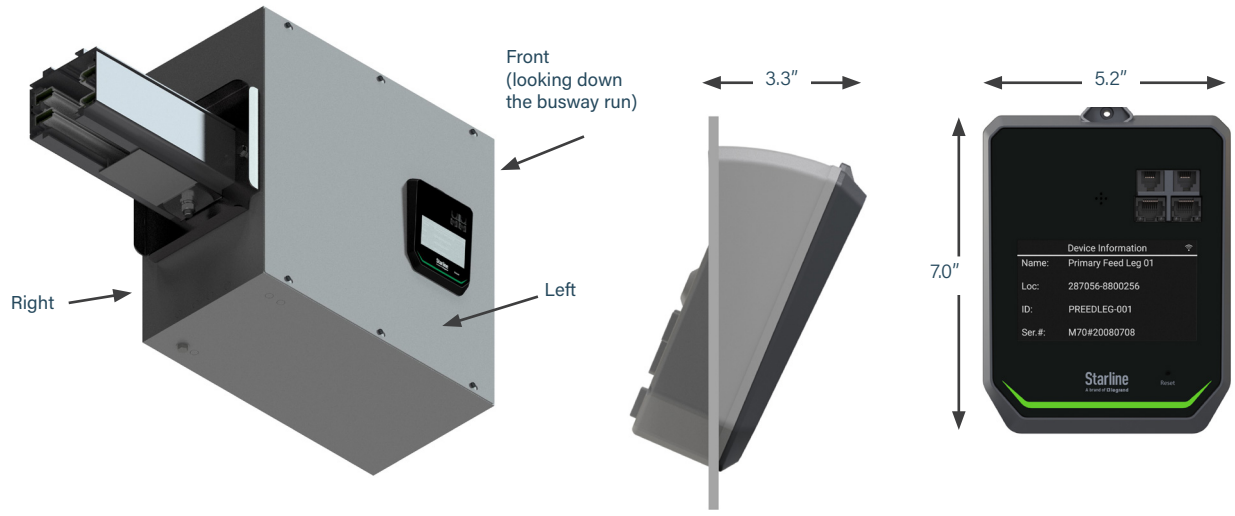
Wired ethernet and serial communications are standard with (2) RJ11 and (2) RJ45 jacks built in for easy daisy chaining. Optional 802.11n Wi-Fi connectivity is also available. Both serial Modbus and Ethernet-based protocols can be used simultaneously. These include: SNMP (v1, v2 & v3), Modbus RTU and TCP/IP, BACnet, HTTPS, and SSH.

Firmware communication options (IPV4, IPV6, DHCP, WPA2) are pre-packaged into the meter build. While these options are selected and then enabled during factory assembly, they can be re-configured at any time in the field. The M70 CPM is compatible with all major DCIM and BMS packages.

The M70 CPM can also be complemented with end feed accessories, such as real-time lug temperature monitoring, IR window scanning and audible alarms. Unlike firmware options, these hardware features are not field changeable.

The M70 is available in 110-500vac, 48vdc and 380vdc versions.

STANDARD BOX



*The above arrows show how to determine your meter location on an end feed *(Refer to option 9. Meter Location on* **page 4.37** *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.

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.

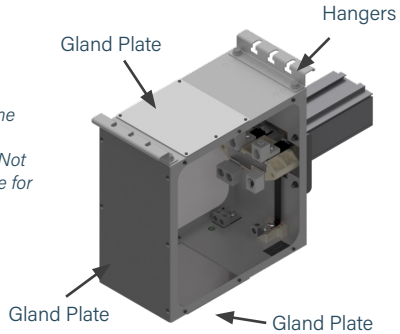
Note: Rectangular IR window option not available for Series-S systems. See S5 end feed accessories package for more information.

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 hangars 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. M70 Options on **page 4.38** End Feed Units: Product Numbers)*
*(Refer to option 10. Accessories Package on **page 4.37** End Feed Units: Product Numbers)*

400 AMP SYSTEMS

END FEED UNITS: PRODUCT NUMBERS

U	F	400	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

–	0100	C	–	STD	0	–	M73	00	1	*Optional
	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	**C**	Compact US

2. Product Type *(section component)*

F	End Feed

3. Product Frame *(maximum amperage)*

400	400 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	**F**	Standard lugs, Fused box
L	Standard lugs, Large box	**R**	Bolt lugs, Large 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 4.106)*

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

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*

400 AMP SYSTEMS

END FEED METERING: PRODUCT NUMBERS

U	F	400	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

–	0100	C	–	STD	0	–	M73	00	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type	

*16. Meter Release *(M70 AC)*

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*16. Meter Release *(M70 DC)*

M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*17. Meter Options *(M70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*18. System Configuration and CT Type *(M70 AC)*

1 Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral

8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Δ, Solid CTs, Millivolt, Measured Neutral
C Δ, Split CTs, 5A-secondary, Measured Neutral

*18. System Configuration and CT Type *(M70 DC)*

J DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT

M73
(2) RJ11, (2) RJ45, Lg. Display

M76
Wi-Fi + (2) RJ11, (2) RJ45, Lg. Display

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

EXAMPLE

UF400T5C4R-LRLL-0100C-BLK0-M73001 = *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, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral*

400 AMP SYSTEMS

ABOVE FEED UNITS

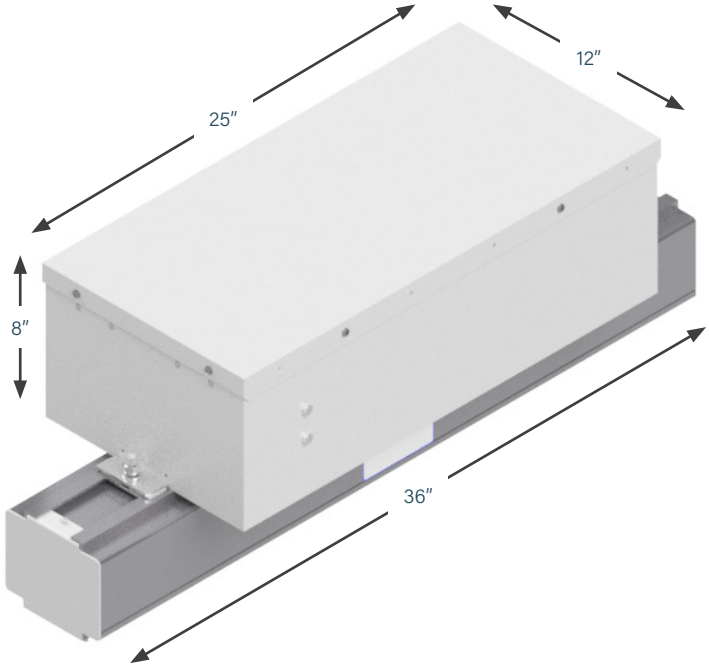
PRODUCT DESCRIPTION

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.

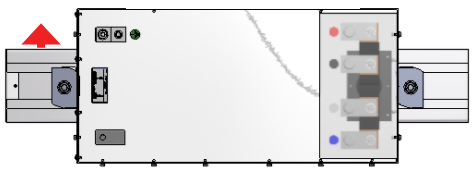
*36 inches is the minimum and standard length of busway that an above feed is provided with.

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.

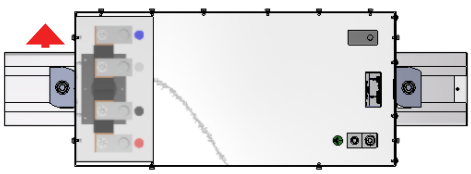
*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on downloads.starlinepower.com/starline/busway



Standard (S)



Reversed (R)



400 AMP SYSTEMS

ABOVE FEED UNITS: PRODUCT NUMBERS

U	A	400	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

–	0300	C	018	–	STD	0	–	M73	00	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	**C**	Compact US

2. Product Type *(section component)*

A	Above Feed

3. Product Frame *(maximum amperage)*

400	400 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

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 4.106)*

NOTE: *All Above 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		

EXAMPLE

UA400K5CFS-SRSN-0300C018-STD0-M73001 = *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, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral*

400 AMP SYSTEMS

ABOVE FEED UNITS: PRODUCT NUMBERS

U	A	400	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

–	0300	C	018	–	STD	0	–	M73	00	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	

*17. Meter Release *(M70 AC)*

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*17. Meter Release *(M70 DC)*

M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M(2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*18. Meter Options *(M70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*19. System Configuration and CT Type *(M70 AC)*

1 Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral

8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Δ, Solid CTs, Millivolt, Measured Neutral
C Δ, Split CTs, 5A-secondary, Measured Neutral

*19. System Configuration and CT Type *(M70 DC)*

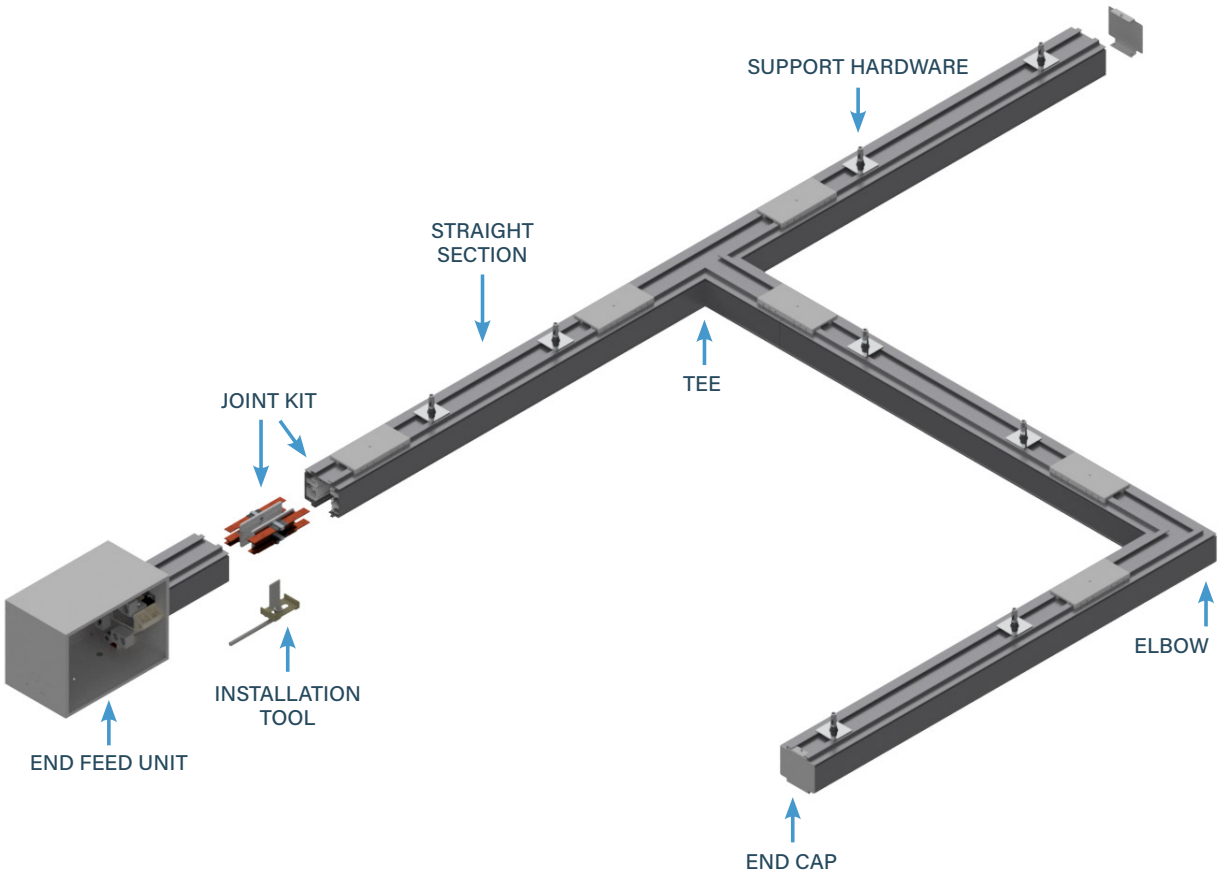
J DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT

EXAMPLE

UA400K5CFS-SRSN-0300C018-STD0-M73001 = *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, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral*

500 AMP SYSTEMS

T5 SYSTEM LAYOUT DRAWING

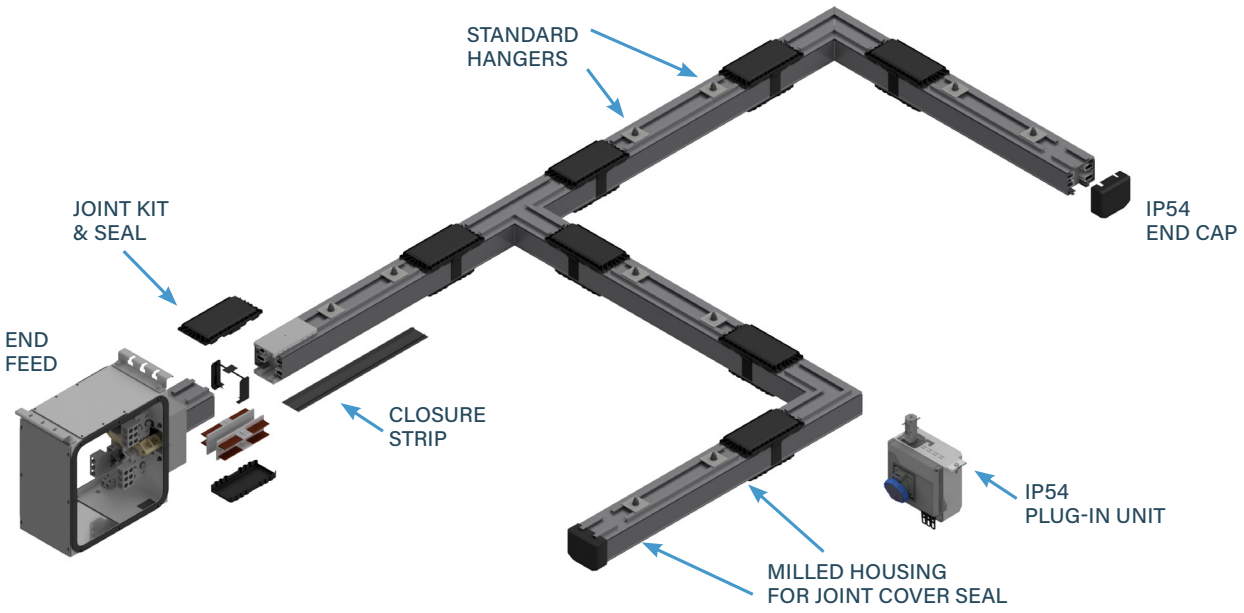


PLUG-IN UNITS

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

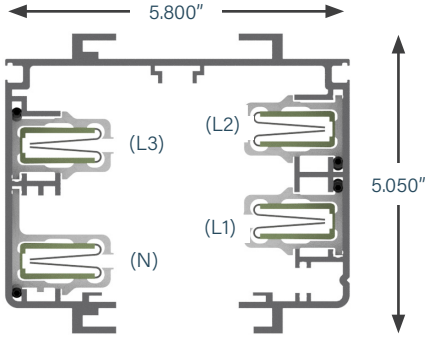
For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.

500 AMP SYSTEMS

STRAIGHT SECTIONS

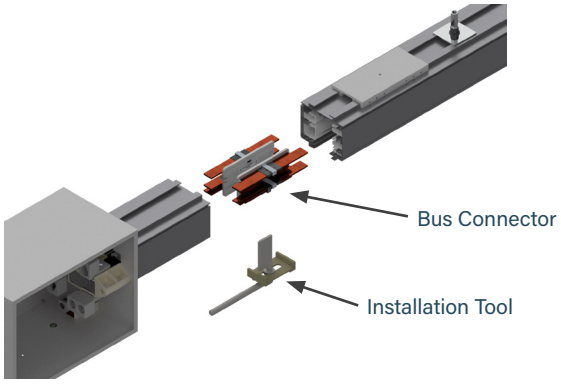
PRODUCT DESCRIPTION

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



500 AMP SYSTEMS

STRAIGHT SECTIONS: PRODUCT NUMBERS

U	S	500	T5	C	4	S	–	0200	C	–	STD	0
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

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

S Straight Section

3. Product Frame *(maximum amperage)*

500 500 amps

4. Compatibility *(frame compatibility)*

T5 T5 System
S5 S5 System
K5 T5 System (Limiting Strip)
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. Straight Length *(length of section)*

XXYY XX=feet, YY=inches

9. Busway Access *(how plugs access the busway)*

C Continuous

10. Paint Color *(allows painting of the busway housing)*

STD Factory Mill Finish
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

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

11. Tape Marking *(colored tape on both sides of busway housing)*

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

EXAMPLES

US500T5C4S-0500C-STD0 = *US System, Straight Section, 500 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 5 foot Straight Length, Continuous Busway Access, Factory Mill Finish, No Tape Marking*

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

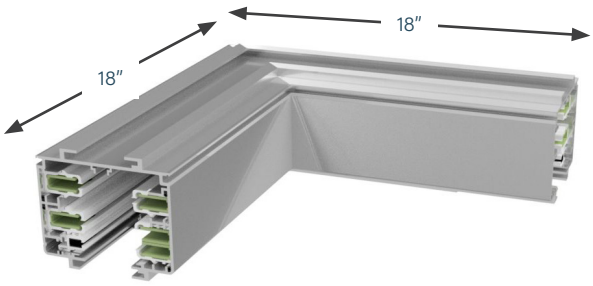
ELBOW SECTIONS

PRODUCT DESCRIPTION

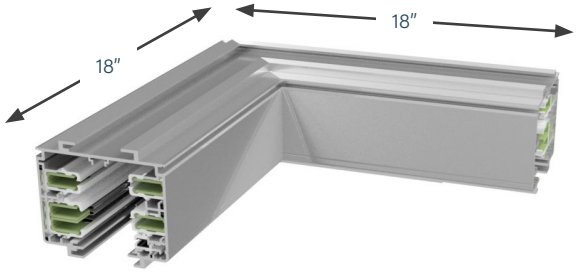
An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

Connection Accessories
(Ordered Separately)
A Joint Kit (**page 4.110**) is used to make mechanical and electrical connections to adjacent busway sections.

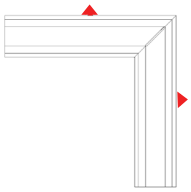
Weight 17.5 lbs



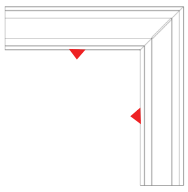
EXTERNAL ELBOW



INTERNAL ELBOW



External Elbow



Internal Elbow

▲ = Polarizing Stripe

500 AMP SYSTEMS

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

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

E Elbow Section

3. Product Frame *(maximum amperage)*

500 500 amps

4. Compatibility *(frame compatibility)*

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

IN Internal
EX External

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

STD Factory Mill Finish
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

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
3 Tape Factory Black
4 Tape Factory White
6 Tape Factory Red
7 Tape Factory Blue
8 Tape Factory Green
9 Tape Factory Yellow

EXAMPLES

UE500K5C4S-IN-STD7 = *US System, Elbow Section, 500 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Factory Mill Finish, Factory Blue Tape Marking*

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*

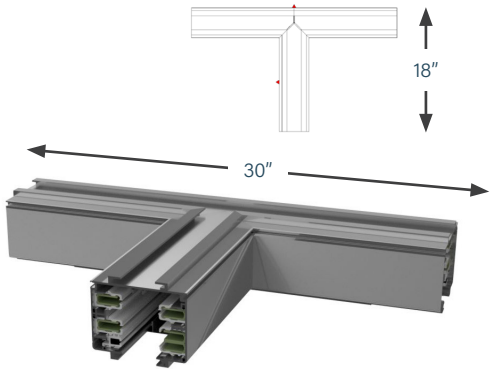
500 AMP SYSTEMS

TEE SECTIONS

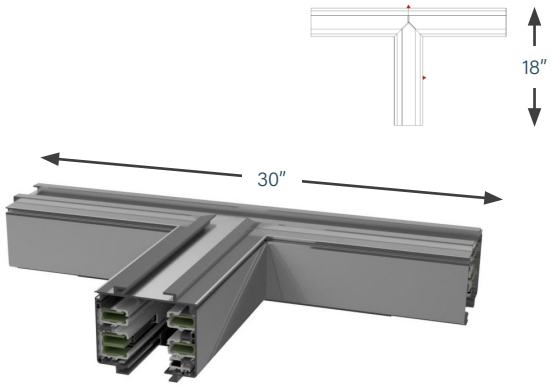
PRODUCT DESCRIPTION

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.

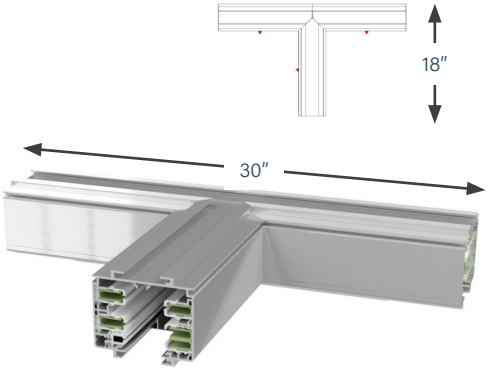
Weight 45.5 lbs



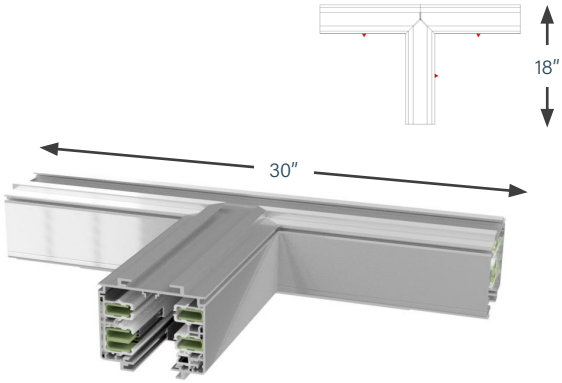
EXTERNAL-LEFT (EL)



EXTERNAL-RIGHT (ER)



INTERNAL-LEFT (IL)



INTERNAL-RIGHT (IR)

▲ = Polarizing Stripe

500 AMP SYSTEMS

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

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

T Tee Section

3. Product Frame *(maximum amperage)*

500 500 amps

4. Compatibility *(frame compatibility)*

T5 T5 System
S5 S5 System
K5 T5 System (Limiting Strip)
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
IR Internal-Right
EL External-Left
ER External-Right

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

STD Factory Mill Finish
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

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
3 Tape Factory Black
4 Tape Factory White
6 Tape Factory Red
7 Tape Factory Blue
8 Tape Factory Green
9 Tape Factory Yellow

EXAMPLES

UT500T5C4S-IR-RED0 = *US System, Tee Section, 500 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning Direction, Painted Factory Red, No Tape Marking*

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

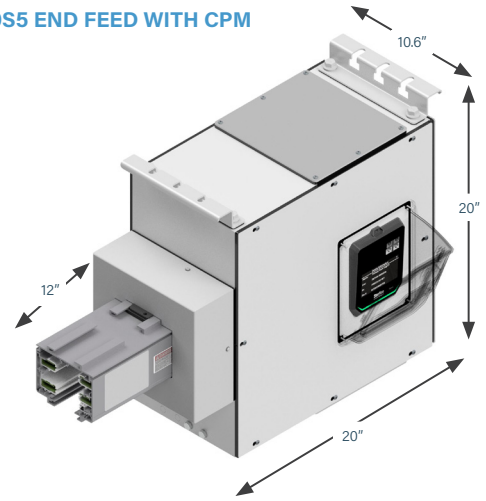
End power feed units connect to the end of the busway. A standard size, factory assembled unit consists of a steel junction box, with removable sides, connected to a 1 foot section of busway. The assembly includes connection lugs and a ground lug for wires (2) 250MCM or up to 600MCM for standard size boxes and large size boxes.

End power feed units are connected to adjacent busway sections using a housing coupler and bus connector (ordered separately).

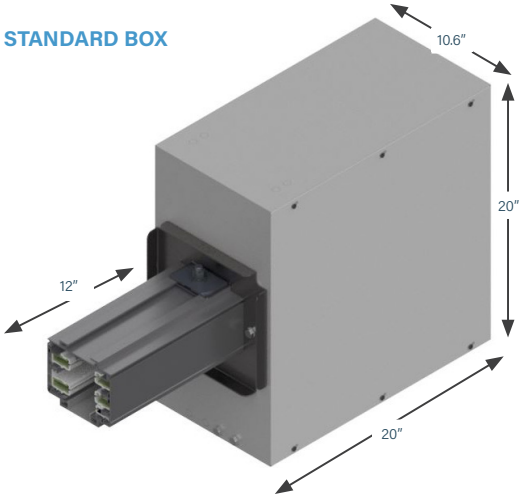
Special need power feed units for confined spaces, as found in mission critical data centers, can also be designed and fabricated but may require minimum quantities.

Weight (for standard size end feed) 35 lbs

500S5 END FEED WITH CPM



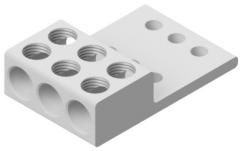
STANDARD BOX



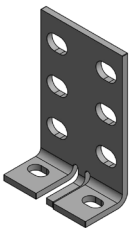
	BOXES		
LUGS	Standard	Large	Fused
Standard	**S**		
Double			
Bolt*	**B**		

**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



STANDARD "S"



BOLT "B"

500 AMP SYSTEMS

END FEED UNITS: METERING

PRODUCT DESCRIPTION

End feed units can be populated with Starline's Critical Power Monitor to provide access to revenue-grade, three-phase power data. The M70 CPM is built with a 4.3-inch LCD touchscreen display that can be angled down for easier viewing from the floor.

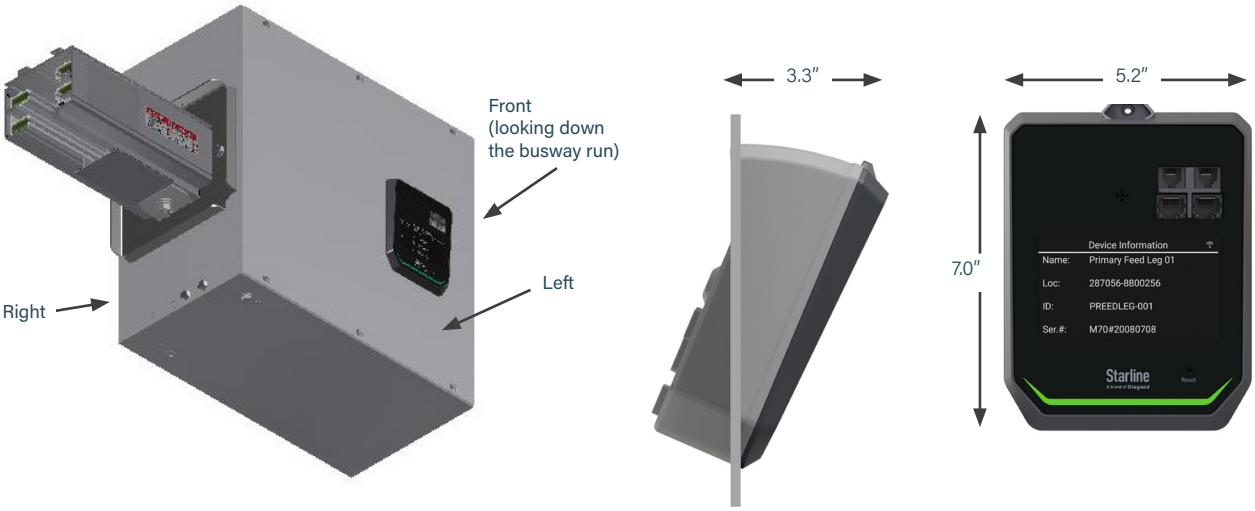
Wired ethernet and serial communications are standard with (2) RJ11 and (2) RJ45 jacks built in for easy daisy chaining. Optional 802.11n Wi-Fi connectivity is also available. Both serial Modbus and Ethernet-based protocols can be used simultaneously. These include: SNMP (v1, v2 & v3), Modbus RTU and TCP/IP, BACnet, HTTPS, and SSH.

Firmware communication options (IPV4, IPV6, DHCP, WPA2) are pre-packaged into the meter build. While these options are selected and then enabled during factory assembly, they can be re-configured at any time in the field. The M70 CPM is compatible with all major DCIM and BMS packages.

The M70 CPM can also be complemented with end feed accessories, such as real-time lug temperature monitoring, IR window scanning and audible alarms. Unlike firmware options, these hardware features are not field changeable.

The M70 is available in 110-500vac, 48vdc and 380vdc versions.

STANDARD BOX



*The above arrows show how to determine your meter location on an end feed *(Refer to option 9. Meter Location on* **page 4.53** *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.

500 AMP SYSTEMS

END FEED UNITS: ACCESSORIES

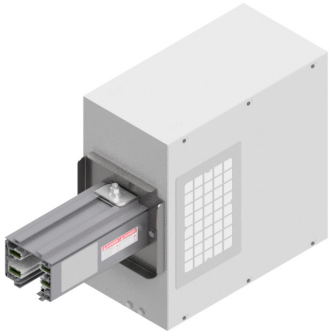
IR WINDOWS

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.

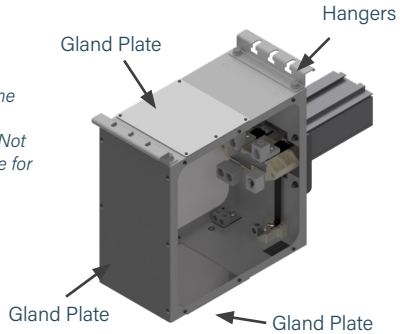


END FEED HANGERS & GLAND PLATES

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 hangars 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. M70 Options on **page 4.54** End Feed Units: Product Numbers)*
*(Refer to option 10. Accessories Package on **page 4.53** End Feed Units: Product Numbers)*

500 AMP SYSTEMS

END FEED UNITS: PRODUCT NUMBERS

U	F	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

–	0100	C	–	STD	0	–	M73	00	1	*Optional
	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)*

500 500 amps

4. Compatibility *(frame compatibility)*

T5 T5 System
S5 S5 System
K5 T5 System (Limiting Strip)
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
R Reversed

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

S Standard Lugs, Standard Box
B Bolt Lugs, Standard Box

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

R Right
N None (N/A)
L Left

10. Accessories Package *(optional accessories for feed units)*

T5 Options:
S Standard
C IR Window - Circular
F End Feed Hanger & Gland Plates
U Starline Rect. IR window, 8″x12″
B (C+F)
P (U+F)

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)
L Left
R Right
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
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

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
3 Tape Factory Black
4 Tape Factory White
6 Tape Factory Red
7 Tape Factory Blue
8 Tape Factory Green
9 Tape Factory Yellow

EXAMPLE

UF500T5C4R-SLSN-0102P-BLK0-M73001 = *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, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral*

500 AMP SYSTEMS

END FEED METERING: PRODUCT NUMBERS

U	F	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

–	0100	C	–	STD	0	–	M73	00	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type	

*16. Meter Release *(M70 AC)*

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*16. Meter Release *(M70 DC)*

M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*17. Meter Options *(M70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*18. System Configuration and CT Type *(M70 AC)*

1 Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral

8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Δ, Solid CTs, Millivolt, Measured Neutral
C Δ, Split CTs, 5A-secondary, Measured Neutral

*18. System Configuration and CT Type *(M70 DC)*

J DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT

M73
(2) RJ11, (2) RJ45, Lg. Display

M76
Wi-Fi + (2) RJ11, (2) RJ45, Lg. Display

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

EXAMPLE

UF500T5C4R-SLSN-0102P-BLK0-M73001 = *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, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral*

500 AMP SYSTEMS

ABOVE FEED UNITS

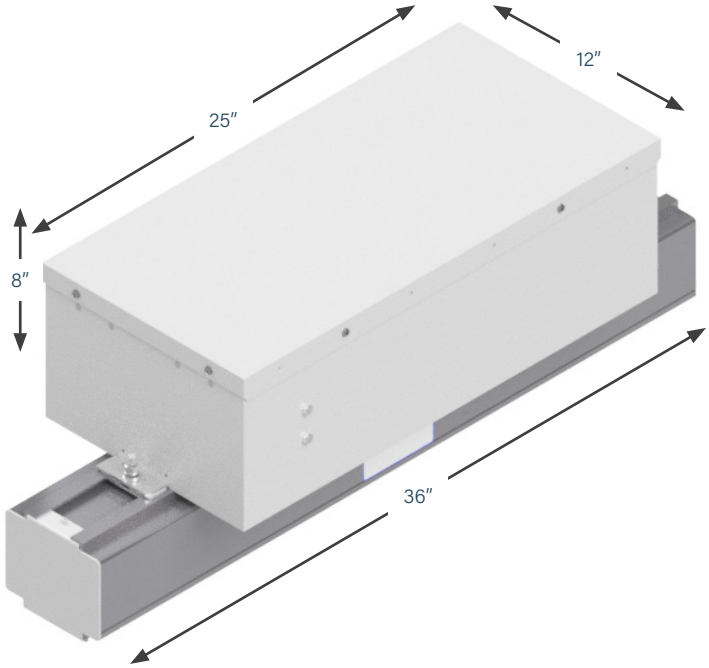
PRODUCT DESCRIPTION

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.

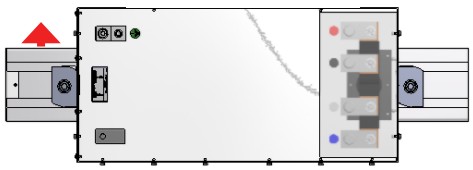
*36 inches is the minimum and standard length of busway that an above feed is provided with.

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.

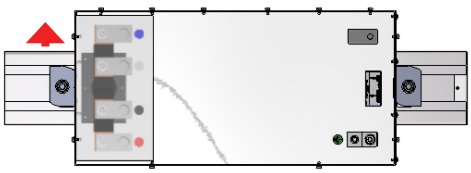
*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on downloads.starlinepower.com/starline/busway



Standard (S)



Reversed (R)



500 AMP SYSTEMS

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

–	0300	C	018	–	STD	0	–	M73	00	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)*

500 500 amps

4. Compatibility *(frame compatibility)*

T5 T5 System
S5 S5 System
K5 T5 System (Limiting Strip)
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
R Reversed

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

S Standard 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)
L Left
R Right
T Top
A Rear
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
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

NOTE: *All Above 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
3 Tape Factory Black
4 Tape Factory White
6 Tape Factory Red
7 Tape Factory Blue
8 Tape Factory Green
9 Tape Factory Yellow

EXAMPLE

UA500T5C4S-SRSN-0300C018-STD0-M73001 = *US System, Above Feed, 500 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, 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, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral*

500 AMP SYSTEMS

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

–	0300	C	018	–	STD	0	–	M73	00	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	

*17. Meter Release *(M70 AC)*

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*17. Meter Release *(M70 DC)*

M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*18. Meter Options *(M70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*19. System Configuration and CT Type *(M70 AC)*

1 Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral

8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Δ, Solid CTs, Millivolt, Measured Neutral
C Δ, Split CTs, 5A-secondary, Measured Neutral

*19. System Configuration and CT Type *(M70 DC)*

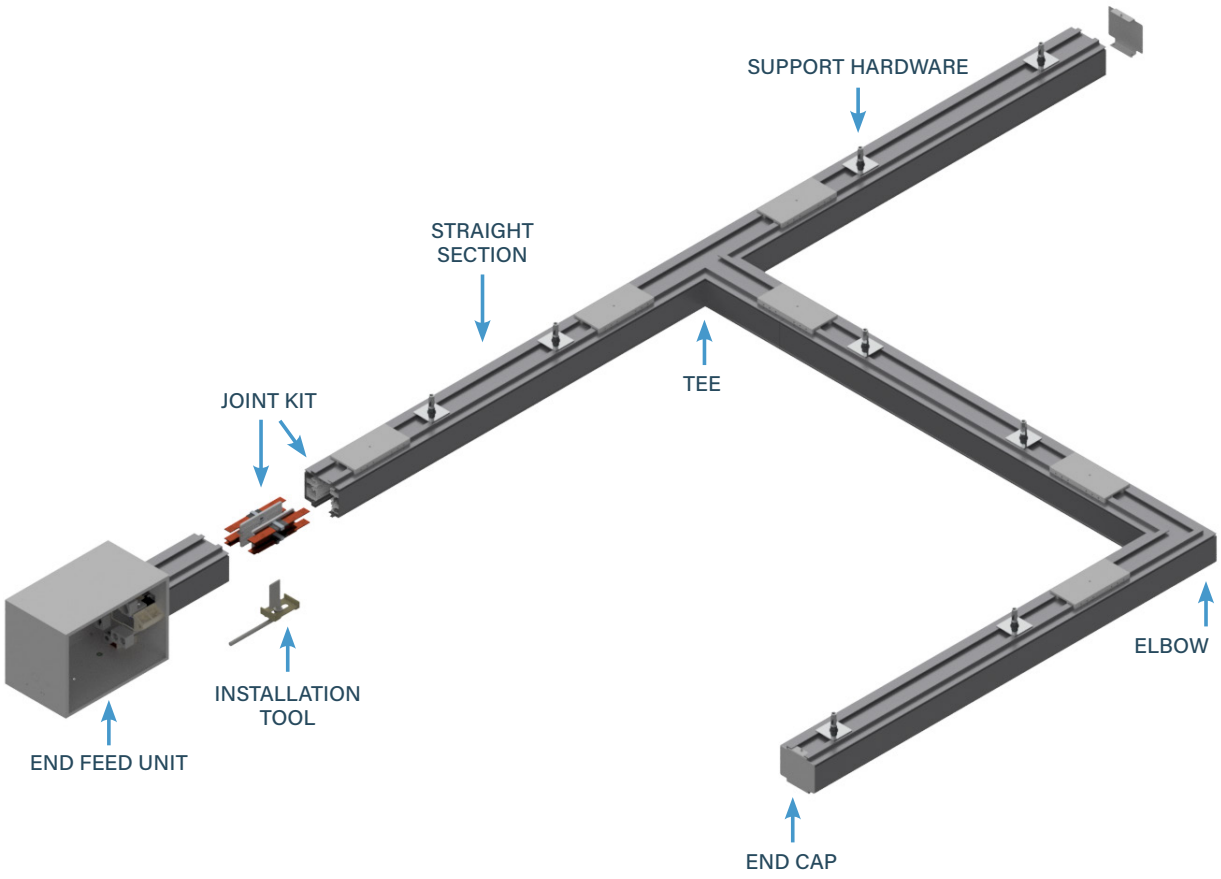
J DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT

EXAMPLE

UA500T5C4S-SRSN-0300C018-STD0-M73001 = *US System, Above Feed, 500 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, 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, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral*

600 AMP SYSTEMS

T5 SYSTEM LAYOUT DRAWING

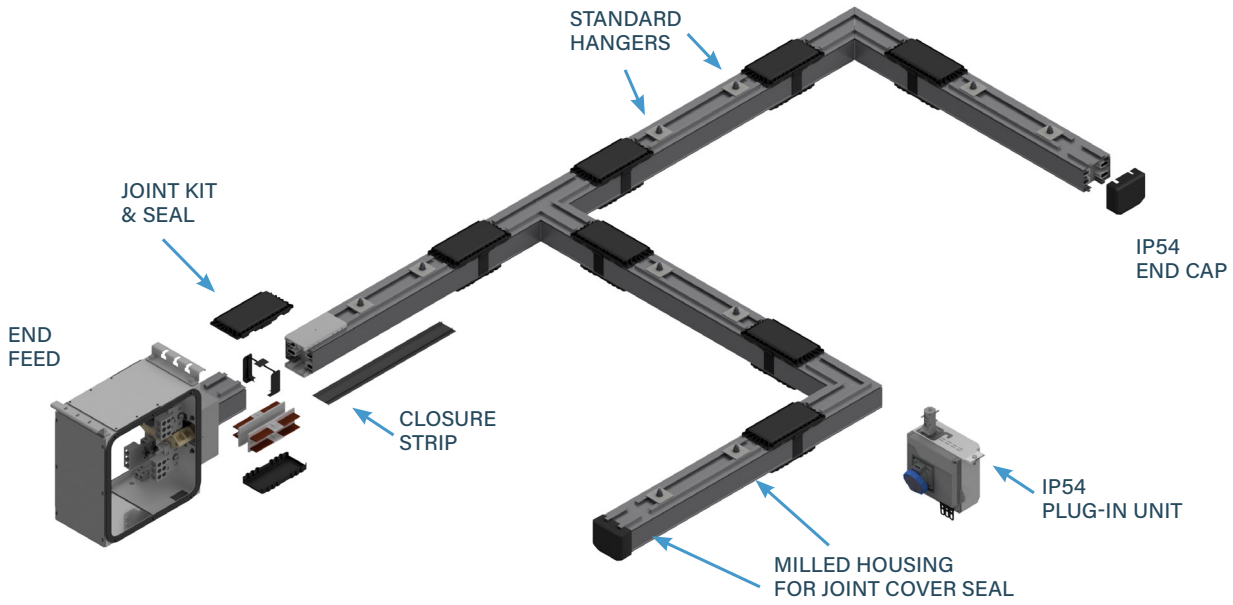


PLUG-IN UNITS

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

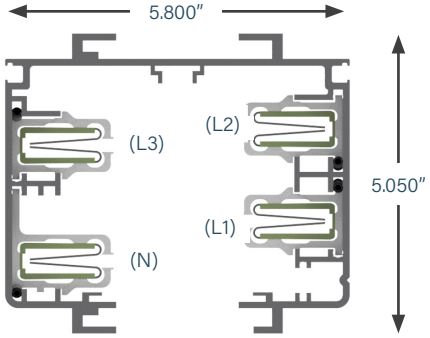
For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.

600 AMP SYSTEMS

STRAIGHT SECTIONS

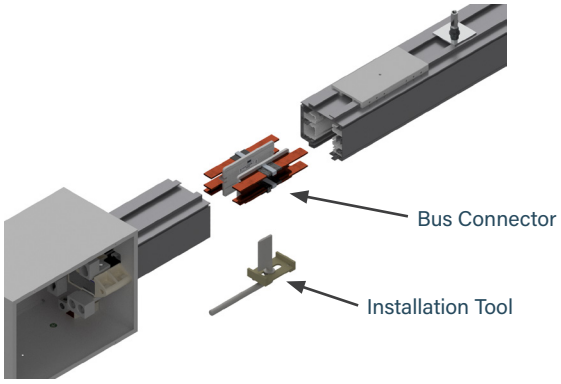
PRODUCT DESCRIPTION

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



600 AMP SYSTEMS

STRAIGHT SECTIONS: PRODUCT NUMBERS

U	S	600	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

–	STD	0
	10. Paint Color	11. Tape Marking

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

S Straight Section

3. Product Frame *(maximum amperage)*

600 600 amps

4. Compatibility *(frame compatibility)*

T5 T5 System
S5 S5 System
K5 T5 System (Limiting Strip)
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. Straight Length *(length of section)*

XXYY XX=feet, YY=inches

9. Busway Access *(how plugs access the busway)*

C Continuous

10. Paint Color *(allows painting of the busway housing)*

STD Factory Mill Finish
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

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

11. Tape Marking *(colored tape on both sides of busway housing)*

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

EXAMPLES

US600T5C4S-0500C-STD0 = *US System, Straight Section, 600 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 5 foot Straight Length, Continuous Busway Access, Factory Mill Finish, No Tape Marking*

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

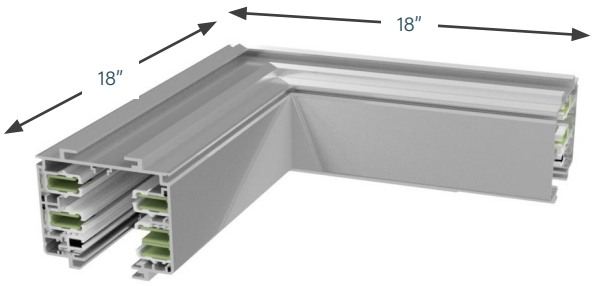
ELBOW SECTIONS

PRODUCT DESCRIPTION

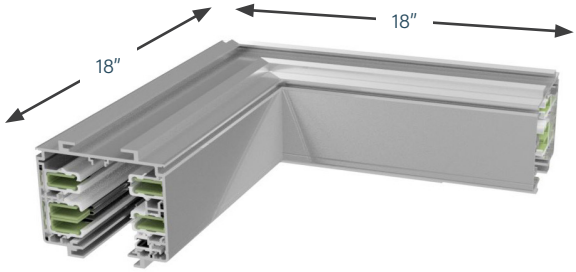
An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

Connection Accessories
(Ordered Separately)
A Joint Kit (**page 4.110**) is used to make mechanical and electrical connections to adjacent busway sections.

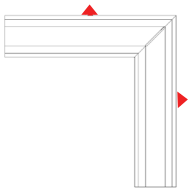
Weight 32 lbs



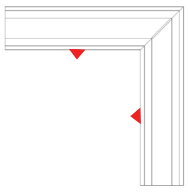
EXTERNAL ELBOW



INTERNAL ELBOW



External Elbow



Internal Elbow

▲ = Polarizing Stripe

600 AMP SYSTEMS

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

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

E Elbow Section

3. Product Frame *(maximum amperage)*

600 600 amps

4. Compatibility *(frame compatibility)*

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

IN Internal
EX External

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

STD Factory Mill Finish
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

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
3 Tape Factory Black
4 Tape Factory White
6 Tape Factory Red
7 Tape Factory Blue
8 Tape Factory Green
9 Tape Factory Yellow

EXAMPLES

UE600K5C4S-IN-STD7 = *US System, Elbow Section, 600 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Factory Mill Finish, Factory Blue Tape Marking*

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*

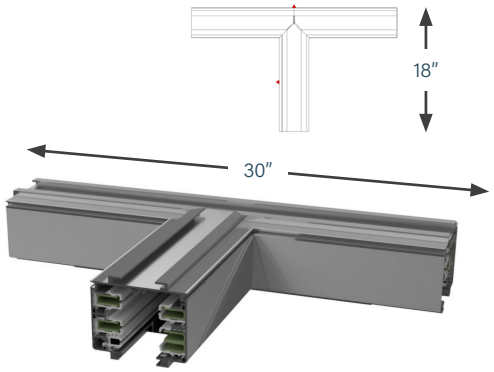
600 AMP SYSTEMS

TEE SECTIONS

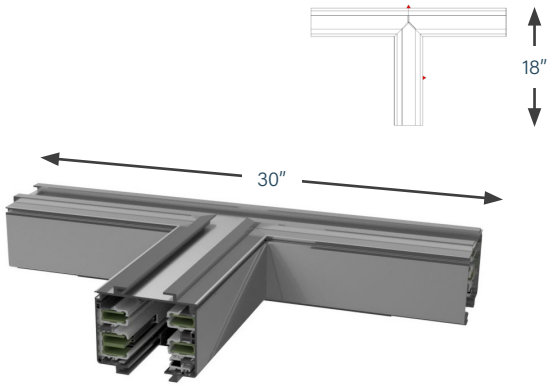
PRODUCT DESCRIPTION

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.

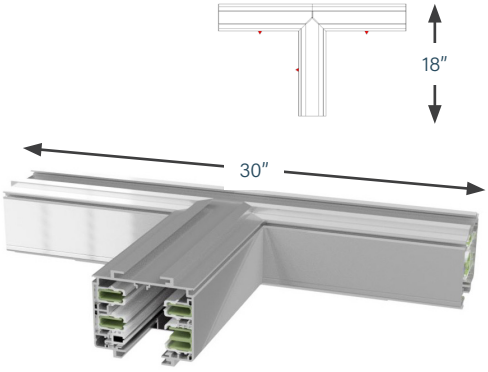
Weight 47.5 lbs



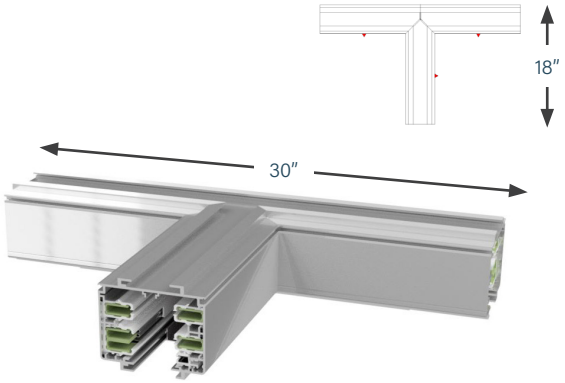
EXTERNAL-LEFT (EL)



EXTERNAL-RIGHT (ER)



INTERNAL-LEFT (IL)



INTERNAL-RIGHT (IR)

▲ = Polarizing Stripe

600 AMP SYSTEMS

TEE SECTIONS: PRODUCT NUMBERS

U	T	600	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

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
S5 S5 System
K5 T5 System (Limiting Strip)
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
IR Internal-Right
EL External-Left
ER External-Right

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

STD Factory Mill Finish
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

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
3 Tape Factory Black
4 Tape Factory White
6 Tape Factory Red
7 Tape Factory Blue
8 Tape Factory Green
9 Tape Factory Yellow

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

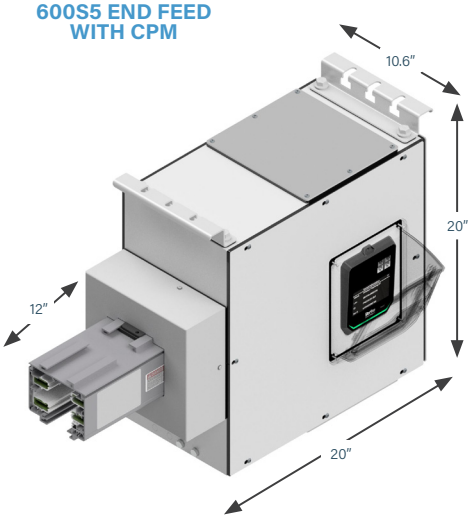
End power feed units connect to the end of the busway. A standard size, factory assembled unit consists of a steel junction box, with removable sides, connected to a 1 foot section of busway. The assembly includes connection lugs and a ground lug for wires (2) 250MCM or up to 600MCM for standard size boxes and large size boxes.

End power feed units are connected to adjacent busway sections using a housing coupler and bus connector (ordered separately).

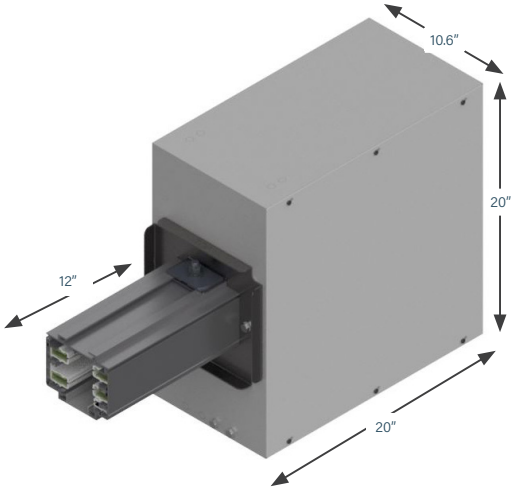
Special need power feed units for confined spaces, as found in mission critical data centers, can also be designed and fabricated but may require minimum quantities.

Weight (for standard size end feed) 52 lbs

600S5 END FEED WITH CPM



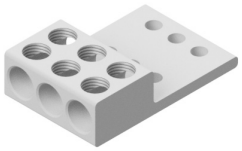
STANDARD BOX



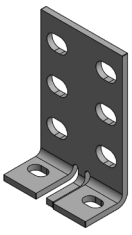
	BOXES		
LUGS	Standard	Large	Fused
Standard	**S**		
Double			
Bolt*	**B**		

**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



STANDARD "S"



BOLT "B"

600 AMP SYSTEMS

END FEED UNITS: METERING

PRODUCT DESCRIPTION

End feed units can be populated with Starline's Critical Power Monitor to provide access to revenue-grade, three-phase power data. The M70 CPM is built with a 4.3-inch LCD touchscreen display that can be angled down for easier viewing from the floor.

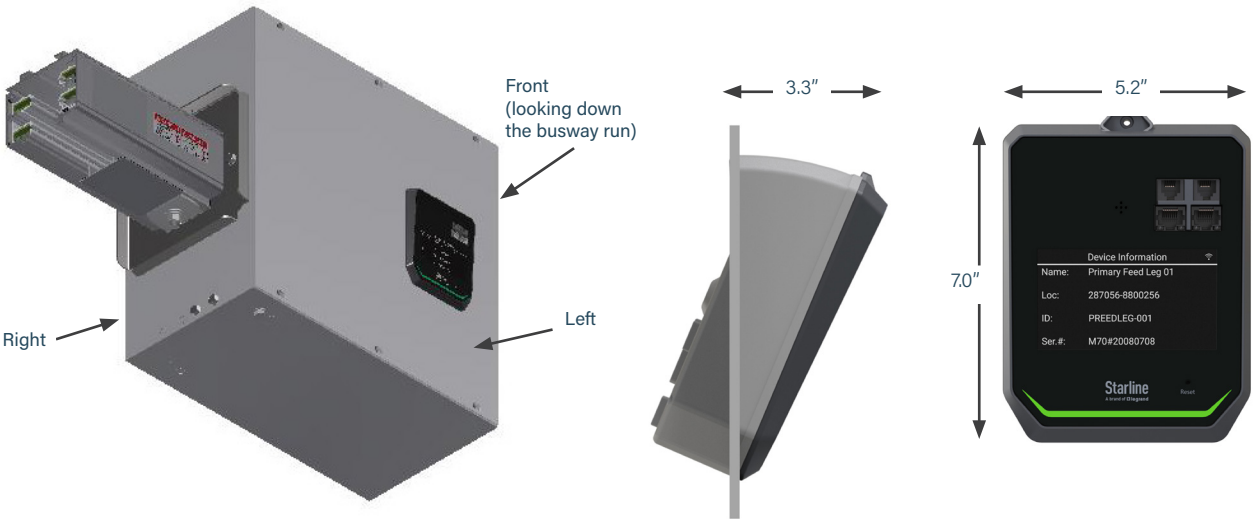
Wired ethernet and serial communications are standard with (2) RJ11 and (2) RJ45 jacks built in for easy daisy chaining. Optional 802.11n Wi-Fi connectivity is also available. Both serial Modbus and Ethernet-based protocols can be used simultaneously. These include: SNMP (v1, v2 & v3), Modbus RTU and TCP/IP, BACnet, HTTPS, and SSH.

Firmware communication options (IPV4, IPV6, DHCP, WPA2) are pre-packaged into the meter build. While these options are selected and then enabled during factory assembly, they can be re-configured at any time in the field. The M70 CPM is compatible with all major DCIM and BMS packages.

The M70 CPM can also be complemented with end feed accessories, such as real-time lug temperature monitoring, IR window scanning and audible alarms. Unlike firmware options, these hardware features are not field changeable.

The M70 is available in 110-500vac, 48vdc and 380vdc versions.

STANDARD BOX



*The above arrows show how to determine your meter location on an end feed *(Refer to option 9. Meter Location on* **page 4.69** *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.

600 AMP SYSTEMS

END FEED UNITS: ACCESSORIES

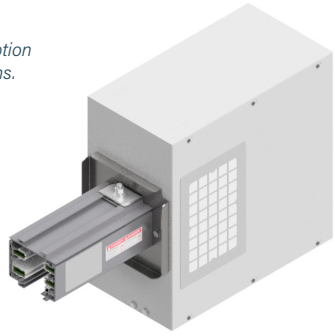
IR WINDOWS

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.

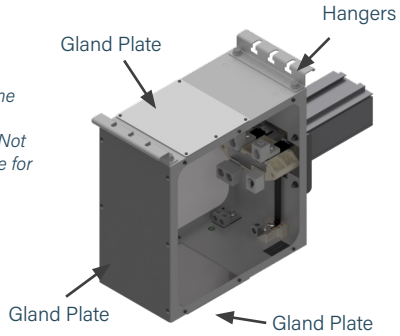


END FEED HANGERS & GLAND PLATES

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 hangars 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. M70 Options on **page 4.70** End Feed Units: Product Numbers)*
*(Refer to option 10. Accessories Package on **page 4.69** End Feed Units: Product Numbers)*

600 AMP SYSTEMS

END FEED UNITS: PRODUCT NUMBERS

U	F	600	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

–	0100	C	–	STD	0	–	M73	00	1	*Optional
	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)*

600 600 amps

4. Compatibility *(frame compatibility)*

T5 T5 System
S5 S5 System
K5 T5 System (Limiting Strip)
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
R Reversed

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

S Standard Lugs, Standard Box
B Bolt Lugs, Standard Box

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

R Right
N None (N/A)
L Left

10. Accessories Package *(optional accessories for feed units)*

T5 Options:
S Standard
C IR Window - Circular
F End Feed Hanger & Gland Plates
U Starline Rect. IR window, 8″x12″
B (C+F)
P (U+F)

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)
L Left
R Right
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
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

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
3 Tape Factory Black
4 Tape Factory White
6 Tape Factory Red
7 Tape Factory Blue
8 Tape Factory Green
9 Tape Factory Yellow

EXAMPLE

UF600T5C4R-SLSN-0102C-BLK0 = *US System, End Feed, 600 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*

600 AMP SYSTEMS

END FEED METERING: PRODUCT NUMBERS

U	F	600	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

–	0100	C	–	STD	0	–	M73	00	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type	

*16. Meter Release *(M70 AC)*

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*16. Meter Release *(M70 DC)*

M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*17. Meter Options *(M70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*18. System Configuration and CT Type *(M70 AC)*

1 Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral

8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Δ, Solid CTs, Millivolt, Measured Neutral
C Δ, Split CTs, 5A-secondary, Measured Neutral

*18. System Configuration and CT Type *(M70 DC)*

J DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT

M73
(2) RJ11, (2) RJ45, Lg. Display

M76
Wi-Fi + (2) RJ11, (2) RJ45, Lg. Display

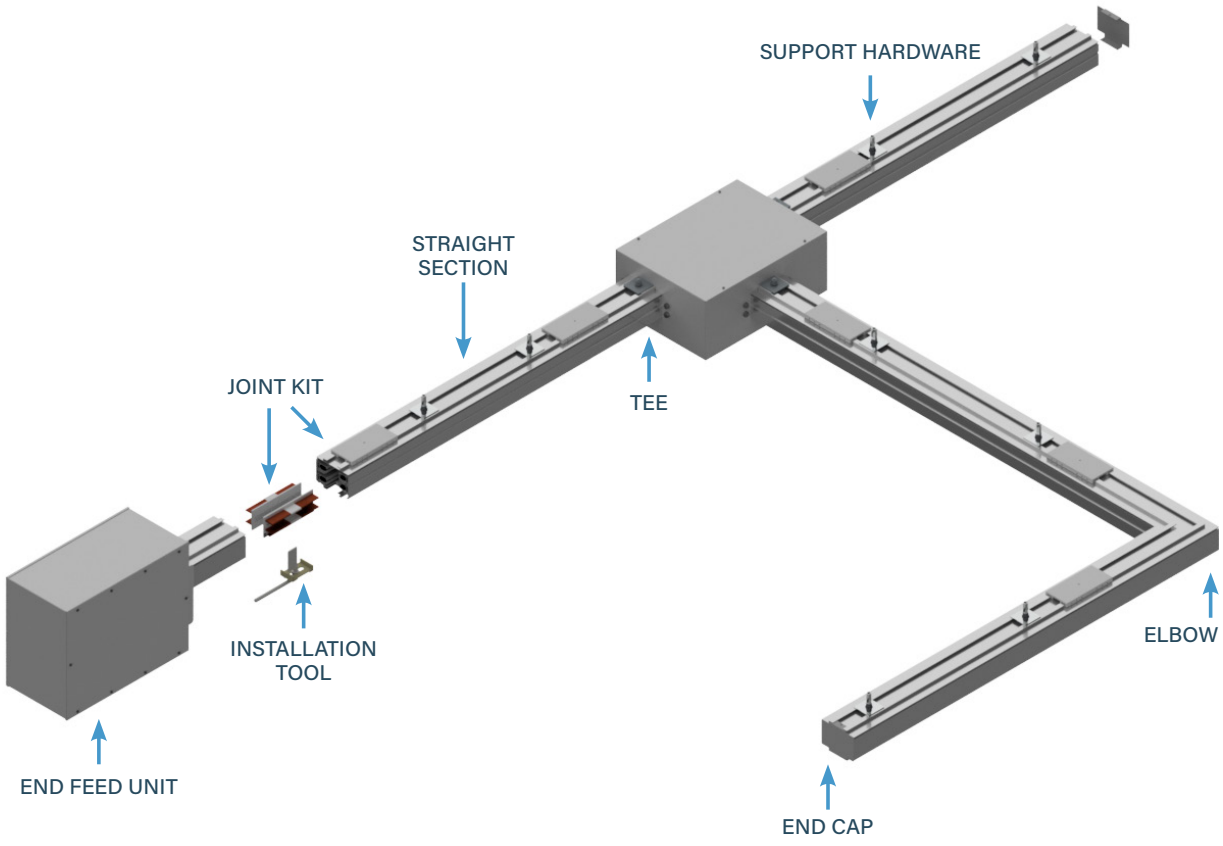
Note: Series - S end feeds not currently equipped with power monitoring. Consult factory for details.

EXAMPLE

UF600T5C4R-SLSN-0102P-BLK0-M73001 = *US System, End Feed, 600 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, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral*

800 AMP SYSTEMS

T5 SYSTEM LAYOUT DRAWING

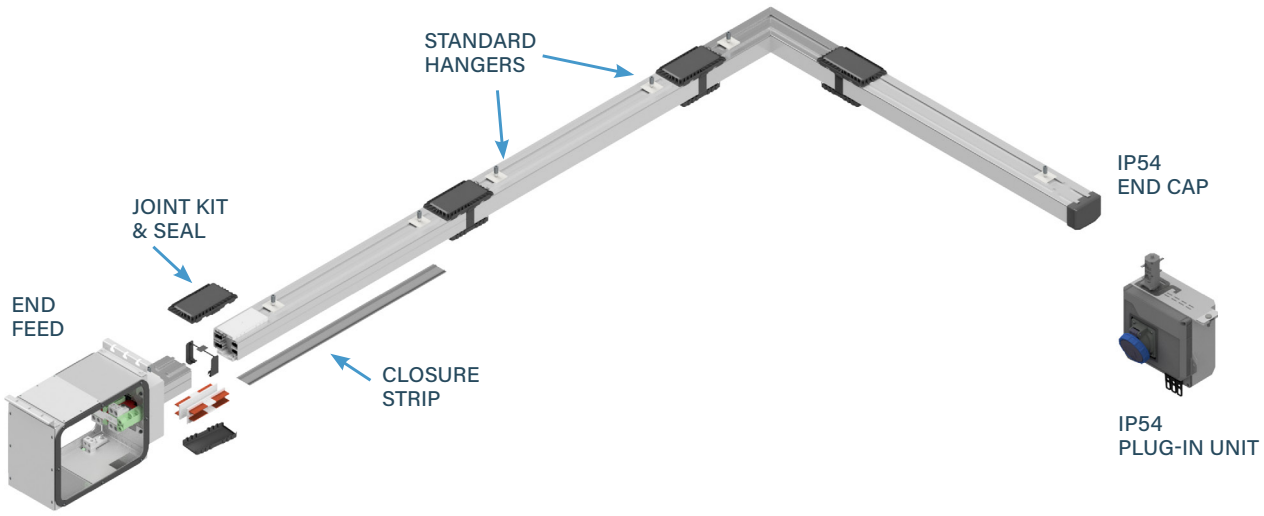


PLUG-IN UNITS

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

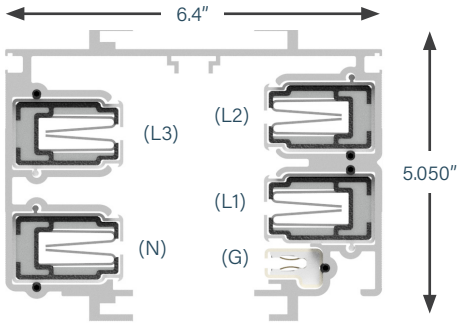
For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.

800 AMP SYSTEMS

STRAIGHT SECTIONS

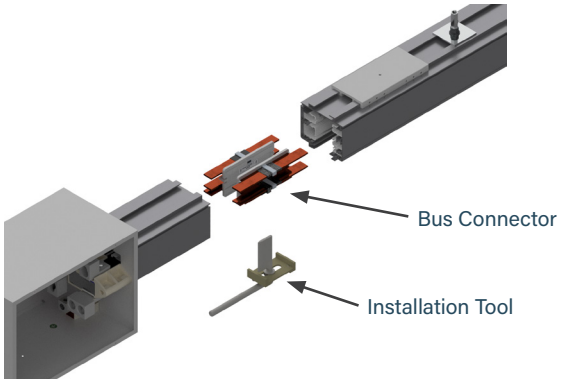
PRODUCT DESCRIPTION

Track Busway straight section consists of an extruded aluminum shell with you 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 *Note: S5 housing includes corrosion resistant base coating*
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



800 AMP SYSTEMS

STRAIGHT SECTIONS: PRODUCT NUMBERS

U	S	800	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

–	STD	0
	10. Paint Color	11. Tape Marking

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

S Straight Section

3. Product Frame *(maximum amperage)*

800 800 amps

4. Compatibility *(frame compatibility)*

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

5. Material *(busbar material)*

C Copper
H Hybrid (Cu/Al)

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. Straight Length *(length of section)*

XXYY XX=feet, YY=inches

9. Busway Access *(how plugs access the busway)*

C Continuous

10. Paint Color *(allows painting of the busway housing)*

STD Factory Mill Finish
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

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

11. Tape Marking *(colored tape on both sides of busway housing)*

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

EXAMPLES

US800T5C4S-0500C-STD0 = *US System, Straight Section, 800 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 5 foot Straight Length, Factory Mill Finish, No Tape Marking*

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

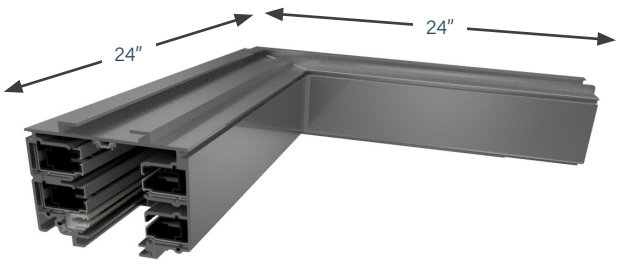
ELBOW SECTIONS

PRODUCT DESCRIPTION

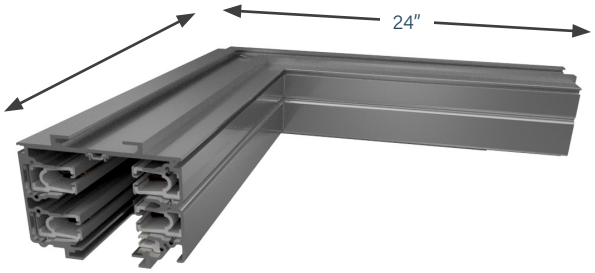
An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

Connection Accessories
(Ordered Separately)
A Joint Kit (**page 4.110**) is used to make mechanical and electrical connections to adjacent busway sections.

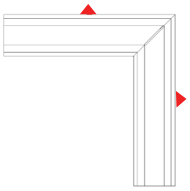
Weight 51 lbs - Hybrid



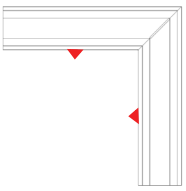
EXTERNAL ELBOW



INTERNAL ELBOW



External Elbow



Internal Elbow

▲ = Polarizing Stripe

800 AMP SYSTEMS

ELBOW SECTIONS: PRODUCT NUMBERS

U	E	800	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

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

E Elbow Section

3. Product Frame *(maximum amperage)*

800 800 amps

4. Compatibility *(frame compatibility)*

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

5. Material *(busbar material)*

C Copper
H Hybrid (Cu/Al)

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)*

IN Internal
EX External

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

STD Factory Mill Finish
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

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
3 Tape Factory Black
4 Tape Factory White
6 Tape Factory Red
7 Tape Factory Blue
8 Tape Factory Green
9 Tape Factory Yellow

EXAMPLES

UE800K5C4S-IN-STD7 = *US System, Elbow Section, 800 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Factory Mill Finish, Factory Blue Tape Marking*

UE800T5CGS-EX-BLK0 = *US System, Elbow Section, 800 amps, T5 System, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External Turning Direction, Painted Factory Black, No Tape Marking*

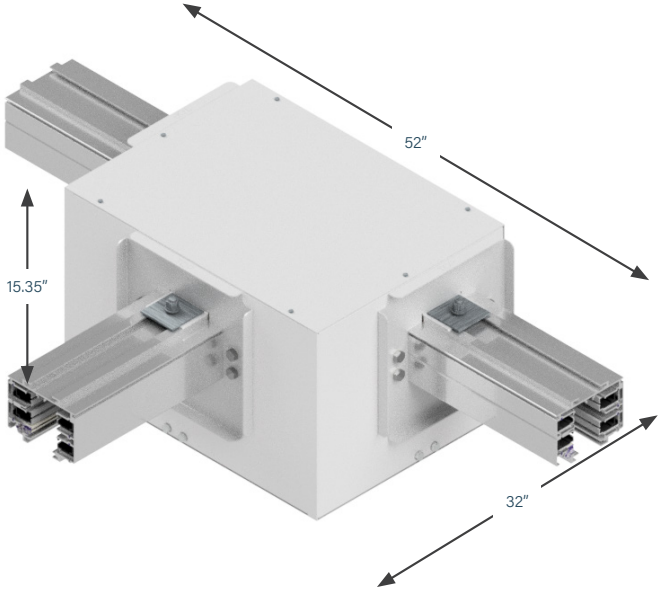
800 AMP SYSTEMS

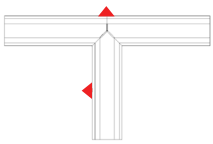
TEE SECTIONS

PRODUCT DESCRIPTION

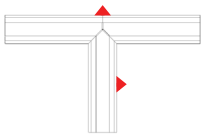
Tee sections are used for creating a 90 degree branch leg in a busway run. When laying out a system, specify the correct busbar orientation of the tee. Indicate right or left, external or internal busbars. External tees are preferred. Tee sections are connected to adjacent busway sections using an installation 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

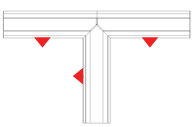




External-Left (EL)

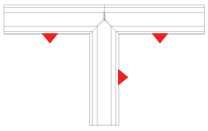


External-Right (ER)



Internal-Left (IL)

▲ = Polarizing Stripe



Internal-Right (IR)

800 AMP SYSTEMS

TEE SECTIONS: PRODUCT NUMBERS

U	T	800	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

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

T Tee Section

3. Product Frame *(maximum amperage)*

800 800 amps

4. Compatibility *(frame compatibility)*

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

5. Material *(busbar material)*

C Copper
H Hybrid (Cu/Al)

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
IR Internal-Right
EL External-Left
ER External-Right

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

STD Factory Mill Finish
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

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
3 Tape Factory Black
4 Tape Factory White
6 Tape Factory Red
7 Tape Factory Blue
8 Tape Factory Green
9 Tape Factory Yellow

EXAMPLES

UT800T5H4S-IR-RED0 = *US System, Tee Section, 800 amps, T5 System, Hybrid Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning Direction, Painted Factory Red, No Tape Marking*

UT800K5HGS-EL-STD0 = *US System, Tee Section, 800 amps, T5 System-K5 Limiting Strip, Hybrid Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External-Left Turning Direction, Factory Mill Finish, No Tape Marking*

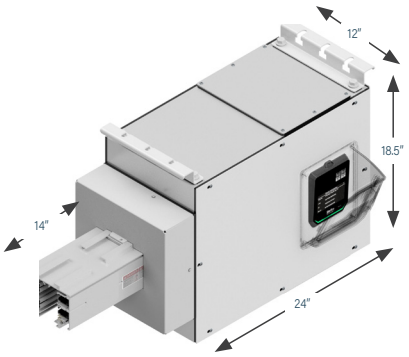
800 AMP SYSTEMS

END FEED UNITS

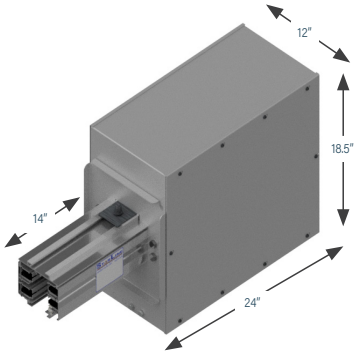
PRODUCT DESCRIPTION

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.

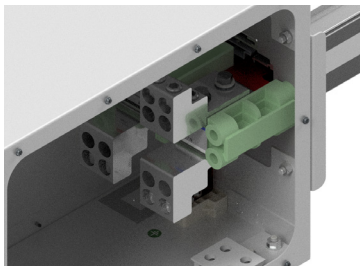
Weight 84.5 lbs



800S5 END FEED WITH CPM



STANDARD BOX



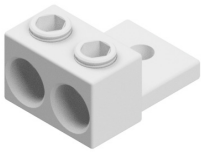
DOUBLE LUGS

	BOXES		
LUGS	Standard	Large	Fused
Standard	**S**		
Double	**D**		
Bolt*	**B**		
Quad*	**Q**		

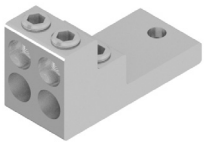
Box size and Lug options: Refer to option 8. Lug/Box Options on **page 4.82**
End Feed Units: Product Numbers

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

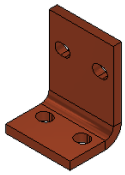
Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on* **downloads.starlinepower.com/starline/busway



STANDARD "S"



DOUBLE "D"



BOLT "B"

QUAD "Q"

800 AMP SYSTEMS

END FEED UNITS: METERING

PRODUCT DESCRIPTION

End feed units can be populated with Starline's Critical Power Monitor to provide access to revenue-grade, three-phase power data. The M70 CPM is built with a 4.3-inch LCD touchscreen display that can be angled down for easier viewing from the floor.

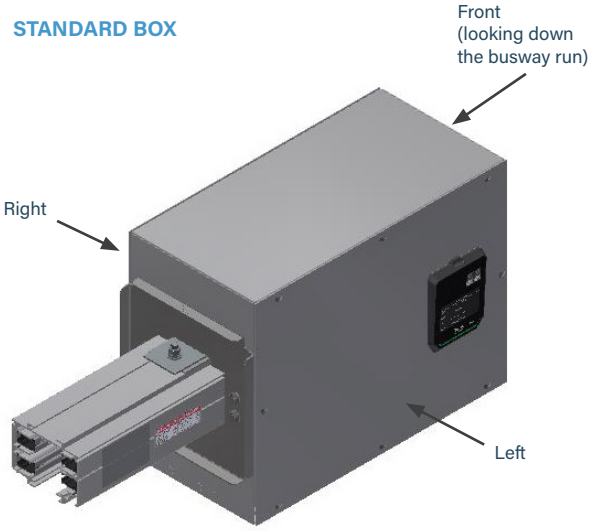
Wired ethernet and serial communications are standard with (2) RJ11 and (2) RJ45 jacks built in for easy daisy chaining. Optional 802.11n Wi-Fi connectivity is also available. Both serial Modbus and Ethernet-based protocols can be used simultaneously. These include: SNMP (v1, v2 & v3), Modbus RTU and TCP/IP, BACnet, HTTPS, and SSH.

Firmware communication options (IPV4, IPV6, DHCP, WPA2) are pre-packaged into the meter build. While these options are selected and then enabled during factory assembly, they can be re-configured at any time in the field. The M70 CPM is compatible with all major DCIM and BMS packages.

The M70 CPM can also be complemented with end feed accessories, such as real-time lug temperature monitoring, IR window scanning and audible alarms. Unlike firmware options, these hardware features are not field changeable.

The M70 is available in 110-500vac, 48vdc and 380vdc versions.

STANDARD BOX



*The above arrows show how to determine your meter location on an end feed *(Refer to option 9. Meter Location on* **page 4.82** *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.

800 AMP SYSTEMS

END FEED UNITS: ACCESSORIES

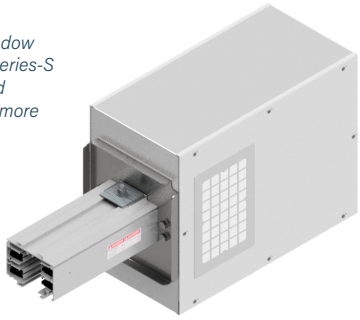
IR WINDOWS

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.

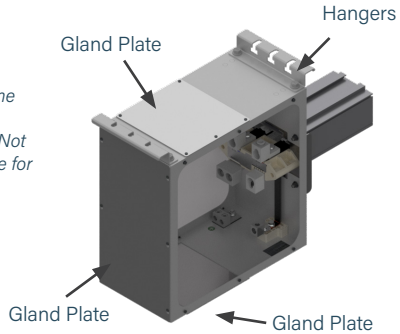


END FEED HANGERS & GLAND PLATES

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 hangars 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. M70 Options on **page 4.83** End Feed Units: Product Numbers)*
*(Refer to option 10. Accessories Package on **page 4.82** End Feed Units: Product Numbers)*

800 AMP SYSTEMS

END FEED UNITS: PRODUCT NUMBERS

U	F	800	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

–	0102	C	–	STD	0	–	M73	00	1	*Optional
	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)*

800 800 amps

4. Compatibility *(frame compatibility)*

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

5. Material *(busbar material)*

C Copper
H Hybrid (Cu/Al)Strip)

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
R Reversed

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

S Standard lugs, Standard box
B Bolt Lugs, Standard Box
D Double lugs, Standard box
Q Quad lugs, Large box

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

R Right
N None (N/A)
L Left

10. Accessories Package *(optional accessories for feed units)*

T5 Options:
S Standard
C IR Window - Circular
F End Feed Hanger & Gland Plates
U Starline Rect. IR window, 8″x12″
B (C+F)
P (U+F)

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)
L Left
R Right
F Front (consult the factory)

12. Straight Length *(length of section)*

0102 14 inches *(For other lengths, consult the factory)*

13. Busway Access

C Continuous

14. Paint Color *(allows painting of the busway housing)*

STD Factory Mill Finish
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

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
3 Tape Factory Black
4 Tape Factory White
6 Tape Factory Red
7 Tape Factory Blue
8 Tape Factory Green
9 Tape Factory Yellow

EXAMPLE

UF800T5C4R-SLSN-0102C-BLK0 = *US System, End Feed, 800 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, Painted Factory Black, No Tape Marking*

800 AMP SYSTEMS

END FEED METERING: PRODUCT NUMBERS

U	F	800	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

–	0102	C	–	STD	0	–	M73	00	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type	

*16. Meter Release *(M70 AC)*

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*16. Meter Release *(M70 DC)*

M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*17. Meter Options *(M70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*18. System Configuration and CT Type *(M70 AC)*

1 Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral

8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Δ, Solid CTs, Millivolt, Measured Neutral
C Δ, Split CTs, 5A-secondary, Measured Neutral

*18. System Configuration and CT Type *(M70 DC)*

J DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT

M73
(2) RJ11, (2) RJ45, Lg. Display

M76
Wi-Fi + (2) RJ11, (2) RJ45, Lg. Display

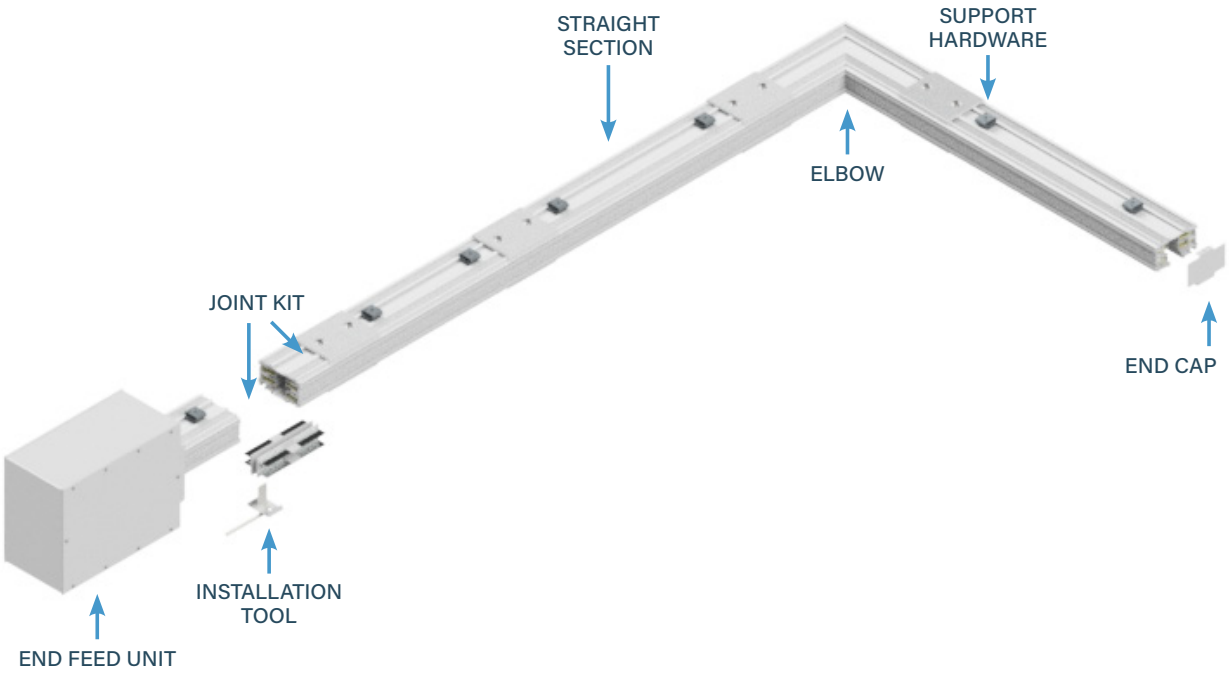
Note: Series - S end feeds not currently equipped with power monitoring. Consult factory for details.

EXAMPLE

UF800T5C4R-SLSN-0102C-BLK0-M73001 = *US System, End Feed, 800 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, Painted Factory Black, No Tape Marking, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral*

1000 AMP SYSTEMS

T5 SYSTEM LAYOUT DRAWING

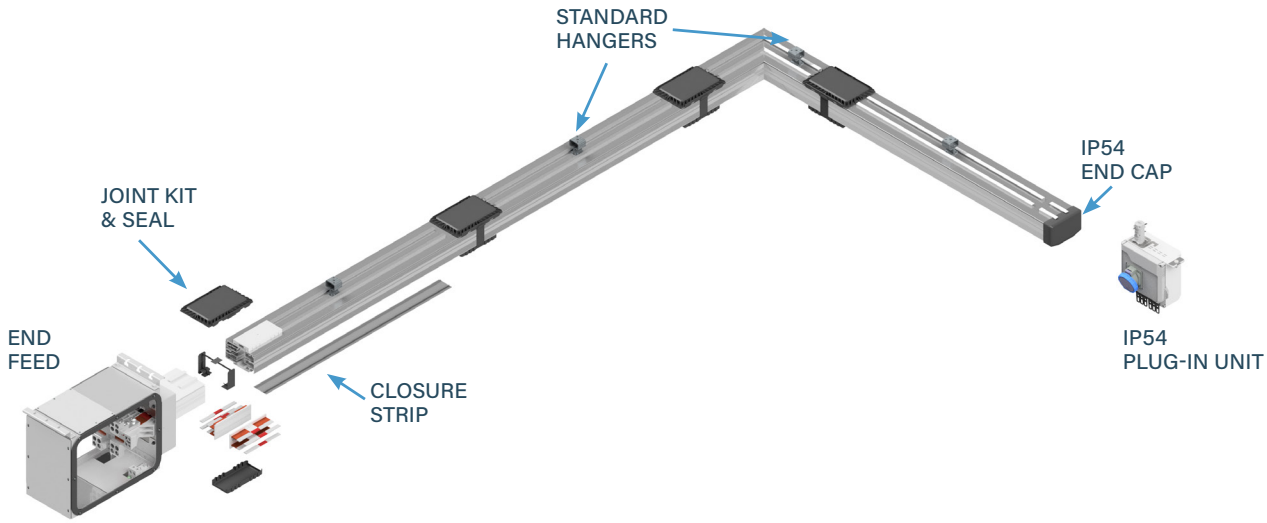


PLUG-IN UNITS

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

1000 AMP SYSTEMS

S5 SYSTEM LAYOUT DRAWING



PLUG-IN UNITS

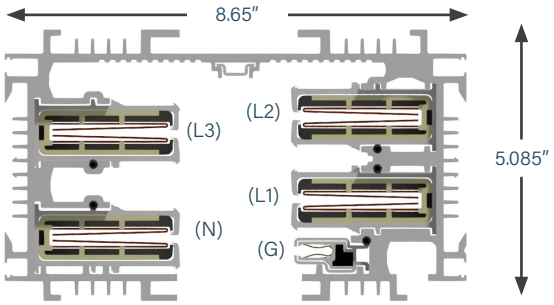
For further information on applicable S5 plug-in unit options, please visit the **Plug-In Units** section.

1000 AMP SYSTEMS

STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight section consists of an extruded aluminum shell with you 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 *Note: S5 housing includes corrosion resistant base coating*
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

1000 AMP SYSTEMS

STRAIGHT SECTIONS: PRODUCT NUMBERS

U	S	1K0	T5	H	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

–	STD	0
	10. Paint Color	11. Tape Marking

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

S Straight Section

3. Product Frame *(maximum amperage)*

1K0 1000 amps

4. Compatibility *(frame compatibility)*

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

5. Material *(busbar material)*

H Hybrid (Cu/Al)

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. Straight Length *(length of section)*

XXYY XX=feet, YY=inches

9. Busway Access *(how plugs access the busway)*

C Continuous

10. Paint Color *(allows painting of the busway housing)*

STD Factory Mill Finish
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

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

11. Tape Marking *(colored tape on both sides of busway housing)*

0 None

EXAMPLES

US1K0K5HGS-1000C-C010 = *US System, Straight Section, 1000 amps, T5 System, Hybrid, 3 Phase plus Neutral, Standard Polarization, 5 foot Straight Length, Factory Mill Finish, No Tape Marking*

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

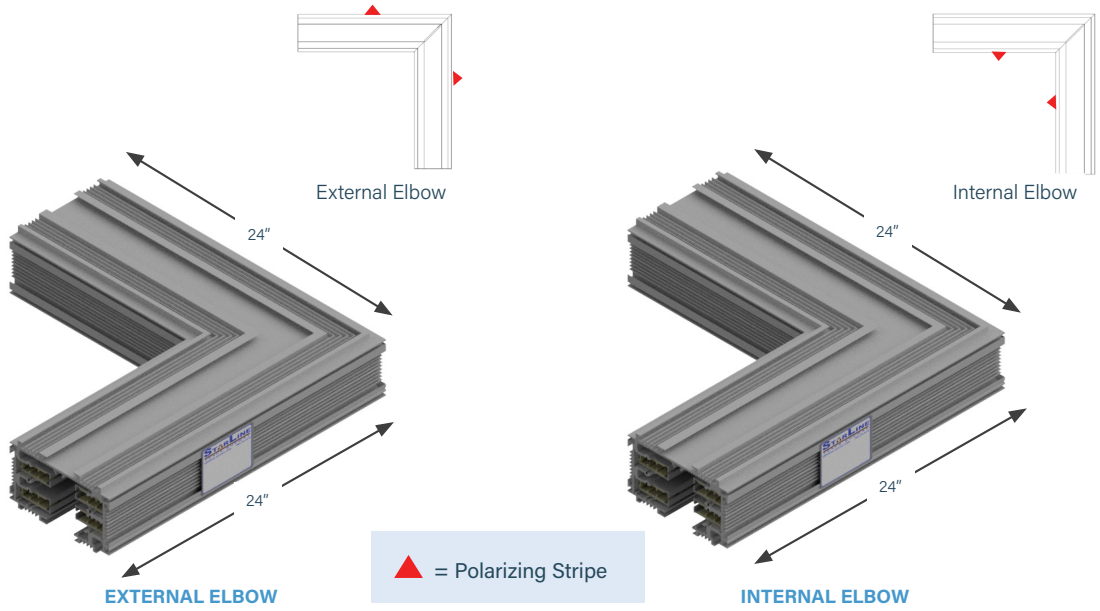
An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

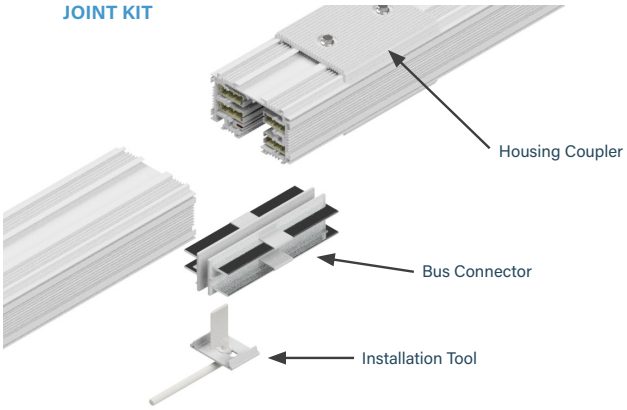
Connection Accessories

(Ordered Separately)

A Joint Kit (**page 4.110**) is used to make mechanical and electrical connections to adjacent busway sections.

Weight 77 lbs





1000 AMP SYSTEMS

ELBOW SECTIONS: PRODUCT NUMBERS

U	E	1K0	T5	H	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

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

E Elbow Section

3. Product Frame *(maximum amperage)*

1K0 1000 amps

4. Compatibility *(frame compatibility)*

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

5. Material *(busbar material)*

H Hybrid (Cu/Al)

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)*

IN Internal
EX External

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

STD Factory Mill Finish
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

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 None

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*

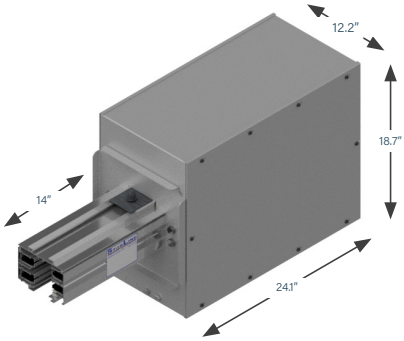
1000 AMP SYSTEMS

END FEED UNITS

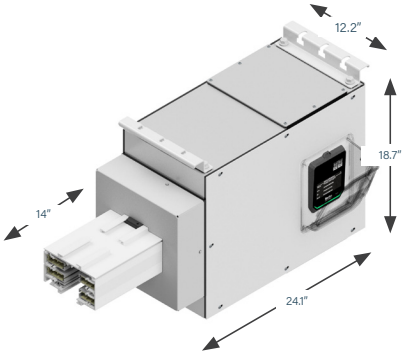
PRODUCT DESCRIPTION

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.

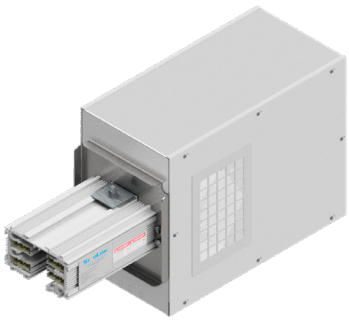
Weight 100.5 lbs (76 lbs without busway stub)



STANDARD BOX



1000S5 END FEED WITH CPM



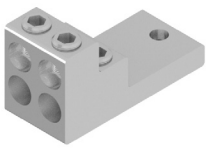
STANDARD BOX
(with Rectangular IR Window)

	BOXES		
LUGS	Standard	Large	Fused
Standard	**S**		
Double			
Bolt*	**B**		

Box size and Lug options: Refer to option 8. Lug/Box Options on **page 4.93**
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



STANDARD "S"

STANDARD "B"

1000 AMP SYSTEMS

END FEED UNITS: METERING

PRODUCT DESCRIPTION

End feed units can be populated with Starline's Critical Power Monitor to provide access to revenue-grade, three-phase power data. The M70 CPM is built with a 4.3-inch LCD touchscreen display that can be angled down for easier viewing from the floor.

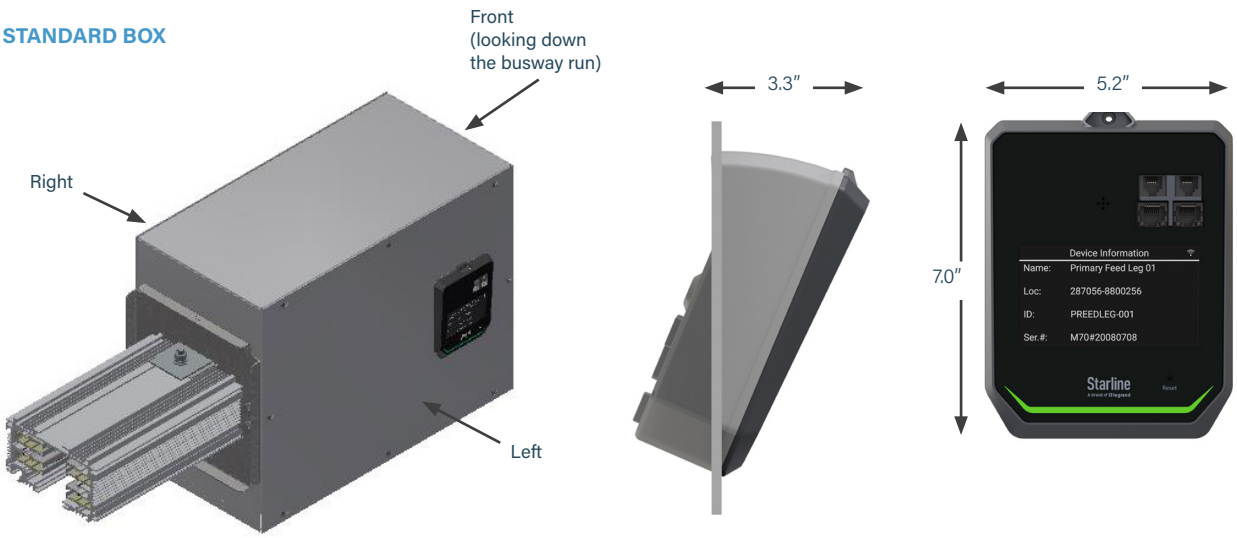
Wired ethernet and serial communications are standard with (2) RJ11 and (2) RJ45 jacks built in for easy daisy chaining. Optional 802.11n Wi-Fi connectivity is also available. Both serial Modbus and Ethernet-based protocols can be used simultaneously. These include: SNMP (v1, v2 & v3), Modbus RTU and TCP/IP, BACnet, HTTPS, and SSH.

Firmware communication options (IPV4, IPV6, DHCP, WPA2) are pre-packaged into the meter build. While these options are selected and then enabled during factory assembly, they can be re-configured at any time in the field. The M70 CPM is compatible with all major DCIM and BMS packages.

The M70 CPM can also be complemented with end feed accessories, such as real-time lug temperature monitoring, IR window scanning and audible alarms. Unlike firmware options, these hardware features are not field changeable.

The M70 is available in 110-500vac, 48vdc and 380vdc versions.

STANDARD BOX



*The above arrows show how to determine your meter location on an end feed *(Refer to option 9. Meter Location on* **page 4.93** *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.

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.

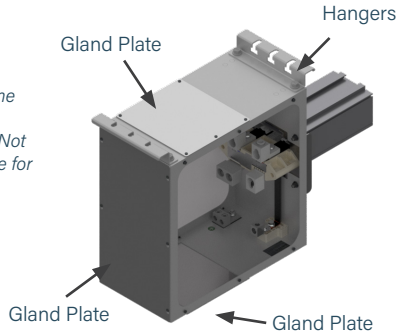
Note: Rectangular IR window option not available for Series-S systems. See S5 end feed accessories package for more information.

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 hangars 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. M70 Options on **page 4.94** End Feed Units: Product Numbers)*
*(Refer to option 10. Accessories Package on **page 4.93** End Feed Units: Product Numbers)*

1000 AMP SYSTEMS

END FEED UNITS: PRODUCT NUMBERS

U	F	1K0	T5	H	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

–	0102	C	–	STD	0	–	M73	00	1	*Optional
	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)*

1K0 1000 amps

4. Compatibility *(frame compatibility)*

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

5. Material *(busbar material)*

H Hybrid (Cu/Al)Strip)

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
R Reversed

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

S Standard lugs, Standard box
B Bolt lugs, Standard box

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

R Right
N None (N/A)
L Left

10. Accessories Package *(optional accessories for feed units)*

T5 Options:
S Standard
C IR Window - Circular
F End Feed Hanger & Gland Plates
U Starline Rect. IR window, 8″x12″
B (C+F)
P (U+F)

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)
L Left
R Right
F Front (consult the factory)

12. Straight Length *(length of section)*

0102 14 inches *(For other lengths, consult the factory)*

13. Busway Access

C Continuous

14. Paint Color *(allows painting of the busway housing)*

STD Factory Mill Finish
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

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 None

EXAMPLE

UF1K0T5H4R-SRLL-0102C-BLK0 = *US System, End Feed, 1000 amps, T5 System, Hybrid, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, Right Meter Location, Circular IR Window + Angled Meter Lid, Left Accessory Location, 1 foot 2 inch Straight Length, Painted Factory Black, No Tape Marking*

1000 AMP SYSTEMS

END FEED METERING: PRODUCT NUMBERS

U	F	1K0	T5	H	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

–	0102	C	–	STD	0	–	M73	00	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type	

*16. Meter Release *(M70 AC)*

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*16. Meter Release *(M70 DC)*

M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*17. Meter Options *(M70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*18. System Configuration and CT Type *(M70 AC)*

2 Δ, Solid CTs, 5A-secondary, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
6 Y, Solid CTs, 5A-secondary, No Measured Neutral

8 Y, Split CTs, 5A-secondary, No Measured Neutral
A Y, Solid CTs, 5A-secondary, Measured Neutral
C Y, Split CTs, 5A-secondary, Measured Neutral

M73
(2) RJ11, (2) RJ45, Lg. Display

M76
Wi-Fi + (2) RJ11, (2) RJ45, Lg. Display

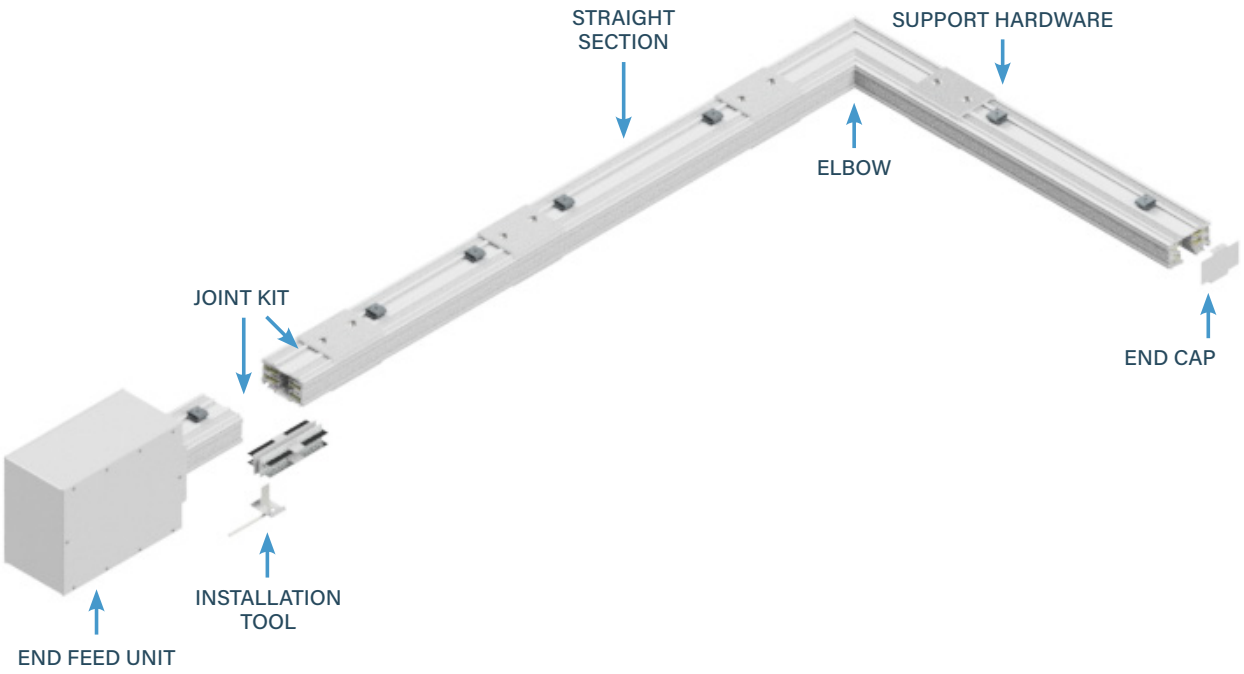
Note: Series - S end feeds not currently equipped with power monitoring. Consult factory for details.

EXAMPLE

UF1K0T5H4R-SRLL-0102C-BLK0-M73001= *US System, End Feed, 1000 amps, T5 System, Hybrid, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, Right Meter Location, Circular IR Window + Angled Meter Lid, Left Accessory Location, 1 foot 2 inch Straight Length, Painted Factory Black, No Tape Marking, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral*

1200 AMP SYSTEMS

T5 SYSTEM LAYOUT DRAWING

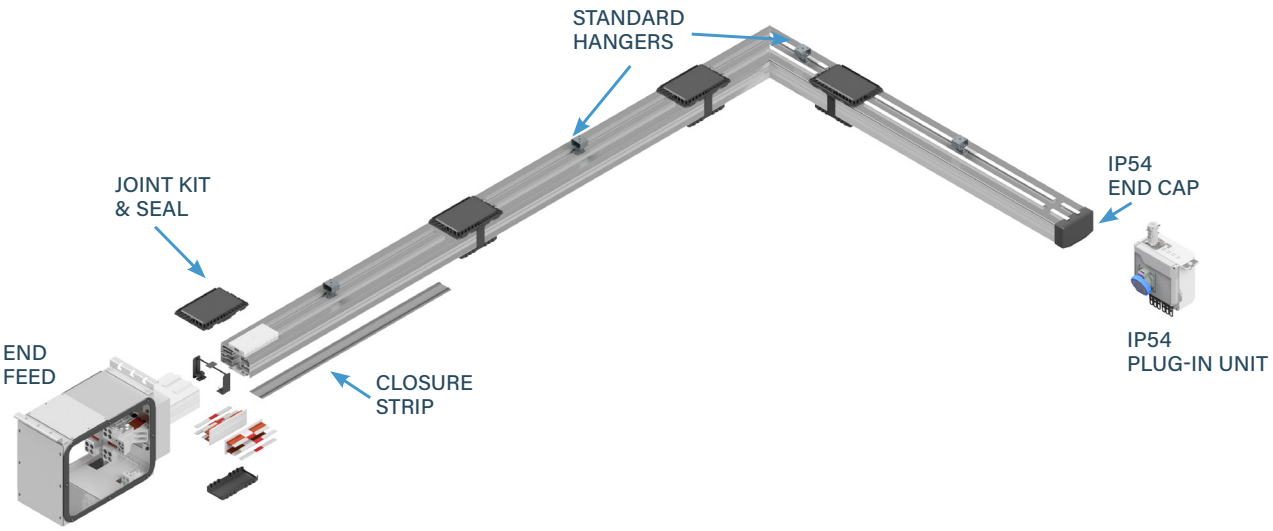


PLUG-IN UNITS

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

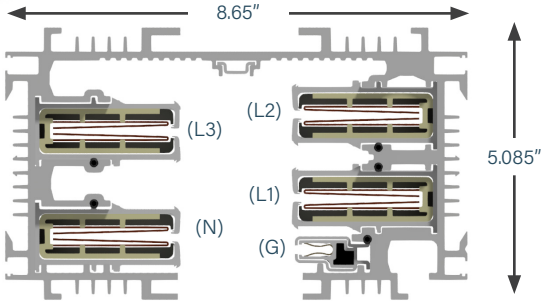
For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.

1200 AMP SYSTEMS

STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight section consists of an extruded aluminum shell with you 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

STRAIGHT SECTIONS: PRODUCT NUMBERS

U	S	1K2	T5	H	4	S	–	0200	C	–	STD	0
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

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

S Straight Section

3. Product Frame *(maximum amperage)*

1K2 1200 amps

4. Compatibility *(frame compatibility)*

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

5. Material *(busbar material)*

H Hybrid (Cu/Al)

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. Straight Length *(length of section)*

XXYY XX=feet, YY=inches

9. Busway Access *(how plugs access the busway)*

C Continuous

10. Paint Color *(allows painting of the busway housing)*

STD Factory Mill Finish
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

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

11. Tape Marking *(colored tape on both sides of busway housing)*

0 None

EXAMPLES

US1K2T5H4S-0500C-STD0 = *US System, Straight Section, 1200 amps, T5 System, Hybrid, 3 Phase plus Neutral, Standard Polarization, 5 foot Straight Length, Painted Factory Silver, No Tape Marking*

US1K2K5HGS-0206C-P010 = *US System, Straight Section, 1200 amps, T5 System-K5 Limiting Strip, Hybrid, 3 Phase plus Neutral plus Internal Ground Connector, Standard Polarization, 2 foot 6 inch Straight Length, Painted RAL 1001, No Tape Marking*

1200 AMP SYSTEMS

ELBOW SECTIONS

PRODUCT DESCRIPTION

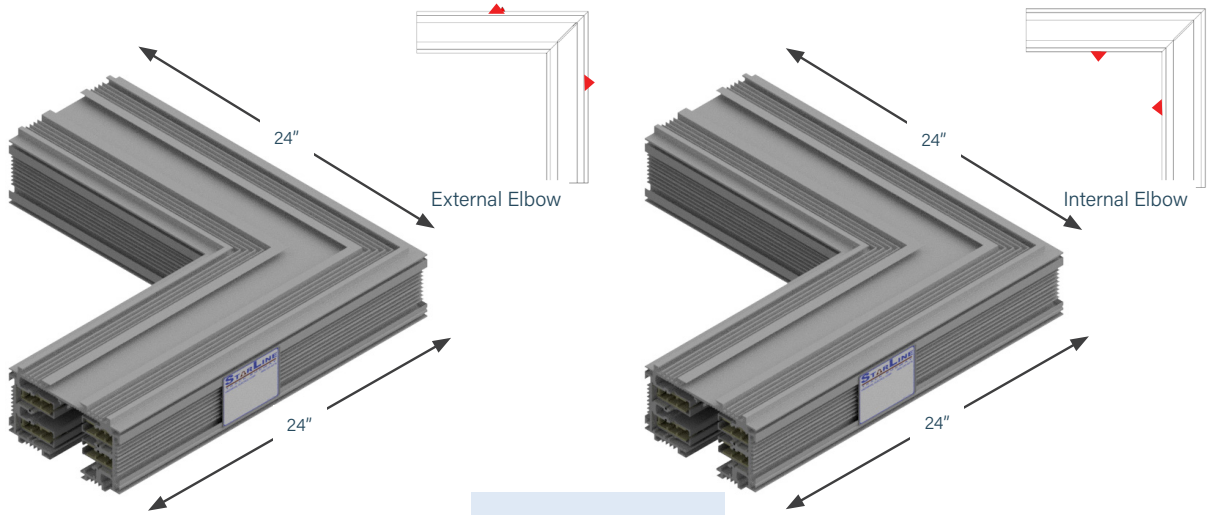
An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

Connection Accessories

(Ordered Separately)

A Joint Kit (**page 4.110**) is used to make mechanical and electrical connections to adjacent busway sections.

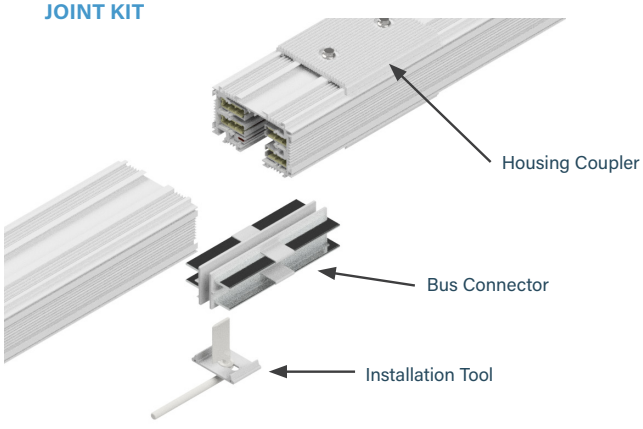
Weight 77 lbs



EXTERNAL ELBOW

INTERNAL ELBOW

JOINT KIT



1200 AMP SYSTEMS

ELBOW SECTIONS: PRODUCT NUMBERS

U	E	1K2	T5	H	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

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

E Elbow Section

3. Product Frame *(maximum amperage)*

1K2 1200 amps

4. Compatibility *(frame compatibility)*

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

5. Material *(busbar material)*

H Hybrid (Cu/Al)

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)*

IN Internal
EX External

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

STD Factory Mill Finish
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

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 None

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*

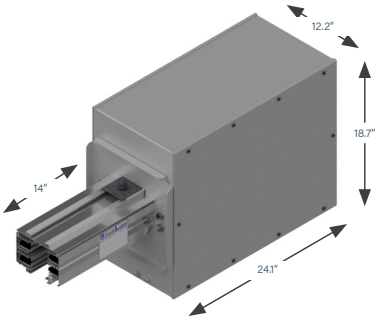
1200 AMP SYSTEMS

END FEED UNITS

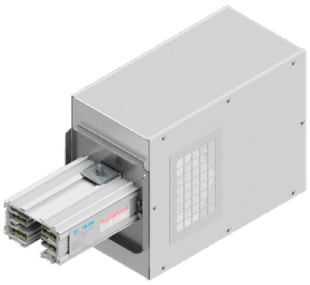
PRODUCT DESCRIPTION

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.

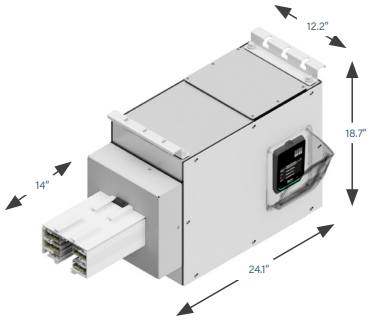
Weight 100.5 lbs (76 lbs without busway stub)



STANDARD BOX



STANDARD BOX
(with Rectangular IR Window)



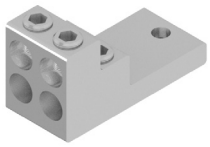
1200S5 END FEED WITH CPM

	BOXES		
LUGS	Standard	Large	Fused
Standard	**S**		
Double			
Bolt	**B**		

Box size and Lug options: Refer to option 8. Lug/Box Options on **page 4.104**
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



STANDARD "S"

STANDARD "B"

1200 AMP SYSTEMS

END FEED UNITS: METERING

PRODUCT DESCRIPTION

End feed units can be populated with Starline's Critical Power Monitor to provide access to revenue-grade, three-phase power data. The M70 CPM is built with a 4.3-inch LCD touchscreen display that can be angled down for easier viewing from the floor.

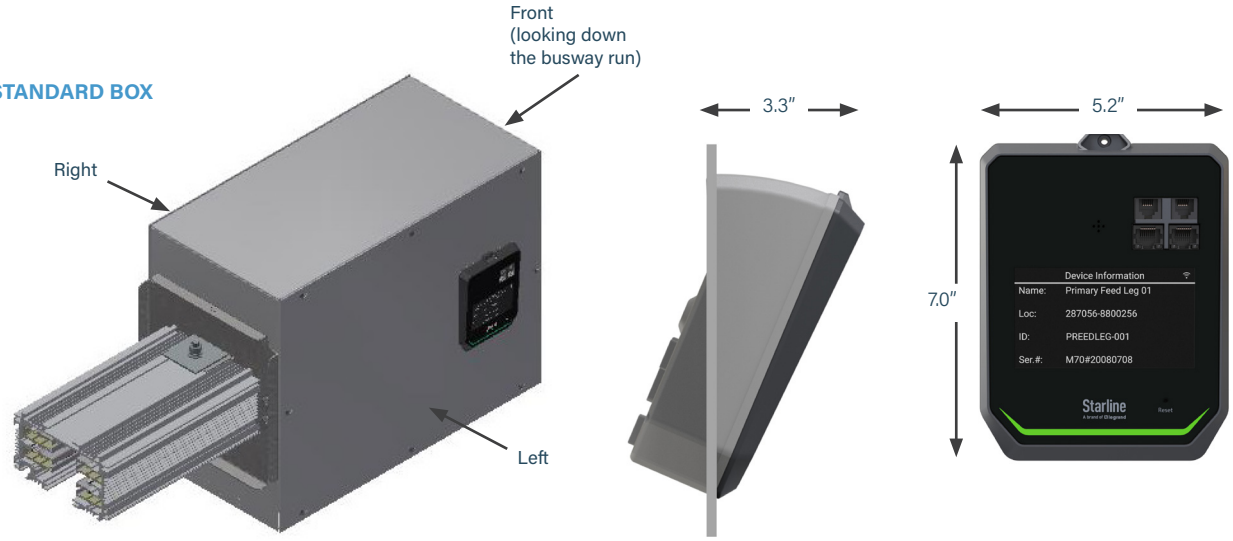
Wired ethernet and serial communications are standard with (2) RJ11 and (2) RJ45 jacks built in for easy daisy chaining. Optional 802.11n Wi-Fi connectivity is also available. Both serial Modbus and Ethernet-based protocols can be used simultaneously. These include: SNMP (v1, v2 & v3), Modbus RTU and TCP/IP, BACnet, HTTPS, and SSH.

Firmware communication options (IPV4, IPV6, DHCP, WPA2) are pre-packaged into the meter build. While these options are selected and then enabled during factory assembly, they can be re-configured at any time in the field. The M70 CPM is compatible with all major DCIM and BMS packages.

The M70 CPM can also be complemented with end feed accessories, such as real-time lug temperature monitoring, IR window scanning and audible alarms. Unlike firmware options, these hardware features are not field changeable.

The M70 is available in 110-500vac, 48vdc and 380vdc versions.

STANDARD BOX



*The above arrows show how to determine your meter location on an end feed *(Refer to option 9. Meter Location on* **page 4.104** *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.

1200 AMP SYSTEMS

END FEED UNITS: ACCESSORIES

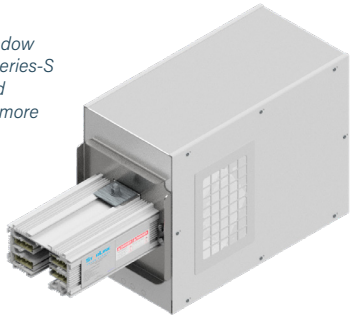
IR WINDOWS

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.

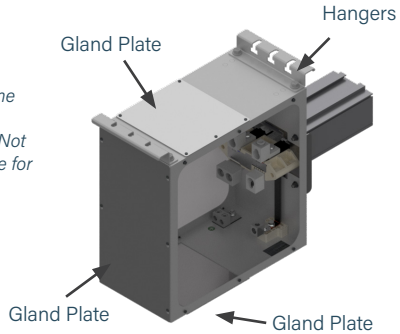


END FEED HANGERS & GLAND PLATES

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 hangars 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. M70 Options on **page 4.105** End Feed Units: Product Numbers)*
*(Refer to option 10. Accessories Package on **page 4.104** End Feed Units: Product Numbers)*

1200 AMP SYSTEMS

END FEED UNITS: PRODUCT NUMBERS

U	F	1K2	T5	H	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

–	0102	C	–	STD	0	–	M73	00	1	*Optional
	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)*

1K2 1200 amps

4. Compatibility *(frame compatibility)*

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

5. Material *(busbar material)*

H Hybrid (Cu/Al)

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
R Reversed

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

S Standard lugs, Standard box
B Bolt lugs, Standard box

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

R Right
N None (N/A)
L Left

10. Accessories Package *(optional accessories for feed units)*

T5 Options:
S Standard
C IR Window - Circular
F End Feed Hanger & Gland Plates
U Starline Rect. IR window, 8″x12″
B (C+F)
P (U+F)

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)
L Left
R Right
F Front (consult the factory)

12. Straight Length *(length of section)*

0102 14 inches *(For other lengths, consult the factory)*

13. Busway Access

C Continuous

14. Paint Color *(allows painting of the busway housing)*

STD Factory Mill Finish
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

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 None

EXAMPLE

UF1K2T5H4R-SRLL-0102C-BLK0 = *US System, End Feed, 1200 amps, T5 System, Hybrid, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, Right Meter Location, Circular IR Window + Angled Meter Lid, Left Accessory Location, 1 foot 2 inch Straight Length, Painted Factory Black, No Tape Marking*

1200 AMP SYSTEMS

END FEED METERING: PRODUCT NUMBERS

U	F	1K2	T5	H	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

–	0102	C	–	STD	0	–	M73	00	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type	

*16. Meter Release *(M70 AC)*

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*16. Meter Release *(M70 DC)*

M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*17. Meter Options *(M70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*18. System Configuration and CT Type *(M70 AC)*

2 Δ, Solid CTs, 5A-secondary, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
6 Y, Solid CTs, 5A-secondary, No Measured Neutral

8 Y, Split CTs, 5A-secondary, No Measured Neutral
A Y, Solid CTs, 5A-secondary, Measured Neutral
C Y, Split CTs, 5A-secondary, Measured Neutral

M73
(2) RJ11, (2) RJ45, Lg. Display

M76
Wi-Fi + (2) RJ11, (2) RJ45, Lg. Display

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

EXAMPLE

UF1K2T5H4R-SRLL-0102C-BLK0-M73001 = *US System, End Feed, 1200 amps, T5 System, Hybrid, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, Right Meter Location, Circular IR Window + Angled Meter Lid, Left Accessory Location, 1 foot 2 inch Straight Length, Painted Factory Black, No Tape Marking, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral*

T5 SERIES

RAL COLORS

1ST CHARACTER	
P	Paint

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

3RD CHARACTER	
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

4TH CHARACTER	
0	0

EXAMPLE:

P B 2 0 = Paint RAL 3012

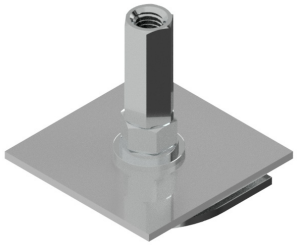
T5 AND S5 SERIES BUSWAY

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

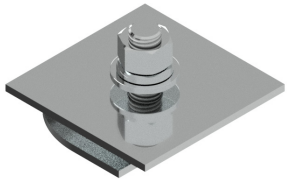
For mounting to 1/2 - 13 UNC threaded rod. Can be inserted anywhere along the top full-access slot of busway. Hangers are required every 10 feet maximum for seismic support.

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 everything 3 meters maximum.
Note: *All S3 Systems must be mounted in the standard vertical orientation*

Part Number
WMBT5-9

T5 AND S5 SERIES BUSWAY

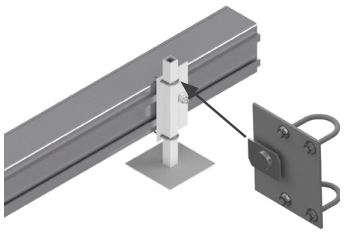
ACCESSORIES: SUPPORT HARDWARE

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

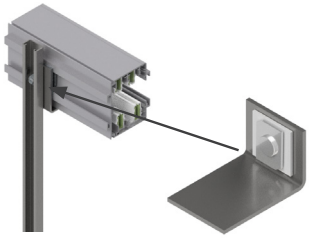


SIDE MOUNT BRACKETS

Mounted to vertical supports.

Note: *Not available for S5 Systems*

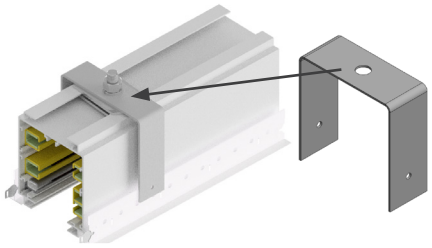
Part Number (250, 400, 600 & 800 amp systems only):
UBSST5-1
Available in plain zinc or black (-BLK)
Weight
.2 lb



RECESSED SUSPENDED CEILINGS

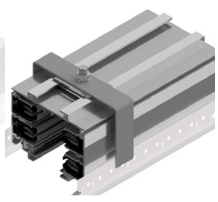
For hanging busway into a recessed ceiling.

**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

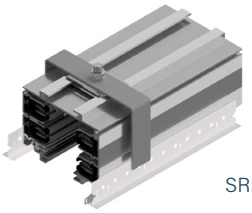
(for 600 amp systems):
SRM600T5-1

(for 800 amp systems):
SRM800T5-1

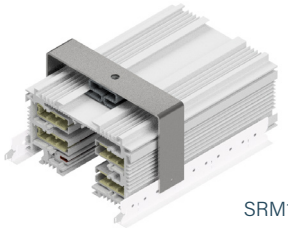
(for 1000 amp systems):
SRM1K0T5-1

(for 1200 amp systems):
SRM1K2T5-1

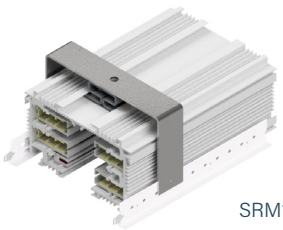
Available in plain zinc or black (-BLK)



SRM800T5-1



SRM1K0T5-1



SRM1K2T5-1

T5 AND S5 SERIES BUSWAY

ACCESSORIES: SUPPORT HARDWARE

PRODUCT DESCRIPTION

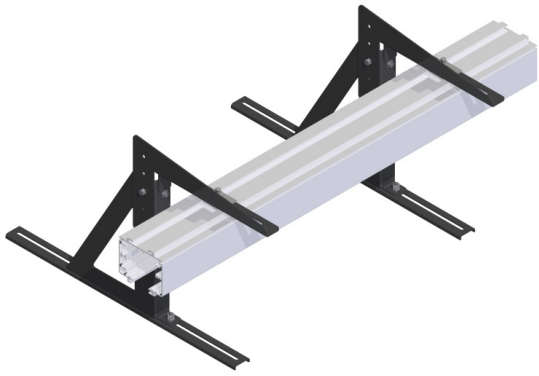
UNIVERSAL SERVER CABINET MOUNTING BRACKETS

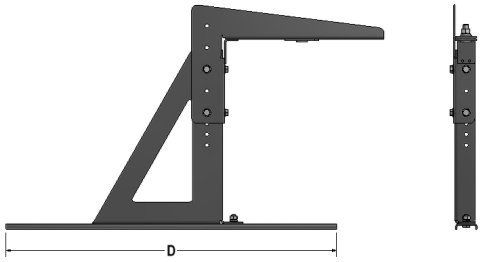
The Universal Server Cabinet Mounting Brackets are designed with generous 3/8 inch wide through slots to mount directly onto virtually any server cabinet. Special versions for Legrand Nexpand cabinets are also available.

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 – UBHT5-2





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	**6**	Red
3	Black	**7**	Blue
4	White		

**consult factory for custom colors*

Universal Part Number
U.S: UUSCMB-(X)-(D)-(C)

Legrand Nexpand 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	SJK400T5-1	SJK400S5-1
	3 Phase plus Neutral plus Internal Ground Conductor	SJK400T5G-1	SJK400S5G-1
	3 Phase plus 200% Neutral	SJK400T5N-1	SJK400S5N-1
	3 Phase plus 200% Neutral plus Internal Ground Conductor	SJK400T5F-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

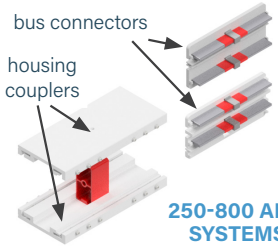
For the connection of adjacent busway sections. One kit is required at each joint. Each kit is comprised of a housing coupler pair and bus connector set.

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

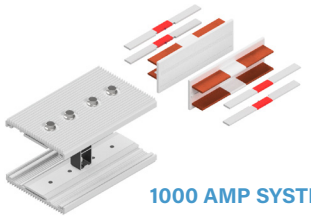
Housing Couplers: consists of two 12-screw couplers-one for the top and one for the bottom. These make the mechanical connection between busway sections.

**Installation tool is required (see below)*

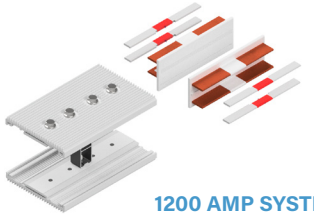
***Available in all standard and RAL colors*



250-800 AMP SYSTEMS



1000 AMP SYSTEM



1200 AMP SYSTEM

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

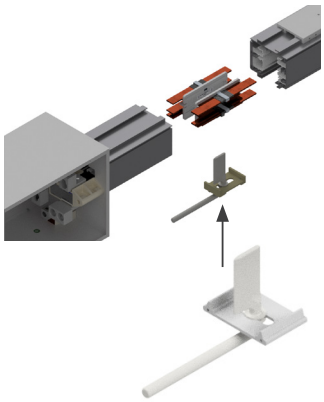
ACCESSORIES: CONNECTION HARDWARE

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.

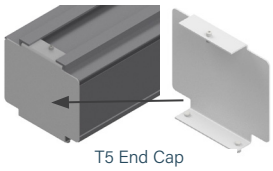
Part Number
ST5IT
No available colors
Weight
3.1 lb



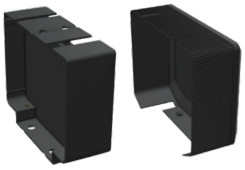
END CAP

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 End Cap



S5 End Cap and Cover

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 lenghts and can be field cut to fit exact desired length.

Closure Strip is offered in both non-conductive plastic material and aluminum. Consult factory for custom colors.

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

**Standard colors are available in Gray (GY), Black (BK), Red (RED) and Blue (BLU). The color code is applied to the end of the part number. For example: SCST5-1-AL-RED*

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

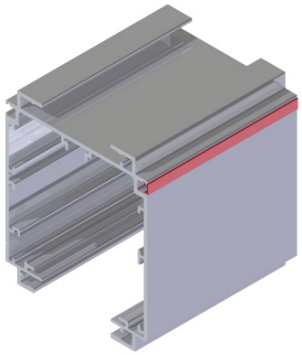
DATA CHANNEL COVER

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)



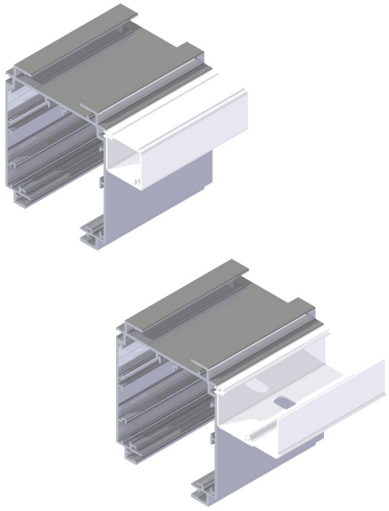
HINGED WIRE WAY

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

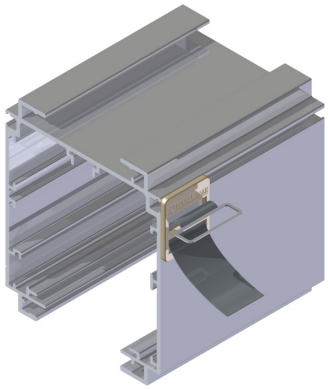
ADD-ON ACCESSORIES: DATA CHANNEL

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



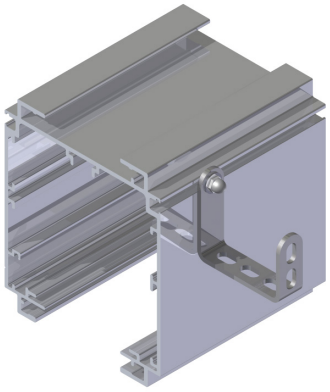
MULTI USE MOUNTING BRACKET

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**.

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.**

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.**

T5 PLUG-IN UNITS

T5 PLUG-IN UNITS

METER PLUG UNITS

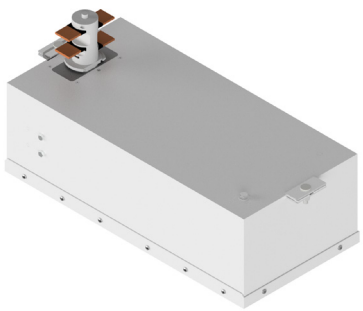
Any T5 compatible Starline Plug-In Unit that contains only a meter.

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

U	M	T5	C	52	S	–	065	–	V71	00	–	STD	*Optional
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Current Transformer		8. Meter Release	9. Meter Options		10. Paint Color	

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

M Meter Plug

3. Compatibility *(frame compatibility)*

T5 T5 System
R5 T5 System (Rotating Paddle)
K5 T5 System (Limiting Strip)
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 4.127**)
**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

8. Meter Release *(V70 AC)*

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

8. Meter Release *(V70 DC)*

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

9. Meter Options *(V70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard (IPV4 + No Accessories)
40 AC Supply Voltage Only – Breaker Sense (On/Off)

4A Breaker Sense + IPV6
4B Breaker Sense + DHCP
4C Breaker Sense + WPA2E
4E Breaker Sense + IPV6 + DHCP
4F Breaker Sense + IPV6 + WPA2E
4J Breaker Sense + DHCP + WPA2E
4H Breaker Sense + IPV6 + WPA2E + DHCP

10. Paint Color

STD Paint Factory Silver
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

EXAMPLE

UMT5C52S-065-V7100-STD = *US System, Meter Plug, T5 System, Case Ground, 52 Box, Standard Orientation, 65 Current Rating, V71 Meter, No display, 480vac, Standard Meter Options, Painted Factory Silver*

T5 PLUG-IN UNITS

METER BOXES: PRODUCT NUMBERS

U	B	NA	C	52	S	–	065
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Current Transformer

–	V71	00	1	–	STD	*Optional
	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 4.127**)
**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

8. Meter Release *(V70 AC)*

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

8. Meter Release *(V70 DC)*

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

9. Meter Options *(V70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard (IPV4 + No Accessories)
40 AC Supply Voltage Only – Breaker Sense (On/Off)

4A Breaker Sense + IPV6
4B Breaker Sense + DHCP
4C Breaker Sense + WPA2E
4E Breaker Sense + IPV6 + DHCP
4F Breaker Sense + IPV6 + WPA2E
4J Breaker Sense + DHCP + WPA2E
4H Breaker Sense + IPV6 + WPA2E + DHCP

*10. Meter Configuration *(M70 AC)*

1 Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral

8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Δ, Solid CTs, Millivolt, Measured Neutral
C Δ, Split CTs, 5A-secondary, Measured Neutral

*10. Meter Configuration *(M70 DC)*

J DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT

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 4.106)*

EXAMPLE

UBNAC52S-065-V71001-STD = *US System, Meter Box, Not Applicable, Case Ground, 52 Box, Standard Orientation, 65 Current Rating, V71 Meter, No display, 480vac, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral, Painted Factory Silver*

T5 PLUG-IN UNITS

TERMINAL BLOCK UNITS: PRODUCT NUMBERS

U	T	T5	C	52	S	–	030	–	4
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Amperage		8. Poles

–	S	N	N	–	V71	00	–	STD	*Optional
	9. Lug Options	10. Meter Location	11. Accessories		*12. Meter Release	*13. Meter Options		14. Paint Color	

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

T Terminal Block

3. Compatibility *(frame compatibility)*

T5 T5 System
R5 T5 System (Rotating Paddle)
K5 T5 System (Limiting Strip)
Z5 K5 + R5

4. Ground *(ground type installed)*

C Case (Housing) Ground
G Isolated (Separate) Ground
D Dedicated Ground

5. Box *(what size enclosure)*

01, 02, ... 99 (refer to enclosure reference **page 4.127**)

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

S Standard
R Reversed

7. Amperage *(amperage of terminal block)*

030 30 amps
060 60 amps
100 100 amps
225 225 amps
250 250 amps
400 400 amps
600 600 amps

8. Poles *(number of poles in a circuit)*

4 4 poles

9. Lug Options *(number of poles in a circuit)*

S Standard
D Double Lug
N Double Neutral
2 2 Bolt Lug
B Double Neutral & 2 Bolt Lug

10. Meter Location *(location of optional meter)*

N N/A
L Left
R Right
B Bottom (lid)

11. Accessories *(optional accessories for plugs)*

N N/A
R IR Window
F Finger Shroud
B IR Window & Finger Shroud

***12. Meter Release** *(M70 AC)*

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi
(continued)

***12. Meter Release** *(M70 DC)*

M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

***13. Meter Options** *(M70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

14. Paint Color

STD Paint Factory Silver
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

T5 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: PRODUCT NUMBERS

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	–	V71	00	–	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	

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
R5 T5 System (Rotating Paddle)
K5 T5 System (Limiting Strip)
Z5 K5 + R5

4. Ground *(ground type installed)*

C Case (Housing) Ground
G Isolated (Separate) Ground
D Dedicated Ground

5. Box *(what size enclosure)*

01, 02, ... 99 (refer to enclosure reference **page 4.127**)

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 U.S.)

8. Device Quantity *(quantity of device 1)*

1, 2, 3, 4, 5, 6, 7, 8, 9

9. Device *(quantity of device 1)*

AA, AB, ...ZZ (refer to device codes **page 4.141**)

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

F Front
T Top
L Left
A Back
B Bottom
R Right

(Not every mount location will be available for every box)

*11. Drop Cord Length *(location of optional meter)*

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)

12. Accessories *(optional accessories for plugs)*

N N/A
C Circuit Breaker Interlock
S Seismic Hanger
F Finger Shroud
P Padlock Adapter for Circuit Breaker
R IR Window

*13. Meter Release *(V70 AC)*

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

*13. Meter Release *(V70 DC)*

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

*14. Meter Options *(V70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard (IPV4 + No Accessories)
40 AC Supply Voltage Only – Breaker Sense (On/Off)

4A Breaker Sense + IPV6
4B Breaker Sense + DHCP
4C Breaker Sense + WPA2E
4E Breaker Sense + IPV6 + DHCP
4F Breaker Sense + IPV6 + WPA2E
4J Breaker Sense + DHCP + WPA2E
4H Breaker Sense + IPV6 + WPA2E + DHCP

15. Paint Color

STD Paint Factory Silver
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

16. Drop Cord Tape Marking

3 Tape Factory Black
4 Tape Factory White
6 Tape Factory Red
7 Tape Factory Blue
8 Tape Factory Green
9 Tape Factory Yellow

T5 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: COMPATIBILITY

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

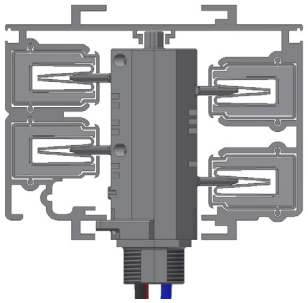
AA	F	010	N	–	V71	00	–	STD	0	*Optional
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories		*13. Meter Release	*14. Meter Options		15. Paint Color	*16. Drop Cord Tape Marking	

3. Compatibility *(frame compatibility)*

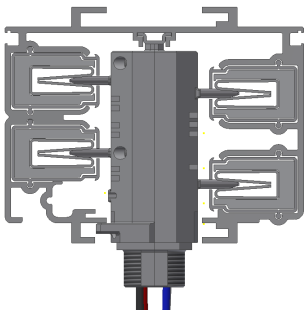
T5	T5 System	**K5**	T5 System (Limiting Strip)
R5	T5 Rotating Paddle	**Z5**	K5 + R5

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 which is required for compatibility with the Remote Plug-in Actuator.

T5



K5



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	–	V71	00	–	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	

4. Ground *(ground type installed)*

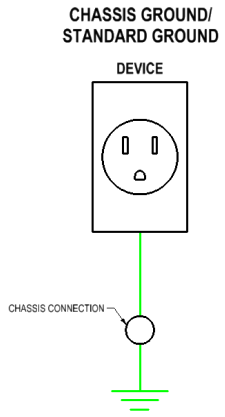
C Case (Housing) Ground
D Dedicated Ground
G Isolated (Separate) Ground

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).

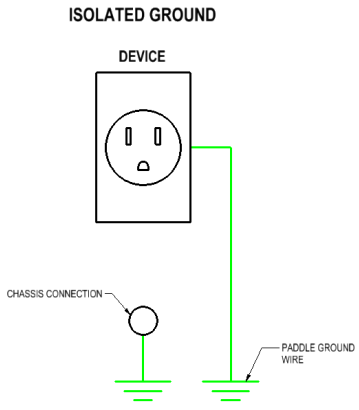
CASE GROUND/CHASSIS EARTH

Uses aluminum housing and no extra copper bar.



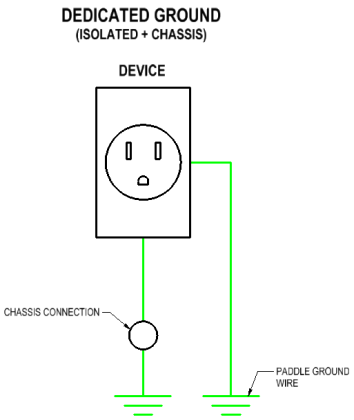
ISOLATED GROUND/EARTH

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**

T5 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: BOX

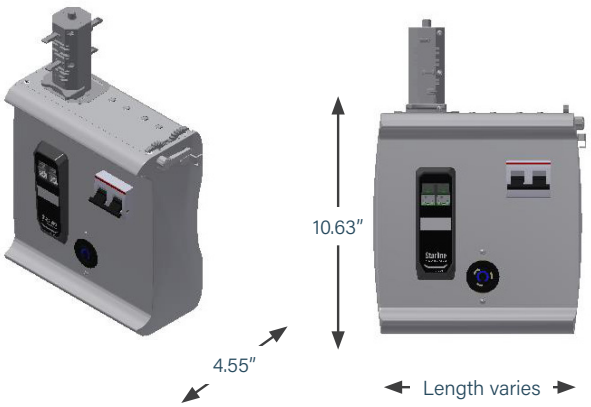
U	C	T5	C	52	S	–	14	–	1
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Interrupt Rating		8. Device Quantity

AA	F	010	N	–	V71	00	–	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	

5. Box *(what size enclosure)*
01, 02, ... 99 (refer to enclosure reference **page 4.136**)

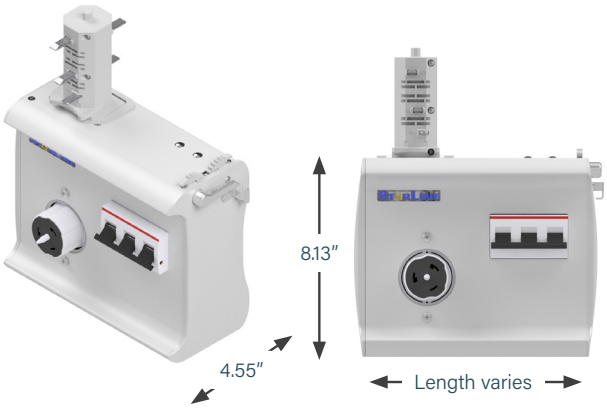
IN OPTION 5. you are asked to specify what style enclosure you would like. Size is typically a result of the options and features that you choose. A few common enclosure sizes for T5 busway systems are shown below:

50 SERIES



BOX LENGTHS	
51:	6.00″
52:	8.00″
53:	10.00″
54:	12.00″
55:	13.00″
56:	15.00″
57:	18.00″

90 SERIES



BOX LENGTHS	
91:	6.00″
92:	8.00″
93:	10.00″
94:	12.00″
95:	13.00″
96:	15.00″
97:	18.00″

*For all box sizes and styles, please refer to page **4.136**

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	–	V71	00	–	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	–	V71	00	–	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 4.141**)

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 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.

*For the full list of all device codes, please refer to **page 4.141**

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	–	V71	00	–	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	

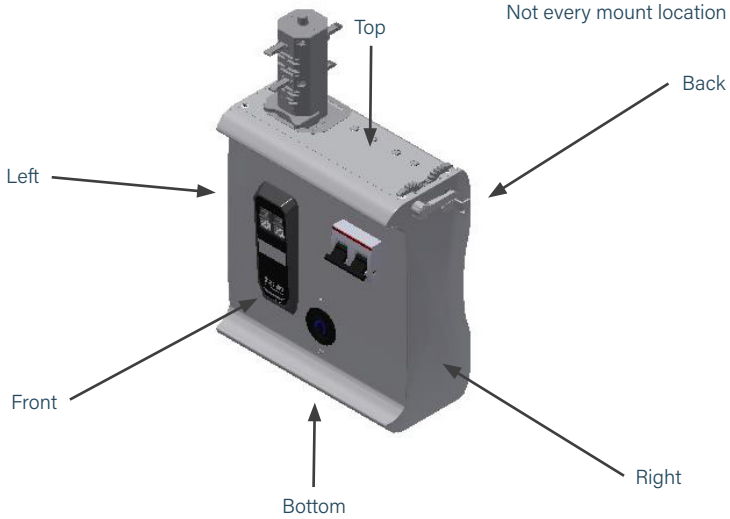
***10. Mount Location** *(with respect to busway polarizing stripe)*

F	Front	**A**	Back
T	Top	**B**	Bottom
L	Left	**R**	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

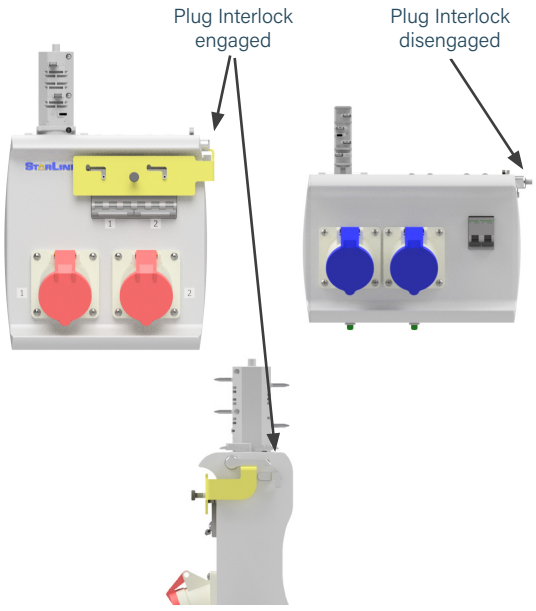
AA	F	010	N	–	V71	00	–	STD	0	*Optional
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories		*13. Meter Release	*14. Meter Options		15. Paint Color	*16. Drop Cord Tape Marking	

12. Accessories *(optional accessories for plugs)*

N	N/A
C	Circuit Breaker Interlock
S	Seismic Hanger
L	Pilot Light
T	NETA Injection Tested Breakers
F	Finger Shroud
P	Padlock Adapter for Circuit Breaker
R	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 accidentail 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: 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	–	V71	00	–	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** *(V70 AC)*

V71	(2) RJ11, (2) RJ45, No Display, 480vac
V72	(2) RJ11, (2) RJ45, Display, 480vac
V74	Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75	Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

***13. Meter Release** *(V70 DC)*

V7A	(2) RJ11, (2) RJ45, No Display, 48vdc
V7B	(2) RJ11, (2) RJ45, Display, 48vdc
V7D	Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E	Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H	(2) RJ11, (2) RJ45, No Display, 400vdc
V7I	(2) RJ11, (2) RJ45, Display, 400vdc
V7K	Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L	Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

***14. Meter Options** *(V70 AC and DC)*

0A	IPV6
0B	DHCP
0C	WPA2E
0E	IPV6 + DHCP
0F	IPV6 + WPA2E
0J	DHCP + WPA2E
0H	IPV6 + WPA2E + DHCP
00	Standard (IPV4 + No Accessories)
40	AC Supply Voltage Only – Breaker Sense (On/Off)
4A	Breaker Sense + IPV6
4B	Breaker Sense + DHCP
4C	Breaker Sense + WPA2E
4E	Breaker Sense + IPV6 + DHCP
4F	Breaker Sense + IPV6 + WPA2E
4J	Breaker Sense + DHCP + WPA2E
4H	Breaker Sense + IPV6 + WPA2E + DHCP

IN OPTION 13. V70 series meters are available for plug-in unit power monitoring.

Communications Interfaces include:
- (2) RJ11
- (2) RJ45 (Ethernet)
- Wireless (Optional)

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

Tap off units available with circuit breaker position sensing: on/off.

V71 *(2) RJ11, (2) RJ45, No Display*

V72 *(2) RJ11, (2) RJ45, Display*

V74 *Wi-Fi + (2) RJ11, (2) RJ45, No Display*

V75 *Wi-Fi + (2) RJ11, (2) RJ45, Display*

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	–	V71	00	–	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 Release	16. Meter Options		17. Paint Color	18. 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
R5 T5 System (Rotating Paddle)
K5 T5 System (Limiting Strip)
Z5 K5 + R5

4. Ground *(ground type installed)*

C Case (Housing) Ground
G Isolated (Separate) Ground
D Dedicated Ground

5. Box *(what size enclosure)*

01, 02, ... 99 (refer to enclosure reference **page 4.127**)

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** *(V70 AC)*

2, 3, 4, 5

14. Accessories *(optional accessories for plugs)*

N N/A
C Circuit Breaker Interlock
S Seismic Hanger
F Finger Shroud
P Padlock Adapter for Circuit Breaker
R IR Window

15. Meter Release *(V70 AC)*

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

15. Meter Release *(V70 DC)*

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

16. Meter Options *(V70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard (IPV4 + No Accessories)
40 AC Supply Voltage Only – Breaker Sense (On/Off)

4A Breaker Sense + IPV6
4B Breaker Sense + DHCP
4C Breaker Sense + WPA2E
4E Breaker Sense + IPV6 + DHCP
4F Breaker Sense + IPV6 + WPA2E
4J Breaker Sense + DHCP + WPA2E
4H Breaker Sense + IPV6 + WPA2E + DHCP

17. Paint Color

STD Paint Factory Silver
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

18. Drop Cord Tape Marking

3 Black
4 White
6 Red
7 Blue
8 Green

T5 PLUG-IN UNITS

CORDED METERS

U	CCPM	M	71	S	1	–	L515	C
1. System	2. Product Type	3. Monitoring Capabilities	4. Meter Release	5. Meter Variations	6. System Voltage		7. Wiring Device or Cord Set	8. Device Style

–	XXXX	–	C	–	BLK
	9. Length (end to end)		10. Meter Location on the Cord		11. Paint Color

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

CCPM Corded CPM

3. Monitoring Compatibilities

M Paddle/Feed Monitoring

4. Meter Release *(V70 AC)*

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

4. Meter Release *(V70 DC)*

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

5. Meter Variations

S Standard Unit
D Display

6. System Voltage

1 Line-Line
3 Line-Neutral

7. Wiring Device or Cord Set

Options listed on **page 4.135**

8. Device Style

C Connector Body
D Duplex
R Receptacle
Q Quad Receptacle

9. Length *(end to end)*

XXXX 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)

10. Meter Location on the Cord

C Center
B Bottom
T Top

11. Paint Color

STD Paint Factory Silver
BLK Paint Factory Black
WHT Paint Factory White
RED Paint Factory Red
BLU Paint Factory Blue
****RAL** *(please see page 4.106)*

Monitoring: The Corded CPM has a plug on one end and a connector body or receptacle on the other end; making it ideal for field power monitoring on-the-fly. It is capable of monitoring the energy of any device. The Corded CPM is also available without connectors. All V70 meter features, communication options and accessories are available except for measured neutral.

Box Size: There are two different Corded CPM box sizes. The smaller is designed for single phase (2 pole/3 wire, 1 pole+N/3W) wiring devices rated from 0-32A & 0-480V. The color is black unless specified. The larger enclosure is designed for all other configurations. These include single phase (2 pole/3 wire) rated at 32A-63A & 0-480V, three phase delta (3 pole/4 wire) rated at 0-63A & 0-480V and three phase wye (4 pole/5 wire) rated at 0-63A & 0-480V.

Meter Location: The meter can be placed in the center or offset from the top or bottom of the cord. Top or Bottom meters will always be 1'8" from the end of the connector.

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

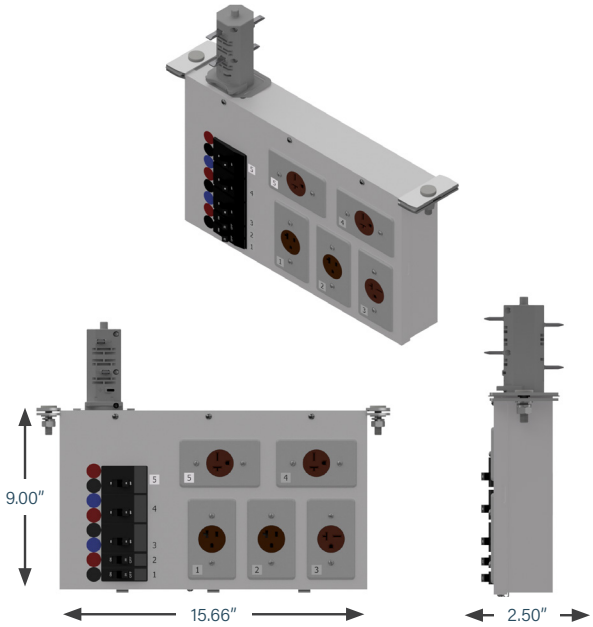
AC NEMA/IEC NAME	VOLTAGE	CURRENT
420C12W	125/250V	20
430C12W	125/250V	30
460C12W	125/250V	60
320C6W	250V	20
330C6W	250V	30
360C6W	250V	60
320C5W	277V	20
330C5W	277V	30
360C5W	277V	60
416C4S	110V	16
432C4S	110V	32
463C4S	110V	63
416C9S	230V	16
432C9S	230V	32
463C9S	230V	63
420C9S	250V	20
430C9S	250V	30
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

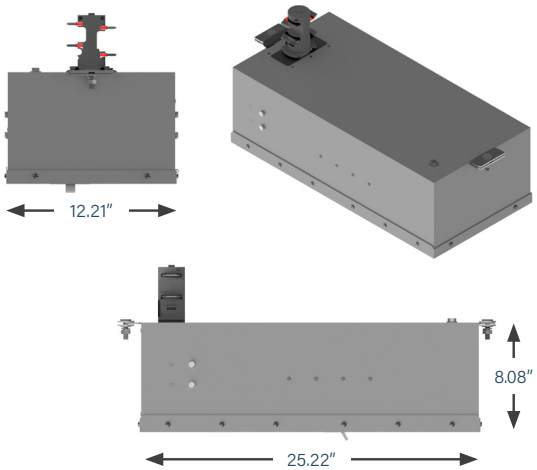
BOX SIZES & STYLES

12

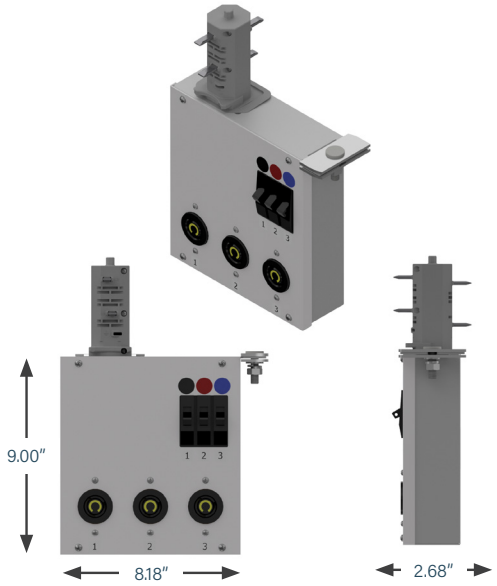
25



27



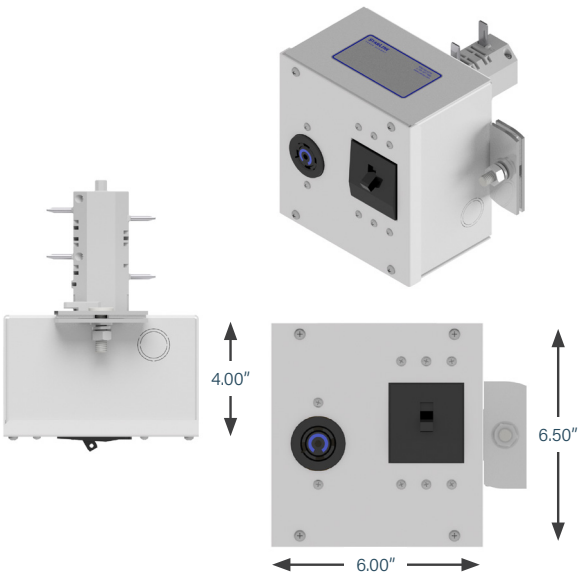
28



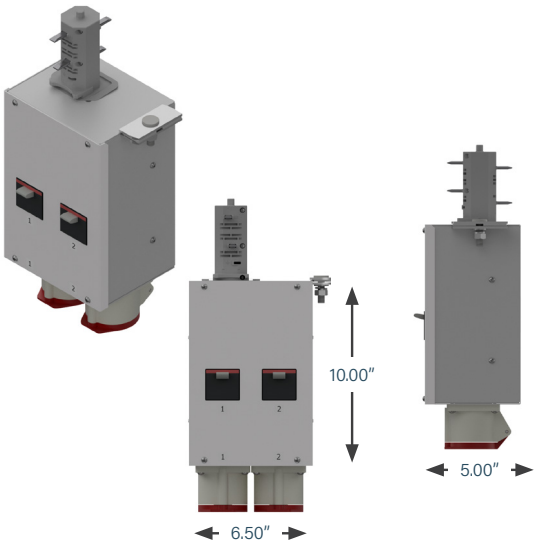
T5 PLUG-IN UNITS

BOX SIZES & STYLES

30



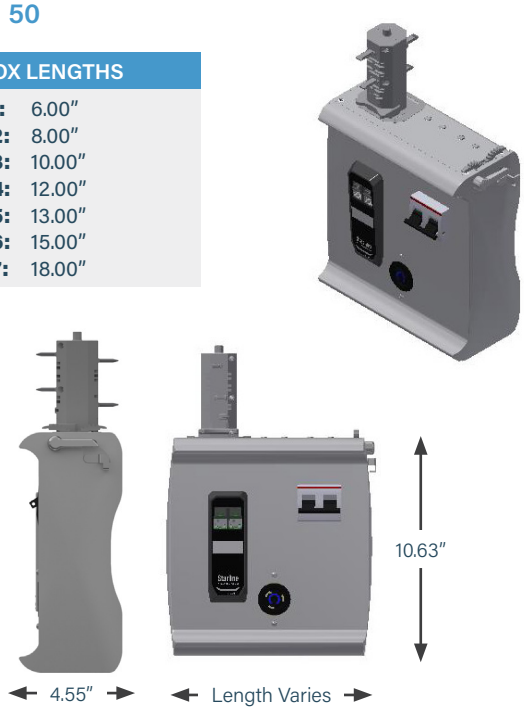
37



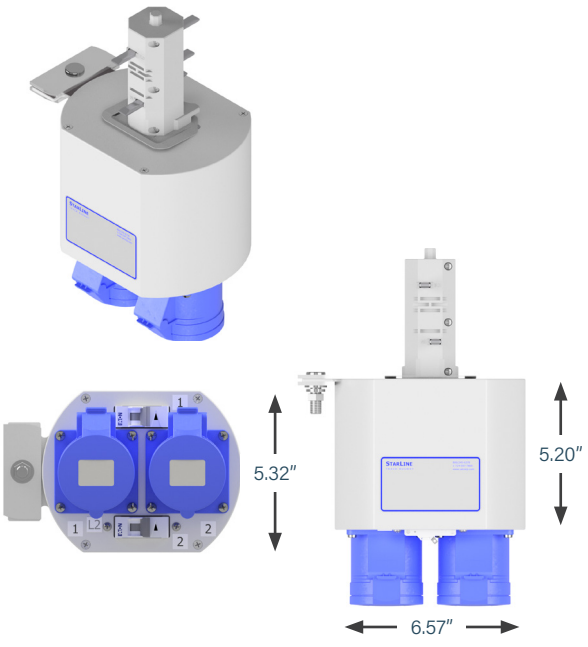
50

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

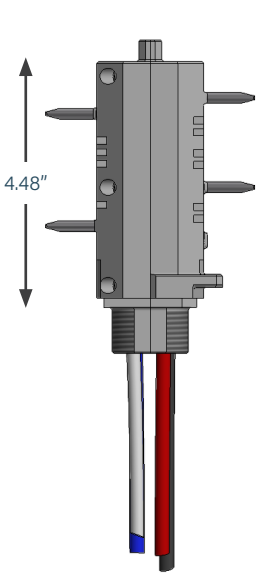
91: 6.00″
92: 8.00″
93: 10.00″
94: 12.00″
95: 13.00″
96: 15.00″
97: 18.00″

4.55″

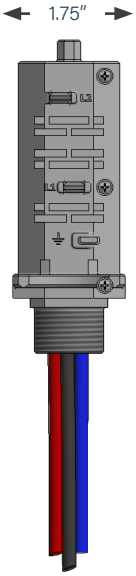
8.13″

Length Varies

T5 PADDLE



4.48″



1.75″

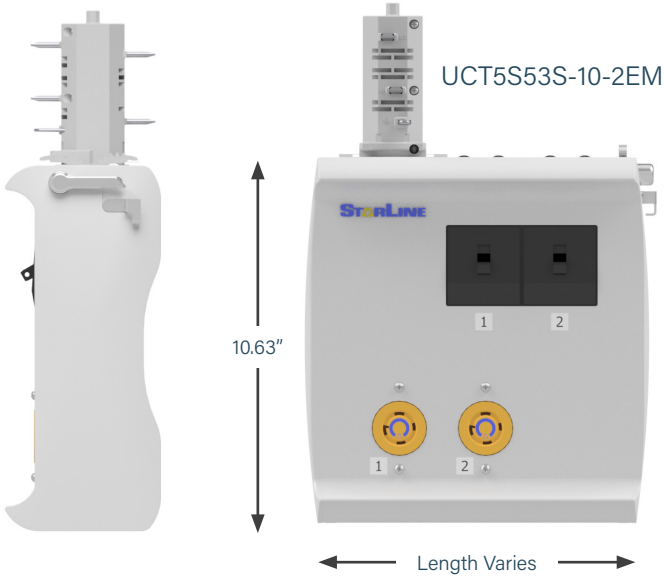
T5 PLUG-IN UNITS

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*



BOX LENGTHS	
51:	6.00″
52:	8.00″
53:	10.00″
54:	12.00″
55:	13.00″
56:	15.00″
57:	18.00″

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

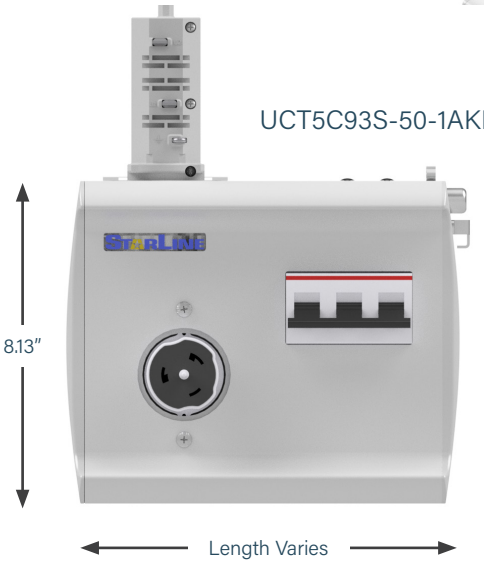
90 SERIES ENCLOSURE CUT SHEET

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*

UCT5C93S-50-1AKFN-STD



BOX LENGTHS	
91:	6.00"
92:	8.00"
93:	10.00"
94:	12.00"
95:	13.00"
96:	15.00"
97:	18.00"

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

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

WIRING CONFIGURATION REFERENCE TABLE

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

T5 PLUG-IN UNITS

DEVICE CODE TABLE

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

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

WIRING CONFIGURATION REFERENCE TABLE

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

T5 PLUG-IN UNITS

DEVICE CODE TABLE

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

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

WIRING CONFIGURATION REFERENCE TABLE

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

T5 PLUG-IN UNITS

DEVICE CODE TABLE

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

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

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

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

Other				
Device Code	**Device Designation**	**Type**	**Voltage**	**Wiring Configuration**
XX	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

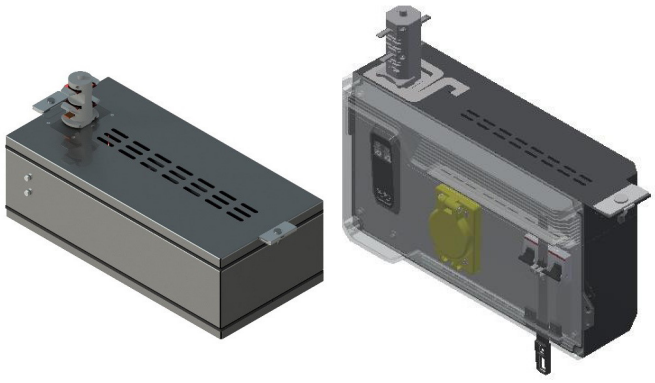
S5 Plug-in Units are designed to provide the same "plug and play" flexbility for our S5 systems. These Plug-In units have been tested and certified to meet the additional ingress protection levels of the overall system. Plugs are designed with lightweight engineered plastic for standard amperage ranges. For higher short circuit and amperage requirements, metal enclosures are available.

OPTIONS:

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

GENERAL SPECS:

- Five Enclosure Options.
  - ES1 – Up to 3 poles available
  - ES2 – Up to 6 poles available
  - ES3 – Up to 9 poles available
  - ES4 - Up to 250A, 480V/65kA
  - ES5 - Up to 600A, 480V/65kA
- 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 600A 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 4.113** to order separately.

S5 PLUG-IN UNITS

SERIES-S ENCLOSURE STYLE OPTIONS

ES1 ENCLOSURE

Dimensions(in):

H: 10.5″
W: 8″
D: 6.36″

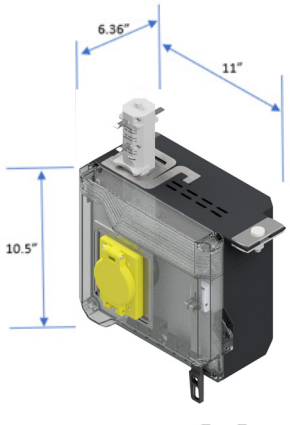
Configuration Options:

- 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″



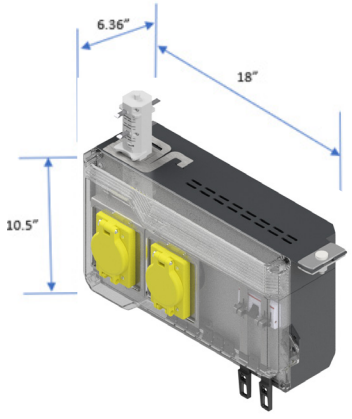
Configuration Options:

- 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

SERIES-S METAL ENCLOSURE OPTIONS

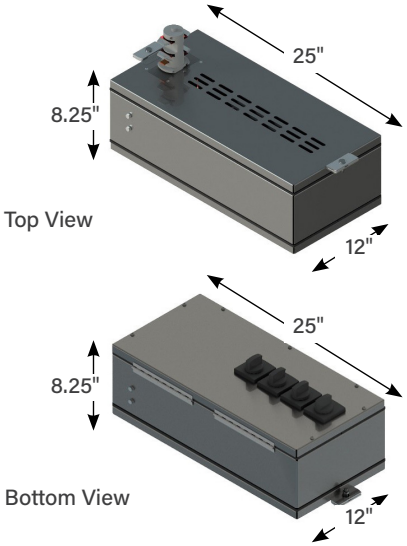
ES4 ENCLOSURE

Dimensions(in):

H: 8.25″
W: 25″
D: 12″

Configuration Options:

- Up to 12 Poles
- Drop cords and receptacles available
- Up to 65kA short circuit rating
- Up to 100 Amps



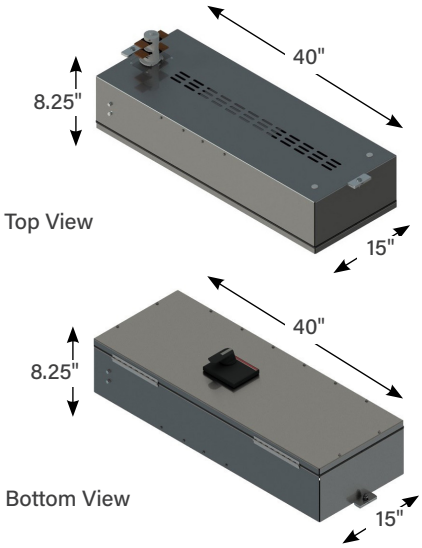
ES5 ENCLOSURE

Dimensions(in):

H: 8.25″
W: 40″
D: 15″

Configuration Options:

- Up to 12 Poles
- Drop cords and receptacles available
- Up to 65kA short circuit rating
- Up to 250 Amps



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

U	C	S5	C	S3	S	–	14	–	1
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Interrupt Rating		8. Device Quantity

RU	F	010	N	–	V71	00	–	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	

1. System *(standard of measure)*

U US

2. Product Type *(section component)*

C Circuit Breaker Unit
F Fused Disconnect Unit

3. Compatibility *(frame compatibility)*

S5 S5 System

4. Ground *(ground type installed)*

C Case (Housing) Ground
D Dedicated Ground
G Isolated (Separate) Ground

5. Box *(what size enclosure)*

S1, S2, S3, S4, S5

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 U.S.)

8. Device Quantity *(quantity of device 1)*

1, 2, 3, 4, 5, 6, 7, 8 (for more than 1 device type, refer to S5 Device Code Table, page 4.149)

9. Device *(quantity of device 1)*

AA, AB, ...ZZ (refer to S5 Device Code Table, page 4.149)

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

F Front
B Bottom

***11. Drop Cord Length** *(location of optional meter)*

XXY: XX = feet, Y = Inches (010 = 1 foot, 0 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)*

12. Accessories *(optional accessories for plugs)*

N N/A

***13. Meter Release** *(V70 AC)*

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

***13. Meter Release** *(V70 DC)*

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

***14. Meter Options** *(V70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard (IPV4 + No Accessories)
40 AC Supply Voltage Only – Breaker Sense (On/Off)

4A Breaker Sense + IPV6
4B Breaker Sense + DHCP
4C Breaker Sense + WPA2E
4E Breaker Sense + IPV6 + DHCP
4F Breaker Sense + IPV6 + WPA2E
4J Breaker Sense + DHCP + WPA2E
4H Breaker Sense + IPV6 + WPA2E + DHCP

15. Paint Color

STD Standard Dark Gray

NOTE: *Consult Factory for other options*

16. Drop Cord Tape Marking

3 Tape Factory Black
4 Tape Factory White
6 Tape Factory Red
7 Tape Factory Blue
8 Tape Factory Green
9 Tape Factory Yellow

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

S5 PLUG-IN UNITS

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

U	C	S5	C	S2	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	–	V71	00	–	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 Release	16. Meter Options		17. Paint Color	*18. 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)*

S5 S5 System

4. Ground *(ground type installed)*

C Case (Housing) Ground
D Dedicated Ground
G Isolated (Separate) Ground

5. Box *(what size enclosure)*

S1, S2, S3, S4, S5

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, 60, 100

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** *(V70 AC)*

2, 3, 4, 5

14. Accessories *(optional accessories for plugs)*

N N/A

15. Meter Release *(V70 AC)*

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

15. Meter Release *(V70 DC)*

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

16. Meter Options *(V70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard (IPV4 + No Accessories)
40 AC Supply Voltage Only – Breaker Sense (On/Off)

4A Breaker Sense + IPV6
4B Breaker Sense + DHCP
4C Breaker Sense + WPA2E
4E Breaker Sense + IPV6 + DHCP
4F Breaker Sense + IPV6 + WPA2E
4J Breaker Sense + DHCP + WPA2E
4H Breaker Sense + IPV6 + WPA2E + DHCP

17. Paint Color

STD Standard Dark Gray

Note: *Consult Factory for other options*

18. Drop Cord Tape Marking

3 Black
4 White
6 Red
7 Blue
8 Green

S5 PLUG-IN UNITS

METER PLUGS: PRODUCT NUMBERS

U	M	S5	C	S3	S	–	065
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Current Transformer

–	V71	00	–	STD	*Optional
	8. Meter Release	9. Meter Options		10. Paint Color	

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, S4, S5

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

S Standard **R** Reversed

7. Current Transformer *(current rating)*

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

8. Meter Release *(V70 AC)*

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

8. Meter Release *(V70 DC)*

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

9. Meter Options *(V70 AC and DC)*

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard (IPV4 + No Accessories)
40 AC Supply Voltage Only – Breaker Sense (On/Off)

4A Breaker Sense + IPV6
4B Breaker Sense + DHCP
4C Breaker Sense + WPA2E
4E Breaker Sense + IPV6 + DHCP
4F Breaker Sense + IPV6 + WPA2E
4J Breaker Sense + DHCP + WPA2E
4H Breaker Sense + IPV6 + WPA2E + DHCP

10. Paint Color

STD Standard Dark Gray

Note: *Consult Factory for other options*

EXAMPLE

UMS5CS2S-065-V7100-STD = *US System, Meter Plug, S5 System, Case Ground, S2 Box, Standard Orientation, 65 Current Rating, V71 Meter, No display, 480vac, Standard Meter Options, Painted Factory Silver*

To learn more visit

www.starlinepower.com

Starline Holdings, LLC
724.597.7800
starlinepower.com

Starline®
A brand of legrand®